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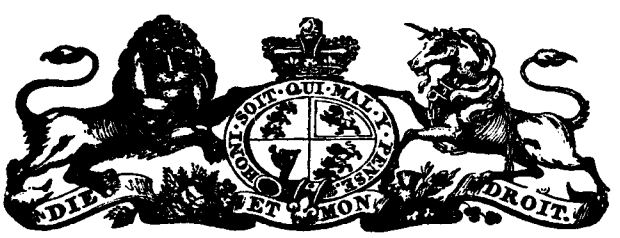

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HONGKONG OBSERVATORY,
15*th January*, 1898.

SIR,—I have the honour to submit my annual report for 1897 to His Excellency the Governor. My thirteenth volume of "Observations and Researches" was published at the end of last year. My fourteenth volume is now ready. It contains the third edition of "The Law of Storms in the Far East," which was finished in 1896. The typhoons about which little was known in 1883, when the Observatory was built, have since been so thoroughly investigated that they are now among the best understood atmospheric disturbances in the world, and it is almost certain that any amount of further investigation based on observations made here or on board vessels at sea would add nothing whatever to our knowledge. For further contributions to this branch of science we must now look to experiments made in physical laboratories in Europe and America and to analytical investigations based upon such experiments.

2. During my absence on leave during the summer and autumn Mr. F. G. FIGG acted for me. and I found everything in good order on my return. Mr. FIGG has investigated the typhoons of 1897, but has not met with any new facts. Although some of the typhoon-paths that occurred in 1897 are rare, they had occurred before. Early last year the Manager of the Eastern Extension, Australasia, and China Telegraph Company requested me to arrange a code for transmitting meteorological observations and information about typhoons. In submitting a code, as desired, I explained that the circumstances obtaining out here were such as to preclude any advantage being obtained from any code as far as the transmission of the observations was concerned. Later, during the autumn, the Manager adopted my views and arranged with Mr. FIGG's assistance a code for transmitting storm-warnings only. This code has been published by Mr. FIGG by order of the Government, and has been adopted by the Telegraph Company.

3. The comparison of the weather forecasts, issued daily about 11 a.m., with the weather subsequently experienced has been conducted on the same system as last year (Comp. Annual Report for 1896 § 5). We have:

Success 65 %, partial success 31 %, partial failure 3½ %, total failure ½ %.

Following the method used in meteorological offices and taking the sum of total and partial success as a measure of success, and the sum of total and partial failure as a measure of failure, we find finally that:—

96 % of the weather forecasts were successful.

4. At the beginning of February, 1897, the storm-signals, invented by Admiral FITZROY in 1861, were introduced in Hongkong, and the typhoon-gun was fired when the drum was hoisted.—On the 14th September at 9 p. the North Cone was hoisted. It was blowing N by E 5 at the time. The maximum wind force (11) was reported from Gap Rock on the 17th at 6 p. On the 18th at 5.30 a. the Cone was lowered.—On the 5th October at 11.15 a. the North Cone was hoisted. It was blowing NE 4 at the time. The maximum wind force (7) was reported from Gap Rock at 11 p. on the same day. On the 6th at 2.25 p. the Cone was lowered.—On the 17th November at 11 a. the North Cone was hoisted. It was blowing NNE 2 at the time. The maximum wind force (8) was reported from Gap Rock at 2 p. on the same day. On the 18th at 6 a. the Cone was lowered.—The Drum was added to the Cone and the gun fired on the 17th September at 2.30 p. At 5 p. on the same day the anemograph at the Observatory registered 56 miles.

5. In spite of the great advantages accruing from the adoption of the system of storm-signals in use in England and other countries, it has been decided to revert to the system in use here from 1884 to 1896 inclusive. This has been decided on the suggestion of the Committee of the Chamber of Commerce, who stated: "Those signals, having been in use for 13 years, were becoming gradually

more and more understood and rightly interpreted by the boat and seafaring people as the time went on, as is always the case, the Committee believe, when a system of signalling is introduced. They likewise convey to masters of ships intimations of the state of the weather at a distance on the voyages on which they are about to sail, information which the present storm-warnings do not supply."

6. The China Coast Meteorological Register was printed daily at the Observatory, and information regarding storms was telegraphed to and exhibited on notice-boards in Hongkong and other ports in China and neighbouring countries as often and as fully as such information could be justified by the weather telegrams received. This happened on 69 days in 1897.

7. Telegraphic connection with Victoria was interrupted on the 16th April, 1897, from 10 a. to noon; from the 8th May at 8.12 a. to 9th May at 8.12 a.; on the 18th May from 11.45 a. to 2.26 p., from the 21st at 5.50 p. to 23rd May at 6.48 a.; on the 23rd May from 10.15 a. to 1.34 p.; on the 24th May from 1.10 a. to 9.8 a.; on the 27th May from 4.13 p. to 5 p.; from the 30th May at 11.55 a. to 31st May at 1.34 a.; on the 5th from 4 p. to 6.45 p.; on the 17th June, from 1.10 a. to 6.20 a. and from 7.26 a. to 10.30 a.; on the 15th July from 2.58 p., to 7.54 p.; on the 28th August from 9.50 a. to 10.43 a.; on the 8th November from 11.25 a. to 0.20 p. Interruptions occurred therefore on 16 days, and, of course, during thunderstorms.—Telephone connection with the Peak was interrupted on the 15th January from 6 a. to 11 a.; from the 8th April at 8 a. to 10th April at 6 a.; from the 1st August at 11 a to 2nd August at 10 a.; from the 17th September at 5 p. to 18th September at 6 a.; from the 6th October at 6 a. to 20th October at 1 p.; from the 13th November at 6 p. to 15th November at 6 a., *i.e.*, on 26 days as well as during thunderstorms.

8. During 1897 in addition to meteorological registers kept at 40 stations on shore, 2,635 ship-logs have been copied on board or forwarded by the captains. The total number of vessels, whose log books have been made use of, was 283. The total number of days' observations (counting separately those made on board different ships on the same day) was 20,899.

9. The following is a list of ships from which logs have been obtained in 1897. The majority are steam ships, and the others are distinguished as follows: bk., barque; sh., ship; bqt., barquentine:—
*Activ, *Aden, *Agenor (sh.), *Aglaia, *Airlie, *Amara, *Ancona, *Antenor, *Argyll, *Ariake Maru, *Arratoon Apcar, *Ask, *Astral, *Atagosan Maru, *Australian, *Bayern, *Belgic, *Bellona *Benalder, *Benlarig, *Benledi, *Bisagno, *Bermida, *Borneo, *Braemar, *Brindisi, *Calédonien, *Canton, *Canton, (P. & O.), *Carmarthenshire, *Catherine Apcar, *Centurion (H.M.S.), *Ceres, *Ceylon, *Changsha, *Chelydra, *Chênnan (C. C. H.), *Chihli, *China, *Ching Ping, *Chingtu, *Ching Wo, *Chi Yuen, *Chowfa, *Chowtai, *Choysang, *Chun Sang, *Chunshan, *Chusan, *City of Rio de Janeiro, *Clara, *Congo, *Cosmopolit, *Daphne (H.M.S.), *Dardanus, *Decima, *Deike Rickmers, *Deucalion, *Deuteros, *Devawongse, *Diomed, *Donar, *Dordogne, *Doric, *Doyo Maru, *Ekaterinoslav (R.V.F.), *Else, *Empress of China, *Empress of India, *Empress of Japan, *Energia, *Ernest Simons, *Esmeralda, *Falkenburg, *Federation, *Formosa, *Formosa (P. & O.), *Framnes, *Frejr, *Frigga, *Fushun, *Gaelic, *Ganges, *Gerda, *Gisela, *Glenartney, *Glenavon, *Glenfalloch, *Glenturret, *Grafton (H.M.S.), *Guthrie, *Hailan, *Hailoong, *Haimun, *Haiphong, *Haitan, *Hangchow, *Hansa, *Hector, *Hertha, *Hikosan Maru, *Hinsang, *Hiogo Maru, Hiroshima Maru, Hohenzollern, *Hoihow, *Hongkong, *Hongleong, *Humber (H.M S.), *Hupeh, *Hydaspes, *Idzumi Maru, *Independent, *Ingraban, *Irene, *Irene (H.G.M.S.), *Jacob Christensen, *Jacob Diederichsen, *Japan, *Java, *Kachidate Maru, *Kagoshima Maru, *Kaisar-I-Hind, *Kaiserinn Augusta (H.G.M.S)., *Kalgan, *Kamakura Maru, *Kanagawa Maru, *Kashing, *Keong Wai, *Kiangnan, *Kinai Maru, *Kintuck, *Kiushiu Maru, *Kongbeng, *Kostroma (R.V.F.), *Kriemhild, *Krim, *Kutsang, *Kwanglee, *Kyoto Maru, *Laurel Branch, *Letimbro, *Likin (I.M.C.C.), *Loongmoon, *Loosok, *Loyal, *L. Shepp (sh.), *Lyeemoon, *Macduff, *Machew, *Malacca, *Maria Valeria, Marquis Bacquehem, *Mathilde, *Mazagon, *Medusa, *Meefoo, *Melbourne, *Melpomene, *Memnon, *Menmuir, *Merionethshire, *Mirzapore, *Mogul, *Mongkut, *Monmouthshire, *Morven, *Mount Lebanon, *Moyune, *Myrmidon, *Namoa, *Namyong, *Nanchang, *Nanshan, *Nanyang, *Nestor, *Ningchow, *Niobe, *Oanfa, *Ocampo, *Océanien, *Olympia, *Omba, *Omi Maru, *Onsang, *Oolong, *Oopack, *Orestes, *Oscarshal, *Oslo, *Pakhoi, *Pakling, *Panther, (H.A.M.S.), *Pathan, *Patroclus, *Pectan, *Peiyang, *Peru, *Petrarch, *Phra Chom Klao, *Phra Chula Chom Klao, *Phra Nang, *Phœnix (H.M.S.), *Picciola, *Pingsuey, *Poating, *Pongola, *Port Adelaide, *Poseidon, *Preussen, *Priam, *Prinz Heinrich, *Progress, *Pronto, *Queen Elizabeth (sh.), *Rainbow (H.M.S), *Ravenna, *Rohilla, *Rosetta, *Sabine *Rickmers, *Sachsen, *Sakura Maru, *Salazie, *Sarpedon, *Sendai Maru,

*Senta, *Shanghai, *Shantung, *Sherard Osborne, *Siam, *Singan, *Sishan, *Smit, *Socotra, *Spinaway (bqt.), *Store Nordiske, *Strathallan, *Suising, *Sumatra (bk.), *Sunda, *Sungkiang, *Süllberg, *Sydney, *Szechuen, *Tacoma, *Taicheong, *Taichiow, *Tailee, *Taisang, *Taiwan, *Taiyick, *Taksang, *Tancarville, *Tantalus, *Terrier, *Tetartos, *Thales, *Thames, *Thekla, *Tientsin, *Tokio Maru, *Tordenskjold, *Toyo Maru, *Trieste, *Tritos, *Triumph, *Trocas, *Tsinan, *Vega (bk.), *Verona, *Victoria, *Victoria (N.P.S.S.Co.), *Vindobona, *Wakasa Maru, *Woosung, *Wosang, *Wuotan, *Yamashiro Maru, *Yamaguchi Maru, *Yarra, *Yashima (H.J.M.S.), *Yuensang, *Zafiro.

10. The entry of observations made at sea in degree squares for the area between 9° south and 45° north latitude, and between the longitude of Singapore and 180° East of Greenwich for the construction of trustworthy pilot charts has been continued, and 161,784 observations in all have now been entered.

Table I.

Meteorological Observations entered in 10° Squares in 1893, 1894, 1895, 1896 and 1897.

Square number.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
19	1	0	0	0	0	0	5	1	0	0	0	0
20	28	11	7	25	23	10	6	8	7	24	23	22
21	22	22	26	32	41	1	10	2	7	25	19	36
22	8	3	12	28	34	25	29	10	0	11	0	1
23	205	252	62	48	14	1	104	78	34	42	67	172
24	295	239	297	284	201	215	415	325	268	308	392	295
25	133	86	92	85	97	96	125	112	109	184	199	146
26	1716	1636	2201	2133	2580	2738	3063	3221	2885	2645	1863	1895
27	0	0	0	0	1	1	0	2	3	1	0	0
55	20	29	26	16	18	24	16	13	16	1	12	12
56	19	51	30	12	24	19	18	37	12	22	19	10
57	29	57	37	40	42	12	17	18	12	29	22	26
58	41	43	71	39	71	32	24	24	19	17	46	40
59	118	123	87	26	66	63	87	31	15	68	120	84
60	183	213	184	144	113	170	284	184	110	79	123	150
61	1582	1629	2214	2072	2619	3043	3255	3230	3131	2655	2124	1804
62	1377	1528	1776	1673	1906	2051	1925	1940	1916	1792	1456	1459
63	7	10	9	9	12	14	9	6	12	8	1	3
91	9	44	23	37	11	16	2	17	24	21	37	54
92	10	41	32	34	12	13	7	11	25	6	33	58
93	7	30	30	22	0	11	1	18	18	19	10	49
94	25	34	6	29	1	12	4	8	23	15	22	19
95	61	100	53	63	57	59	21	21	47	76	46	93
96	1513	1325	1372	1379	1799	1776	1870	1739	1605	1635	1420	1408
97	649	594	742	689	817	870	814	834	835	785	771	729
98	191	126	131	168	227	340	322	321	352	270	227	228
127	99	35	66	47	29	39	54	29	30	59	82	43
128	89	46	77	61	32	57	60	34	26	76	101	63
129	99	50	95	101	52	95	62	63	38	94	137	98
130	211	167	256	195	289	326	382	337	261	270	271	278
131	314	263	305	290	375	478	445	526	399	354	326	264
132	818	659	915	1003	1427	1590	1951	1606	1497	1359	1289	845
133	0	0	60	57	78	95	113	55	55	70	47	13
163	80	55	74	103	119	174	189	199	136	121	72	70
164	108	98	114	158	158	248	259	251	223	184	116	105
165	128	115	108	132	210	234	294	252	246	166	142	113
166	36	43	44	42	78	64	106	47	97	69	58	45
167	6	0	0	3	16	41	74	98	71	44	28	0
168	0	0	0	0	0	0	0	1	2	2	5	0
199	30	28	22	44	22	28	36	23	58	28	34	31
200	11	5	2	4	0	3	5	0	19	5	13	1
202	0	0	0	0	0	1	2	1	5	1	0	0
203	0	0	0	0	0	0	2	1	2	0	0	0
318	0	0	0	1	0	0	0	0	0	0	0	0
319	11	8	16	19	1	0	0	0	1	13	7	13
320	4	0	25	16	13	35	9	2	0	3	0	0
321	0	1	0	1	4	11	0	2	0	0	0	0
322	11	20	15	24	49	17	24	22	21	8	18	3
323	282	178	196	159	137	108	165	120	129	104	160	240
324	203	140	106	59	81	63	103	97	121	157	182	155
325	177	192	189	277	278	280	378	379	340	193	186	187
	10966	10329	12205	11883	14234	15599	17146	16356	15262	14118	12326	11360

11. As stated in the "Instructions for making Meteorological Observations, etc.", meteorological instruments forwarded by observers who regularly send their registers to the Observatory are verified

here free of cost. During the past year 7 barometers, 5 anëroids and 10 thermometers were verified. In addition, several hundred barometers and anëroids on board ship were compared with our standard.

12. The following table shows the spectroscopic rainband as observed daily at about 10 a. The mean value for the year was 2.1.

Table II.

Rainband in 1897.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1, ...	1	2	2	3	1	2	2	5	2	2	2	1
2, ...	1	1	2	1	2	2	2	5	2	2	1	1
3, ...	2	2	2	1	2	3	2	3	2	2	1	2
4, ...	2	2	2	2	2	2	3	3	2	2	1	2
5, ...	2	2	1	3	3	2	3	3	2	3	1	2
6, ...	2	2	2	3	2	3	3	2	2	4	2	2
7, ...	2	4	2	1	2	3	2	2	2	3	2	2
8, ...	2	2	2	2	3	2	2	2	2	3	2	2
9, ...	2	2	2	2	3	2	3	3	2	3	2	1
10, ...	2	3	2	3	4	3	2	3	2	2	2	2
11, ...	2	0	3	3	2	2	2	4	3	2	2	1
12, ...	2	0	2	2	2	3	2	3	2	2	2	1
13, ...	3	1	2	2	2	2	2	3	2	2	2	2
14, ...	2	1	2	1	2	2	2	4	3	2	2	2
15, ...	2	2	2	2	2	2	2	4	2	3	2	1
16, ...	2	1	2	2	3	3	2	3	2	2	2	2
17, ...	3	2	2	3	3	3	2	3	2	2	3	2
18, ...	1	2	2	2	2	3	2	3	3	2	2	1
19, ...	2	2	2	1	3	3	2	2	3	2	2	2
20, ...	1	2	3	1	3	3	2	2	2	2	3	1
21, ...	1	3	2	1	5	4	2	2	2	2	2	1
22, ...	1	2	2	2	5	4	2	2	2	2	1	1
23, ...	1	2	2	2	4	4	2	2	2	2	1	1
24, ...	1	3	2	2	3	3	2	2	2	1	1	2
25, ...	1	2	2	2	3	4	3	2	2	2	0	1
26, ...	1	2	2	2	2	3	2	2	2	2	0	1
27, ...	1	2	2	1	2	3	2	2	2	2	1	0
28, ...	2	2	2	2	2	4	3	2	2	3	1	1
29, ...	2	...	2	1	2	3	3	2	2	2	0	2
30, ...	3	...	2	2	2	3	3	3	2	2	1	2
31, ...	2	...	3	...	2	...	3	2	...	2	...	3
Mean,.....	1.7	1.9	2.1	1.9	2.6	2.8	2.3	2.7	2.1	2.2	1.5	1.5

13. Mr. PLUMMER observed 402 transits for time determination in 1897, and the axis of the transit instrument was levelled 171 times, *i.e.*, upon each day when observations were made. The rates of the standard clocks are given in the accompanying tables (III and IV), and are compared with the rates given by the formulæ at the head of the tables. No alteration has been made to either clock during the year, and although it was found necessary to clean the contact springs of the sidereal standard clock on November 29th, this was effected without in any way interfering with the going of the clock.

The errors of the Time Ball are given in table V. The time ball has twice been under repair, namely, from March 5 to 10, when the base of the piston was found to have been shattered, and a new brass base was fixed to it by the Hongkong and Whampoa Dock Company in place of the original cast iron one; and again from July 13 to 19, when the zinc tube within the ball was found to be crumpled up and pressing against the mast. On July 7 the lock was under repair. There were five failures of the time ball in 1897, viz., on March 11 owing to an error of the workmen in centering the new brass base of the piston; on June 25, in consequence of the discharging spring being too weak; on July 6 because the tooth of the lock (being much worn) allowed the piston to jamb against the opposite side of the cylinder; on July 8, because the Assistant failed to raise the piston high enough to free the tooth of the lock; and on July 12, for the reason already given as rendering the repairs necessary on the days immediately following. The ball is not dropped on Government holidays and on one other occasion (Sunday, May 9) in consequence of the illness of two Assistants it was intermitted. It was successfully dropped 332 times in this year. The probable error was in January $\pm 0^s.33$, in February $\pm 0^s.19$, in March $\pm 0^s.16$, in April $\pm 0^s.12$, in May $\pm 0^s.16$, in June $\pm 0^s.13$, in July $\pm 0^s.09$, in August $\pm 0^s.13$, in September $\pm 0^s.10$, in October $\pm 0^s.14$, in November $\pm 0^s.16$, in December $\pm 0^s.12$.

Table III.

Rate of Dent Sidereal Standard Clock in 1897.

$r_c = +1^s.29 - 0^s.063\,(\tau - 70^\circ)$.

Period.	Observed rate. r_o	Temp. τ	Arc. a	Calculated rate. r_c	$r_o - r_c$
	s.	°	° ′ ″	s.	s.
December 30—January 9,.....	+1.59	66.9	2 57 30	+1.49	+0.10
January 9— „ 19,.....	+1.26	65.5	2 54 42	+1.57	−0.31
„ 19— „ 29,.....	+1.63	62.9	2 59 33	+1.74	−0.11
„ 29—February 8,.....	+1.52	65.2	3 0 13	+1.59	−0.07
February 8— „ 18,.....	+2.08	58.7	3 1 26	+2.00	+0.08
„ 18— „ 28,.....	+1.94	60.5	3 1 39	+1.89	+0.05
„ 28—March 10,.....	+1.70	63.2	3 1 19	+1.72	−0.02
March 10— „ 20,.....	+1.56	64.4	3 0 49	+1.65	−0.09
„ 20— „ 30,.....	+1.33	66.2	3 0 24	+1.53	−0.20
„ 30—April 9,.....	+1.41	68.5	3 1 3	+1.38	−0.03
April 9— „ 19,.....	+1.46	68.6	3 1 22	+1.38	+0.08
„ 19— „ 29,.....	+1.30	71.6	3 2 33	+1.19	+0.11
„ 29—May 9,.....	+0.95	76.0	3 2 37	+0.91	+0.04
May 9— „ 19,.....	+0.63	80.8	3 2 20	+0.61	+0.02
„ 19— „ 29,.....	+0.61	80.6	3 2 30	+0.62	−0.01
„ 29—June 8,.....	+0.49	84.3	3 3 10	+0.39	+0.10
June 8— „ 18,.....	+0.50	84.4	3 2 43	+0.39	+0.11
„ 18— „ 28,.....	+0.40	83.1	3 2 51	+0.47	−0.07
„ 28—July 8,.....	+0.63	79.0	3 3 15	+0.73	−0.10
July 8— „ 18,.....	+0.52	83.0	3 2 37	+0.47	+0.05
„ 18— „ 28,.....	+0.45	84.7	3 3 41	+0.36	+0.09
„ 28—August 7,.....	+0.42	84.0	3 3 12	+0.41	+0.01
August 7— „ 17,.....	+0.33	83.5	3 2 49	+0.44	−0.11
„ 17— „ 27,.....	+0.46	82.4	3 2 20	+0.51	−0.05
„ 27—September 6,.....	+0.43	83.7	3 2 49	+0.43	0.00
September 6— „ 16,.....	+0.44	83.8	3 3 18	+0.42	+0.02
„ 16— „ 26,.....	+0.61	81.5	3 3 27	+0.56	+0.05
„ 26—October 6,.....	+0.52	82.6	3 3 47	+0.50	+0.02
October 6— „ 16,.....	+0.70	79.2	3 3 42	+0.71	−0.01
„ 16— „ 26,.....	+0.84	77.4	3 4 17	+0.82	+0.02
„ 26—November 5,.....	+0.84	78.5	3 4 17	+0.76	+0.08
November 5— „ 15,.....	+0.79	77.9	3 4 30	+0.79	0.00
„ 15— „ 25,.....	+1.16	70.7	3 4 30	+1.25	−0.09
„ 25—December 5,.....	+1.77	62.4	3 3 26	+1.77	0.00
December 5— „ 15,.....	+1.61	65.7	3 3 23	+1.56	+0.05
„ 15— „ 25,.....	+1.80	62.0	3 3 3	+1.79	+0.01
„ 25—January 4,.....	+1.75	63.3	3 3 46	+1.71	+0.04

Table IV.

Rate of Brock Standard Mean Time Clock in 1897.

$r_c = +0^s.70 - 0^s.073\,(\tau - 75^\circ) - 0^s.0020\,(t^d. - \text{July } 1.)$

Period.			Observed rate. r_o	Temp. τ	Arc. a			Calculated rate. r_c	$r_o - r_c$
			s.	°	°	′	″	s.	s.
December	30—January	9,.....	+1.36	72.1	4	9	42	+1.27	+0.09
January	9— „	19,.....	+1.39	71.2	4	7	30	+1.34	+0.05
„	19— „	29,.....	+1.52	68.1	4	6	18	+1.52	0.00
„	29—February	8,.....	+1.35	70.2	4	4	54	+1.25	+0.10
February	8— „	18,.....	+1.81	62.7	4	6	24	+1.88	−0.07
„	18— „	28,.....	+1.70	63.2	4	3	48	+1.82	−0.12
„	28—March	10,.....	+1.58	67.4	4	0	0	+1.49	+0.09
March	10— „	20,.....	+1.49	68.9	4	1	18	+1.37	+0.12
„	10— „	30,.....	+1.12	71.2	4	2	0	+1.18	−0.06
„	30—April	9,.....	+1.23	71.4	4	0	30	+1.14	+0.09
April	9— „	19,.....	+1.15	72.0	4	0	24	+1.08	+0.07
„	19— „	29,.....	+0.90	74.5	4	1	18	+0.78	+0.12
„	29—May	9,.....	+0.56	78.5	4	1	30	+0.56	0.00
May	9— „	19,.....	+0.53	82.3	4	0	24	+0.27	+0.26
„	19— „	29,.....	+0.51	82.1	4	1	12	+0.26	+0.25
„	29—June	8,.....	+0.22	85.7	4	1	18	−0.02	+0.24
June	8— „	18,.....	+0.17	84.2	4	1	18	+0.07	+0.10
„	18— „	28, ...	+0.02	82.6	4	0	48	+0.17	−0.15
„	28—July	8,.....	+0.13	79.4	4	0	54	+0.38	−0.25
July	8— „	18,.....	−0.01	83.1	4	0	30	+0.09	−0.10
„	18— „	28,.....	−0.06	84.5	4	0	36	−0.03	−0.03
„	28—August	7,.....	−0.02	83.6	4	0	24	+0.01	−0.03
August	7— „	17.....	0.00	82.7	4	0	24	+0.06	−0.06
„	17— „	27,.....	−0.03	81.7	4	0	6	+0.11	−0.14
„	27—September	6,.....	−0.10	83.1	3	59	36	−0.01	−0.09
September	6— „	16,.....	−0.09	82.7	4	0	24	0.00	−0.09
„	16— „	26,.....	−0.03	82.1	4	1	0	+0.02	−0.05
„	26—October	6,.....	−0.06	81.8	4	0	24	+0.02	−0.08
October	6— „	16,.....	+0.10	79.4	4	1	42	+0.18	−0.08
„	16— „	26,.....	+0.12	76.8	4	1	42	+0.35	−0.23
„	26—November	5,.....	−0.02	78.5	4	2	6	+0.20	−0.22
November	5— „	15,.....	+0.08	79.1	4	2	24	+0.14	−0.06
„	15— „	25,.....	+0.48	71.9	4	4	48	+0.65	−0.17
„	25—December	5,.....	+1.11	67.5	4	4	36	+0.95	+0.16
December	5— „	15,.....	+0.76	71.2	4	3	54	+0.66	+0.10
„	15— „	25,.....	+0.99	68.0	4	4	18	+0.87	+0.12
„	25—January	4,.....	+0.72	70.2	4	5	36	+0.69	+0.03

Table V.

Errors of Time-Ball in 1897.

− means too late. + means too early.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1	...	−0.2	0.1	0.1	0.1	0.1	0.1	+0.2	0.1	0.1	0.1	0.1
2	...	...	0.1	0.1	0.1	0.1	0.1	...	0.1	0.1	0.1	0.1
3	0.1	−0.3	0.1	0.1	0.1	−0.2	0.1	+0.4	0.1	0.1	0.1	0.1
4	+0.2	−0.4	0.1	0.1	0.1	0.1	0.1	+0.5	0.1	+0.2	+0.2	0.1
5	0.1	−0.5	...	0.1	+0.3	0.1	0.1	+0.4	0.1	+0.3	+0.2	0.1
6	+0.3	−0.4	..	0.1	+0.3	0.1	...	0.1	0.1	+0.3	+0.2	0.1
7	+0.4	−0.3	...	0.1	+0.5	..	...	0.1	0.1	+0.3	+0.3	0.1
8	+0.4	−0.3	...	−0.2	+0.6	0.1	...	0.1	0.1	+0.3	+0.3	0.1
9	+0.6	−0.2	...	−0.3	...	0.1	0.1	0.1	0.1	+0.2	+0.4	0.1
10	+0.7	0.1	...	−0.4	+0.7	+0.2	0.1	0.1	0.1	0.1	0.1	0.1
11	+0.8	−0.2	...	−0.5	+0.3	0.1	−0.2	−0.2	0.1	0.1	0.1	0.1
12	+0.9	0.1	0.1	−0.2	0.1	0.1	...	0.1	0.1	0.1	−0.2	+0.3
13	+1.0	0.1	0.1	0.1	0.1	0.1	...	0.1	0.1	0.1	0.1	0.1
14	+1.1	+0.2	+0.2	0.1	0.1	0.1	...	0.1	0.1	0.1	0.1	0.1
15	0.1	0.1	+0.2	0.1	0.1	0.1	...	0.1	+0.2	0.1	0.1	+0.2
16	+0.4	0.1	0.1	...	0.1	+0.2	...	0.1	0.1	0.1	0.1	+0.3
17	+0.8	+0.2	0.1	0.1	−0.3	+0.3	...	+0.2	0.1	0.1	+0.2	+0.3
18	+0.8	+0.2	0.1	...	−0.2	+0.2	...	+0.3	−0.2	0.1	+0.3	0.1
19	−0.2	+0.2	+0.2	...	0.1	+0.2	...	0.1	−0.3	+0.2	+0.3	0.1
20	−0.2	+0.2	+0.3	0.1	0.1	+0.4	0.1	0.1	0.1	+0.2	+0.3	0.1
21	−0.2	+0.2	+0.4	0.1	0.1	+0.2	0.1	0.1	0.1	0.1	+0.3	0.1
22	−0.3	+0.2	+0.7	0.1	0.1	...	0.1	0.1	0.1	0.1	+0.2	−0.2
23	−0.3	+0.3	+0.4	0.1	0.1	...	0.1	0.1	0.1	0.1	+0.2	−0.2
24	−0.4	+0.3	+0.2	0.1	...	0.1	0.1	0.1	0.1	0.1	0.1	−0.4
25	−0.2	+0.2	+0.2	0.1	+0.2	...	0.1	0.1	0.1	−0.2	0.1	...
26	0.1	0.1	+0.2	0.1	0.1	0.1	0.1	0.1	0.1	−0.2	−0.3	+0.2
27	0.1	0.1	+0.2	0.1	0.1	0.1	0.1	0.1	0.1	−0.2	0.1	...
28	0.1	+0.2	0.1	0.1	0.1	−0.2	0.1	0.1	0.1	−0.3	0.1	0.1
29	0.1	...	0.1	0.1	0.1	−0.3	0.1	0.1	0.1	−0.2	−0.2	0.1
30	0.1	...	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	−0.2	0.1
31	0.1	...	0.1	...	0.1	...	0.1	0.1	...	0.1	...	0.1

14. Observations for latitude by Talcott's method have been continued throughout the year and 1359 observations of pairs of stars have been observed, distributed as follows:— In January 101 pairs, in February 61 pairs, in March 7 pairs, in April 51 pairs, in May 134 pairs, in June 26 pairs, in July 144 pairs, in August 152 pairs, in September 165 pairs, in October 147 pairs, in November 230 pairs, in December 141 pairs. The relative numbers give a clear indication of the way in which the atmospheric conditions interfere with astronomical observations in Hongkong. From the 1st June till the 31st December Mr. Plummer made all the observations.

15. The cisterns of the barograph and standard barometers are placed 109 feet above M.S.L. The bulbs of the thermometers are rotated 108 feet above M.S.L., 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 M.S.L., and 21 inches above the ground.

16. 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 temperature of the air and of evaporation as determined by aid of rotating thermometers. Table II. exhibits also the extreme temperatures reduced to rotating thermometer. Table III. exhibits also the solar radiation (black bulb in vacuo) maximum temperatures reduced to Kew arbitrary standard.

Table IV. exhibits the mean relative humidity in percentage of saturation and mean tension of water vapour present in the air in inches of mercury, for every hour of the day and for every day of 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 (or dew) in inches registered from half an hour before to half an hour after the hour named. It exhibits also the estimated duration of rain.

Table VII. exhibits the velocity of the wind in miles and its direction in points (1—32). The velocity is measured from half an hour before to half an hour after the hour named, but the direction is read off at the hour.

Table VIII. exhibits the amount (0—10), name (Howard's classification) 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. With regard to the names of clouds nimbus (nim) is only entered when the rain is seen to fall; when no rain is seen to fall cumulo-nimbus (cum-nim) is entered, and this name is also used to indicate clouds intermediate between cumulus and nimbus. Cumulo-stratus (cum-str) is the well known thunder cloud, and strato-cumulus (str-cum) signifies a cloud intermediate between stratus and cumulus.

Table IX. exhibits for every hour in the day the mean velocity of the wind reduced to 4 as well as 2 directions, according to strictly accurate formulæ, and also the mean direction of the wind.

Below this is printed a list of the phenomena observed.

17. The following annual Weather Report for 1897 is arranged as follows:—

Table VI. exhibits the mean values for the year (or hourly excess above this) obtained from the monthly reports. The total duration of rain was 1036 hours. There fell at least 0.01 inch of rain on 166 days.

Table VII. exhibits the number of hours during a portion of which at least 0.005 inch of rain (or dew) was registered.

Table VIII exhibits the number of days with wind from eight different points of the compass. The figures are obtained from the mean daily directions in Table VII. of the monthly reports. Days, with wind from a point equi-distant from two directions given, are counted half to one of these and half to the other, *e.g.*, half of the days when the wind was NNE are counted as N, and the other half as NE.

Table IX. 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 X. shows the frequency of clouds of different classes.

Table XI. is arranged as last year.

Table XII. exhibits the monthly and annual extremes. The extremes of humidity and vapour tension are only approximate as the hourly values are not calculated.

Table XIII. contains five-day means.

Tables XIV., XV., XVI. contain magnetic observations.

18. Observations of magnetic 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 Observations and Researches made in 1885:* "On the verification of the unifilar magnetometer Elliot Brothers No. 55." The value of log π^2 K was 3.44905 at 24°. The value of P was + 5.818. The mean value of the magnetic moment of the vibrating needle was 0.44872 in English units and 585.84 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 total forces, which have been computed by aid of the observed dips, and their values are also given in English units (one foot, one grain, one second) and in Gauss's units (one millimeter, one milligram, one second).

I have the honour to be,

Sir,

Your most obedient Servant,

W. Doberck,
Director.

The Honourable
The Colonial Secretary,
&c., &c., &c.

Table VI.

Mean Values and Hourly Excess above the Mean of Meteorological Elements in 1897.

	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.
Pressure,	+.004	—.006	—.014	—.017	—.012	.000	+.017	+.032	+.043	+.044	+.034	+.016	—.008	—.027	—.040	—.045	—.040	—.031	—.016	.000	+.013	+.020	+.019	+.013	29.844
Temperature,	— 1.3	— 1.6	— 1.8	— 2.0	— 2.1	— 2.0	— 1.4	— 0.5	+ 0.5	+ 1.4	+ 2.0	+ 2.4	+ 2.6	+ 2.6	+ 2.3	+ 1.8	+ 1.0	+ 0.2	— 0.2	— 0.4	— 0.6	— 0.8	— 1.0	— 1.2	71.7
Range,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8.3
Humidity,	+ 5	+ 5	+ 5	+ 5	+ 5	+ 4	+ 3	0	— 2	— 5	— 6	— 7	— 7	— 8	— 6	— 5	— 3	— 1	0	+ 2	+ 3	+ 3	+ 5	+ 5	79
Vapour Tension,	+.011	+.006	+.004	+.001	—.003	—.001	—.005	—.005	—.007	—.009	—.008	—.007	—.007	—.007	—.004	—.004	—.007	—.003	+.002	+.006	+.010	+.011	+.014	+.013	0.654
Sunshine (Total),	...	...	...	...	...	6.6	84.6	137.5	160.6	176.3	185.9	182.7	188.7	180.7	174.6	155.0	96.5	16.1	...	...	...	...	...	...	1745.8
Rainfall, (Total),	3.705	5.025	6.260	8.640	6.185	7.450	7.890	6.895	5.825	2.485	1.995	2.710	2.305	3.890	3.075	2.285	3.020	3.580	3.280	1.625	2.415	1.900	2.650	4.940	100.030
Hours of Rain (Total),	41	43	53	53	52	47	51	46	47	38	23	33	32	34	33	32	28	27	32	30	37	36	38	45	931
Intensity of Rain,	0.090	0.117	0.118	0.163	0.119	0.159	0.155	0.150	0.124	0.065	0.087	0.082	0.072	0.114	0.093	0.071	0.108	0.133	0.102	0.054	0.065	0.053	0.070	0.110	0.107
Wind-Velocity,	— 0.6	— 0.7	— 1.0	— 0.7	— 1.0	— 1.1	— 1.3	— 0.6	+ 0.2	+ 0.8	+ 2.0	+ 1.7	+ 1.6	+ 1.4	+ 1.3	+ 1.1	+ 0.6	— 0.4	— 0.8	— 0.7	— 0.7	— 0.5	— 0.3	— 0.4	13.4
Wind-Direction,	— 2°	— 1°	— 2°	— 5°	— 7°	— 5°	— 9°	— 10°	— 7°	— 1°	+ 4°	+ 7°	+ 11°	+ 13°	+ 12°	+ 11°	+ 9°	+ 4°	— 2°	— 4°	— 7°	— 5°	— 4°	— 3°	E 2° S
Cloudiness,	+ 1	...	...	+ 4	...	...	+ 3	...	...	+ 1	...	...	— 3	...	...	— 1	...	...	— 2	...	...	— 3	...	...	71
Solar Radiation,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	124.7
Excess of do. do.,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	48.4

Table VII.

Number of Hours during a portion of which it rained for each Month in the Year 1897.

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,	3	2	2	2	3	4	1	2	3	2	2	3	3	2	2	2	0	0	0	0	1	2	1	4	46
February,	1	2	4	5	3	6	7	8	3	2	1	0	1	1	2	3	4	2	2	2	4	3	4	1	71
March,	3	3	3	3	2	2	3	2	3	0	0	0	0	1	1	2	1	0	0	1	2	2	0	2	36
April,	4	3	4	4	3	4	3	2	1	1	1	1	2	1	1	1	1	1	1	1	3	3	3	4	53
May,	3	3	3	4	5	4	5	5	4	4	2	3	4	5	3	3	2	1	3	2	2	2	2	3	77
June,	5	10	13	12	10	7	9	7	7	7	8	8	9	5	4	5	4	5	6	5	3	3	6	7	165
July,	5	5	7	5	8	5	6	4	3	5	3	4	1	2	1	3	2	2	3	4	6	2	3	3	92
August,	6	5	7	8	6	5	6	8	11	8	6	9	6	8	9	4	6	5	6	3	3	5	4	6	150
September,	1	2	2	1	3	3	2	3	4	4	0	2	1	4	3	1	2	2	3	4	5	3	2	3	60
October,	6	5	4	6	4	2	1	1	3	2	0	2	2	3	5	4	3	5	4	3	3	3	6	5	82
November,	4	2	2	2	3	3	6	2	2	2	0	0	2	1	2	3	2	2	2	2	2	5	5	5	61
December,	0	1	2	1	2	2	2	2	3	1	0	1	1	1	0	1	1	2	2	3	3	3	2	2	38
Total,	41	43	53	53	52	47	51	46	47	38	23	33	32	34	33	32	28	27	32	30	37	36	38	45	931

Table VIII.

Number of Days with Wind from eight different points of the Compass during each Month of the Year 1897.

Month.	N.	NE.	E.	SE.	S.	SW.	W.	NW.
January,	2	4	20	2	1	...	1	1
February,	7	6	13	...	...	...	1	1
March,	...	1	28	2	...	...	...	...
April,	3	3	24	...	...	...	...	...
May,	...	1	15	2	4	7	2	...
June,	...	1	12	1	4	11	1	...
July,	...	2	6	6	5	11	1	...
August,	...	...	11	5	4	7	4	...
September,	2	4	11	...	2	5	5	1
October,	3	4	24	...	...	...	...	...
November,	8	9	12	...	...	...	1	...
December,	14	5	11	...	..	...	...	1
Sums,	39	40	187	18	20	41	16	4

Table IX.

Total Number of Days on which different Meteorological Phenomena were noted and Total Number of Thunderstorms during each Month of the Year 1897.

Month.	Fog.	Electric Phenomena.	Lightning.	Thunder.	Thunder-storms.	Unusual Visibility.	Dew.	Rainbows.	Lunar Halo.	Lunar Corona.	Solar Halo.	Solar Corona.
January,	5	...	...	...	...	...	6	...	...	...	...	...
February,	5	...	...	...	...	3	...	...	...	...	...	...
March,	14	2	2	1	...	1	...	...	1	1	...	...
April,	9	5	4	2	2	3	5	...	...	1	...	...
May,	4	15	15	8	2	6	8	3	...	1	...	...
June,	2	23	21	20	4	3	5	3	8	5	5	...
July,	4	17	16	7	2	4	9	9	8	2	6	1
August,	5	18	17	12	8	5	11	6	4	1	6	...
September,	4	20	19	7	2	7	16	...	9	5	3	...
October,	1	1	1	...	...	1	3	...	1	4	2	...
November,	2	1	1	1	1	3	4	1	4	2	2	1
December,	2	...	...	...	...	1	3	...	1	2	...	...
Sums,	57	102	96	58	21	37	70	22	36	24	24	2

Table X.

Total Number of Times that Clouds of different forms were observed in each Month of the Year 1897.

Month.	c.	c-str.	c-cum.	sm-cum.	cum.	cum-str.	str.	R-cum.	cum-nim.	nim.
January,	...	1	4	61	116	...	24	9	11	25
February,	...	1	...	22	69	...	61	4	22	37
March,	1	2	6	33	133	...	46	1	16	42
April,	...	6	11	46	106	...	43	1	17	25
May,	...	2	33	31	170	1	13	1	7	33
June,	...	12	68	42	160	1	19	...	12	50
July,	...	26	66	40	200	...	11	...	7	20
August,	...	11	60	30	144	2	21	1	18	46
September,	...	23	67	30	145	1	10	1	6	21
October,	1	9	29	56	127	...	16	9	13	29
November,	...	10	27	35	106	...	16	2	2	32
December,	...	3	12	54	68	...	37	2	3	24
Sums,	2	106	383	480	1544	5	317	31	134	384

Table XI.

Month. 1897.	Barometric Tide.	Mean Diurnal Variability of Temperature.	Weight of Water Vapour in Troy Grains in each cubic foot of Air.	Rainfall. Mean.	Rainfall. 1897.	Hourly Intensity of Rain.	Mean Direction of Clouds whence coming. Lower.	Upper.	Cirrus.	Number of Days with Clouds below 2000 ft.	1000 ft.
January, ...	0.103	2°.64	5.22	0.98	2.260	0.036	E 24° S	W 24° S	...	15	9
February, ...	0.106	2 .36	3.86	1.32	1.820	0.015	E 11° N	W 27° S	...	20	12
March, ...	0.107	2 .75	5.83	3.24	0.815	0.006	E 28° S	W 29° S	...	23	16
April, ...	0.098	2 .49	6.18	5.27	3.240	0.047	E 22° S	W 5° S	...	16	8
May, ...	0.095	2 .14	8.96	12.54	14.860	0.193	S 19° W	W 29° S	...	19	4
June, ...	0.067	1 .59	9.61	15.81	23.355	0.163	S 29° W	N 22° W	...	15	4
July, ...	0.061	0 .66	9.16	15.98	5.565	0.101	S 6° W	N 34° E	...	11	1
August, ...	0.068	1 .16	9.53	14.85	25.550	0.197	S 12° W	N 17° E	...	18	8
September, ...	0.089	1 .01	8.88	12.65	8.340	0.174	E 5° S	E 4° N	...	3	1
October, ...	0.087	1 .37	7.49	5.36	6.425	0.085	E 10° N	N 40° E	WSW	8	2
November, ...	0.098	1 .56	5.53	1.17	7.320	0.126	E 25° N	W 29° S	...	2	2
December, ...	0.113	2 .39	4.00	1.00	0.480	0.008	E 12° N	W 49° S	...	7	2
Mean, ...	0.091	1 .84	7.02	90.17	100.030	0.096	E 37° S	...	...	157	69

Table XII.

Monthly Extremes of the Principal Meteorological Elements registered during the year 1897.

Month.	Barometer. Max.	Barometer. Min.	Temperature. Max.	Temperature. Min.	Humidity. Min.	Vapour Tension. Max.	Vapour Tension. Min.	Rain. Daily Max.	Rain. Hourly Max.	Wind Velocity. Max.	Radiation. Sun Max.
January, ...	30.267	29.706	79.2	46.7	45	0.748	0.153	1.360	0.510	42	140.9
February, ...	.368	.775	76.7	41.0	23	0.727	0.076	0.540	0.425	43	132.9
March, ...	.110	.658	82.1	54.7	60	0.825	0.308	0.425	0.220	45	136.8
April, ...	.083	.651	83.2	57.5	32	0.808	0.222	1.795	0.440	44	139.3
May, ...	29.943	.447	90.0	67.6	60	1.001	0.514	5.225	1.765	36	147.8
June, ...	.795	.363	89.8	72.0	58	1.045	0.597	6.030	2.550	40	152.6
July, ...	.851	.447	90.3	74.6	54	0.983	0.548	1.755	0.615	34	150.1
August, ...	.850	.288	89.2	73.1	61	1.054	0.752	5.015	1.840	38	150.8
September, ...	.924	.577	91.8	72.3	41	0.954	0.485	4.005	1.720	56	153.5
October, ...	30.023	.687	86.8	66.3	39	0.920	0.374	2.500	0.510	40	144.6
November, ...	.247	.607	85.6	51.1	12	0.846	0.070	5.875	1.620	41	144.7
December, ...	.312	.851	76.4	47.9	29	0.581	0.127	0.195	0.045	32	131.4
Year, ...	30.368	29.288	91.8	41.0	12	1.054	0.070	6.030	2.550	56	153.5

Table XIII.

Five-Day Means of the Principal Meteorological Elements observed at Hongkong in 1897.

Five-Day Periods.	Barometer.	Temperature.	Humidity.	Vapour Tension.	Wind Velocity.	Nebulosity.	Sunshine.	Rain.
January 1– 5	30.061	65.9	77	0.492	16.2	4.6	6.5	0.000
" 6–10	29.945	66.4	86	0.555	13.2	7.1	3.2	0.010
" 11–15	.834	63.5	86	0.511	16.9	9.1	0.5	0.402
" 16–20	30.056	55.6	70	0.322	18.8	9.7	0.2	0.026
" 21–25	.167	59.8	72	0.372	10.3	7.9	3.0	0.000
" 26–30	29.863	66.5	86	0.568	14.9	7.5	4.2	0.011
" 31– 4	.951	60.2	87	0.472	12.6	9.7	1.1	0.142
February 5– 9	30.053	53.3	87	0.355	13.9	10.0	0.0	0.127
" 10–14	.205	50.4	55	0.211	19.4	4.3	7.0	0.003
" 15–19	.055	54.7	79	0.347	11.0	8.7	1.4	0.006
" 20–24	.019	53.0	83	0.336	10.8	10.0	0.1	0.076
" 25– 1	29.887	57.5	94	0.444	21.8	9.6	1.5	0.015
March 2– 6	.973	59.1	85	0.426	20.5	8.9	1.6	0.028
" 7–11	.888	64.4	92	0.561	15.3	8.6	3.1	0.002
" 12–16	.983	59.5	87	0.441	19.3	9.6	2.4	0.012
" 17–21	.909	61.9	88	0.493	19.7	9.8	0.5	0.110
" 22–26	.941	64.0	92	0.554	20.6	10.0	0.9	0.008
" 27–31	.809	71.3	94	0.723	14.4	8.6	4.8	0.001
April 1– 5	.890	64.8	72	0.448	18.4	8.8	3.1	0.188
" 6–10	.818	66.6	84	0.550	22.1	9.7	1.5	0.036
" 11–15	.885	69.5	90	0.653	17.9	8.2	4.2	0.015
" 16–20	.929	65.0	76	0.472	15.8	8.0	3.6	0.397
" 21–25	.829	73.1	81	0.665	11.5	4.8	8.9	0.000
" 26–30	.914	71.2	82	0.626	18.1	8.2	3.3	0.012
May 1– 5	.740	74.9	82	0.710	10.4	5.5	6.1	0.000
" 6–10	.664	77.0	91	0.840	18.3	9.7	1.9	1.934
" 11–15	.809	80.3	85	0.871	6.5	3.8	10.3	0.000
" 16–20	.703	82.8	82	0.918	10.8	6.2	8.9	0.104
" 21–25	.753	78.2	88	0.851	13.7	8.8	2.1	0.912
" 26–30	.767	80.4	82	0.849	10.9	4.2	8.0	0.010
" 31– 4	.692	84.0	79	0.926	11.1	7.1	6.9	0.270
June 5– 9	.707	82.5	82	0.916	11.5	7.2	7.0	1.332
" 10–14	.680	83.2	80	0.909	7.7	6.7	8.1	0.073
" 15–19	.603	81.7	87	0.937	8.8	8.4	3.9	0.274
" 20–24	.509	80.8	87	0.920	12.0	9.3	3.5	0.893
" 25–29	.451	78.4	91	0.886	19.2	9.9	0.2	1.830
" 30– 4	.542	78.1	74	0.717	14.7	9.2	1.9	0.025
July 5– 9	.688	80.4	87	0.903	10.2	8.2	3.9	0.551
" 10–14	.783	82.3	80	0.878	11.0	6.1	8.7	0.134
" 15–19	.720	83.0	76	0.860	9.6	4.0	10.6	0.121
" 20–24	.722	83.4	76	0.871	7.7	4.3	10.5	0.054
" 25–29	.601	83.5	79	0.908	10.5	6.3	6.3	0.075
" 30– 3	.539	81.7	84	0.910	11.4	8.7	3.0	2.141
August 4– 8	.597	82.1	83	0.909	13.0	5.9	8.6	0.165
" 9–13	.469	82.8	84	0.948	13.1	9.3	2.5	0.804
" 14–18	.756	77.5	91	0.861	8.0	9.9	0.4	1.530
" 19–23	.684	81.4	84	0.900	5.6	6.7	6.7	0.162
" 24–28	.769	80.6	84	0.877	5.5	3.9	8.3	0.355
" 29– 2	.779	81.3	83	0.887	5.8	4.1	7.7	0.122
September 3– 7	.700	83.2	78	0.885	6.1	4.8	10.1	0.000
" 8–12	.761	81.4	84	0.894	8.4	6.5	7.0	0.124
" 13–17	.708	78.1	73	0.703	18.5	8.8	2.6	0.693
" 18–22	.839	80.2	85	0.872	17.3	4.4	7.4	0.801
" 23–27	.809	81.9	78	0.846	9.1	3.1	9.6	0.035
" 28– 2	.752	81.3	71	0.754	11.4	4.8	8.8	0.036
October..... 3– 7	.761	78.1	75	0.721	20.5	7.6	2.6	0.847
" 8–12	.846	78.3	82	0.800	23.5	8.6	2.5	0.265
" 13–17	.895	77.2	78	0.735	20.1	8.7	3.1	0.084
" 18–22	.907	76.3	71	0.648	9.9	6.5	5.9	0.000
" 23–27	.902	74.2	69	0.588	15.4	4.8	7.2	0.018
" 28– 1	.884	75.9	80	0.711	10.1	5.1	6.7	0.045
November 2– 6	.853	78.2	78	0.752	7.8	2.7	9.3	0.000
" 7–11	.885	75.0	72	0.623	17.8	9.5	1.2	0.011
" 12–16	.875	76.0	76	0.686	19.8	7.6	5.5	0.157
" 17–21	.917	65.0	80	0.493	11.7	9.6	0.7	1.236
" 22–26	30.114	60.9	40	0.228	12.8	2.0	9.2	0.060
" 27– 1	.055	61.0	37	0.204	10.8	1.2	9.7	0.000
December..... 2– 6	.106	62.8	63	0.360	9.9	8.5	1.9	0.002
" 7–11	.014	64.4	70	0.430	10.0	5.2	7.3	0.000
" 12–16	.037	59.1	81	0.498	9.2	9.1	0.9	0.041
" 17–21	.113	57.7	65	0.310	8.6	5.0	7.3	0.000
" 22–26	.205	59.0	61	0.305	12.1	5.0	6.1	0.000
" 27–31	.031	60.4	72	0.386	12.7	6.3	3.9	0.053

Table XIV.

Observations and Magnetic Declination and Dip.

1897.	H.K.M.T.	Declination East.	Observer.	H.K.M.T.	Dip North.	Needle No.	Observer.
February, ...	15d. 4h. 30m. p.	0° 24′ 52″	J.I.P.	15d. 3h. 26m. p.	31° 38′.22	3	J.I.P.
	16 2 32 p.	25 30	"		38 .63	4	"
	18 2 33 p.	24 48	"	16 3 56 p.	37 .72	3	"
	19 2 33 p.	24 39	"		37 .54	4	"
April, ...	12 4 33 p.	23 47	"	12 3 27 p.	36 .63	3	"
	14 2 35 p.	22 59	"		37 .75	4	"
	15 2 51 p.	22 11	"	14 4 2 p.	38 .79	3	"
	16 2 31 p.	23 23	"		38 .82	4	"
June, ...	14 4 34 p.	21 51	"	14 3 26 p.	38 .25	3	"
	16 2 32 p.	22 4	"		36 .85	4	"
	17 2 46 p.	20 55	"	16 4 5 p.	35 .07	3	"
	18 3 01 p.	22 36	"		35 .75	4	"
August, ...	16 4 35 p.	23 13	"	16 3 36 p.	34 .60	3	"
	18 2 32 p.	22 16	"		36 .63	4	"
	19 2 46 p.	22 23	"	18 3 56 p.	37 .09	3	"
	20 2 44 p.	21 52	"		36 .16	4	"
October, ...	18 3 14 p.	23 53	"	19 3 36 p.	36 .06	3	"
	19 4 36 p.	24 0	"		36 .97	4	"
	21 2 41 p.	23 36	"	21 3 59 p.	35 .97	3	"
	22 2 53 p.	22 52	"		35 .29	4	"
December, ...	13 4 26 p.	23 56	"	13 3 26 p.	35 .07	3	"
	15 2 30 p.	24 59	"		36 .25	4	"
	16 2 41 p.	23 8	"	15 3 56 p.	37 .72	3	"
	17 2 34 p.	23 54	"		37 .85	4	"

Table XV.

Observations of Horizontal Magnetic Force.

Date.	H.K.M.T.	Time of one Vibration.	Temperature Cent.	Log m X.	Value of m.	H.K.M.T.	Distance in Centimetres.	Temperature Cent.	Deflection.	Log $\frac{m}{X}$	Observer.
1897.											
February, ...	17d. 3h. 19m. p.	3s. 6234	15° .4	2.33090	586.80	17d. 2h. 41m. p.	40	14° .8	2° 52′ 18″	3.20608	J.I.P.
							30		6 50 10		
						4 10 p.	40	14 .8	2 52 46		
							30		6 50 40		
April, ...	13 3 19 p.	3.6320	24 .5	2.33041	585.65	13 2 47 p.	40	24 .9	2 51 06	3.20488	"
							30		6 47 51		
						4 05 p.	40	24 .6	2 51 20		
							30		6 48 05		
June, ...	15 3 25 p.	3.6369	31 .6	2.33116	586.00	15 2 50 p.	40	31 .4	2 50 35	3.20464	"
							30		6 46 21		
						4 07 p.	40	31 .0	2 50 46		
							30		6 46 36		
August, ...	17 3 19 p.	3.6338	26 .4	2 33042	585.37	17 2 41 p.	40	26 .4	2 50 55	3.20444	"
							30		6 47 05		
						4 08 p.	40	26 .4	2 50 56		
							30		6 47 24		
October, ...	20 3 17 p.	3.6351	27 .6	3.33065	585.53	20 2 42 p.	40	27 .2	2 50 45	3.20446	"
							30		6 46 53		
						4 03 p.	40	26 .8	2 51 04		
							30		6 47 16		
December, ...	14 3 11 p.	3.6293	19 .4	3.33025	585.67	14 2 38 p.	40	19 .0	2 51 40	3.20506	"
							30		6 48 40		
						3 57 p.	40	19 .5	2 51 54		
							30		6 49 01		

Table XVI.

Results of Magnetic Observations in 1897.

Month.	Declination East.	Dip North.	MAGNETIC FORCE.								
			English Units.			Metric Units.			C. G. M. Units.		
			X.	Y.	Total.	X.	Y.	Total.	X.	Y.	Total.
February, ...	0° 24′ 57″	31° 38′ 02″	7.9183	4.8779	9.3002	3.6510	2.2491	4.2882	0.36510	0.22491	0.42882
April, ...	23 05	31 38 00	7.9249	4.8818	9.3079	3.6540	2.2509	4.2917	0.36540	0.22509	0.42917
June, ...	21 52	31 36 29	7.9338	4.8825	9.3158	3.6581	2.2512	4.2954	0.36581	0.22512	0.42954
August, ...	22 26	31 36 07	7.9288	4.8782	9.3094	3.6559	2.2493	4.2924	0.36559	0.22493	0.42924
October, ...	23 35	31 36 04	7.9309	4.8793	9.3117	3.6568	2.2498	4.2935	0.36568	0.22498	0.42935
December, ...	23 59	31 36 43	7.9217	4.8757	9.3021	3.6526	2.2481	4.2890	0.36526	0.22481	0.42890
Year, ...	0 23 19	31 36 54	7.9264	4.8792	9.3079	3.6547	2.2497	4.2917	0.36547	0.22497	0.42917

Appendix A.

THE LAW OF STORMS IN THE EASTERN SEAS.

Introduction.

The first chapter of the following paper treats of the law of storms and was first published in Hongkong in September, 1886. It was read before the British Mercantile Marine Officers' Association on the 17th May, 1893. It is now reprinted with later additions. The second chapter treats of the management of ships in typhoons, and was originally included in the pamphlet on the law of storms. It was read as a separate lecture before the Shipmasters' Society, London, on the 16th January, 1896, and is now reprinted with a few additions. The third chapter was printed in the *Government Gazette*. The fourth and fifth chapters, on different classes of typhoons and on winter-typhoons in the southern part of the China Sea, appeared in "Zeitschrift für Meteorologie" in 1897.

Plate I illustrates the different classes of typhoons enumerated in § 4. Figure 1 shows how the wind blows in a typhoon as determined by aid of observations made at the Hongkong Observatory during the years 1884-87 inclusive. Figure 2 shows a typhoon in the Formosa Channel on the 21st and 22nd August, 1884. The height of the barometer is noted near the isobars. The arrows fly with the wind, whose force is given in numbers. The large arrow shows the direction in which the whole disturbance was progressing. Figure 3 shows a typhoon that was lying a little N of Formosa on the 17th July, 1890. The number of feathers on the arrows indicates half the wind-force, *e.g.*, 5 feathers means force 10. Figure 4 shows a typhoon in the China Sea on the 15th November, 1891. Figure 5 one on the 20th November, 1891, that was moving towards SW. Figure 6 one on the 13th November, 1895.

§ I.—THE TYPHOONS IN THE EASTERN SEAS.

It appears that typhoons in the China Sea originate in elongated slight depressions, which sometimes lie across the Philippines as well as the China Sea, but usually exist only over the sea extending sometimes far into the Pacific. To the north of them it blows moderate NE breezes and south of them somewhat less strongly from the SW. The NE breezes reach generally only as far as northern Formosa in summer, but in autumn the NE (and farther north the NW) monsoon blows much farther north. Sometimes the SW breezes to the south of the axis of the depression are stronger than the NE breezes to the north of it, and extend apparently down to the equator and are probably a continuation of the SE trade. To the E of these depressions in the Philippines there are light S and SE breezes. In Annam it probably blows from the N. In summer these depressions begin with rising pressure in the interior of China or in Japan. In autumn it seems the pressure rises slightly near the equator and SW winds extend gradually northward over the China Sea. In January and February depressions do not occur. During the rest of the year they occur about once a month on an average. During the summer months and in autumn they frequently give rise to a typhoon or a small circular depression. The trough-like depression then ceases to exist. In spring they do not alter into typhoons but cease to exist owing to the NE monsoon filling them and spreading to the southward.

The depressions have their major axes lying E and W, or ENE and WSW. Their average latitude from June to September is 17° N, later more southerly, and in November perhaps 10° N. They do not appear to move at all, and they may be traced for 3 or 4 days. The barometer is read little more than a tenth of an inch lower in the axis than along the coasts all round them. Along these coasts light winds circulate against the hands of a watch. In such depressions the weather is squally and wet, and the wind variable,—frequently in heavy squalls with great downpour of rain, but thunder is seldom heard. It appears that in such squalls S wind happens to extend itself northwards and N wind southwards, and revolving storms are thereby generated. If this occurs in the middle of the China Sea, it is likely to give rise to a typhoon. Of course, it more often happens that a circular storm originates near the E and W end of the elongated depression as the winds there already revolve as in a rotary storm except to the W or E of the centre forming, so that the N or respectively S squalls need only gain ground on one side, but in such cases only minor circular depressions or very small typhoons are originated.

When the trough stretches from south of Hainan through the Bashee Channel right out into the Pacific to the south of Japan and the NE and SW winds on either side of it are fresh or strong, the conditions have often been mistaken for two typhoons, one in the China Sea and one to the south of Japan, before ever any typhoon was formed.

The heavy rain is, of course, not the cause of the phenomena, for the rain itself is caused by the air rising in the axis of these depressions, also the water-vapour condensing gives out heat and thus in the first instance makes the mercury rise in the barometer before a squall, but there cannot be any doubt that the quantity of water-vapour condensed to form perhaps 10 inches of rain per day, and whose pressure is thus abstracted from the barometric pressure of the air, causes the permanency of the depressions. It is different with the rainfall in the SW monsoon. That is spread over a large area and does not give rise to a low pressure in one spot surrounded by higher pressures.

It is rather difficult to say whether a depression in the China Sea, when its existence has been ascertained, is a typhoon or only a minor disturbance, but if the following signs are observed exactly as now to be explained, then it is certain to be a typhoon. A minor depression gives signs less well marked and more confused.

The earliest signs of a typhoon are clouds of the *cirrus* type—looking like fine hair, feathers or small pale white tufts of wool—travelling from the east or thereabout, their direction backing towards the north, a slight rise in the barometer, clear and dry but hot weather, calms or very light winds. If cirrus come from W, they prove that there is no typhoon. If they come from the S, then there may be a typhoon more than 600 miles to the southward. This fine weather lasts for days and the existence of a typhoon at a great distance is a cause of fine weather all round and contributes therefore to the safety of ships at sea,—a fact that is not sufficiently appreciated by mariners.

The cirrus clouds, which frequently assume fantastic shapes, make their appearance within 1,500 miles of the centre of a typhoon. They show that water-vapour has risen about 6 miles in the atmosphere through the air rising near the centre. The barometer is generally rising beyond 600 miles of the centre, and the mean of the twenty-four hours' temperature rises in Hongkong above 81 deg. Halos round the sun and the moon, phosphorescence of the water and also glorious sunsets with grand twilight rays, appear to be frequently noticed before typhoons.

Cirrus radiate from various directions but when there is a typhoon, and the radiation is very distinct, it is usually from the same direction as the bearing of the centre.

An increasing swell in the sea is noticed from 300 to 600 miles from the centre, or farther off, but this depends greatly upon the situation of the nearest land, and particularly upon whether land intervenes between the observer and the typhoon centre. The swell arises from the heavy seas that accompany a typhoon, and form the real danger to ships, which are usually well fit to stand the force of the wind without too serious damage. As the velocity of waves in the sea is much greater than the velocity of the centre, the swell is frequently of great help in forecasting a typhoon, but it appears that the bearing of the centre is not well determined from the swell; besides the swell would indicate where the typhoon was at a certain time previous when the waves that caused the swell were raised by the wind. For instance, N of Formosa, *i. e.*, between the E coast of China and SW Japan there is usually a heavy E to SE swell, when a typhoon centre is approaching from SE or E, and the sea there gets very high when the centre is yet at a great distance. A heavy cross swell is a certain indication of a typhoon, except near rocky land, where cross swell may be caused by reflection of the direct swell. The cross swell arises from the heavy confused cross seas raised by strong winds from different directions round the centre.

Within 600 miles of the centre the sky is often half overcast with cumulus, above which cirro-cumulus is seen, the sky being frequently paled by high and faint cirro-stratus. S and SW of and beyond 200 miles of the centre, thunderstorms and cumulo-stratus are seen. They may also occur to the W and E of and as close as 250 miles to the centre, but there they are rare, at least during the NE monsoon. In fact, the belief of the Chinese that where there is a thunderstorm there will be no typhoon appears to be well founded. If thunder and lightning should appear to the N of the centre, little or no rain falls at the time. The old accounts of typhoons are probably sometimes to be explained as mere thunderstorms, while on the other hand during a typhoon the noise of the wind and waves might easily be mistaken for thunder.

On approaching nearer than 500 miles to the centre, the cloudiness increases, and the mercury begins to fall slowly (seldom as much as a tenth of an inch in 24 hours) in the barometer. Then the air becomes oppressive, a slight haze is observed during the morning hours, and the sky presents a threatening and vaporous appearance. The weather is then most unhealthy and depressing. Many people find it impossible to get any sleep owing to the very high night temperature. All sorts of vermin, including snakes, spiders, beetles, and typhoon flies (dragon flies), are unusually active.

Within 300 miles (or in different typhoons between 200 and 400 miles) of the centre there is a heavy cross sea, which therefore gets up some time before, and lasts longer than the wind. Within 250 miles in front of the centre the sky becomes overcast, and the temperature falls in consequence.

Within 200 miles of the centre the temperature falls quickly, owing to the heavy roll-cumulus with which the sky is densely overcast. About this distance, just in front of the centre, the air becomes sometimes abnormally dry, and the sky at the same time presents a peculiar black and ominous appearance. And meantime the wind has risen and blows generally with the force of a strong breeze rising to a moderate gale in the squalls. But this depends also upon the bearing of the centre, the wind being usually strongest in the right-hand semi-circle. Within 200 miles of the centre there is usually a mountainous cross sea.

Within 200 miles to the N. and within 150 miles in front of and to the S of the centre, heavy rain begins to fall, and within 60 miles (or from 60 to 150 miles) it pours down in torrents. The temperature near the centre in Hongkong is often about 78° and over the China Sea 76°, but on board ship a temperature as high as 83° has been registered, but that is very unusual.

The dimensions of different typhoons vary much and near land the strong winds are often so irregularly distributed than in a place near the centre less wind may actually be experienced than at some distance farther away from it. The approach of the centre is judged by the fall of the mercury in the barometer and by the increase in the strength of the squalls.

No conclusions can be drawn with certainty from the reading of the barometer concerning the distance of the centre. The readings differ in different typhoons occurring during the same month and are also different in different months (owing to the annual variation in monthly mean pressure). Taking the mean of several typhoons I obtained at 40 miles 29.20, at 50 miles 29.30, at 100 miles 29.40, and at 200 miles 29.50.

The force of the wind is also different according to the dimension of the typhoon. On an average we have force 12 within 35 miles of the centre, force 11 at 50 miles, force 10 at 75 miles, force 9 at 110 miles, force 8 at 145 miles, force 7 at 180 miles, force 6 at 220 miles, and force 5 at 250 miles; but it often blows force 6 at 300 miles from the centre and then the area with strong wind is increased in proportion.

Within from 2 to 15 miles of the centre the wind calms down, or nearly so, and the sky usually clears overhead, more or less, at sea (or over an island), being now covered there by only very light clouds or haze, through which the sun or the brighter stars are visible. The sea is often seen to boil like a cauldron. Its surface has been whipped into foam, and a lot of air has been caught by the waves, which escapes under the low air-pressure in the bull's eye of a typhoon. The sea is as a rule mountainous and confused, but sometimes near land it calms down when the diameter of the calm area exceeds 20 miles. Quantities of sea-birds, and, closer to the shore, also land-birds, butterflies, and other insects cover a ship caught in the centre of a typhoon. The centre of the calm area, round which the wind circulates, does not always exactly coincide with the point where pressure is lowest, *i.e.*, the centre of the isobars. It has been found that the calm followed some 20 miles after the lowest barometer reading, but such is not always the case, and the reverse has been suspected on more than one occasion. Very deceitful lulls occur during the raging of a typhoon. They last sometimes long enough to be mistaken for the central calm, but when the wind rises again it comes from nearly the same direction. Thus in case of typhoons moving W or NW in the China Sea in summer there is sometimes an area, some 60 or 70 miles behind or to the S of the centre, where the wind falls to a fresh or strong breeze, which again increases rapidly and even a couple of hundred miles farther away it blows stronger than over that area. The diameter of the central calm in a low latitude in summer is about 4 miles, and the sea is mountainous from all directions, but farther north or late in the year the diameter reaches sometimes from 40 to 50 miles, and the sea then often goes down together with the wind, but the character of the bull's eye is then less well defined. The weather becomes dry, though in one or two cases torrential rain has been registered within the central calm. Inland in China the bull's eye has never been observed.

When the wind rises in a typhoon it blows in gusts and the mercury heaves in the barometer. When the wind has reached force 11 it blows in fierce squalls of sometimes about 10 minutes' duration, while the mercury heaves up and down as much as a tenth of an inch. The mercury often gives a jump upwards as the wind begins to veer in a squall. Then it drops down and gives another upward jump as the wind comes back to nearly its old direction. During these squalls an enormous quantity of rain falls in a few minutes. The temperature falls and rises a fraction of a degree or more. The wind does not return to quite the former direction, except just in front of the centre. At the time when the centre is nearest, a fierce squall is usually felt, and in that squall the direction of the wind changes considerably, and the barometer begins to rise. The squalls appear to be caused by an up-and-down movement of the air. As the air comes rushing down the rain drops evaporate in the hotter stratum near the earth's surface, and owing to the increased tension of water-vapour, the barometer (after a fall caused by the cold of evaporation) begins to rise. The wind veers towards the direction of the wind above, which latter is known from the motion of the clouds. Then the air starts to rise with a deluge of rain, caused by the condensation of vapour arriving at the cooler stratum above, while the barometer (after a rise caused by the heat of condensation) drops down, owing to the cessation of the pressure of water-vapour condensed into the rain fallen, and the wind resumes the direction determined by the central depression; for the latter is so great in a typhoon and gradients so steep near the centre that subsidiary depressions have never occurred in the China Sea.

It is a fact that more damage to vessels is caused by the fearful seas than by the wind. Fortunately masters of ships are now making use of oil to calm the waves, a remedy which has been used with good effect for the last three thousand years. Thick oil is best—mineral oil is of no use—and it should be allowed to ooze out of canvas bags half full of cotton waste and slung from the weather bow, or it may be left to ooze out of other openings, such as water-closets. It is still more effective when fired from the vessel towards approaching seas from mortars or rockets.

On shore perhaps as much damage is caused by rain as by wind; but, of course, the former adds impetus to the latter. The wind blowing from all sides into the centre raises the level of the sea there, and the sea-surface is also raised about a foot for every inch the barometer falls below its height outside of the typhoon. When this storm-wave approaches the shore near the time of high water, which somehow seems to happen rather often, it raises the sea, and is apt to cause extensive and disastrous inundations over low-lying shores, as the crests of the waves (which at sea may be 30 feet high or more) on entering shoal water may rise 60 feet or upwards above sea-level in a typhoon.

The incurvature of the wind in a typhoon depends upon the monsoon. In May, June, July, and August the angle between the wind (direction whence coming) and the bearing of the centre is 11 points in front of the centre, 10½ points in the right-hand quadrant, 12 points behind the centre and 11½ points in the left-hand quadrant. During September, October, and November it is 11 points in front, 11½ to the right, 12 in rear, and 11 points to the left. This shows that the monsoon blows in towards the centre and combines with the cyclonic winds. It will be remarked that the wind blows across the path in front and helps a vessel to run across the path in front of the centre, keeping the wind on the starboard quarter 3 points from the stern. In rear the wind blows more straight in towards the centre, and it also blows stronger in rear than in front.

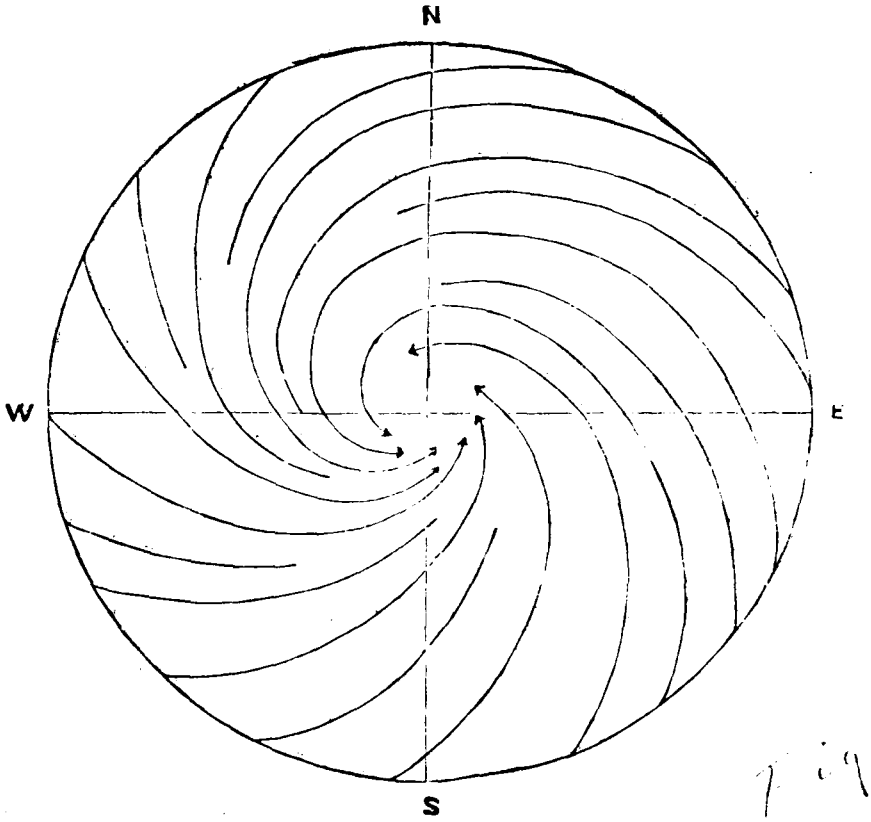
The angle depends also upon the distance from the centre. At 25 miles it is 10½ points (very uncertain), at 75 miles it is 11 points, at 125 miles it is 11½ points, at 150 miles it is 11¾ points, at 200 miles it is 12 points, at distances greater than 300 miles the centre bears perhaps about 15 points from the wind (very uncertain).

The angle depends also to some extent upon the latitude though south of Northern Formosa the connection cannot be traced. But in 30° N the average angle is about 10 points and beyond Japan 9 points might perhaps be allowed.

These rules fail, however, near some shores if the centre is not very close. Thus there often blows a steady E gale along the S coast of China when a typhoon is crossing the China Sea. The wind blows into the China Sea through the Balingtang Channel and blows along the S coast of China from E. If the centre is passing to the southward at a distance of several hundred miles, this reminds one of the NE monsoon, but now it blows harder the lower the pressure falls, while in the NE monsoon it blows harder the higher the pressure rises. About the N entrance to the Formosa Channel,—one of the windiest places in the world—the gale blows often steadily from NE while there is a typhoon to the S moving westward. Again near the coast of Annam, the wind is likely to hang long about N. This action of the coastline in certain localities favours sometimes the birth of a typhoon, thus when the NE monsoon has set in along the S coast of China, and blows from N along the coast of Annam, the SW monsoon (deflected towards the right) is hemmed in by the Island of Palawan and forced into a more southerly direction to the W of Mindoro, and it is found that typhoon centres are formed near that locality; and also SE of Hainan in an area one side of which is exposed to strong E wind coming through the Balingtang Channel, the other to SW winds when pressure is high near the equator.

As far as Hongkong is concerned, the following table, constructed by aid of observations made here during the years 1884–1887 inclusive, gives the details. The first column shows the direction of the wind at the Observatory, the second the direction of the wind at the Peak, the third the direction whence the clouds are coming, and the fourth the bearing of the centre. The results differ from the rules given above because the centre is inland whenever its latitude is greater than that of the Observatory, except far away to the NE, and as soon as the centre of a typhoon enters the mainland it begins immediately to fill, ceases to exist as a typhoon, and can be traced as only a slight depression:—

Wind at the Observatory.	Wind at the Peak.	Clouds.	Centre.
E by N	E	E	S
NNE	NE	NE	SE
NW by N	N	N	E
W by N	NW by W (?)	NW by W	NE
SW by W	W by S	WSW	N
S by W	SW by S	SW by S	NW
SE by S	S by E	S	W
ESE	SE by E	SE	SW



A Typhoon in Hong Kong.

Very low clouds in a typhoon move with the wind, but if the clouds are higher they move round the centre in front and to either side, but more in towards the centre in rear. A heavy nimbus cloud passing to leeward causes heavy squalls, veering or backing regularly; and to windward it has the opposite effect. The cause of this is obvious.

The wind blows from a region where the air pressure is higher towards one where it is lower. It is, however, deflected towards the right in the northern hemisphere. The force of the wind depends upon the difference of pressure between one place and another situated in the direction where the barometric slope or gradient is greatest. The gradient is measured in hundredths of an inch per 15 nautical miles. The force of the wind corresponding to a certain gradient is greater the hotter the air is, and is different in a typhoon from what it is in the trade, owing to the path of the air particles being curved. They are almost logarithmic spirals, but somewhat different from such curves. A gradient of 0.01 corresponds to force 4, 0.02 to 6, 0.03 to 7, 0.04 to 8, 0.05 to 9, 0.06 to 9½, 0.07 and 0.08 to 10, 0.09, 0.10 and 0.11 to 11, 0.12 and above this to 12. The steepest gradient usually met with is a third of an inch in 15 nautical miles. Gradients above this are rare, but sometimes they are much greater. The steepest gradient (1 inch in 15 miles) ever met with occurred in a low latitude in the Pacific. That corresponds to a wind velocity of perhaps about 160 miles per hour at sea level. Such velocities are not uncommon at an altitude of 2,000 feet in severe typhoons. Anything above 80 miles per hour is called a typhoon. It is seen that there is as great difference between the force of one typhoon and another as between a calm and a storm which nearly reaches typhoon force.

When a typhoon is blowing it is of great importance to have a house well shut-up. Windows and doors should be firmly locked, bolted and barred. Damage is frequently caused by shutters being out of repair. Once the wind enters a broken window, it begins to blow through and its force is then quickly felt. As long as all apertures are thoroughly shut on both sides a fearful howling and whistling is heard, the rain blows in through the smallest openings and the house may shake, but damage is seldom done. Should a fierce squall get the chance to blow into a house, the roof is often the first part to give way. It is believed that pressure falls so quickly outside that the air confined in the house bursts through the roof like an explosion, but there is no foundation for that belief; it is more likely that a fierce squall would break through the windows and doors and through the roof as well. But if any fear is entertained of the air being confined inside, it is merely necessary to leave the chimneys open so that pressure inside will be nearly the same as on the outside.

In many typhoons the barometer, reduced to the temperature of freezing water and to sea-level, does not fall below 28.80 inches. In others it falls as low as 28.50. Lower readings are rare, but sometimes it falls much lower.

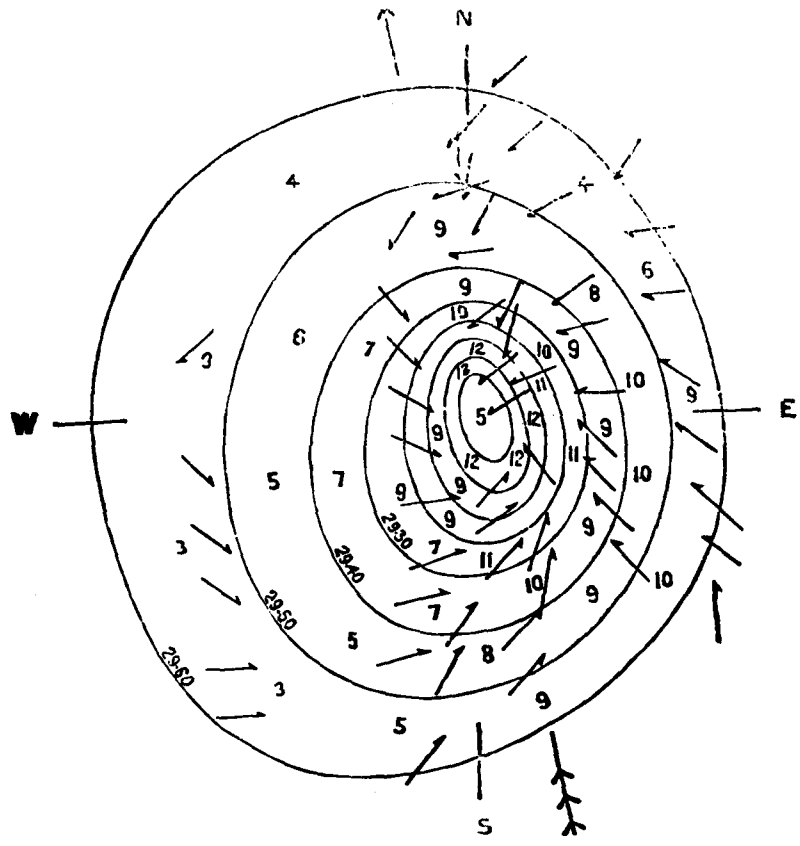
No typhoon ever stands still. As soon as it is formed, it is carried forward by the prevailing wind. That is why the isobars* are elongated, except near the centre where the force of the prevailing wind is of no account. The isobars could be circular only in a stationary typhoon. That is also why typhoons move so as to keep the areas of high barometer on their right, and so as to recede from areas where the barometer is high, and so as to approach low-pressure areas. Most of the typhoons that originate in the Pacific to the East of the Philippines or Formosa move Westward at first, then NW, then N., then they recurve to the NE, and beyond Japan they move Eastward. That is under the influence of the high-pressure area in the Northern Pacific, which they rotate around in the same direction as the hands of a watch. When there are two typhoons about at the same time, they rotate round each other in the opposite direction, that is, abstracting from the influence of the high-pressure areas, which may cause them to move somewhat differently from this simple rule. In the China Sea there is sometimes a low-pressure channel between high pressures in China and in the Southern part of the China Sea. A typhoon in the Pacific at such times is attracted towards the China Sea and passes along the low-pressure channel, because the winds blowing to either side of this channel agree with the winds round the centre of a typhoon, and they move according to the principle of least action. During the typhoon season typhoons follow each other quickly, and there are often several at one time raging in different parts of the Far East. Then they cease, and there are none maybe for several weeks; but during the height of the season in August and September that is most unusual.

As explained above, the paths of typhoons in the Pacific look often like parabolas, but those in the China Sea are quite different and the difference must be due to the distribution and land and sea. The latter do not as a rule recurve, *i.e.*, move North-eastward after having moved North-westward and Northward. Some of them, in fact, disappear in the China Sea after turning to the SW. Others recurve between 20 deg. N and 40 deg. N, and between 115 deg. E and 130 deg. E. The Middle Dog lighthouse at the Northern entrance to the Formosa Channel is the centre of the region of recur-

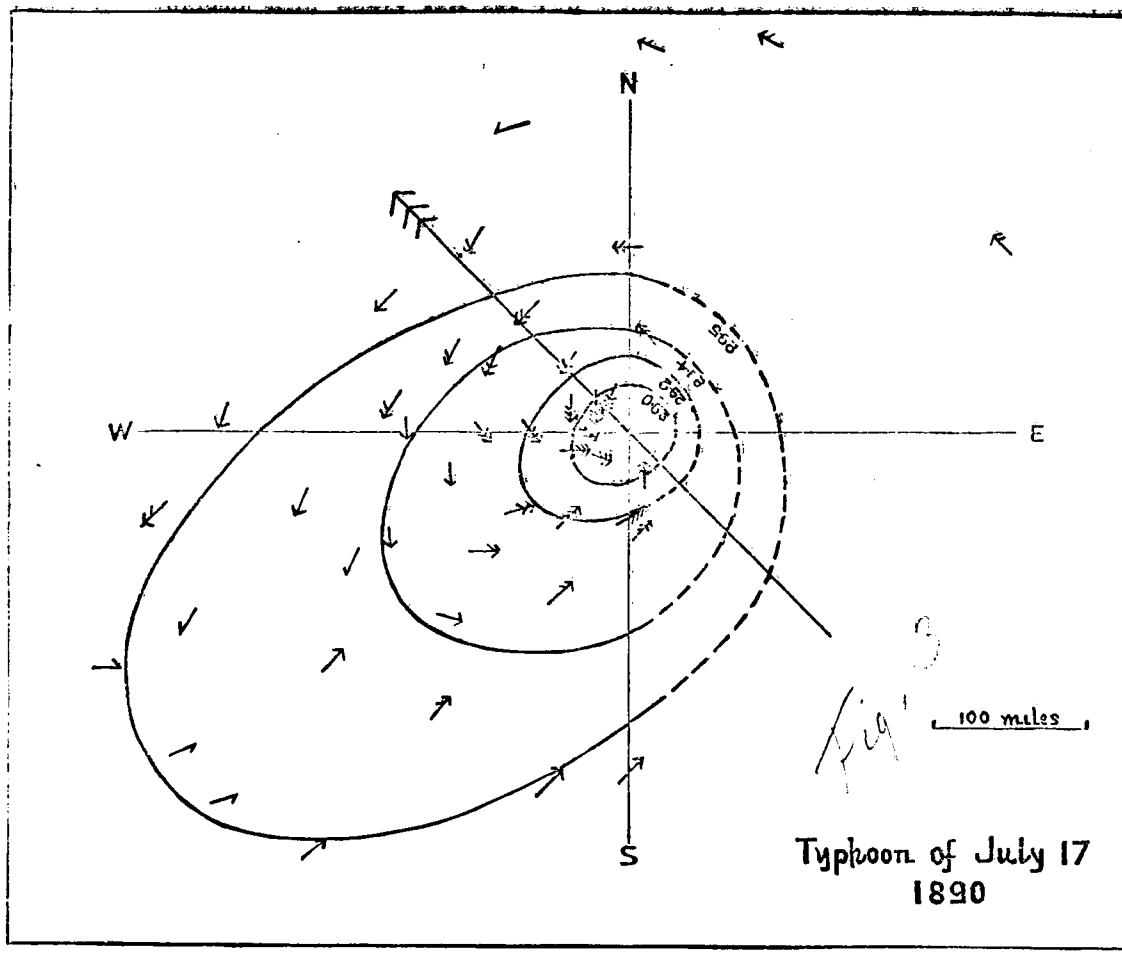
* Curved lines drawn on a map through places from which the same height (corrected and reduced) of the barometer is reported or between those that report a slightly higher and lower pressure are called isobars. The gradient lies at a right-angle to the isobar. These are the most important elements for forecasting the weather. The curvature of isobars indicates the existence of depressions beyond the area where the telegraphic reporting stations are situated, but it is of course impossible to lay down the centre accurately from such data, *e.g.*, while over the sea its position and motion can only be guessed at, not known with certainty.

vature, if the typhoons that recurve in the China Sea are not taken into account. A vessel having experienced a typhoon is not likely to fall in with it again after it has recurved, but it happens to vessels in the Pacific, especially to such as have suffered damage and been carried all round the centre when they first met the typhoon.

Typhoons cease to exist, except as minor depressions, as soon as the centre enters the mainland. The centres of different typhoons often enter the coast in the same place: where it is low, as for instance, the Lien-chau peninsula; near Huilingsan; the Canton river, etc. The typhoons originate during squalls in hot and damp places near sea-level and over the sea. Storms in N China originate higher up in the air on the mainland across which they move, and they do not appear to increase in strength so quickly as the typhoons, when the centre reaches the sea. Islands—even Formosa with its high mountains—do not affect a typhoon's path much though they tend to break the typhoon up, to some extent, as is particularly noticeable in case of typhoons remaining long over the southern Philippines or crossing Formosa moving from S towards N. On the contrary, open channels such as the Balingtang Channel, the Formosa and Korea Channels, have much greater effect on the path. It has already been remarked that the progression of a typhoon is the effect of the wind prevailing at the time at or near the earth's surface. Now, the wind rushes with such force through open channels, with more or less high mountains on both sides, as to deflect the typhoons and accelerate their speed. This is sometimes seen in the China Sea, when the centre of a typhoon is moving slowly northwards. As soon as the centre approaches the latitude of the Balingtang Channel, the centre bends its way suddenly to the Westward, and rushes towards Hainan perhaps thrice as quickly as it moved before. Typhoons entering the Formosa Channel and at times the Korea Channel are deflected to the Westward and have their speed accelerated by the strong NE winds in those Channels. As long as the SW monsoon is strong, the typhoons move in some Northerly direction. It is only late in the year when the NE monsoon happens to blow very fresh that typhoons move South-westward in the China Sea.



Typhoon in the Formosa Channel
1884 August 21-22.



The average rate of progress of the centre of a typhoon in 11 deg. latitude is 5 miles an hour. In 13 deg. it is 6½. In 15 deg. it is 8. In 20 deg. it is 9. In 25 it is 11. In 30 deg. it is 14, and in 32½ it is 17 miles an hour. South of 13 deg. the speed does not vary perceptibly, so it is useful for mariners to know it, but it is more variable the farther north you go. In 32½ deg. N it ranges from 6 to 36 miles an hour, so that you cannot be sure that a typhoon encountered there will travel at anything like the average rate of speed. We have not traced the centre of a typhoon nearer to the Equator than about 9 deg. N. But a very slightly falling barometer, a squally SW wind, a lumpy sea, and some swell, may at times be traced nearly all the way down to the Equator.

The prevailing wind not only carries the centre along with it, but combines with the rotary storm, causing the wind in the right-hand (the dangerous) semi-circle to be stronger and to blow more nearly round the centre than in the left-hand (the manageable) semi-circle, where the wind is more moderate and blows with greater incurvature towards the centre. It also causes the wind to blow nearly straight in towards the centre behind the typhoon and to blow more across the path in front of the centre. It also makes the weather heavier after the centre is past than it was while the centre was approaching.

Less than half a mile up in the air the incurvature of the wind towards the centre disappears in the average of the different quadrants, but it still blows in towards the centre in the rear. It is really the wind at this altitude that carries the typhoon along, for late in autumn there are every year typhoons that move along against the NE monsoon, but we know that that monsoon is at times very shallow and there is SW wind above it. These typhoons disappear sometimes suddenly; evidently when the NE monsoon increases in depth and intensity.

At a still higher level the air, which has been carried in towards the centre and raised over the area where it is raining, blows away from the centre, and as the friction of air against air under low pressure is insignificant, it sometimes rushes away with such speed as to cause the upper air to be sucked down into the central calm. This is the reason why the sky clears over the bull's-eye.

Typhoons originating in the Pacific in a low latitude (say 13 deg. N) are very small and very fierce. The isobars are nearly circular, as the centre moves very slowly, and the incurvature is 45 deg. in all directions; but there is this important difference between a typhoon and a tornado—that the latter is taller than it is broad, whereas the former forms a flat disc. As typhoons reach a higher latitude their dimensions become greater, the violence of the wind near the centre abates, and then there is nothing to distinguish them from storms originating in northern latitudes. This makes it most unlikely that the latter originate from causes at all different from those which give rise to a typhoon.

§ 2.—HOW TO MANAGE YOUR SHIP IN A TYPHOON.

Long before the nature of hurricanes was understood it had been remarked by mariners that it was safer to heave to in a storm than to run, but the reason of that was not apparent. When the law of storms was first discovered it did not all at once mend matters, for, according to the old eight-point rule, all you had to do when a typhoon approached was to run with the wind on the star-board beam under as much canvas as your ship could carry, except when on the path right in front and the centre moved quicker than the vessel. That should have taken you out of the neighbourhood of bad weather, but it did not always do so, and since typhoons have been investigated, we know that the wind never blows round the centre in a circle, and that the eight-point rule, laid down by Redfield, Reid, Thom, and Piddington, is very far from the truth. It is just as much out as Espy's rule, according to which the wind blows always straight towards the centre. According to the twelve-point rule, which I have proved to obtain in typhoons (see "Observations and Researches made at the Hongkong Observatory in 1885") you must still run on the starboard tack, but you must keep the wind only four points from the stem. A steamer can do so easily enough, but it is not possible to keep a vessel going ahead under square sails nearer than about six points to the wind. She therefore cannot within two points run straight away from the centre and her risk is much greater than it would be if the old rule had proved true. The twelve-point rule may be stated as follows :—Stand with your back to the wind and you will have the centre on your left and about four-points in front of your left-hand. It appears that a ten-point rule obtains in about 30 degrees latitude and a sailing vessel can then just manage to steer, full and by, a course that will take her straight away from the centre ; but in a tropical hurricane we see that the danger is much greater even if the force of the wind were not stronger.

The force of the wind and the appearance of the weather do not furnish a trustworthy guide to determine the distance of the centre of a typhoon. The dimensions are different in almost all typhoons, and near land the strong winds are often so irregularly distributed that in a place near the centre less wind may actually be experienced than at some distance farther away from it. In such cases the approach of the centre is judged of by the fall of the mercury in the barometer. But on the high sea the increase or decrease in the strength of the squalls, and the state of the weather and sea, enable the approach of the centre to be known, and this, together with its direction which is known from the direction of the wind and perhaps also from the clouds, enables the master of a vessel at sea to lay down the path of the typhoon, with reference to his vessel, with more or less accuracy. The great difficulty is, that the typhoon may be increasing or decreasing in violence and the barometric depression getting steeper or filling up. To the eastward of the Philippines and near their western shores the former is likely to take place, while the latter would probably happen near the western shores of the China Sea. In such cases it may become more or less impossible for a seaman to know how the centre moves, except in so far as he can judge by published paths of previous typhoons.

Once the bearing of the centre has been ascertained from the direction of the wind, you require to know in which semi-circle your vessel is situated : if in the right-hand semi-circle the wind will veer, *i.e.*, shift with the sun, and in the left-hand semi-circle it will back, *i.e.*, shift in the opposite direction. But this rule fails if your vessel is moving with the typhoon and quicker than the centre is moving. Then the rule may be reversed. Masters of vessels are therefore advised to heave to early and observe how the barometer behaves and how the wind changes ; but it is so dangerous to lose any time in a storm that carries you into the centre, that this should not be done except when absolutely necessary. You may happen to be right in front of the centre and lose your chance of getting out of its track. Here it is that a knowledge of the paths of past typhoons such as have been annually published from this Observatory during the past fourteen years, becomes so useful. That may enable you to know at once in which semi-circle your vessel is situated, *e.g.*, with NE wind in the China Sea you are pretty certain to be in the right-hand semi-circle. The wind shifts faster the nearer the centre you are, but the direction of the sea does not change so fast as the wind. If the bull's eye of the typhoon overtakes your vessel, the wind bursts again from the opposite quarter, and with perhaps greater violence than before, that is, when the centre is past. Very deceitful lulls occur during the raging of a typhoon and last sometimes long enough to be mistaken for the central calm, but in such a case the wind bursts again from about the same direction as before.

The rate at which the barometer falls depends upon your approach to the centre, and in consequence upon the rate at which the latter is travelling. You cannot therefore safely draw conclusions concerning the amount of wind to be expected from the rate at which the barometer is falling, but to some extent that may be done. Remember that at sea when the barometer has fallen to the lowest point and is beginning to rise again, you may expect as much, if not more, bad weather than you have already gone through although it will be, on the whole, improving.

The right-hand semi-circle is called the dangerous semi-circle ; there you are carried not only in towards the centre, but also towards the path in front of the centre ; besides, the force of the wind is greatest in the right-hand semi-circle, but fortunately the wind usually veers in the squalls in the same direction as it veers with the progress of the typhoon. Here you must make up your mind at

once which of the following courses open to you you will choose :—Either heave to on the starboard tack (if there is no chance of the centre approaching too near) which will allow your ship to come up to the wind and not be taken aback; or (if in the front quadrant of the dangerous semi-circle) run across the path in front of the centre into the left-hand semi-circle. The incurvature of the wind is less in front of the centre than behind (except in some exceptional case when a typhoon is moving against the monsoon). That helps you to cross the path, and you can run with the wind on the starboard quarter, three points from the stern. If you are within a point, or even two, of the path of the centre, it is generally quite impossible to know in which semi-circle you are, as the wind does not change much, and such change as there is takes place very often in a misleading way. In that case it is decidedly wrong to heave to. Run at once. It may, of course, also happen that you can run close-hauled on the starboard tack if that shortens your voyage and if you have reason to think that the centre will not come down on you.

The left-hand semi-circle is called the manageable or the navigable semi-circle. Here you are carried more straight into the centre, but at the same time the wind carries you towards the path behind the centre, where the danger is less, and moreover the force of the wind is not so great in the manageable as in the dangerous semi-circle. On the other hand, the wind does not always change in the same direction as the squalls. In this semi-circle you can run close-hauled with the wind on the starboard tack, but must heave to on the port tack, so as not to be taken aback when the wind backs. Therefore you cannot run so long in this as in the other semi-circle, or you may not be able to wear your ship, and when you heave to on the wrong tack, you run great risk of being dismasted or having your vessel thrown on her beam ends, when you may have to cut away the masts to right her, although they may not go clean overboard. They will not do so unless all the shrouds and ropes were cut before the mast went, and your vessel may have her bottom stove in when she clears them after they have gone overboard and she is drifting to leeward. A dismasted ship is carried round the typhoon and into the centre in a spiral course. Many a sailer has been lost through being on the wrong tack in a typhoon and, as explained above, you have not always the means of knowing with certainty which tack to choose.

All this is on the supposition that you have ample sea-room, so much the more as your dead reckoning may be very much out when navigating in a typhoon. Sometimes a master does not know where he is within a hundred miles. It is no unusual thing for a vessel caught in a typhoon in the China Sea, where dangerous shoals abound, to be carried sixty miles out of her course before it is possible to take sights. Lee-way, strong currents, and uncompensated heeling errors account for that. Heave the lead as often as possible.

When running to the southward across the path of a typhoon moving westward, you will most likely be to the eastward of your dead reckoning from the effect of uncompensated heeling error, but this is not always so. If the permanent magnetism of your ship has been properly corrected by permanent magnets, including a vertical magnet to correct the permanent vertical magnetism, and if the induced horizontal magnetism has been corrected by Airy's soft iron balls, and if the induced vertical magnetism has been corrected by a Flinders' bar, then the heeling error ought to be nearly insensible. But, on the other hand, if the semi-circular deviation arising from induced magnetism has been corrected by permanent magnets, then the heeling error may be considerable, say, one point, which may carry you as much as 40 miles out of your dead reckoning in a day. When on the magnetic equator, where there is no vertical force, you should always adjust your permanent magnets. It is better to remove Flinders' bar while that is being done, as it may chance to interfere somewhat by acting as a short horizontal soft iron bar.

When hove to on the proper tack you should, if you are on board a steamer, keep the engines going ahead dead slow and use oil to calm the sea and prevent it from breaking on board. A small steamer, with insufficient engine power, may resort to a home-made deep-sea anchor. A steamer sometimes rides most easily when stem straight on towards the sea, a position by all means to be avoided by a sailer, who must be kept four points from the wind. Some mariners are in the habit of heaving to stern to wind and sea, or even lashing the helm amidship and allowing the ship to select its own position: that will not do in a typhoon, where a vessel so handled would quickly be carried in towards the centre.

A great deal now depends upon how you are laden. Much has been said against overloading, but quite as many vessels have been lost for lack of ballast or from shifting ballast, as from overloading. A heavy roller might possibly even be safer than a vessel that keeps very steady from having its centre of gravity high up near the metacentre and consequently little stability. With regard to trim, a vessel behaves usually best on even keel. If she is down by the head she steers badly, and if she is down by the stern, the wind and sea may throw her head off to leeward. A vessel with a hurricane deck has a great advantage over those with solid bulwarks. If in soundings, and she will not come up otherwise, you must clubhaul her, in order to get her head to wind, but it should be sufficient to pay out a hundred fathoms of chain or upwards in order to prevent her from falling off into the trough of the sea. A sailing vessel may when drifting before the wind pay out a long hawser astern but it would be dangerous to try that on board most screw-propelled steamers, as the hawser might foul

the screw, when the vessel is pitching in a high sea. When a typhoon is blowing you can not set the spanker to get her up, as the sails are usually blown clean out of the gaskets. Extra strong storm-staysails are carried till they blow away, in order to steady the ship. A sailer usually behaves better than a steamer, as even under bare poles she has enough tackle aloft to offer resistance to the wind and keep her bows out of the water. Should the masts go overboard, a sailer, in proper trim, has still a better chance than a steamer, when her deck is swept by the seas, as the hatches may be more easily kept battened down than on board a steamer with its engine-room skylights, etc., but the way of battening down hatches leaves much to be desired. In 1886 I suggested that they should be screwed down like the covers of the portholes, and you ought not to trust to wedges or even to chains. Lately this suggestion has been taken up, at the Shipmasters' Society, London. Any vessel labouring in a mountainous cross sea near the centre of a typhoon is, however, in a most helpless condition. By that time there is nothing further to be done. It must therefore be your aim to avoid that contingency.

The most dangerous typhoons have been encountered in the Pacific in a low latitude, say 12°, and 130° or 140° longitude. They are so small there and move so slowly that it ought to be easy to avoid them on board a steamer. They move WNW-ward, and you are safest to the SE-ward of them. You can see such a typhoon coming up in the shape of an arch, at first perhaps whitish in appearance, but soon developing into a dark and threatening cloud. Its dark appearance and the extreme slowness of its motion,—in fact it does not appear to move at all,—distinguishes it from an arched squall, which is moreover often brighter in the centre. If the direction of the motion of the clouds in it is seen to be nearly perpendicular to the bearing of the top of the arch, then there is no doubt that it is a typhoon. Even in Hongkong I have seen a typhoon approach like that.

If after leaving Singapore bound for Hongkong in the SW, monsoon, you find that the barometer falls more than it ought to, the monsoon begins to freshen in squalls, and you notice a cross swell, a lumpy sea, and other signs of a typhoon, then you ought to shape your course to the south-eastward, so as to sail round the centre and benefit by the favourable SE wind behind the centre. But if the season is late in the year, you had better make sure that it is not travelling south-westward, in which case you may be overtaken by the cyclone. Such typhoons are often the cause of high seas in the Gulf of Siam, but as their progressive motion is usually slow, you can "heave to" in order to make observations without losing ground perceptibly. Up to within the last few years steamers often kept their course and travelled from the navigable into the dangerous semi-circle, where they suffered great damage and delay. But that happens seldom now.

If after leaving Hongkong bound for a northern port you fall in with a typhoon coming through the Bashee Channel, and moving NW-ward into the Formosa Channel, you ought to run to the southward, and if bound for Yokohama you may afterwards shape a northern course along the east coast of Formosa, where the Kuro Siwo current occasionally sets fast towards the NE. As the typhoons are nearly always moving northwards you are usually safest to the S or rather SE of the centre.

Ships between Foochow and Ningpo are liable to experience the NW gales that precede a typhoon travelling westward and about to strike the coast in that neighbourhood. If you do not like to expose your vessel to the high confused seas round northern Formosa, you should run into shelter early, and wait there till the barometer rises and the weather improves and the tide allows you to get out again.

Between Shanghai and Japan you are liable to fall in with a typhoon travelling in any direction between WNW, N and E. You are therefore safest to the S of the centre, but that may be in the dangerous semi-circle and the wind is strongest there. North of this latitude you would prefer to be W of the centre. Near Japan most typhoons move NE-ward. They generally travel quickly and do not give so long warning as further south. In these typhoons you cannot know in which semi-circle you are till the wind shifts. They are as a rule not so violent as within the Tropics, though sometimes they are just as bad, but the incurvature is not so great.

You all know that though typhoons are dangerous on the open sea, they are still more to be feared in open anchorages and near lee shores, such as in Formosa, where you must be ready to run to sea at very short notice, as you could not lie there with any chance of riding out a typhoon, except in the inner harbour of Takow. When you then experience a N gale and a falling barometer, by far the surest signs of an approaching typhoon, and appearances quickly get worse, you must run to the SW with the N gale and bring your ship into a most dangerous position in front of the centre (unless there is time to cross the path) rather than remain at an unsafe anchorage. When at anchor up against a lee shore there is not only danger of being thrown on the shore, but also danger of going down at your moorings. The waves running into shoal water are at first very much increased in height, the slope along the wave-front gets steeper, and when in the hollow of a wave that may be forty feet below the crest, there is a chance of having the bottom knocked out of a vessel, except when the ground is soft mud. Waves on the open sea do not exceed thirty feet in height, measured from crest to hollow, but still it is not known how high they rise in a cross sea near the centre of a typhoon.

A knowledge of typhoons and their paths is often required when you have to decide whether to remain at your moorings or to slip your cable and run: for instance a vessel between Hongkong and Swatow in an anchorage sheltered against N and E winds will be safe while a typhoon is moving from E to W across the China Sea, but should the centre move northwards the vessel might be thrown on a lee shore when the wind backs through W to S.

A steamer at anchor, when a typhoon is approaching, should get up steam and a sailer should, if possible, take down the top masts as soon as it blows a fresh breeze in the squalls. With reference to a sailing vessel the time when to begin striking the top masts must, of course, depend upon the extent to which she is undermanned. Striking the masts increases the rolling. A sheltered anchorage must be selected, and when the centre passes very near, the berth may have to be changed to the other shore before the wind shifts to the opposite quarter, but along the China coast it does not blow so hard after the centre has entered the mainland as before. A vessel moored by single anchor will swing with the sun in the right-hand semi-circle, and against the sun in the left-hand semi-circle. If two anchors are dropped, the anchor on the advancing bow should be let go first. Therefore a vessel in the right-hand semi-circle should first drop her port, and afterwards her starboard anchor, so as to ride with open hawse, and a vessel in the left-hand semi-circle should first drop her starboard anchor. But now it is usual to ride to a single anchor with a scope as long as possible,—over a hundred fathoms should be paid out,—as the strain on two cables at a great angle is more or less increased, and very irregular owing to the labouring of the vessel in the high sea. A second anchor is paid out in line with the first to veer upon if the first should not hold, and a third anchor is kept ready. A vessel depending upon a single anchor, or upon two anchors dropped at an angle, may go ashore if a link should break. The engines can be kept going ahead dead slow unless the steamer is too light, so as to relieve the anchors, but as this increases the irregularity of the strain, you had better stand by, so as to start the engines whenever necessary. Shallow river boats pay out cables on either side so as to help the vessel to keep upright, but at the same time they must have a single anchor paid out ahead to ride to, for no cable at a great angle could stand the strain caused by a typhoon.

A vessel in ballast steaming ahead dead slow may at times entirely relieve the strain on the cables and then fall off into the trough of the sea. Should then a squall strike her broadside, she is pretty sure to drag her anchors or even break a link in her cable and go ashore. It is therefore of no use turning the propeller slowly if she is light, and especially not if she is down by the stern, as it only increases the yawing and dragging.

With reference to typhoon anchorages in China beginning with Hainan, we have Backli bay (19° 7′ N. 108° 39′ E.) with shelter against winds between NNE. and S. only. It is not a very good harbour, and the natives are not to be trusted. In southern Hainan we have Yulinkan bay 18° 12′, 109° 33′), an excellent typhoon harbour in case the centre is to the S. of Hainan, as often happens. Gaalong bay (18° 13′, 109° 34′) may also be used. Maniu harbour (19° 57′, 109° 52′) can be used when the centre is to the north of Hainan. Hunghom bay (20° 17′, 110° 23′) is shallow and is not often used except when no better place is within reach. Hui-ling-san (21° 34′, 111° 47′) and Namo harbour (21° 35′, 112° 34′,) are available between Hainan and Hongkong. Near Hongkong is the excellent harbour by Saint John's Island (21° 40′, 112° 42′,) which is commonly used. Vessels of great draught anchor to the S. of the position given. Tongku harbour (22° 35′, 113° 55′) is used in case of typhoons crossing the China Sea. It offers no shelter against W. winds. This is at the mouth of the Canton River. Higher up the river ships anchor under the Bogue forts although typhoon centres pass over that spot, but then it does not blow so hard as out at sea, when the centre is inland. Inside the Capsingmoon pass to the W. of Mahwan is shelter against typhoons, but Chingwan bay (22° 22′, 114° 6½′) is one of the best harbours in China. In consequence it is too crowded during a typhoon. To the NW. of Stonecutter's Island (22° 20′ 114° 8′) launches find shelter. Tytam bay to the S. of Hongkong is an excellent harbour. Deep bay (22° 17½′, 114° 16′) gives better shelter than Kowloon bay (22° 18½′, 114° 13′) but some vessels prefer the latter as the storm-signals can be seen from there. A position between Taipintong and the Channel Rocks makes the best anchorage. Mirs bay (22° 33½′, 114° 27′) under Pengchau offers shelter to vessels bound for Hongkong from a northern port. Between Mirs bay and Swatow there are no very good typhoon harbours, but shelter may be found against NE. winds. By Namoa Island (23° 28′, 116° 57′) is excellent anchorage. Tongsang harbour (23° 47′, 117° 35′) is much used, and also Amoy harbour. Makung harbour (23° 32′, 119° 33′) by the Pescadores is excellent. In Pihquan harbour (27° 10′, 120° 31′) there is good shelter against NE. winds to vessels under 15 feet draught. The Haitan Straits (25° 26′, 119° 44′) are very much used. There are several anchorages round Chusan. In Luzon there is an anchorage at the entrance to Manila bay, N. of Corregidor Island (14° 25′, 120° 33′). On the S. coast of Mindoro we have Garza bay (12° 13′, 121° 11′).

§ 3.—WEATHER-FORECASTS AND STORM-WARNINGS ISSUED FROM THE HONGKONG OBSERVATORY.

WEATHER-FORECASTS AND STORM-WARNINGS.

Meteorological Signals.

Meteorological Signals are hoisted on the Mast beside the Time-Ball at Kowloon Point for the information of Masters of Vessels leaving the Port. They do not imply that bad weather is expected here.

A DRUM ■ Indicates a Typhoon to the East of the Colony.

A BALL ● Indicates a Typhoon to the West of the Colony.

A CONE ▲ *Point Upwards* indicates a Typhoon to the North of the Colony.

A CONE ▼ *Point Downwards* indicates a Typhoon to the South of the Colony.

RED SIGNALS indicate that the Centre is believed to be more than 300 miles away from the Colony.

BLACK SIGNALS indicate that the Centre is believed to be less than 300 miles away from the Colony.

Night Signals.

TWO LANTERNS Hoisted Vertically indicate bad weather in the Colony and that the wind is expected to veer.

TWO LANTERNS Hoisted Horizontally indicate bad weather in the Colony and that the wind is expected to back.

The Signals are repeated on the Flagstaff of the Godown Company at Kowloon, and also, by day only, at the Harbour Office and on H. M.'s Receiving Ship.

Local Storm-Warnings.

The Colony itself is warned of approaching Typhoons by means of the TYPHOON-GUN placed at the foot of the Mast, which is fired whenever a strong gale of wind is expected to blow here.

Notice Boards.

Observations made at 10 a.m. and 4 p.m. are exhibited shortly after 10 a.m. and 4 p.m. on Notice Boards placed at the Eastern Extension, Australasia and China Telegraph Company's Offices, at Peddar's Wharf, at the Harbour Office, and at the Office of the Kowloon Godown Company.

Weather-forecasts and Storm-warnings are exhibited daily about 11 a.m. and also at other hours, day and night, whenever necessary while Typhoons are raging in the Far East.

The China Coast Meteorological Register is exhibited about Noon (Sundays and Government Holidays excepted).

The Law of Storms.

Further information concerning the weather to be expected while signals are hoisted, and sailing directions, are given in "The Law of Storms in the Eastern Seas."

Shipmasters may obtain by telegraph the latest information as to weather at any station reporting to this Observatory by payment for a reply of at least ten words (*i.e.*, twelve words including the address). Application may also be made for similar information to be telegraphed on some future specified day.

When the red drum is hoisted the weather is generally fine in Hongkong, and settled fine if the centre moves northward, so that this signal does not by any means imply bad weather here. Steamers bound for northern, western or southern ports should then lose no time in starting, as they may expect more or less fine weather. Those bound for the Philippines should take precautions to avoid the cyclone as explained above. Sailing vessels bound for western or southern ports should lose no time in starting, but those that are bound for the north or east ought to remain in the harbour awaiting information, as they may expect to fall in with calms or contrary breezes after starting, even should the wind be westerly here at the time.

More or less persistent SW winds, at times accompanied by thunderstorms, may be expected when the red cone pointing upwards is hoisted, and ships leaving the port are not likely to run any risk from the typhoon. Sailing vessels bound for the north should start as soon as possible so as to benefit by the southerly breezes to run through the Formosa Channel, and avoid the way round Formosa. By following the latter route a sailer, moreover, runs the risk of falling in with the next typhoon east of Formosa, particularly during the months of August and September.

A cone pointing downwards usually implies fresh E veering to SE winds in Hongkong. As such a typhoon may travel N and NE, the master of a vessel desirous of avoiding bad weather should consult the latest weather-intelligence or remain in port till the barometer rises. Then the danger is past.

When a ball is hoisted ships starting for northern, eastern, or southern ports may expect breezes from E round to S and SW. Those starting for western ports run no risk as long as the glass continues to rise. Should it ever happen to fall: heave to and, if necessary, take refuge in a typhoon anchorage such as Saint John's harbour.

Mr. FIGG has analysed his weather-forecasts for 1896 with the following results:—

The results for wind direction, force, and weather are treated separately in the first instance. The forecast wind direction is considered successful if the wind at Gap Rock blows the greater part of the 24 hours from a direction that does not differ more than 45° from the forecast (93 % were successful). Forecast wind force: "light," is successful if the mean force registered at Gap Rock is a light breeze, or if the wind force does not reach the force of a moderate breeze; "moderate," if the mean is a moderate breeze, or if the wind force exceeds a light breeze and falls short of a strong breeze; "fresh," if the mean is a fresh breeze, or if the wind force exceeds a gentle breeze and falls short of a moderate gale; "strong," if the mean is a strong breeze, or if the wind force exceeds a moderate breeze and falls short of a fresh gale; "gale," if it blows more than 40 miles per hour at Gap Rock (93 % were successful).

The weather is successful when "fine" is forecast if the mean amount of clouds is below 7-tenths of the whole sky, if sunshine or starlight prevails, and when it does not rain more than one hour out of twenty-four; when "fair, cloudy," if the amount of clouds exceeds 3-tenths and it does not rain more than one hour; when "showery," if it rains at intervals and is fair at intervals; when "wet, rainy" if it rains more than 4 hours (77 % were successful). Counting days on which all three elements were correctly forecast as "success," those when two elements were justified and one failed as "partial success," those when one element was justified and two failed as "partial failure," and those when all elements failed as "total failure," we have:—

Success 67 %, partial success 30 %, partial failure 2 %, total failure 1 %.

Following the method used in meteorological offices and taking the sum of total and partial success as a measure of success, and the sum of total and partial failure as a measure of failure, we find finally that:—

97 % of the weather-forecasts were successful.

The amount of success attached to the firing of the typhoon gun to indicate local gales has been determined according to the method adopted at meteorological offices at home. According to this method of counting, the storm-signal is justified if followed by a gale of force 8 and upwards within 48 hours at a place near sea-level within 50 miles of the place where the signal is hoisted. It is a failure because "too late" if it blows a strong gale (force 9) before the signal is hoisted. According to this way of counting, a failure has to be recorded every time the gun is not fired during the winter for a "Norther," although we did not presume to forecast those.

The typhoon gun has been fired 27 times one round, since the Observatory was started on the 1st January, 1884, *i.e.*, during the past 13 years. During the same period it has 30 times blown a gale of force 8 and upwards: Once in February (norther), once in June (typhoon), 5 times in July (typhoons), 3 times in August (typhoons), 11 times in September (typhoons), 7 times in October (typhoons), and twice in December (northers).

There was 75% of success counting all the gales and all the times the gun was fired, or 83% of success if the "northers" be left out of account. This compares favourably with the percentage of success in the British Isles 58% only of which are justified by subsequent gales of force 8 and upwards (mean of the 10 years 1884-93 inclusive). This leaves out of account the fact that in those isolated instances, where the gun was not fired, warning was given by notices issued and of late years, by lanterns hoisted.—During the first eight years the gun was fired when the wind blew 37 miles per hour on an average, while during the past four years it was fired when the wind blew only 27 miles per hour on an average. This shows an improvement with the increase of staff in the Observatory that took place in the meantime, and with the increase in the number of telegraphic reporting stations. Detailed particulars concerning every typhoon that occurred during the past thirteen years and every warning issued have been published in the "Government Gazette" and in the "Observations and Researches" issued yearly from here.

Instructions for keeping the Meteorological Log.

Observations should be made every four hours, and the latitude and longitude of the vessel should be entered at each observation.

If convenient an observation should be made in or near Hongkong.

Observations are required between 10° South and 45° North latitude and between Singapore and 180° E of Greenwich.

When a mercurial barometer is read the thermometer attached to it is also entered.

When an anëroid is read no thermometer reading should be entered.

Force of wind is given from 0 to 12, and weather in Beaufort's initials.

For further particulars the "Instructions for making Meteorological Observations prepared for use in China" published in 1883 by the writer, may be consulted.

The forms are forwarded free through British Post Offices in China if addressed on service. They should be posted as soon as convenient after the vessel enters Hongkong harbour. Vessels bound for London from ports in the China Sea should post the forms in Singapore.

In 1896 the total number of days' observations made on board 325 ships and forwarded to this Observatory was 18,541 (counting separately those made on board different ships on the same day).

The surest of all warnings is furnished by the standard barometer on shore and the compensated anëroid on board ship; you are all right if you can put your vessel on the tack that will keep your barometer rising. But in order to understand the indications of the barometer you will have to keep a regular meteorological register. The master of a vessel who does not look at his anëroid till he is in a typhoon, does not derive half the benefits from his observations that he would have enjoyed had he watched it beforehand. He might perhaps have avoided the weather he is now experiencing, or even have benefited by the favourable winds and sailed round the typhoon. No doubt, the time is approaching when underwriters will stipulate that the indications of an anëroid or a marine barometer must be regularly registered on board a vessel insured by them.

On the other hand it would not be fair to ask the mariners to keep complete meteorological records, such as are kept in the lighthouses out here. Some seamen have a taste for this kind of work and make very useful and fairly accurate observations, but, for instance, the readings of dry and damp bulb thermometers taken on many vessels are of very little use.

The tube of the marine barometer has to be so much contracted to stand the incessant pumping and danger of breakage, that the instrument is sluggish and often reads half an inch or more too high near the centre of a typhoon. Some cheap wooden barometers cannot be registered below a certain height, the cistern being too small to hold the mercury that comes out of the tube and there is the great objection to wooden mercurial barometers that the readings cannot be accurately reduced to freezing point and the temperature correction is larger than in case of instruments made of brass. Of course, some cheap anëroids are no better, and even a first class compensated instrument requires to be thoroughly verified, as the scale is never quite correct and the readings depend somewhat upon the temperature and in a manner different for each single instrument, so that general tables for correcting to freezing point are not available, but they act more quickly than the marine barometer, and for use on board ship the instrument that is quickest in its indications must be preferred. The objection to the use of the anëroid is founded on the fact that its index-correction changes gradually; but then this can be determined and allowed for by reading it off as often as the vessel enters a port, such as Hongkong, where correct meteorological observations are constantly being made.

The best hours for making observations are 4 a.m., 8 a.m., etc., up to midnight inclusive.

From 4 a.m. to 10 a.m. the barometer is rising, falling from 10 a.m. to 4 p.m., rising from 4 p.m. to 10 p.m., and falling from 10 p.m. to 4 a.m. It reads highest at 10 a.m. and lowest at 4 p.m. The daily variation is twice as great in midwinter as it is in midsummer. During the approach of a typhoon this regular daily variation may be masked, but it goes on all the same and must be taken into account when the barometer begins to fall before a typhoon. Thus if it has fallen a certain amount between 10 a.m. and 4 p.m. you must subtract the normal descent between these hours in order to know how much of the fall is due to the approach of the typhoon, and if it were between 4 p.m. and 10 p.m. that it fell, you must add the normal rise for the same purpose.

§4.—ON THE DIFFERENT CLASSES OF TYPHOONS AND THE SEASONS OF THE YEAR IN WHICH THEY APPEAR.

In 1886 I expressed the hope that it might be possible to construct average paths of all the different varieties of typhoons, when a couple of hundred tracks were available. This has just been effected on the basis of 241 typhoons, registered during the past 13 years,—or on an average 19 typhoons per year. They are distributed among the different months of the year as follows: January 1, February 0, March 1, April 4 (2 per cent), May 10 (4 p.c.), June 24 (10 p.c.), July 45 (19 p.c.), August 43 (18 p.c.), September 57 (23 p.c.), October 31 (13 p.c.), November 22 (9 p.c.), December 6 (2 p.c.).

In 1884 I suggested the division of typhoons into four classes (Comp. "Observations and Researches made at the Hongkong Observatory in 1884," app. M) but the final arrangement of sub-classes could not then be effected:

I*a* ∝ originate in the China Sea (most frequently near 18° to 20° N and 113° to 116° E) north of 15° N and enter, or at least approach the mainland to the W of Hongkong. 10 p.c. of all the typhoons registered belong to this class. They prevail from the middle of June till the end of September.

I*a* β originate in the Pacific and enter the China Sea north of 15° N and enter, or at least approach the mainland to the W of Hongkong. 12 p.c. of the typhoons belong to this class. They prevail from the beginning of July till the middle of October.

I*b* originate in the Pacific and enter the China Sea north of 15° N, move SW and disappear at sea. Only one or two cases of this kind have ever been registered (late in the year).

I*c* originate in the China Sea and move N, but describle vastly different paths, moving in various directions between W, round by N, to ENE. Sometimes they recurve after entering the mainland. They occur from June till the end of September, but they are most common at the beginning of the typhoon season (4 p.c.).

I*d* originate in the China Sea, where they recurve, and sometimes move into the Pacific passing near South Formosa. They occur from May till September incl. (2 p.c.).

Typhoons of classes I*a* and I*c* (26 p.c. of all typhoons) are frequently felt in Hongkong.

Class II.

II*a* originate in the Pacific, enter the China Sea north of 15° N, and enter China to the E of Hongkong. There they pass (IIa_1) N, or (IIa_2) W. They occur in July, August, and September (2 p.c.).

II*b* originate in the Pacific and move into the Formosa Channel. They occur from June to September incl., and are most common in August and September (7 p.c.).

II*c* originate in the Pacific, pass N of Formosa, and enter China. They occur from June till September, with a distinct maximum in July (3 p.c.).

II*d* originate in a high latitude in July and August and move W-ward into China (4 p.c.).

With the exception of IIa_1 which sometimes cause fierce SW gales in Hongkong, typhoons of Class II are not dangerous to this Colony.

Class III.

These typhoons originate and rage mainly in the Pacific.

III*a* enter the coast of Luzon but recurve (usually before the centre enters the China Sea). They prevail in October and November (1½ p.c.).

III*b* enter the coast of Formosa but recurve, usually in October (1 p.c.).

III*c* move N and enter Korea in July, August and September (4 p.c.).

III*d* recurve in the Pacific and enter Japan between June and October incl. They are most frequent in August and September (15 p.c.).

III*e* remain in the Pacific. They occur from May till December incl. Their average latitude decreases on the whole with the altitude of the midday-sun. 10 p.c. of all the typhoons registered belong to this class, but there must be many that are not met by ships and therefore not registered. Their prevalence may be estimated at 12½ p.c.).

Class IV.

IV*a* ∝ originate in the China Sea south of 15° N and move towards Hainan and Annam. They occur from May till December incl., but are rarely encountered in August (8½ p.c.). In November they often originate in about 11° N and 116° E.

IV*a* β originate in the Pacific and enter the China Sea south of 15° N. They are less common than those originating in the China Sea, as the long passage across the southern Philippines tends to break them up. They occur at the beginning and end of the typhoon season (3 p.c.).

IV*b* enter the China Sea after crossing the Philippines in a low latitude, and then move SW and disappear at sea. They occur from the beginning of September till the beginning of December, but are most common in November (4½ p.c.).

IV*c* recurve in the China Sea and re-enter the Pacific. They occur at the beginning and end of the typhoon season but mostly in May (4 p.c.).

IV*d* occur in the Gulf of Siam in April and December (1 p.c.).

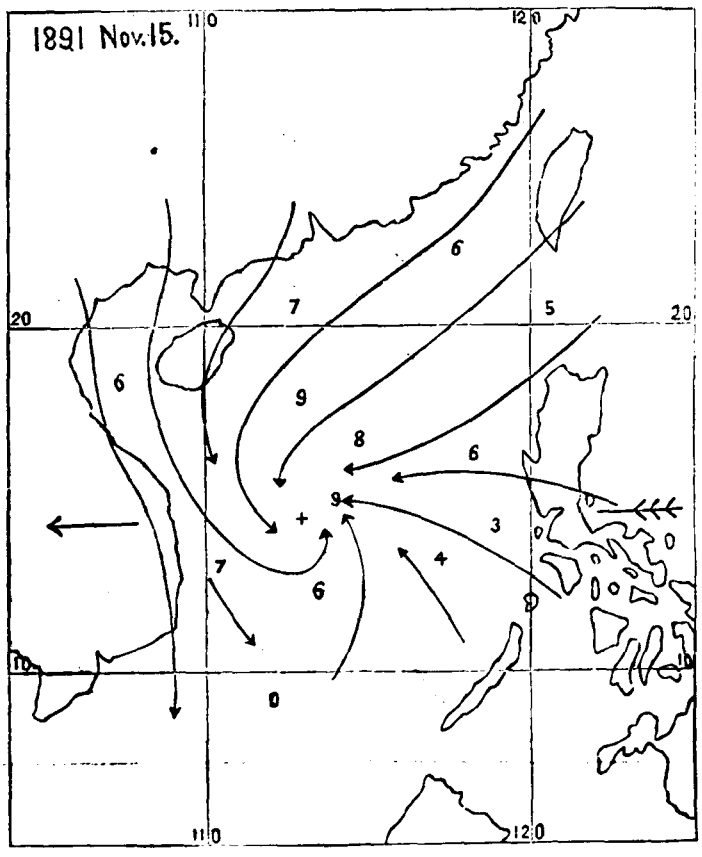
The accompanying plate illustrates the average paths of these different kinds of typhoons. The average rate of progress in 24 hours is also marked, but it must be remembered that individual typhoons move in very irregular orbits, whose vagaries have disappeared from the average paths. Also they travel at very different rates. It is presumably as useful to the travelling public, and the freight-carrying public to know where and when typhoons prevail, as to the weather-forecaster, who in default of precise observations reaching him by wire, must forecast according to such paths as these.

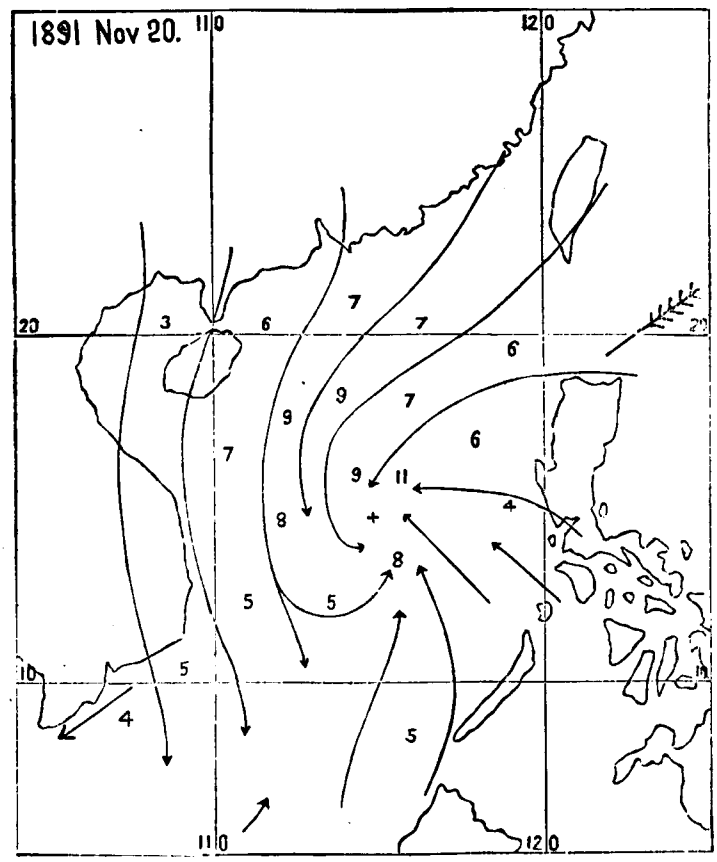
§ 5.—WINTER TYPHOONS IN THE SOUTHERN PART OF THE CHINA SEA.

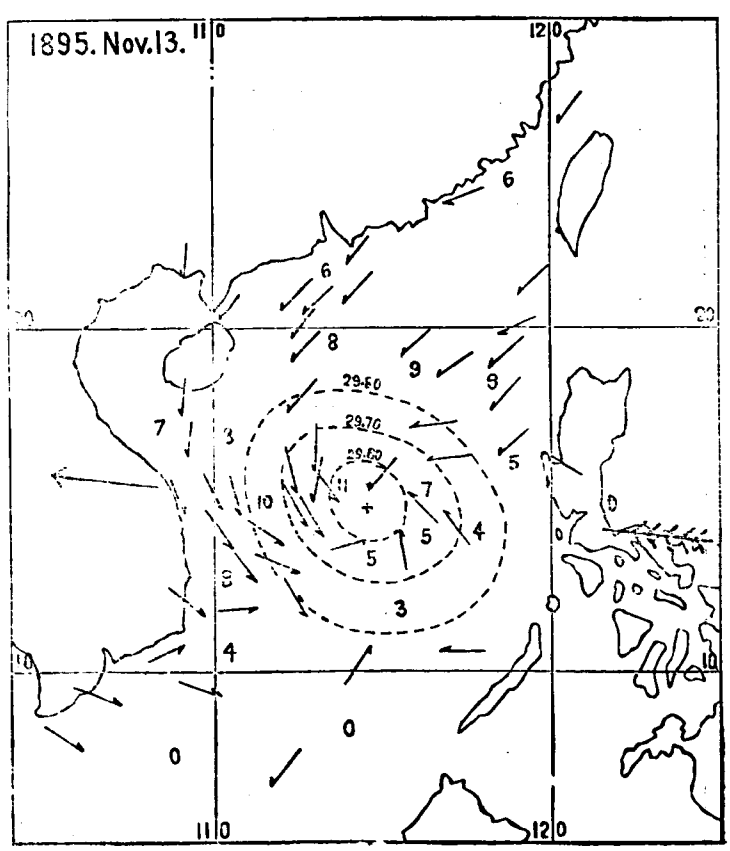
In the typhoons of the summer months,—the SW monsoon period,—which move towards WNW or NW in the N part of the China Sea and enter the coast in the neighbourhood of the Gulf of Tongking, the area over which the winds become strong with a decided fall in the barometer in front of the centre is generally small. This is accounted for by the low pressure prevailing over the Gulf of Tongking and the continent beyond it. For the same reason the winds in rear are not only stronger but also long continued, the more particularly as it seems that depressions on entering the coast frequently become diffused over a large area. In the autumn months (September and October)—the NE monsoon period,—these conditions are reversed and we find that in front pressure begins to give way and strong winds usually blow at great distances, while in rear the area over which winds are governed by the depression is comparatively small. Moreover, at this period the depression fills up rapidly on entering the mainland, which is then dry. In consequence a vessel in front of a typhoon, moving as stated, will usually get much shorter notice of the advance of a typhoon from the barometer in summer than in autumn, and while in summer the bad weather lasts a long time in rear, in autumn it improves rapidly when the centre is past and a strong NE monsoon sets in. For instance, N gales frequently blow late in the season off the Annam and Cochin China coasts with a typhoon centre a long distance off on the E side of the China Sea.

Typhoons of classes IV*a*, IV*b* or I*b* occur especially late in the year in an unusually low latitude over the China Sea, during the height of the NE monsoon which blows much stronger in these seas than the SW monsoon. Taking as an example of such, the typhoons of the 15th November, 1891, of the 20th November, 1891, and of the 13th November, 1895, it is seen that there is very little W, SW or S wind except within perhaps at most 50 miles of the centre. And to the S or SSW of the centre, where SW gales might be expected their place is taken by dead calms or light variable winds. No stronger argument could be adduced to show that the winds round a typhoon-centre are composed of the cyclonic winds on one hand and the prevailing wind on the other. In these cases where the cyclonic SW gales are combined with the NE monsoon gales, calms are the result. Unfortunately, I have not succeeded in drawing the isobars, as the anëroid observations on board ship are too rough to be of much assistance for this purpose, and the currents are strong, but the isobars might be inferred from the wind-directions laid down on the maps.

When all the wind forces round the centre of a typhoon are resolved into N and E components, positive or negative as the case may be, and the resultant direction and velocity are computed and compared with the direction of motion and velocity of the centre, it is found that the latter moves from a greater azimuth (counting from N) than the wind. This might be expected as it then agrees with the wind at a greater altitude. These November typhoons move from a direction from 2 to 7 points different from the resultant wind. As the NE monsoon is shallow, this probably agrees with the direction of the wind at an altitude of about half a mile, but the speed is only a fraction of the resultant wind velocity.




1891 Nov 20.
110
120
20
10


1895. Nov.13.
110
120
29.50
29.70
29.60

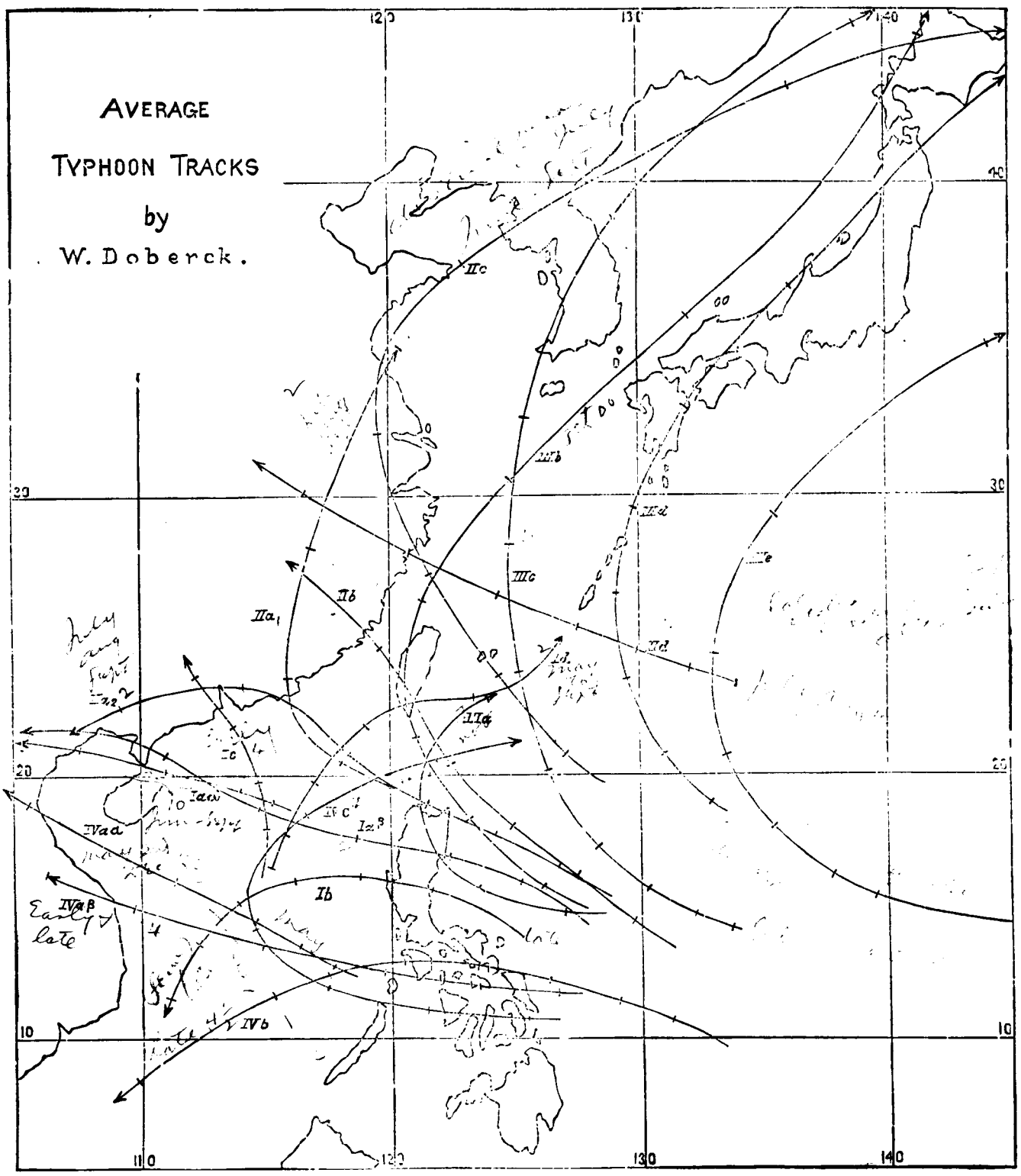

AVERAGE
TYPHOON TRACKS
by
W. Doberck.
120
130
140
40
30
20
10
110
IIc
IIIb
IIIc
IIId
IIb
IIa1
IIa
Ib
IVb
IVaα
IVaβ
Early
late

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JANUARY, 1897.

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,...	30.155	30.128	30.117	30.122	30.123	30.131	30.148	30.157	30.177	30.179	30.167	30.137	30.101	30.082	30.070	30.077	30.085	30.081	30.089	30.096	30.104	30.118	30.123	30.109	30.120
„ 2,...	.104	.092	.078	.078	.073	.108	.122	.141	.162	.167	.143	.117	.084	.067	.062	.072	.079	.087	.090	.096	.098	.099	.100	.091	.100
„ 3,...	.094	.082	.065	.066	.061	.074	.080	.107	.116	.120	.103	.084	.051	.039	.017	.015	.031	.041	.044	.055	.057	.066	.064	.060	.066
„ 4,...	.050	.032	.023	.014	.013	.023	.041	.045	.060	.066	.063	.048	.040	.032	.025	.036	.035	.131	.025	.027	.049	.049	.029	.021	.037
„ 5,...	.011	.009	.010	.006	29.993	29.995	.027	.031	.037	.024	.008	29.976	29.957	29.940	29.935	29.942	29.952	29.959	29.962	29.956	29.959	29.962	29.962	29.938	29.981
„ 6,...	29.937	29.922	29.925	29.922	.923	.938	29.956	29.957	29.968	29.969	29.958	.930	.908	.892	.886	.890	.903	.907	.906	.906	.906	.906	.906	.907	.922
„ 7,...	.909	.906	.919	.913	.922	.920	.940	.957	.971	.964	.942	.908	.884	.859	.855	.863	.877	.889	.899	.911	.920	.922	.913	.912	.911
„ 8,...	.898	.893	.901	.910	.914	.929	.945	.965	.977	.970	.957	.922	.885	.874	.863	.869	.884	.895	.908	.925	.930	.927	.928	.930	.917
„ 9,...	.916	.914	.925	.918	.950	.961	.993	30.021	30.032	30.018	30.006	.981	.956	.937	.937	.950	.960	.986	30.006	30.023	30.021	30.030	30.033	30.025	.979
„ 10,...	30.023	30.020	30.000	.991	.979	.969	30.014	.035	.053	.027	.022	30.010	.990	.956	.936	.956	.970	.979	29.993	29.993	.001	.000	29.992	29.941	.994
„ 11,...	29.940	29.908	29.891	.883	.883	.893	29.922	29.922	29.954	29.949	29.921	29.877	.839	.814	.839	.841	.836	.855	.857	.878	29.890	29.885	.868	.870	.884
„ 12,...	.868	.865	.859	.853	.853	.874	.889	.899	.908	.908	.892	.863	.839	.822	.808	.800	.824	.842	.853	.863	.853	.852	.850	.859	.858
„ 13,...	.841	.820	.818	.808	.801	.816	.840	.857	.866	.861	.831	.787	.751	.714	.707	.709	.717	.722	.731	.742	.744	.743	.738	.728	.779
„ 14,...	.718	.720	.713	.706	.708	.720	.749	.776	.792	.805	.796	.780	.746	.742	.731	.738	.767	.781	.800	.819	.825	.833	.829	.838	.768
„ 15,...	.844	.836	.832	.828	.838	.848	.871	.903	.922	.937	.925	.893	.866	.849	.835	.839	.864	.881	.900	.913	.914	.917	.919	.919	.879
„ 16,...	.924	.921	.907	.907	.897	.901	.935	.944	.950	.968	.958	.921	.882	.858	.842	.848	.860	.866	.890	.897	.896	.905	.913	.927	.905
„ 17,...	.926	.937	.924	.913	.922	.940	.966	.988	30.019	30.032	30.023	.999	.964	.937	.936	.950	.974	.982	.997	30.011	30.029	30.032	30.048	30.063	.980
„ 18,...	30.070	30.070	30.064	30.069	30.096	30.111	30.127	30.145	.164	.178	.162	30.144	30.127	30.120	30.106	30.113	30.128	30.141	30.164	.182	.190	.192	.201	.201	30.136
„ 19,...	.200	.204	.182	.180	.182	.184	.201	.213	.224	.234	.206	.186	.158	.137	.127	.132	.144	.145	.142	.160	.164	.156	.172	.149	.174
„ 20,...	.139	.138	.122	.117	.114	.122	.123	.137	.153	.150	.121	.083	.034	.021	.007	.011	.023	.030	.040	.063	.072	.070	.068	.070	.084
„ 21,...	.086	.068	.061	.051	.059	.077	.087	.107	.139	.145	.134	.110	.082	.068	.068	.083	.097	.114	.132	.158	.169	.176	.188	.192	.110
„ 22,...	.198	.196	.187	.188	.192	.213	.230	.244	.261	.267	.247	.230	.198	.184	.174	.194	.200	.211	.220	.229	.235	.232	.230	.215	.216
„ 23,...	.218	.194	.185	.156	.163	.184	.205	.220	.225	.233	.216	.186	.156	.143	.126	.142	.148	.162	.173	.186	.195	.197	.189	.182	.183
„ 24,...	.182	.163	.155	.147	.150	.168	.179	.208	.222	.226	.198	.165	.128	.110	.101	.100	.106	.126	.145	.164	.179	.187	.187	.189	.162
„ 25,...	.183	.174	.171	.166	.167	.185	.201	.216	.216	.219	.206	.172	.135	.116	.097	.099	.110	.117	.141	.161	.163	.167	.160	.159	.163
„ 26,...	.137	.125	.117	.110	.102	.110	.113	.103	.115	.113	.090	.060	.017	29.981	29.966	29.963	29.961	29.973	29.972	29.989	29.987	29.979	29.973	29.961	.042
„ 27,...	29.943	29.943	29.914	29.894	29.886	29.901	29.917	29.933	29.941	29.934	29.919	29.886	29.847	.827	.822	.822	.822	.824	.840	.842	.849	.852	.850	.842	29.877
„ 28,...	.835	.823	.810	.798	.800	.810	.825	.846	.861	.859	.835	.816	.786	.750	.740	.736	.744	.744	.760	.771	.775	.786	.799	.791	.796
„ 29,...	.780	.767	.763	.767	.761	.771	.795	.807	.823	.831	.822	.794	.774	.744	.726	.727	.747	.762	.769	.781	.793	.794	.797	.804	.779
„ 30,...	.791	.796	.782	.787	.787	.797	.822	.847	.866	.886	.871	.850	.814	.799	.783	.773	.788	.804	.820	.835	.851	.849	.845	.843	.820
„ 31,...	.836	.841	.822	.805	.805	.815	.826	.846	.866	.882	.875	.855	.815	.788	.782	.786	.793	.797	.811	.826	.837	.850	.845	.859	.828
Means,.....	29.992	29.984	29.976	29.970	29.972	29.983	30.003	30.019	30.034	30.036	30.020	29.993	29.962	29.942	29.933	29.938	29.949	29.959	29.970	29.983	29.989	29.991	29.991	29.987	29.982

TABLE II.

TEMPERATURE FOR THE MONTH OF JANUARY, 1897.

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.
Jan. 1,	60.2	60.0	59.6	59.3	59.8	60.0	60.5	61.5	62.7	64.0	64.2	65.6	66.8	66.8	66.6	65.0	65.0	64 2	64.2	64.1	64.1	63.8	64.1	63.9	63.2	67.2	59.3
„ 2,	62.8	62.4	62.2	62.7	62.9	63.5	63.3	63.8	64.4	65.0	67.6	67.8	68.1	67.6	67.2	66.8	65.0	64.6	64.8	64.7	65.0	64.9	64.8	64.7	64.9	68.7	61.9
„ 3,	64.9	64.7	64.6	64.8	64.9	65.0	65.7	67.1	69.4	70.1	70.9	70.6	72.6	73.3	71.8	72.2	71.0	68.0	67.6	67.4	67.5	66.8	66.8	66.6	68.1	73.5	64.4
„ 4,	66.7	65.9	65.6	66.4	66.7	66.7	66.8	68.7	69.8	67.1	67.1	67.8	67.0	65.5	66.8	66.6	64.9	63.6	63.8	63.9	64.0	64.1	64.3	64.4	66.0	70.5	63.6
„ 5,	64.5	64.7	65.0	65.3	65.5	65.5	65.4	67.6	68.8	69.1	70.4	70.5	72.4	72.0	70.5	68.8	68.3	67.8	67.7	67.0	65.3	65.4	65.8	65.6	67.5	73.8	64.0
„ 6,	65.8	65.8	66.4	65.9	65.5	65.4	64.9	68.6	72.8	72.4	71.8	70.8	70.8	70.6	70.5	68.5	67.8	67.1	67.0	66.3	65.8	65.6	65.0	64.6	67.7	74 8	64.4
„ 7,	65.3	65.1	65.6	66.2	66.2	65.9	66.5	68.8	72.8	74.6	73.2	71.8	71.5	71.6	68.5	66.3	67.1	67.0	67.1	66 0	65.9	66.5	66.5	66 8	68.0	75.8	63.9
„ 8,	66.9	66.4	65.7	65.1	65.0	64.9	65.2	65.8	66.7	67.1	67.8	67.6	68.1	67.7	67.8	67.0	66.0	66.4	66.1	66.2	66.0	66.3	66.2	66.3	66.4	68.8	64.6
„ 9,	66.3	66.2	66.3	65.3	65.7	65.8	65.6	65.7	66.2	66.9	67.0	66.8	67.0	67.2	66.4	67.1	66.7	65 5	65.6	65.6	65.2	65.2	64.8	64.6	66.0	67.5	64.6
„ 10,	64.9	63.8	64.1	64.1	64.6	64.2	64.2	64.5	64.5	64.5	64.2	63.7	63.6	63.5	63.6	64.0	63.8	64.2	63.5	63.3	62.9	61.9	61.4	61.9	63.7	65.3	61.4
„ 11,	62.2	62.2	61.7	61.5	61.4	61.7	60.8	61.6	61.8	62.4	62.5	60.6	61.0	61.7	61.6	61.7	63.5	63.3	63.7	63.8	63.7	63.6	64.0	63.9	62.3	64.2	60 4
„ 12,	63.6	63.5	63.7	63.7	63.5	63.7	63.6	63.9	65.4	65.7	65.8	65.9	65.2	64.3	64.3	64.5	64.3	64.2	64.7	64.8	64.3	64.8	64.6	64.6	64.4	67.2	63.1
„ 13,	64.8	64.6	64.5	64.4	64.3	64.6	64.9	64.6	64.6	65.6	65.5	65.8	65.7	66.0	66.4	66.1	66.0	67.6	70.4	69.4	72.2	72.3	72.6	72.8	66.9	72.8	63.5
„ 14,	69.1	67.9	67.5	67.2	66.3	66.2	65.8	66.0	67.3	66.7	67.6	66.4	67.1	67.4	65.8	65.3	65.0	64.8	64.5	63.9	63.0	61.2	60.5	59.7	65.5	72.8	59.7
„ 15,	58.6	57.8	57.3	58.0	57.4	56.5	57.9	57.8	59.4	60.3	60.0	62.2	61.2	61.1	60.2	59.0	57.9	57.3	57.4	57.2	56.2	56.3	57.1	57.3	58.4	63.0	56.0
„ 16,	57.2	57.7	57.5	57.4	57.5	58.3	58.8	59.5	60.3	60.9	60.5	61.6	61.2	61.3	61.1	61.0	60.8	61.0	61.1	61.0	61.1	61.0	61.3	61.4	60.0	62.6	57.2
„ 17,	61.3	61.3	61.3	61.2	61.1	61.1	60.8	60.5	60.2	60.0	60.1	60.2	61.0	60.8	59.7	58.6	57.8	57.2	55.5	54.7	54.6	53.8	52.8	50.6	58.6	62.0	50.6
„ 18,	50.0	49.5	50.5	48.2	46.8	46.8	47.9	49.4	50.8	51.9	52.1	54.7	54.7	54.3	54.6	53.7	52.1	51.2	50.1	49.1	48.0	48.1	48.1	47.6	50.4	55.1	46.8
„ 19,	47.6	47.6	46.8	46.7	47.5	48.8	49.3	49.4	50.0	51.1	52.0	52.3	51.9	52.6	52.6	52.3	52.2	52.9	53.6	54.1	54.0	54.8	55.4	56.1	51.3	56 1	46.7
„ 20,	56.1	55.8	55.6	55.6	55.5	55.5	55.6	56.1	56.6	56.7	57.6	57.7	58.2	58.8	59.0	58.6	58.7	58.6	58.9	59.3	59.8	59.9	60.0	59.9	57.7	60.0	54.8
„ 21,	59.8	59.6	59.6	59.5	59.6	59.5	59.5	60.6	62.8	62.9	64.1	64.1	64.0	64.8	64.5	64.9	62.4	60.5	60.0	58.8	58.3	58 3	58.2	58.1	61.0	66.0	58.0
„ 22,	57.4	56.3	56.0	54.9	54.3	54.1	54.6	55.0	56.6	57.1	58.0	58.4	59.8	59.9	59.0	59.2	58.0	57.4	56.9	56.8	57.4	57.4	57.5	57.6	57.1	60.5	53.9
„ 23,	58.2	57.5	57.4	56.9	57.0	57.1	56.8	57.5	58.6	59.5	60.1	60.0	60.6	60.5	60.2	60.0	58.8	58.0	58.0	58.2	57.9	57.8	58.2	58.4	58.5	60.8	55.8
„ 24,	58.8	58.6	58.2	58.4	59.4	59.5	59.9	60.3	62.4	63.6	67.0	66.7	67.0	66.8	65.5	64.5	63.8	63.3	62.8	62.6	62.0	61.4	61.4	60.7	62.3	68.5	57.7
„ 25,	60.4	60.4	59.9	59.5	58.4	57.1	57.1	58.8	62.6	61 8	62.1	62.5	63.2	62.5	61.8	61 9	61.5	60.0	60.0	59.6	58.5	58.0	58.2	58.2	60.2	64.6	56.0
„ 26,	58.4	58.0	57.6	57.9	57.5	57.5	58.8	59.3	60.8	63.5	63.0	63.6	65.2	65.5	64.2	62.8	62.3	61.5	60.7	60.6	60.6	60.3	60.6	61.1	60.9	65.8	55.9
„ 27,	61.5	61.4	61.6	61.4	61.2	61.2	60.8	61.0	61.6	62.9	63.5	64.2	63.7	63.2	62.6	62.2	62.1	61.9	61.8	61.6	62.1	62.1	62.3	62.5	62.1	64.8	60.1
„ 28,	63.6	63.6	63.0	63.0	62.9	63.0	63.8	63.9	65.6	68.6	72.9	74.0	72.7	72.7	73.3	72.6	72.0	71.5	71.6	71.7	72.0	71.9	71.7	72.0	68.9	75.2	62.5
„ 29,	71.7	72.0	71.9	71.7	71.5	71.7	71.8	72.1	73.2	74.7	78.0	75.0	77.9	74.8	75.0	75.0	73.2	72.7	72.2	73.0	72.9	72.5	72.4	72.6	73.3	79.2	71.5
„ 30,	72.6	72.4	72.3	72.3	71.7	71.5	71.6	71.6	72.5	72.2	65.6	65.2	64.8	64.3	64.8	64.7	63.5	63.2	63.2	63.3	63.2	63.1	63.4	63.5	67.4	73.1	63.0
„ 31,	64.0	64.2	64.5	64.6	64.7	64.7	65.0	66.0	66.3	66.2	68.6	70.4	72.8	70.9	69.2	70.0	67.7	67.8	67.4	68.6	68.4	68.8	71.2	69.7	67.6	74.1	63.5
Means,	62.1	61.8	61.7	61.6	61.5	61.5	61.7	62.5	63.8	64.4	64.9	65.0	65.4	65.2	64.7	64.2	63.5	63.0	63 0	62.8	62.6	62.5	62.6	62.5	63.1	67.6	59.6

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JANUARY, 1897.

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, ...	57.3	57.1	57.1	57.2	57.5	57.4	57.5	57.6	58.6	58.7	59.1	59.6	60.1	59.9	60.6	59.9	59.4	59.2	59.8	59.7	60.9	61.0	61.2	61.3	59.1	122.6
" 2, ...	61.2	60.9	60.4	60.4	60.7	60.8	60.6	60.9	61.2	61.1	61.6	61.2	61.2	61.1	61.4	60.5	61.1	61.1	61.2	61.0	62.4	62.3	62.6	62.7	61.2	130.8
" 3, ...	62.7	62.7	63.0	62.5	62.6	62.2	62.1	63.5	63.6	63.9	63.5	62.9	63.5	62.3	62.4	62.4	62.0	61.5	61.1	61.5	61.6	61.8	62.3	62.6	62.5	128.3
" 4, ...	62.7	62.8	62.5	61.7	61.1	60.7	60.6	60.5	61.5	63.2	63.1	63.7	63.0	62.5	62.6	62.6	61.7	61.4	61.0	61.9	61.7	61.5	61.6	61.2	61.9	129.7
" 5, ...	61.4	62.0	62.0	62.1	61.4	61.2	61.5	62.3	63.4	64.6	64.5	64.1	65.5	65.2	63.6	63.3	63.7	63.6	63.5	63.2	62.9	63.1	64.1	64.2	63.2	132.9
" 6, ...	64.5	64.7	65.1	64.7	64.3	64.3	63.7	65.4	66.3	67.1	67.1	66.6	66.6	66.6	66.5	65.2	65.2	65.0	65.1	65.0	64.8	64.5	64.2	63.5	65.2	127.5
" 7, ...	64.5	64.3	64.7	65.0	64.9	64.6	64.6	65.4	66.0	65.5	65.3	65.8	65.6	65.0	65.9	65.1	65.2	64.9	64.9	64.8	64.5	65.0	65.0	65.4	65.1	123.3
" 8, ...	65.4	65.4	65.1	64.5	64.4	64.3	63.6	63.7	64.0	64.3	64.8	64.5	64.5	64.1	63.9	63.3	63.3	63.2	64.5	63.8	63.9	64.2	64.1	64.3	64.2	129.7
" 9, ...	64.5	64.4	63.8	63.3	63.2	63.3	63.7	64.0	64.0	63.6	63.7	63.5	63.6	63.6	63.0	62.9	62.0	62.3	62.4	62.5	62.7	62.3	62.8	62.5	63.2	96.2
" 10, ...	62.1	61.5	61.4	61.1	61.2	61.1	60.9	60.9	60.4	60.2	60.2	59.6	59.4	59.6	60.0	60.5	60.1	60.6	60.5	61.0	60.9	60.6	60.4	60.6	60.6	83.4
" 11, ...	60.4	60.0	59.9	60.0	60.0	60.7	60.2	60.3	60.6	61.0	61.1	59.3	59.6	61.0	60.6	61.0	61.2	61.3	61.6	62.1	62.4	62.5	62.8	62.5	60.9	69.2
" 12, ...	62.5	62.3	62.9	62.9	62.9	63.1	62.5	62.6	62.9	62.4	62.8	62.7	62.5	62.8	62.7	62.7	62.6	62.8	63.0	63.2	63.2	63.6	63.6	63.6	62.9	123.4
" 13, ...	63.7	63.7	63.6	63.7	63.7	63.9	64.4	63.9	63.8	64.2	64.0	64.6	64.7	64.9	65.2	65.3	65.6	67.0	68.2	68.1	69.6	69.8	70.1	70.0	64.8	93.5
" 14, ...	68.5	67.0	66.6	66.3	65.2	65.0	64.6	64.7	64.9	63.9	64.2	63.5	63.7	63.8	62.0	62.2	61.4	61.3	60.3	58.3	57.7	56.1	55.8	54.4	62.6	115.7
" 15, ...	53.9	53.1	53.0	53.2	53.3	53.4	53.8	53.7	54.4	55.2	54.7	56.7	55.1	55.2	55.2	54.6	54.0	53.3	53.5	54.0	53.6	53.6	54.8	55.0	54.2	91.8
" 16, ...	55.2	54.8	55.0	54.9	54.9	55.6	55.3	56.6	56.7	57.1	57.6	57.6	57.4	57.5	58.0	58.5	58.6	58.7	58.9	58.6	58.7	58.8	59.2	59.0	57.2	128.1
" 17, ...	58.9	58.9	58.7	58.6	58.2	58.1	58.1	58.4	58.4	58.6	58.8	59.6	59.2	57.6	55.8	55.2	53.9	53.1	50.9	50.9	49.7	47.8	46.8	45.8	55.4	84.4
" 18, ...	45.2	44.0	43.3	42.3	42.1	42.5	42.9	44.5	44.9	45.6	45.7	47.2	47.0	46.7	46.2	45.6	44.6	43.4	42.6	41.5	40.4	40.6	40.9	41.1	43.8	99.5
" 19, ...	41.3	41.6	41.8	41.9	42.2	43.4	43.6	43.6	44.6	45.2	46.1	46.5	45.8	46.7	46.8	46.6	46.6	47.3	47.9	48.2	48.2	48.3	49.7	50.4	45.6	76.1
" 20, ...	49.8	49.9	49.5	49.0	49.5	49.7	49.9	51.3	51.6	52.3	53.7	53.6	54.3	54.9	55.1	54.6	55.3	55.6	55.2	55.8	55.6	56.6	56.6	56.4	53.2	90.2
" 21, ...	56.4	56.3	56.1	56.5	56.6	56.5	56.6	57.2	57.9	57.3	58.1	58.5	58.6	59.6	59.2	59.2	57.0	56.2	56.1	55.2	55.2	54.4	54.8	52.7	56.8	124.8
" 22, ...	51.9	51.3	50.8	50.4	50.5	50.1	50.0	50.5	52.2	52.0	52.8	52.9	53.8	53.8	52.8	53.2	52.4	52.1	52.0	52.1	53.3	53.9	55.2	55.3	52.3	92.5
" 23, ...	54.9	54.5	54.2	53.7	53.4	53.5	53.5	53.9	54.8	54.7	55.1	55.7	55.0	56.4	56.4	56.0	54.7	54.6	54.5	54.6	54.5	54.7	55.1	55.3	54.7	98.9
" 24, ...	55.6	54.9	54.6	54.9	55.5	55.1	55.6	56.2	57.3	56.6	59.5	57.6	58.9	57.6	58.0	58.7	57.8	57.0	56.7	56.5	56.6	56.6	56.9	55.9	56.7	132.8
" 25, ...	54.7	54.3	54.3	54.0	52.7	51.5	49.9	52.8	53.5	54.0	54.6	55.3	55.9	55.6	55.7	56.4	55.8	55.9	55.8	56.0	55.7	55.9	55.9	56.1	54.7	119.3
" 26, ...	56.2	55.5	55.1	55.8	55.4	55.4	55.3	55.3	55.9	58.3	57.8	57.4	59.3	58.8	57.9	57.0	58.0	57.9	57.7	58.0	58.2	58.1	58.3	58.4	57.1	119.0
" 27, ...	59.0	59.2	59.4	59.5	59.3	59.4	59.3	59.3	59.4	60.1	60.4	60.7	60.6	60.6	60.6	60.2	60.3	60.2	60.3	60.1	60.7	61.0	61.7	61.8	60.1	124.7
" 28, ...	62.2	62.3	62.3	62.4	62.3	62.8	62.8	63.0	64.4	66.1	68.9	69.2	68.8	68.5	69.0	69.0	68.8	68.6	69.0	68.9	69.1	69.1	69.3	69.3	66.5	139.2
" 29, ...	69.3	69.2	69.2	69.3	69.2	68.9	68.8	69.4	69.8	70.1	71.1	69.9	71.2	70.1	70.4	70.7	69.9	70.2	70.0	69.8	70.0	70.1	70.3	70.2	69.9	138.7
" 30, ...	70.3	70.3	70.1	70.2	70.1	69.6	69.7	69.6	70.3	71.1	64.2	63.3	63.9	63.2	63.3	63.1	62.7	62.4	62.6	62.7	62.6	62.6	63.0	63.4	66.0	96.8
" 31, ...	63.5	63.7	63.8	64.2	64.5	64.6	64.7	65.6	66.0	66.0	68.1	69.0	70.3	69.3	67.1	68.2	67.1	66.7	66.5	68.2	68.1	68.6	70.2	69.2	66.8	140.9
Means, ...	59.3	59.1	59.0	58.9	58.8	58.8	58.7	59.2	59.8	60.1	60.4	60.4	60.6	60.5	60.3	60.1	59.7	59.6	59.6	59.6	59.7	59.6	60.0	59.8	59.6	113.0

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JANUARY, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	83	0.478	Jan. 1,.....	78	0.449
2 „	83	.477	„ 2,.....	80	.492
3 „	83	.474	„ 3,.....	72	.493
4 „	83	.473	„ 4,.....	79	.501
5 „	83	.471	„ 5,.....	78	.524
6 „	83	.471	„ 6,.....	87	.589
7 „	82	.465	„ 7,.....	85	.582
8 „	81	.470	„ 8,.....	88	.572
9 „	77	.471	„ 9,.....	85	.544
10 „	76	.473	„ 10,.....	84	.489
11 „	75	.476	„ 11,.....	91	.517
Noon.	75	.474	„ 12,.....	92	.555
1 p.	73	.475	„ 13,.....	89	.586
2 „	73	.475	„ 14,.....	83	.530
3 „	75	.475	„ 15,.....	75	.366
4 „	77	.475	„ 16,.....	83	.433
5 „	78	.472	„ 17,.....	80	.398
6 „	79	.476	„ 18,.....	55	.201
7 „	79	.476	„ 19,.....	62	.232
8 „	81	.478	„ 20,.....	72	.347
9 „	82	.484	„ 21,.....	76	.408
10 „	82	.482	„ 22,.....	70	.330
11 „	85	.494	„ 23,.....	77	.379
Midt.	84	.489	„ 24,.....	69	.388
			„ 25,.....	68	.356
			„ 26,.....	78	.418
			„ 27,.....	89	.495
			„ 28,.....	87	.620
			„ 29,.....	83	.687
			„ 30,.....	92	.622
			„ 31,.....	96	.648
Means,.....	80	0.476	Means.	80	0.476

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.
1897.														
Jan. 1,.....	...	...	0.1	0.1	0.2	0.2	1.0	1.0	1.0	1.0	0.6	...	...	5.2
„ 2,.....	...	...	...	...	0.1	1.0	1.0	1.0	0.9	0.4	0.4	0.1	...	4.9
„ 3,.....	...	...	0.8	1.0	1.0	0.7	0.3	0.6	1.0	1.0	1.0	0.6	...	8.0
„ 4,.....	...	0.4	1.0	1.0	1.0	0.8	0.9	0.6	0.6	0.9	0.7	0.3	...	8.2
„ 5,.....	...	...	0.5	0.6	0.6	0.9	0.7	0.9	0.7	0.5	0.7	0.2	...	6.3
„ 6,.....	...	...	0.9	1.0	0.7	0.3	0.1	0.1	0.2	0.8	0.4	0.2	...	4.7
„ 7,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.5
„ 8,.....	...	...	...	0.2	0.5	0.3	0.4	0.1	...	0.2	...	...	...	1.7
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	0.7	0.2	...	...	...	...	...	...	...	...	0.9
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	0.4	0.6	...	0.3	...	...	0.1	0.3	...	...	...	1.7
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	0.1	0.6	0.1	...	...	...	...	...	0.8
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	0.2	...	...	...	...	...	...	...	0.2
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	0.2	...	...	...	...	0.2
„ 21,.....	...	0.3	0.7	0.9	0.4	...	...	...	...	0.2	0.7	...	...	3.2
„ 22,.....	...	...	...	...	...	...	...	...	...	...	0.2	...	...	0.2
„ 23,.....	...	...	0.4	0.8	0.1	...	...	...	...	...	...	...	...	1.3
„ 24,.....	...	...	...	...	0.1	0.6	...	...	...	...	...	...	...	0.7
„ 25,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.2	...	9.5
„ 26,.....	...	...	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	8.5
„ 27,.....	...	...	...	...	0.7	1.0	1.0	0.6	...	...	...	...	...	3.3
„ 28,.....	...	0.1	...	0.2	0.3	0.9	0.5	...	0.5	0.4	0.1	...	...	3.0
„ 29,.....	...	...	0.3	0.9	1.0	1.0	0.4	0.5	0.3	1.0	0.2	...	...	5.6
„ 30,.....	...	...	...	0.1	...	...	...	0.1	0.1	0.1	0.1	...	...	0.5
„ 31,.....	...	...	...	...	...	...	0.5	1.0	0.9	0.2	...	...	...	2.6
Sums,.....	...	1.4	7.1	11.0	9.9	11.3	10.4	9.6	9.5	10.0	7.9	2.6	...	90.7

TABLE VI.

RAINFALL FOR THE MONTH OF JANUARY, 1897.

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.
Jan. 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	0.015	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	4
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11,	0.005	...	...	...	0.005	0.010	0.010	0.025	0.030	0.010	0.035	0.300	0.235	0.160	0.460	0.075	...	...	...	...	...	...	...	0.025	0.025	2
" 12,	...	...	...	...	0.010	0.005	...	...	...	...	...	...	0.040	0.030	0.005	...	...	...	...	...	0.005	0.010	0.010	0.005	1.360	16
" 13,	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.120	12
" 14,	0.510	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	11
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.520	2
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	0.070	0.030	0.010	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	2
" 18,	0.010	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.110	5
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	2
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	...
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.015	1
" 30,	...	...	0.005	0.005	...	...	...	...	0.005	...	...	0.010	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...
" 31,	...	...	0.005	...	...	0.005	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	0.030	4
																									0.015	1
Sums,	0.525	0.015	0.010	0.020	0.020	0.025	0.010	0.030	0.040	0.080	0.065	0.320	0.280	0.190	0.465	0.080	...	...	...	...	0.005	0.015	0.010	0.055	2.260	62

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JANUARY, 1897.

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	6	9	7	9	7	7	10	9	6	9	7	13	6	17	6	20	6	22	7	22	7	24	8	18	8	20	8	21	9	22	8	24	8	23	7	18	8	23	7	20	8	22	7	21	6	18	6	20	431	18.0	7
" 2	7	17	8	23	7	22	7	26	7	22	8	20	8	20	8	21	8	19	8	22	8	23	8	25	8	23	8	22	9	21	9	15	10	21	9	19	8	14	9	10	10	10	8	10	8	10	9	11	446	18.6	8
" 3	7	8	10	7	9	7	8	9	10	3	11	7	9	11	10	11	10	12	12	10	11	12	11	11	10	11	9	12	10	13	10	13	8	14	9	13	9	10	9	11	10	10	10	11	10	10	8	12	248	10.3	10
" 4	9	13	8	14	8	15	8	16	9	16	8	19	7	17	8	20	8	24	8	26	9	26	9	25	10	22	9	24	10	19	9	22	9	18	8	23	9	23	9	24	9	21	9	20	8	27	8	30	504	21.0	9
" 5	8	23	8	17	7	11	10	12	9	16	8	17	10	12	9	13	10	15	9	16	10	17	10	15	10	15	10	13	9	17	9	18	8	13	8	12	9	5	...	1	9	2	8	10	8	10	8	10	310	12.9	9
" 6	8	5	8	6	8	5	8	3	13	3	...	1	11	2	...	1	11	3	23	6	24	7	25	9	26	8	29	8	29	3	7	7	8	11	8	10	8	10	8	6	8	8	8	3	...	0	...	1	126	5.2	7
" 7	...	0	...	1	...	1	...	0	8	3	10	3	10	3	...	0	...	0	10	3	10	9	8	14	8	15	9	14	8	15	8	21	8	16	7	14	7	11	10	11	10	10	8	11	8	7	9	6	188	7.8	8
" 8	9	11	9	15	7	18	8	16	8	20	7	19	8	27	9	19	8	21	8	19	9	22	10	19	10	16	10	15	10	13	9	17	10	17	8	18	9	18	8	14	10	13	10	12	8	13	9	13	405	16.9	9
" 9	8	13	7	17	8	18	8	19	8	10	10	8	10	9	10	11	8	11	7	14	7	14	9	12	9	14	8	14	8	16	7	14	5	17	6	14	7	12	7	16	7	14	7	13	7	16	7	15	331	13.8	8
" 10	5	14	5	13	6	20	7	26	7	30	7	42	7	30	7	30	7	25	7	33	7	29	7	25	7	24	7	20	8	18	8	14	8	11	7	10	8	17	8	16	7	19	7	21	7	22	7	26	535	22.3	7
" 11	7	27	7	31	7	31	7	31	7	30	7	27	7	22	7	23	6	12	5	9	2	10	1	14	3	9	4	5	11	6	6	6	3	11	10	19	7	25	6	17	6	11	7	18	7	26	7	28	448	18.7	7
" 12	7	25	6	24	6	21	6	26	7	21	8	18	7	19	8	20	8	25	7	25	7	25	7	23	8	17	8	19	8	21	7	23	7	22	7	22	7	25	7	28	7	30	7	30	7	23	7	22	554	23.1	7
" 13	9	26	7	24	7	22	7	27	9	28	9	27	8	24	7	28	7	27	9	24	9	26	9	32	9	28	9	29	8	22	9	22	9	20	12	21	14	17	15	19	15	19	15	13	17	15	17	18	558	23.2	10
" 14	29	12	24	6	24	8	22	12	23	14	22	15	24	11	23	16	25	15	27	15	25	18	26	16	25	15	24	14	28	16	28	14	28	11	27	10	31	7	32	11	32	10	4	4	1	7	1	4	281	11.7	26
" 15	3	5	2	6	32	7	2	10	1	11	32	11	3	5	2	4	2	2	26	10	25	7	26	4	1	6	2	8	32	10	32	11	32	10	32	10	32	6	32	5	1	8	1	7	2	8	7	19	190	7.9	1
" 16	7	18	7	17	7	21	7	27	7	30	7	30	7	33	6	31	6	35	7	36	7	32	7	35	7	36	7	32	7	33	7	34	7	29	7	30	7	29	7	31	7	30	7	30	7	30	7	29	718	29.9	7
" 17	7	37	7	30	7	33	7	32	7	30	6	22	6	19	7	16	8	12	7	4	...	0	...	0	4	3	32	10	32	14	32	10	32	9	32	7	32	14	32	19	1	10	2	11	32	13	32	10	365	15.2	5
" 18	32	4	1	9	1	11	1	16	1	8	32	11	1	11	32	7	32	14	32	12	32	15	1	12	1	14	32	13	32	15	32	15	32	15	1	13	1	15	1	17	3	12	3	16	1	14	1	14	303	12.6	1
" 19	1	10	2	6	32	5	4	8	2	10	5	11	4	13	4	13	7	14	7	11	5	11	3	9	5	10	4	11	5	10	3	7	32	7	4	9	5	13	5	13	4	14	7	17	6	18	7	28	278	11.6	5
" 20	7	29	5	25	7	26	7	26	7	27	7	28	7	31	7	31	7	30	7	30	7	33	7	28	6	28	7	25	7	23	6	20	7	18	7	21	7	16	7	17	7	15	7	19	7	23	7	22	591	24.6	7
" 21	7	17	7	14	9	14	9	16	9	16	9	15	8	13	8	14	8	14	10	13	10	11	9	11	9	9	9	6	26	10	24	10	28	17	28	14	28	17	28	15	29	12	28	16	28	11	32	12	317	13.2	5
" 22	32	11	32	13	1	16	2	11	32	8	32	11	1	11	2	3	4	3	4	5	4	6	6	6	5	6	5	11	8	14	6	11	7	11	6	10	5	9	5	9	7	12	7	13	7	16	6	14	240	10.0	4
" 23	4	12	7	15	6	20	7	27	7	26	6	21	7	20	7	20	7	21	7	20	7	19	7	15	9	14	9	14	9	10	8	6	29	7	27	7	26	6	26	4	26	5	26	2	26	3	25	5	319	13.3	7
" 24	23	5	26	9	24	10	23	8	23	7	23	4	27	4	...	1	24	6	29	5	24	6	32	9	22	5	21	6	24	10	22	7	...	1	22	2	9	10	9	10	6	6	7	5	6	7	2	5	148	6.2	25
" 25	1	7	2	6	2	6	2	4	3	4	3	5	1	11	6	7	5	4	9	9	9	14	11	14	9	17	10	19	10	17	10	14	10	13	9	12	9	10	10	9	6	5	...	1	...	1	...	0	209	8.7	8
" 26	...	1	11	3	...	0	...	1	...	0	12	3	12	3	8	15	9	19	9	11	11	19	10	14	10	12	9	15	9	20	9	16	9	14	10	13	11	10	11	6	10	4	6	3	7	3	6	4	209	8.7	9
" 27	7	8	7	8	10	17	8	20	8	20	9	22	9	25	9	25	9	24	9	24	8	23	8	20	8	23	8	21	8	19	8	20	9	20	9	20	8	18	8	20	7	18	8	17	8	20	9	19	471	19.6	8
" 28	7	17	9	18	8	17	7	17	8	19	8	19	8	13	7	16	7	12	11	6	16	14	16	16	17	9	16	15	16	15	16	19	16	20	16	19	16	17	16	14	16	12	15	14	16	10	16	13	361	15.0	13
" 29	16	16	16	13	17	14	16	9	16	11	17	9	16	7	17	10	17	13	16	10	16	15	16	16	16	13	16	13	16	14	16	12	16	11	16	11	16	10	16	9	17	10	16	13	16	9	17	9	277	11.5	16
" 30	16	8	17	10	16	13	17	11	16	12	15	14	16	11	16	5	15	11	5	15	8	23	8	25	8	28	9	30	8	27	8	31	9	26	8	27	8	26	8	27	8	24	8	26	8	22	8	23	475	19.8	9
" 31	7	20	8	20	7	20	7	18	6	22	7	18	7	17	5	16	7	16	7	10	5	12	6	9	10	8	9	12	12	8	13	7	5	9	5	9	9	7	5	10	7	8	4	8	14	11	4	6	301	12.5	7
Sums	...	428	...	429	...	456	...	493	...	486	...	490	...	471	...	467	...	481	...	475	...	522	...	501	...	478	...	491	...	491	...	480	...	462	...	457	...	450	...	439	...	404	...	415	...	423	...	448	11137	464.0	...
Means	...	13.8	...	13.8	...	14.7	...	15.9	...	15.7	...	15.8	...	15.2	...	15.1	...	15.5	...	15.3	...	16.8	...	16.2	...	15.4	...	15.8	...	15.8	...	15.5	...	14.9	...	14.7	...	14.5	...	14.2	...	13.0	...	13.4	...	13.6	...	14.5	359.3	15.0	...

TABLE VIII.

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
1897.												
Jan. 1, ...	0	...	...	0	...	...	1	cum.	E	6	cum.	E
„ 2, ...	10	str-cum.	...	10	str-cum.	...	10	cum.	E	9	sm-cum. / cum.	E
„ 3, ...	10	str-cum.	...	10	sm-cum.	NW	6	sm-cum. / cum.	SE	2	sm-cum. / cum.	SE
„ 4, ...	0	...	...	7	cum.	...	0	...	...	2	sm-cum. / cum	ESE
„ 5, ...	0	...	...	10	cum.	...	4	sm-cum. / cum.	ESE	5	c-str. / cum.	WSW / ESE
„ 6, ...	8	cum.	...	10	str-cum.	...	2	cum.	SSE	8	cum.	SW
„ 7, ...	7	cum.	...	10	str-cum.	...	0	...	...	0	...	...
„ 8, ...	10	str-cum.	...	10	nim.	...	5	sm-cum. / cum.	SSW / ..	9	sm-cum. / cum.	SW / E
„ 9, ...	10	str-cum.	...	6	cum.	...	7	sm-cum.	W	10	cum.	E
„ 10, ...	10	cum.	...	10	cum.	...	9	sm-cum. / cum.	E	10	R-cum.	E
„ 11, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	nim.	ENE
„ 12, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	R-cum.	E
„ 13, ...	10	nim.	SSW	10	nim.	...	10	nim.	E	10	nim.	SE
„ 14, ...	10	nim.	SW	10	cum-nim.	...	7	sm-cum. / cum.	SSW / ..	8	sm-cum. / cum.	SW / NE
„ 15, ...	0	...	...	0	...	...	10	cum.	...	10	str-cum.	...
„ 16, ...	10	cum.	...	10	cum.	...	9	sm-cum. / R-cum.	E	10	str-cum.	E
„ 17, ...	10	str-cum.	...	10	cum.	...	10	cum.	ENE	10	nim.	ENE
„ 18, ...	10	nim.	...	10	str-cum.	...	10	sm-cum.	W	10	sm-cum.	W
„ 19, ...	10	sm-cum.	W	7	sm-cum.	W	10	sm-cum. / cum.	...	10	str-cum.	...
„ 20, ...	9	sm-cum.	W	10	sm-cum.	W	10	sm-cum. / cum.	W / ENE	10	sm-cum. / cum.	E
„ 21, ...	10	cum.	...	10	sm-cum.	NW	8	sm-cum.	NW	9	sm-cum.	WNW
„ 22, ...	10	cum.	SE	10	str-cum.	...	10	R-cum.	ENE	10	cum.	ESE
„ 23, ...	10	cum.	...	10	cum.	ESE	9	str-cum.	E	10	sm-cum. / cum.	SSW / E
„ 24, ...	10	cum.	S	10	sm-cum.	SW	10	sm-cum.	S	10	sm-cum.	SSW
„ 25, ...	10	str-cum.	SW	10	str-cum.	WSW	0	...	...	0	...	...
„ 26, ...	1	cum.	...	0	...	...	9	sm-cum.	...	1	sm-cum.	...
„ 27, ...	10	str-cum.	...	10	sm-cum.	W	9	sm-cum. / cum.	E	9	sm-cum. / cum.	W / ESE
„ 28, ...	10	cum-nim.	...	10	cum.	...	10	nim.	S	9	cum.	S
„ 29, ...	10	cum.	SW	10	cum.	SSW	9	cum. / cum-nim.	SSW	7	c-cum. / cum.	SW
„ 30, ...	10	cum.	SW	10	cum-nim.	SW	10	nim.	S	10	nim.	S
„ 31, ...	10	cum-nim.	...	10	str-cum.	...	10	fog	E	10	cum. / fog.	E
Means, ...	8.2	...	...	8.7	...	...	7.5	...	...	7.9	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Jan. 1,...	0	...	...	4	cum.	SE	4	cum.	...	10	str-cum.	...	3.1
„ 2,...	1	sm-cum.	SSE	8	sm-cum.	SSE	7	cum.	...	7	cum.	...	7.7
„ 3,...	2	c-cum.	SE	0	...	...	0	...	...	0	...	...	3.8
„ 4,...	8	sm-cum.	ESE	7	sm-cum. / cum.	ENE	1	cum.	...	0	...	...	3.1
„ 5,...	4	c-cum. / cum.	...	8	c-cum. / cum.	W / E	0	...	...	10	str-cum.	...	5.1
„ 6,...	10	cum.	WSW	2	cum.	...	0	...	...	0	...	...	5.0
„ 7,...	0	...	...	0	...	...	0	...	...	7	cum.	...	3.0
„ 8,...	9	sm-cum. / cum.	W / E	9	sm-cum. / cum.	WSW / E	9	sm-cum. / cum.	SW / E	9	cum.	E	8.7
„ 9,...	10	cum.	E	9	str-cum.	E	10	str-cum.	ENE	10	str-cum.	ENE	9.0
„ 10,...	10	R-cum.	ENE	10	R-cum.	ENE	10	str-cum.	...	10	cum-nim.	...	9.9
„ 11,...	10	nim.	ENE	10	nim.	E	10	str-cum.	...	10	cum-nim.	...	10.0
„ 12,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10 0
„ 13,...	10	cum-nim.	...	10	nim.	ESE	10	sm-cum. / cum.	SSE	9	cum.	S	9.9
„ 14,...	10	sm-cum. / cum.	SW / ..	10	sm-cum. / cum.	NE	9	R-cum.	NE	1	sm-cum.	...	8.1
„ 15,...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10	str.	...	7.5
„ 16,...	10	sm-cum. / cum.	E	10	cum.	E	10	str.	E	10	cum-nim.	E	9.9
„ 17,...	10	str-cum.	NNE	10	R-cum.	NNE	10	str-cum.	...	10	str-cum.	...	10.0
„ 18,...	10	str-cum.	...	10	sm-cum. / cum.	...	6	sm-cum.	W	9	sm-cum.	W	9.4
„ 19,...	10	str-cum.	...	10	str-cum.	ENE	10	cum.	...	10	cum.	...	9.6
„ 20,...	10	sm-cum. / cum.	E	9	cum.	E	10	str-cum.	...	10	cum.	E	9.8
„ 21,...	10	sm-cum.	WNW	6	sm-cum.	...	1	cum.	...	9	cum.	...	7.9
„ 22,...	10	str-cum.	ESE	8	cum.	SSE	10	str-cum.	...	10	str-cum.	SE	9.7
„ 23,...	10	sm-cum.	SSW	10	sm-cum. / cum.	SSW / NNE	6	sm-cum.	SW	10	str-cum.	...	9.4
„ 24,...	10	sm-cum.	SSW	10	sm-cum.	WSW	8	cum.	...	9	cum.	...	9.6
„ 25,...	0	...	...	2	sm-cum.	N	0	...	...	0	...	...	2.8
„ 26,...	0	...	...	0	...	...	0	...	...	0	...	...	1.4
„ 27,...	6	sm-cum.	W	10	str-cum.	SE	10	str-cum.	...	10	str-cum.	...	9.2
„ 28,...	10	cum.	S	9	sm-cum. / cum.	W / S	10	R-cum.	...	10	cum.	...	9.8
„ 29,...	7	cum.	SW	9	cum.	SSW	10	cum.	SSW	1	cum.	...	7.9
„ 30,...	10	nim.	S	10	cum-nim.	S	5	cum.	S	10	str-cum.	...	9.4
„ 31,...	7	cum.	S	9	cum.	S	10	cum.	...	10	cum.	...	9.5
Means,...	7.5	...	...	7.7	...	...	6.6	...	...	7.5	...	...	7.7

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JANUARY, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.5	11.1	1.1	0.4	+ 2.4	+ 10.7	E 12° N
2 „	3.3	11.1	1.1	0.5	2.2	10.6	E 12° N
3 „	3.5	11.7	1.2	0.7	2.3	11.0	E 12° N
4 „	3.3	13.2	1.2	0.7	2.1	12.5	E 10° N
5 „	3.0	12 9	1.4	0.7	1.6	12.2	E 7° N
6 „	3.0	12.9	1.7	0.6	1.3	12.3	E 6° N
7 „	3.1	12.8	1.2	0.5	1.9	12.3	E 9° N
8 „	2.8	13.1	1.2	0.6	1.6	12.5	E 7° N
9 „	2.3	13.2	1.5	0.7	0.8	12.5	E 4° N
10 „	2.7	12.9	1.4	1.0	1.3	11.9	E 6° N
11 „	2.6	13.3	2.5	1.2	0.1	12.1	E
Noon.	2.6	12.6	2.5	0.9	+ 0.1	11.7	E
1 p.	2.2	12.6	2.3	0.9	− 0.1	11.7	E 1° S
2 „	2.2	12 6	2.6	0.7	0.4	11.9	E 2° S
3 „	2.3	12.1	2.5	1.0	− 0.2	11.1	E 1° S
4 „	2.6	11.9	2.3	0.8	+ 0.3	11.1	E 2° N
5 „	3.4	10.9	2.2	0.8	1.2	10.1	E 7° N
6 „	3.0	11.3	2.3	0.8	0.7	10.5	E 4° N
7 „	2.9	11.0	2.1	0.6	0.8	10.4	E 5° N
8 „	3.5	10.3	2.0	0.5	1.5	9.8	E 9° N
9 „	3.1	10.0	2.0	0.5	1.1	9.5	E 7° N
10 „	2.8	10.8	1.7	0.4	1.1	10.4	E 6° N
11 „	3.1	10.5	1.5	0.5	1.6	10.0	E 9° N
Midt.	3.2	11.4	1.6	0.3	+ 1.6	+ 11.1	E 8° N
Means, ...	2.9	11.9	1.8	0.7	+ 1.12	+ 11.25	E 6° N

PHENOMENA :—

Thick fog :—on the 7th and 31st.

Fog :—on the 6th, 13th and 28th.

Dew :—on the 5th, 6th, 7th, 8th, 25th and 26th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF FEBRUARY, 1897.

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,...	29.858	29.855	29.848	29.845	29.842	29.851	29.881	29.909	29.910	29.913	29.887	29.860	29.834	29.822	29.810	29.804	29.833	29.850	29.862	29.888	29.897	29.913	29.931	29.936	29.868
„ 2,...	.934	.938	.947	.954	.950	.983	30.014	30.058	30.059	30.071	30.064	30.042	30.012	.994	.979	.984	.999	30.007	30.009	30.022	30.027	30.024	30.012	30.003	30.004
„ 3,...	.986	.995	.990	.978	.984	30.001	.005	.023	.030	.034	.022	.005	29.980	.948	.938	.937	.950	29.955	29.965	29.985	.006	.010	.012	.025	29.990
„ 4,...	30.011	30.003	30.000	.995	.999	.023	.037	.070	.084	.102	.099	.082	30.065	30.050	30.041	30.059	30.089	30.098	30.111	30.117	.117	.134	.120	.109	30.067
„ 5,...	.090	.088	.079	30.041	30.042	.045	.050	.087	.127	.163	.139	.102	.074	.044	.049	.071	.082	.086	.108	.134	.172	.166	.160	.155	.098
„ 6,...	.150	.145	.145	.140	.145	.155	.170	.158	.172	.177	.150	.127	.094	.069	.061	.062	.059	.063	.071	.089	.084	.087	.085	.085	.114
„ 7,...	.080	.065	.045	.045	.045	.055	.074	.077	.103	.098	.099	.068	.015	29.991	29.977	29.983	29.999	.004	.019	.036	.055	.051	.040	.040	.044
„ 8,...	.040	.035	.030	.015	.005	.030	.052	.051	.068	.068	.057	.031	29.988	.966	.954	.952	.958	29.964	29.968	29.986	.004	29.996	29.990	29.985	.008
„ 9,...	29.980	29.980	29.980	29.980	29.985	29.995	.020	.044	.052	.048	.039	.007	.980	.964	.940	.946	.956	.981	.992	30.016	.031	30.044	30.045	30.040	.002
„ 10,...	30.040	30.035	30.035	30.045	30.065	30.085	.119	.121	.141	.157	.145	.145	30.121	30.100	30.119	30.140	30.158	30.173	30.201	.219	.244	.252	.255	.260	.141
„ 11,...	.260	.255	.255	.250	.275	.290	.306	.349	.357	.368	.353	.330	.298	.271	.255	.254	.261	.266	.288	.300	.307	.310	.305	.300	.294
„ 12,...	.300	.295	.290	.300	.305	.320	.338	.348	.347	.351	.341	.312	.295	.260	.249	.236	.241	.241	.255	.262	.270	.275	.280	.285	.291
„ 13,...	.270	.260	.250	.245	.230	.240	.258	.257	.278	.282	.277	.236	.210	.167	.151	.138	.132	.148	.148	.160	.164	.186	.180	.180	.210
„ 14,...	.165	.150	.135	.115	.115	.125	.142	.132	.164	.171	.162	.130	.081	.064	.048	.026	.021	.023	.023	.028	.028	.026	.020	.015	.088
„ 15,...	.010	.010	29.980	29.965	29.975	29.980	.003	.025	.038	.032	.029	.004	29.976	29.954	29.937	29.909	29.915	29.923	29.949	29.965	29.990	29.989	29.985	29.985	29.980
„ 16,...	29.985	29.985	.985	.980	.985	30.015	.035	.053	.082	.086	.081	.058	30.036	30.015	.986	.982	.996	30.016	30.027	30.056	30.078	30.098	30.100	30.100	30.034
„ 17,...	30.095	30.095	30.075	30.070	30.075	.100	.134	.162	.168	.187	.174	.159	.136	.116	30.088	30.092	30.098	.112	.140	.154	.162	.164	.165	.160	.128
„ 18,...	.155	.130	.105	.085	.105	.110	.128	.135	.153	.154	.146	.107	.079	.051	.031	.034	.032	.031	.036	.053	.056	.075	.060	.050	.088
„ 19,...	.035	.040	.030	.030	.035	.055	.061	.075	.088	.069	.083	.067	.032	.024	.006	29.986	.005	.000	.021	.041	.064	.087	.085	.090	.046
„ 20,...	.080	.080	.075	.070	.075	.085	.107	.114	.119	.122	.111	.100	.074	.040	.031	30.038	.020	.044	.048	.072	.080	.072	.085	.075	.076
„ 21,...	.075	.060	.055	.065	.060	.080	.089	.103	.101	.106	.087	.062	.028	.006	29.989	29.987	29.994	.010	.030	.038	.046	.048	.050	.050	.051
„ 22,...	.040	.030	.025	.025	.025	.040	.075	.065	.076	.062	.067	.040	.008	29.970	.926	.934	.968	29.977	29.976	29.992	29.997	.009	.010	.000	.014
„ 23,...	.005	.000	29.995	.000	29.985	.015	.031	.069	.031	.018	.016	.007	29.986	.967	.931	.916	.942	.942	.969	.960	30.004	.015	29.990	.005	29.992
„ 24,...	.000	29.990	.980	29.945	.960	29.955	29.972	.002	.008	.021	.029	29.982	.944	.917	.901	.893	.922	.928	.926	.938	29.966	29.972	.970	29.980	.963
„ 25,...	29.980	.970	.950	.940	.930	.940	.956	29.967	29.983	29.983	29.965	.939	.892	.866	.825	.831	.840	.838	.840	.860	.861	.859	.855	.845	.905
„ 26,...	.840	.830	.825	.820	.820	.840	.853	.863	.875	.882	.866	.854	.828	.798	.775	.783	.781	.790	.803	.832	.845	.856	.855	.845	.832
„ 27,...	.840	.840	.840	.835	.860	.870	.897	.917	.933	.937	.948	.922	.884	.870	.848	.866	.864	.883	.900	.920	.926	.934	.930	.930	.891
„ 28,...	.930	.925	.920	.920	.925	.935	.952	.959	.974	.986	.974	.944	.908	.890	.866	.854	.866	.866	.870	.888	.889	.906	.915	.920	.916
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	30.044	30.039	30.031	30.025	30.029	30.044	30.063	30.078	30.090	30.095	30.086	30.062	30.031	30.007	29.990	29.989	29.999	30.008	30.020	30.036	30.049	30.056	30.053	30.052	30.041

During the period February 5th 10 a. to 28th midnight, owing to defective photographs, the eye observations from 7 a. to 10 p. inclusive have been entered as read; from 11 p. to 6 a. inclusive the readings from the barograms are given to the nearest 0.005 only.

TABLE II.

TEMPERATURE FOR THE MONTH OF FEBRUARY, 1897.

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.
Feb. 1,.....	71.4	70.0	69.0	67.9	67.5	66.6	66.8	67.7	68.9	69.7	72.4	75.3	75.2	72.9	75.8	75.1	66.2	65.0	64.8	64.5	64.3	63.2	62.9	61.8	68.5	76.7	61.8
„ 2,.....	60.6	59.9	58.7	57.9	56.5	55.3	55.8	55.8	57.6	58.4	60.6	59.8	59.4	59.0	58.4	58.3	58.0	56.6	57.3	57.7	57.4	57.2	56.9	56.7	57.9	61.8	54.6
„ 3,.....	56.5	56.3	55.8	55.7	55.8	55.8	56.6	56.4	56.9	57.0	57.0	56.8	56.7	57.8	56.2	55.2	54.2	54.2	54.3	54.6	54.4	54.1	54.5	54.5	55.7	57.8	54.1
„ 4,.....	54.0	53.1	52.8	52.2	52.1	52.5	52 6	52.8	51.8	52.4	52.8	51.0	50.6	50.9	50.3	50.4	48.4	48.3	48.8	49.5	50.2	50.0	51.1	51.8	51.3	54.5	48.0
„ 5,.....	52.4	51.1	51.5	51.9	51.2	51.2	51.4	50.7	48.6	48.9	49.8	50.8	50.7	50.3	50.0	48.6	49.1	48.2	47.8	48.8	49.1	49.1	48.2	48.4	49.9	52.4	47.6
„ 6,.....	49.6	48.8	48.5	48.7	47.7	47.5	48.2	49.3	50.9	51.6	52.0	52.6	52.8	51.9	52.3	53.0	54.7	55.2	54.8	54.7	54.1	54.5	54.5	53.8	51.7	55 2	47.5
„ 7,.....	53.6	53.6	54.1	54.2	54.4	54.8	54.6	56.2	55.2	55.0	54.8	55.1	55.8	55.6	55.3	55.0	55.5	55.4	55.2	55.0	54.9	54.7	54.0	54 2	54.8	56.2	52.6
„ 8,.....	54.1	54.2	53.9	53.8	53.7	54.4	54.6	54.6	54.9	55.8	56.1	56.0	56.6	57.6	57.2	57.6	57.1	56.8	56.7	55.5	55.8	55.5	56.3	56.1	55.6	57.7	53.0
„ 9,.....	56.0	55.8	55.6	55.4	55.2	54.8	54.5	54.5	55.2	55.7	55.5	56.8	56.6	56.6	56.2	55.8	54.0	52.8	52.5	52.1	52.1	51.8	51.0	51.0	54.5	56.8	50.8
„ 10,.....	51.0	50.9	50.8	50.4	50.2	49.4	48.4	48.0	47.5	46.8	47.0	47.4	47.5	46.2	45.8	45.2	45.8	45.9	45.5	45.5	45.4	45.1	44.7	43.8	47.3	51.4	43.7
„ 11,.....	43.0	42.5	42.1	41.4	41.0	41.9	41.8	42.8	45.8	46.5	48.4	50.8	52.5	54.0	53.5	53.8	52.0	50.7	50.2	49.8	48.8	48.7	47.6	46.7	47.3	54.5	41.0
„ 12,.....	46.7	45.8	44.7	43.8	42.8	42.3	43.0	47.3	48.5	49.1	50.5	51.0	51.6	51.5	51.3	51.6	50.5	49.7	50.0	49.9	50.0	49.2	49.9	49.6	48.3	52.5	41.4
„ 13,.....	50.6	50.0	49.6	49.9	50.8	50.4	50.1	51.4	52.0	52.9	53.9	55.5	55.1	54.8	54.6	54.5	53.8	53.6	53.9	54.2	54.8	55.2	55.2	55.3	53.0	56.0	48.9
„ 14,.....	54.8	54.7	54.4	54.3	54.3	54.1	54.6	54.4	55.6	56.0	56.5	58.1	58.5	57.8	58.7	58.2	57.8	56.9	56.6	56.5	56.9	57.2	57.3	57.7	56.3	59.1	54.1
„ 15,.....	58.1	58.3	58.2	58.3	59.0	59.5	60.1	60.8	61.4	61.5	63.4	64.5	65.2	65.8	66.4	65.9	64.8	63.8	61.9	60.4	60.0	60.1	60.2	59.9	61.6	66.8	57.7
„ 16,.....	59.8	59.9	59.6	59.5	59.2	58.8	59.4	60.8	61.3	62.8	62.2	62.8	62.8	63.1	64.8	61.0	58.6	58.0	57.8	58.0	58.0	57.3	56.6	56.0	59.9	64.8	56.0
„ 17,.....	55.7	55.8	55.1	54.9	54.8	54.8	54.7	53.9	54.6	54.2	54.8	55.8	53.7	53.7	54.2	54.1	53.3	52.0	51.9	51.3	51.2	50.7	51.0	49.9	53.6	56.0	49.9
„ 18,.....	50.4	51.1	50.8	50.2	49.2	49.2	49.1	51.0	50.9	50.0	52.5	53.0	54.8	54.2	53.8	52.1	50.5	50.2	50.2	49.9	49.8	48.9	48.4	48.1	50.8	55.5	48.1
„ 19,.....	48.0	47.8	47.1	46.5	46.3	46.3	45.9	46.6	47.3	49.1	50.1	49.8	50.6	50.0	49.6	48.6	47.5	47.8	47.2	47.2	47.1	46.5	45.4	45.9	47.7	51 0	45.2
„ 20,.....	45.8	45.2	45.3	46.4	46.6	47.0	47.8	48.1	49.0	50.2	50.9	51.3	51.4	52.5	52.5	51.8	50.6	50.0	50.1	50.0	49.9	50.0	48.5	47.8	49.1	52.8	44.7
„ 21,.....	47.9	47.3	48.4	48.0	47.4	47.3	47.8	48.5	49.6	49.6	51.6	52.1	52.2	53.0	53.0	52.8	51.8	51.4	51.9	50.0	50.7	51.0	51.3	50.6	50.2	53.5	47.3
„ 22,.....	50.0	50.0	49.6	49.5	49.2	49.4	49.8	49.9	50.5	51.8	53.5	54.2	54.6	54.4	55.7	56.1	54.4	53.8	54.4	54.9	54.3	54.1	54.2	54.2	52.6	57.8	48.4
„ 23,.....	54.3	54.0	54.1	53.5	53.3	53.2	52.6	52.6	53.4	55.4	55.0	55.5	55.6	55.5	55.2	56.0	55.2	54.5	55.5	55.2	55.6	55.4	55.4	55.7	54.7	56.0	52.4
„ 24,.....	56.0	55.8	55.7	55.7	55.5	55.5	55.9	56.2	58.0	58.8	57.8	58.6	61.0	62.1	61.7	60.5	59.8	58.7	58.5	59.8	60.1	59.9	59.7	58.7	58.3	62.2	54.9
„ 25,.....	58.3	57.8	57.6	57.6	58.0	58.1	57.4	58.6	58.6	58.4	58.4	59.3	59.6	59.9	60.4	59.8	58.7	58.0	57.3	56.8	57.1	57.1	57.5	57.1	58.2	60.4	56.6
„ 26,.....	56.6	57.1	56.6	55.8	55.8	55.8	55.3	55.6	55.8	56.2	55.4	55.4	55.3	55.1	55.6	56.1	56.6	56.2	56.9	57.2	57.6	57.6	56.9	57.2	56.2	57.9	54.8
„ 27,.....	56.9	56.7	56.7	56.3	55.8	55.3	55.3	55.2	55.4	55.2	55.2	55.2	55.6	54.9	54.6	54.8	55.2	55.0	54.7	54.5	55.1	55.0	54.9	54.8	55.3	57.3	54.2
„ 28,.....	55.0	55.2	54.7	54.6	54.6	54.7	54.8	55.0	55.9	57.1	57.4	58.0	58.3	58.1	57.2	57.2	56.5	55.6	55.6	56.0	55.9	56.4	56.5	56.6	56.1	58.4	54.6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	53.8	53.5	53.2	53.0	52.8	52.7	52.8	53.4	54.0	54.5	55.2	55.8	56.1	56.0	56.1	55.7	54.7	54.1	54.0	53.9	53.9	53.8	53.6	53.4	54.2	57.6	50.9

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF FEBRUARY, 1897.

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, ...	70.2	69.3	68.5	67.6	67.1	66.2	66.3	66.9	67.8	67.9	69.9	71.2	71.2	70.6	71.8	70.7	65.2	63.8	63.4	63.2	62.6	60.8	60.1	57.4	66.7	119.2
„ 2, ...	56.1	55.5	54.2	53.3	52.5	52.0	51.7	51.6	53.6	53.9	55.6	54.6	54.6	53.7	53.2	53.3	52.9	52.3	53.5	53.5	55.2	54.6	54.8	54.9	53.8	104.6
„ 3, ...	54.8	54.7	54.6	54.3	54.3	54.2	54.6	54.0	54.5	54.3	54.6	54.3	54.6	55.4	54.4	54.2	53.1	53.3	53.2	53.2	53.2	53.0	53.1	53.4	54.1	74.7
„ 4, ...	52.6	52.3	51.3	50.8	50.1	50.4	49.6	50.6	50.4	49.8	50.2	49.2	48.6	49.3	48.3	47.7	45.9	45.8	46.0	47.0	47.2	47.1	48.1	48.7	49.0	65.5
„ 5, ...	49.1	48.3	48.5	48.8	48.6	48.5	49.3	49.5	47.4	47.9	48.0	47.6	47.0	46.8	47.6	47.2	47.1	45.3	44.7	46.2	47.2	47.3	47.1	46.6	47.6	81.0
„ 6, ...	47.6	47.1	46.6	46.6	46.6	46.6	46.0	46.9	48.3	48.6	49.6	49.6	50.4	49.9	49.9	50.0	51.5	51.4	51.2	52.3	51.6	52.3	52.4	51.6	49.4	64.9
„ 7, ...	51.7	51.6	52.0	51.8	52.6	52.6	52.2	52.9	53.3	54.0	54.2	53.9	54.6	54.7	54.3	54.0	54.9	54.2	53.8	53.6	53.8	53.6	52.3	53.1	53.3	81.8
„ 8, ...	52.8	52.7	52.1	52.0	51.9	51.8	52.6	53.0	53.6	53.9	54.0	54.5	54.3	54.7	54.6	54.7	54.3	55.3	54.8	55.0	55.0	54.8	54.0	54.7	53.8	85.0
„ 9, ...	54.7	54.9	54.4	53.9	53.7	52.8	53.5	53.3	53.6	53.7	53.3	54.1	53.6	53.7	53.3	52.9	51.8	50.7	50.4	50.2	50.0	49.9	48.6	48.6	52.5	74.6
„ 10, ...	48.6	48.4	47.6	46.6	45.6	44.8	43.7	43.3	44.5	41.5	41.8	42.7	43.6	42.3	42.4	42.8	40.9	40.2	40.6	39.6	39.6	39.5	41.0	39.6	43.0	58.5
„ 11, ...	37.6	36.8	36.1	35.2	34.4	34.5	34.0	35.9	36.5	37.1	37.3	39.5	40.2	41.6	41.2	41.2	40.0	39.8	39.6	39.4	38.8	38.9	37.8	37.6	38.0	111.4
„ 12, ...	37.0	35.6	35.8	35.6	35.6	35.4	35.6	39.0	38.8	39.1	40.3	40.8	41.6	42.6	42.4	42.7	42.8	42.5	43.1	43.6	44.2	43.5	44.0	44.8	40.3	119.9
„ 13, ...	44.7	45.5	44.9	45.8	46.0	46.2	46.0	46.5	46.7	46.3	46.1	46.9	47.6	48.2	48.2	47.9	47.8	48.0	48.7	48.9	49.3	49.2	49.4	50.0	47.3	122.5
„ 14, ...	50.1	49.7	49.8	49.6	49.8	49.3	49.5	50.3	50.5	51.1	51.4	51.9	52.4	52.0	52.5	52.9	52.6	52.8	52.9	52.9	53.2	54.0	54.2	54.3	51.7	121.0
„ 15, ...	54.0	54.9	55.2	55.5	55.6	56.1	56.6	57.3	57.6	58.2	59.6	60.0	60.3	60.2	61.6	60.7	59.4	58.8	57.9	57.2	57.2	56.6	56.5	56.1	57.6	132.9
„ 16, ...	55.5	55.0	55.1	55.7	55.4	55.0	56.6	59.7	58.6	59.1	58.9	58.4	58.8	59.2	59.7	57.8	56.2	56.1	55.9	55.9	55.8	55.6	54.9	54.5	56.8	123.1
„ 17, ...	54.5	54.5	54.6	54.1	53.8	54.0	53.7	53.2	53.3	52.7	52.5	53.1	52.6	51.1	51.6	50.3	49.0	47.9	48.1	48.2	48.0	47.6	48.4	47.5	51.4	73.6
„ 18, ...	47.2	48.2	48.1	47.3	46.8	46.2	46.9	49.4	48.3	46.4	48.6	49.3	49.9	49.5	48.9	48.0	46.8	46.6	46.6	46.8	46.7	46.8	46.3	46.4	47.6	98.2
„ 19, ...	45.6	45.6	45.2	44.6	44.4	44.4	44.5	44.0	44.6	45.3	46.0	44.7	45.1	44.5	43.9	43.6	42.6	43.1	43.0	43.2	43.2	43.8	44.1	44.2	44.3	77.5
„ 20, ...	43.9	43.2	43.1	44.1	44.4	44.7	45.2	46.3	46.9	47.5	47.7	48.1	48.0	48.3	47.6	47.5	46.3	46.2	46.3	46.6	46.8	46.9	46.6	46.1	46.2	72.5
„ 21, ...	46.1	45.7	46.6	46.8	45.9	46.1	46.6	47.5	48.0	47.9	49.6	49.6	50.0	50.5	50.2	50.2	49.6	49.7	49.8	48.9	48.7	48.9	49.3	49.0	48.4	71.7
„ 22, ...	48.9	48.8	48.3	47.7	47.8	47.9	48.0	48.3	48.7	49.2	50.7	51.4	51.4	51.0	51.9	52.3	50.7	50.3	50.3	50.4	49.9	50.2	51.1	51.2	49.8	107.3
„ 23, ...	51.2	51.3	51.2	51.0	51.2	51.0	50.6	51.3	51.6	52.2	51.7	52.4	52.6	52.2	52.5	52.3	52.7	52.4	52.8	52.8	53.0	53.0	53.1	53.2	52.1	98.5
„ 24, ...	53.0	52.7	52.8	53.0	53.2	53.2	52.9	53.3	54.3	54.7	54.9	55.5	56.8	58.0	57.9	57.3	57.3	56.7	56.8	57.9	58.6	58.5	58.5	58.0	55.7	91.1
„ 25, ...	57.5	57.2	57.1	57.3	57.8	57.8	57.2	57.9	57.6	57.5	57.6	58.3	58.2	58.6	58.9	58.1	57.9	57.4	56.7	56.4	56.4	56.5	56.3	56.6	57.5	98.7
„ 26, ...	56.2	56.6	56.0	55.6	55.6	55.4	54.5	54.4	54.6	54.6	54.3	54.2	54.3	54.2	54.3	54.1	54.4	54.6	54.4	54.8	55.6	55.7	55.6	55.7	55.0	98.3
„ 27, ...	55.5	55.6	55.4	55.3	54.8	54.7	54.8	54.6	54.7	54.3	54.5	54.2	54.7	54.6	54.3	54.1	54.2	54.3	54.1	54.3	54.6	54.5	54.5	54.4	54.6	73.8
„ 28, ...	54.4	54.4	54.3	54.3	54.2	54.1	53.9	54.0	54.6	54.7	55.2	55.1	55.4	55.6	54.9	55.2	55.0	55.0	54.6	55.8	55.6	55.9	56.0	56.4	54.9	123.2
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	51.1	50.9	50.7	50.5	50.3	50.2	50.2	50.9	51.2	51.2	51.7	52.0	52.2	52.2	52.2	51.9	51.2	50.9	50.8	51.0	51.1	51.0	51.0	50.9	51.1	93.8

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF FEBRUARY, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	82	0.350	Feb. 1,.....	91	0.632
2 „	82	.348	„ 2,.....	75	.362
3 „	83	.347	„ 3,.....	90	.399
4 „	83	.344	„ 4,.....	84	.318
5 „	83	.342	„ 5,.....	84	.301
6 „	83	.341	„ 6,.....	84	.324
7 „	82	.339	„ 7,.....	90	.388
8 „	83	.350	„ 8,.....	89	.392
9 „	81	.350	„ 9,.....	87	.370
10 „	78	.344	„ 10,.....	68	.222
11 „	78	.348	„ 11,.....	33	.108
Noon.	76	.348	„ 12,.....	43	.147
1 p.	76	.349	„ 13,.....	62	.252
2 „	76	.351	„ 14,.....	71	.324
3 „	76	.349	„ 15,.....	77	.424
4 „	76	.346	„ 16,.....	81	.422
5 „	77	.341	„ 17,.....	85	.352
6 „	79	.341	„ 18,.....	78	.289
7 „	79	.339	„ 19,.....	75	.248
8 „	81	.346	„ 20,.....	79	.276
9 „	81	.349	„ 21,.....	87	.317
10 „	81	.347	„ 22,.....	81	.322
11 „	82	.350	„ 23,.....	83	.356
Midt.	83	.350	„ 24,.....	84	.411
			„ 25,.....	96	.466
			„ 26,.....	93	.418
			„ 27,.....	96	.419
			„ 28,.....	93	.417
			.....		
			.....		
			.....		
Means,.....	80	0.346	Means.	80	0.346

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.
1897.														
Feb. 1,.....	...	...	0.1	0.5	0.2	0.2	0.5	0.5	0.2	0.5	...	...	...	2.7
„ 2,.....	...	...	...	...	...	0.2	...	...	...	...	...	...	...	0.2
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 12,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.5
„ 13,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.7	1.0	0.1	...	8.8
„ 14,.....	...	...	...	...	0.1	0.7	0.6	1.0	0.6	1.0	0.9	0.4	...	5.3
„ 15,.....	...	...	...	...	...	0.4	0.8	1.0	0.6	0.9	1.0	0.7	...	5.4
„ 16,.....	...	...	...	...	...	0.6	0.3	...	...	0.8	...	...	...	1.7
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	...	...	0.1	...	0.2	...	...	...	0.3
„ 23,.....	...	...	...	0.2	...	...	...	...	...	...	...	...	...	0.2
„ 24,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	0.4	1.0	0.4	...	...	0.1	...	...	1.9
.....	...	..	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	1.5	3.1	3.8	3.3	5.5	6.2	5.9	4.4	6.1	5.0	2.6	...	47.4

TABLE VI.

RAINFALL FOR THE MONTH OF FEBRUARY, 1897.

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.
Feb. 1,	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	0.425	...	...	...	...	...	...	...	0.430	1
„ 2,	...	...	...	...	...	0.155	0.005	0.030	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	0.200	3
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.010	0.015	0.005	0.005	...	...	...	...	...	0.040	8
„ 4,	...	...	...	...	...	...	...	0.010	0.010	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	2
„ 5,	...	...	...	...	...	...	...	0.015	0.060	0.020	...	...	...	...	0.175	0.020	...	...	0.085	0.050	0.095	0.015	0.005	...	0.540	8
„ 6,	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	0.005	...	...	...	0.020	6
„ 7,	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	0.010	0.025	...	...	...	...	...	...	...	0.040	7
„ 8,	0.010	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.010	...	...	0.030	8
„ 9,	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	6
„ 10,	...	...	...	...	...	0.005	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	0.015	7
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
„ 17,	...	...	...	...	...	...	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	3
„ 18,	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.015	4
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.035	0.050	2
„ 21,	...	...	0.045	0.015	0.035	0.035	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.160	5
„ 22,	...	0.035	0.015	0.045	0.020	0.035	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.160	5
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	2
„ 25,	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	3
„ 26,	...	...	0.005	0.005	0.015	0.010	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	14
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	0.005	...	0.010	15
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	0.005	9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.010	0.040	0.070	0.075	0.070	0.245	0.065	0.080	0.075	0.025	0.005	...	0.005	0.005	0.180	0.040	0.470	0.010	0.090	0.055	0.110	0.030	0.030	0.035	1.820	120

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF FEBRUARY, 1897.

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,	15	8	18	8	5	10	6	14	4	13	6	13	6	14	6	9	5	10	6	5	10	5	19	8	25	8	25	7	26	6	19	8	22	20	23	17	23	16	25	9	32	8	32	8	32	9	32	12	245	10.2	31
" 2,	1	8	32	11	1	13	32	11	1	7	32	11	1	8	2	7	31	2	...	1	2	2	8	6	4	7	1	6	6	10	6	11	6	15	5	14	7	22	7	31	7	25	7	31	7	34	7	33	326	13.6	5
" 3,	7	39	6	[illegible]	7	31	7	32	7	37	7	32	7	32	7	32	7	30	7	27	7	23	7	20	8	11	5	8	32	8	32	7	32	9	32	3	...	0	32	6	2	3	32	5	...	1	...	1	431	18.0	6
" 4,	32	4	2	6	2	5	32	7	32	5	2	7	2	8	32	5	32	9	32	8	1	10	2	15	32	13	1	9	1	11	1	14	1	11	2	14	1	7	1	5	32	6	32	10	32	6	6	11	206	8.6	1
" 5,	5	13	1	11	32	8	5	19	5	17	5	18	6	16	3	10	1	9	1	9	2	4	1	9	32	8	2	11	32	9	31	3	31	8	1	12	32	7	1	6	30	3	8	6	32	4	4	3	223	9.3	3
" 6,	5	5	32	7	32	6	1	9	32	11	32	3	32	3	5	18	4	15	6	21	6	22	6	20	5	24	5	14	6	15	6	16	7	24	7	33	7	36	7	36	7	43	7	42	7	40	6	29	492	20.5	6
" 7,	7	30	7	38	7	33	7	30	7	35	7	28	7	29	7	30	7	28	7	22	7	24	7	24	7	23	7	16	7	18	8	14	8	10	7	12	6	9	7	11	32	6	6	7	4	10	9	10	497	20.7	7
" 8,	32	2	3	5	32	4	2	6	6	12	6	10	6	15	6	17	6	15	7	16	7	17	8	12	8	13	9	12	9	10	7	12	8	13	8	13	7	15	6	12	7	12	8	19	7	22	7	22	306	12.7	7
" 9,	6	17	5	10	7	14	5	7	...	1	1	7	7	6	32	2	31	6	9	11	32	5	8	6	10	5	...	1	7	3	5	4	2	4	32	9	32	7	2	7	1	5	1	4	32	3	1	4	148	6.2	4
" 10,	2	5	32	8	32	11	32	15	31	13	31	7	2	16	1	9	1	13	2	12	32	8	32	11	31	7	2	9	32	6	32	6	32	9	3	10	32	11	32	14	1	8	2	14	1	11	1	14	247	10.3	1
" 11,	32	14	32	13	32	19	32	27	30	10	3	20	2	31	1	33	1	28	2	25	1	31	1	28	2	23	1	24	1	18	1	21	1	19	32	13	2	15	32	15	1	22	1	27	1	25	1	24	525	21.9	1
" 12,	1	24	1	28	1	24	1	17	32	14	32	14	32	12	2	7	2	8	4	12	7	13	8	23	10	18	10	17	10	17	10	14	11	17	9	15	7	13	6	12	6	9	3	9	3	12	5	12	361	15.0	5
" 13,	6	16	6	20	7	21	6	25	5	26	6	28	6	24	6	27	7	26	7	25	9	21	10	24	10	24	9	25	9	25	10	27	9	21	7	20	8	21	7	21	7	24	7	26	7	28	6	27	572	23.8	7
" 14,	7	33	7	35	7	32	7	35	7	36	7	28	7	28	7	35	7	30	7	29	7	27	8	27	9	30	8	20	10	20	9	22	9	20	9	21	9	18	9	20	9	21	8	20	9	22	8	17	626	26.1	8
" 15,	8	20	9	14	8	17	8	18	10	15	9	17	8	18	8	16	7	14	8	18	8	18	9	18	9	16	10	16	9	14	9	18	9	19	9	16	10	15	9	19	9	17	9	18	10	21	10	20	412	17.2	9
" 16,	9	15	9	12	10	3	31	2	3	4	5	3	22	3	21	4	21	4	9	10	10	17	10	14	9	12	9	11	9	11	9	22	9	24	8	24	8	24	7	18	6	16	7	15	8	20	8	19	307	12.8	8
" 17,	6	13	6	8	10	13	6	13	7	17	6	11	32	6	4	5	3	5	32	9	32	8	1	12	1	15	1	18	3	16	1	13	2	15	32	15	32	11	32	10	32	11	32	10	32	8	32	8	270	11.3	2
" 18,	1	9	7	6	32	5	32	11	32	10	32	9	1	3	...	1	32	12	1	14	32	5	1	8	32	11	32	12	32	8	1	12	1	11	2	8	3	5	32	4	32	4	32	9	1	5	31	3	185	7.7	1
" 19,	4	2	32	3	31	4	22	3	32	6	2	5	2	3	3	4	32	7	31	12	32	9	1	7	2	10	32	9	32	11	32	12	1	11	1	3	32	7	32	5	32	5	32	7	32	4	...	1	150	6.2	32
" 20,	30	7	2	8	32	3	30	2	30	3	30	3	31	2	31	2	31	6	30	5	4	2	30	5	21	2	4	10	3	12	32	6	2	7	32	5	2	7	31	7	32	7	1	5	32	6	2	10	132	5.5	1
" 21,	30	4	31	9	2	7	...	1	31	4	6	6	10	3	30	4	28	2	25	9	26	4	27	7	25	6	30	3	24	5	1	4	32	7	29	2	24	10	14	7	26	7	5	2	11	3	28	5	121	5.0	29
" 22,	23	8	25	8	27	12	29	11	30	10	29	5	23	4	22	8	25	10	25	12	24	11	24	15	24	12	23	9	21	7	24	9	24	10	26	7	6	4	2	3	2	3	10	7	10	7	9	15	207	8.6	25
" 23,	9	13	10	8	10	11	8	11	8	17	7	17	7	18	32	7	8	24	7	29	7	26	8	19	9	20	8	19	8	24	8	24	9	21	8	27	7	24	7	31	7	28	7	31	8	41	7	31	521	21.7	8
" 24,	8	31	8	28	8	35	8	31	9	27	7	26	9	22	8	17	9	20	10	10	28	8	26	3	...	0	27	8	26	5	24	4	25	5	24	3	...	1	10	7	10	3	20	2	10	14	9	11	321	13.4	8
" 25,	6	7	3	5	7	6	4	4	10	10	32	5	7	9	9	18	9	15	9	14	10	10	10	15	9	17	9	18	9	19	8	19	8	15	8	17	9	20	9	24	7	25	7	26	7	25	9	22	365	15.2	8
" 26,	9	24	9	28	9	29	8	36	8	36	8	35	7	38	7	34	7	31	7	28	7	36	8	27	7	25	9	31	8	26	8	25	9	27	9	27	8	29	8	28	8	25	9	23	9	25	9	25	698	29.1	8
" 27,	9	27	7	24	8	29	8	30	7	30	8	33	7	30	8	27	7	27	7	25	8	27	8	25	8	23	9	19	9	17	10	15	9	15	9	14	9	12	9	13	9	15	9	18	8	17	7	14	526	21.9	8
" 28,	8	15	8	22	7	18	8	21	8	20	7	23	7	25	7	28	8	32	7	32	8	31	8	34	8	32	8	31	8	29	9	31	9	25	9	24	9	21	9	21	9	20	8	20	8	23	9	26	604	25.2	8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	413	...	417	...	423	...	448	...	446	...	424	...	426	...	416	...	438	...	450	...	424	...	442	...	415	...	393	...	380	...	393	...	412	...	398	...	387	...	402	...	381	...	421	...	446	...	429	10024	417.7	...
Means,	...	14.7	...	14.9	...	15.1	...	15.0	...	15.9	...	15.1	...	15.2	...	14.9	...	15.2	...	16.1	...	15.1	...	15.8	...	14.8	...	14.0	...	13.6	...	14.0	...	14.7	...	14.1	...	13.8	...	14.4	...	13.6	...	15.0	...	15.9	...	15.3	358.0	14.9	...

TABLE VIII.

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
1897.												
Feb. 1, ...	10	str-cum.	...	10	str-cum.	...	10	cum. / fog.	SSW / E	10	cum.	SSW
„ 2, ...	7	cum.	...	10	str-cum.	...	10	cum-nim.	NE	10	cum-nim.	ENE
„ 3, ...	10	nim.	...	10	nim.	...	10	cum-nim.	ENE	10	str-cum.	E
„ 4, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...
„ 5, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	E	10	nim.	...
„ 6, ...	10	cum-nim.	...	10	str-cum.	...	10	cum-nim.	ENE	10	str-cum.	ENE
„ 7, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	E	10	nim.	ENE
„ 8, ...	10	nim.	...	10	str-cum.	...	10	R-cum.	ENE	10	str-cum.	E
„ 9, ...	10	cum-nim.	...	10	nim.	...	10	cum-nim.	NE	10	str-cum.	ENE
„ 10, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...
„ 11, ...	4	cum.	...	0	...	...	2	sm-cum.	...	0	...	...
„ 12, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 13, ...	9	sm-cum.	W	9	sm-cum.	...	9	sm-cum. / cum.	W / E	3	sm-cum.	W
„ 14, ...	*10	sm-cum.	...	*10	sm-cum.	...	10	sm-cum. / cum.	SE	10	sm-cum. / cum.	SE
„ 15, ...	* 9	sm-cum.	...	*10	sm-cum.	...	10	cum.	ESE	10	sm-cum. / cum.	ESE
„ 16, ...	4	c-str. / cum.	NE	7	cum.	NE	7	sm-cum. / cum.	NE	10	str-cum.	...
„ 17, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	...	10	nim.	NNE
„ 18, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ENE	10	str-cum.	NE
„ 19, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	N	10	str-cum.	...
„ 20, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	cum.	NNE
„ 21, ...	10	cum-nim.	...	10	nim.	...	10	nim.	...	10	nim.	ENE
„ 22, ...	10	nim.	...	10	nim.	...	10	cum-nim.	...	10	str.	...
„ 23, ...	10	str-cum.	...	10	cum.	...	10	cum-nim.	E	10	str. / cum.	E
„ 24, ...	10	str-cum.	...	10	cum.	...	10	str. / nim.	ESE	10	str-cum.	...
„ 25, ...	10	str-cum.	...	10	str-cum.	...	10	fog.	...	10	cum.	E
„ 26, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	str.	...
„ 27, ...	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	E	10	cum-nim.	E
„ 28, ...	10	cum-nim.	...	10	str-cum.	...	10	cum-nim.	...	10	cum.	E
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means....	9.0	...	...	9.1	...	...	9.2	...	...	9.0	...	...

* Approximate.

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Feb. 1,...	7	cum.	SSW	10	cum.	SSW	10	cum-nim.	...	10	str-cum.	...	9.6
„ 2,...	10	str-cum.	...	10	R-cum.	ENE	10	str-cum.	...	10	str-cum.	...	9.6
„ 3,...	10	nim.	ENE	10	nim.	ENE	10	cum-nim.	ENE	10	cum-nim.	...	10.0
„ 4,...	10	str-cum.	...	10	cum-nim.	NE	10	nim.	NE	10	str-cum.	...	10.0
„ 5,...	10	str-cum.	ENE	10	nim.	...	10	nim.	...	10	cum-nim.	...	10.0
„ 6,...	10	str-cum.	ENE	10	cum.	ENE	10	str-cum.	ENE	10	str-cum.	ENE	10.0
„ 7,...	10	nim.	ENE	10	nim.	...	10	str.	...	10	str-cum.	...	10.0
„ 8,...	10	cum.	ESE	10	str-cum.	ESE	10	str-cum.	...	10	nim.	...	10.0
„ 9,...	10	str-cum.	ESE	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 10,...	10	nim.	...	10	nim.	NNE	10	str-cum.	...	10	str-cum.	...	10.0
„ 11,...	0	...	...	0	...	...	0	...	...	0	...	...	0.7
„ 12,...	0	...	...	0	...	...	0	...	...	0	...	...	0 0
„ 13,...	1	sm-cum.	...	1	sm-cum.	W	4	sm-cum.	W	10	sm-cum.	W	5.8
„ 14,...	4	sm-cum.	...	7	sm-cum.	SSW	1	sm-cum.	SSW	7	sm-cum.	SSW	7.4
„ 15,...	3	sm-cum.	S	0	...	...	0	...	...	0	...	...	5.2
„ 16,...	10	str-cum.	ENE	9	str-cum.	E	10	str-cum.	E	10	nim.	E	8.4
„ 17,...	10	str-cum.	NNE	10	str-cum.	...	10	str-cum.	NE	10	R-cum.	...	10.0
„ 18,...	10	str-cum.	NE	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 19,...	10	str-cum.	WSW	10	str.	...	10	str.	...	10	str-cum.	...	10.0
„ 20,...	10	cum.	ENE	10	str-cum.	...	10	str.	...	10	str.	...	10.0
„ 21,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 22,...	10	str.	...	10	str.	...	10	str.	...	10	str.	...	10.0
„ 23,...	10	str. / cum.	E	10	R-cum.	E	10	str-cum.	...	10	str-cum.	...	10.0
„ 24,...	10	str-cum.	...	10	str.	...	10	str-cum.	...	10	str.	...	10.0
„ 25,...	10	str. / cum-nim.	...	10	str-cum.	...	10	str.	...	10	nim.	...	10.0
„ 26,...	10	cum-nim.	...	10	cum-nim.	E	9	str-cum.	...	10	str-cum.	...	9.9
„ 27,...	10	nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10.0
„ 28,...	10	cum.	S	10	cum.	SSE	10	nim.	...	10	nim.	...	10.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	8.4	...	...	8.5	...	...	8.4	...	...	8.8	...	...	8.8

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF FEBRUARY, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.5	11.4	0.9	0.4	+ 3.6	+ 11.0	E 18° N
2 „	5.7	10.5	0.7	0.5	5.0	10.0	E 27° N
3 „	5.4	11.0	0.6	0.4	4.8	10.6	E 24° N
4 „	6.1	11.5	0.0	0.4	6.1	11.1	E 29° N
5 „	5.7	11.9	0.5	0.4	5.2	11.5	E 25° N
6 „	5.7	11.8	0.1	0.2	5.6	11.6	E 26° N
7 „	5.6	12.2	0.3	0.2	5.3	12.0	E 24° N
8 „	5.3	11.5	0.3	0.4	5.0	11.1	E 24° N
9 „	5.9	11.4	0.3	0.6	5.6	10.8	E 27° N
10 „	5.7	12.1	0.4	0.9	5.3	11.2	E 25° N
11 „	4.6	11.4	0.6	0.7	4.0	10.7	E 21° N
Noon.	4.1	11.6	1.1	1.1	3.0	10.5	E 16° N
1 p.	4.1	10.9	1.3	1.0	2.8	9.9	E 16° N
2 „	4.5	9.9	1.3	0.9	3.2	9.0	E 19° N
3 „	4.0	9.8	1.3	0.7	2.7	9.1	E 17° N
4 „	4.0	10.0	1.6	0.6	2.4	9.4	E 14° N
5 „	4.4	9.9	1.8	1.2	2.6	8.7	E 16° N
6 „	4.0	10.3	0.9	1.0	3.1	9.3	E 18° N
7 „	3.6	10.4	0.8	0.9	2.8	9.5	E 16° N
8 „	4.4	10.9	1.0	0.4	3.4	10.5	E 17° N
9 „	4.8	10.2	0.5	0.2	4.3	10.0	E 23° N
10 „	5.0	11.5	0.6	0.0	4.4	11.5	E 21° N
11 „	4.5	12.6	1.0	0.0	3.5	12.6	E 16° N
Midt.	4.6	12.3	1.0	0.1	+ 3.6	+ 12.2	E 16° N
Means, ...	4.8	11.1	0.8	0.5	+ 4.05	+ 10.57	E 21° N

PHENOMENA :—

Thick fog :—on the 25th.

Fog :—on the 1st, 16th and 24th.

Slight fog :—on the 28th.

Haze :—on the 20th.

Unusual Visibility :—on the 10th, 18th and 19th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MARCH, 1897.

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.
Mar. 1,...	29.920	29.910	29.900	29.890	29.895	29.910	29.927	29.939	29.953	29.953	29.937	29.916	29.882	29.844	29.836	29.811	29.824	29.831	29.843	29.865	29.889	29.902	29.900	29.895	29.890
" 2,...	.895	.890	.875	.880	.900	.920	.941	.958	.979	.982	.982	.970	.950	.923	.908	.897	.923	.929	.945	.967	.977	.980	.975	.975	.938
" 3,...	.970	.960	.955	.955	.970	.980	30.002	30.021	30.027	30.015	.995	.967	.951	.913	.902	.892	.908	.916	.939	.943	.957	.972	.970	.960	.960
" 4,...	.955	.935	.935	.925	.935	.960	29.966	29 976	29.991	29.989	.982	.961	.947	.928	.927	.921	.930	.942	.946	.962	.984	30.000	30.000	30.005	.958
" 5,...	30.030	30.015	30.015	30.015	30.030	30.040	30 044	30.053	30.078	30.064	30.077	30.072	30.040	30.016	.984	.970	.971	.987	.996	30.010	30.014	.023	.032	.028	30.024
" 6,...	.015	.005	.003	29.993	29.991	30.001	.011	.032	.045	.052	.041	.028	.005	29.978	.957	.943	.939	.930	.940	29.957	29.956	29.958	29.958	29.956	29.987
" 7,...	29.942	29.933	29.918	.906	.906	29.921	29.943	29.955	29.965	29.974	29.951	29.921	29.902	.882	.858	.846	.844	.846	.862	.883	.899	.903	.900	.894	.906
" 8,...	.890	.883	.877	.879	.886	.909	.925	.956	.975	.966	.950	.920	.896	.865	.837	.835	.836	.840	.851	.868	.883	.883	.884	.890	.891
" 9,...	.881	.880	.873	.863	.880	.906	.930	.940	.954	.949	.944	.916	.887	.856	.839	.827	.837	.844	.866	.888	.901	.910	.905	.899	.891
" 10,...	.899	.881	.879	.875	.882	.902	.928	.936	.932	.926	.938	.923	.910	.878	.860	.856	.842	.848	.875	.890	.905	.912	.903	.890	.895
" 11,...	.885	.872	.867	.859	.859	.866	.886	.912	.926	.907	.905	.879	.846	.826	.802	.797	.796	.810	.826	.848	.862	.871	.861	.853	.859
" 12,...	.853	.843	.825	.832	.844	.856	.883	.919	.920	.924	.918	.899	.875	.850	.860	.872	.890	.914	.926	.941	.963	.951	.985	.985	.897
" 13,...	.993	.982	.979	.982	30.010	30.028	30.070	30.071	30.100	30.110	30.107	30.092	30.065	30.033	30.013	30.008	30.012	30.021	30.042	30.059	30.066	30.076	30.077	30.076	30.045
" 14,...	30.057	30.035	30.019	30.013	.021	.032	.049	.063	.080	.071	.057	.038	.015	29.977	29.946	29.939	29.947	29.959	29.974	29.998	.029	.020	.027	.016	.016
" 15,...	.004	29.983	29.974	29.958	29.973	29.990	29.998	.032	.040	.037	.028	.006	29.986	.956	.944	.930	.939	.958	.978	.993	.010	.022	.024	.012	29.991
" 16,...	29.983	.960	.941	.926	.948	.992	30.016	.050	.047	.040	.019	29.999	.970	.942	.922	.906	.891	.913	.937	.949	29.959	29.972	29.983	29.973	.968
" 17,...	.955	.960	.923	.919	.923	.947	29.960	29.980	29.989	29.998	29.982	.958	.923	.896	.870	.870	.868	.868	.880	.888	.898	.911	.905	.899	.924
" 18,...	.884	.867	.851	.849	.839	.844	.860	.877	.887	.877	.863	.836	.808	.773	.739	.740	.748	.763	.770	.778	.795	.808	.812	.806	.820
" 19,...	.777	.759	.753	.734	.753	.771	.811	.819	.841	.845	.833	.815	.798	.778	.771	.776	.762	.780	.816	.835	.855	.875	.886	.891	.806
" 20,...	.889	.890	.889	.888	.924	.940	.981	30.000	30.021	30.018	30.017	30.014	30.000	.950	.960	.962	.967	.980	.995	30.020	30.023	30.040	30.035	30.037	.977
" 21,...	30.029	30.020	30.012	30.008	30.012	30.031	30.052	.062	.063	.070	.064	.044	.010	.998	.979	.967	.951	.978	.985	.000	.013	.025	.024	.021	30.017
" 22,...	.001	29.980	29.966	29.970	29.964	29.983	.000	.011	.012	.006	.011	29.989	29.959	.930	.911	.909	.917	.920	.941	29.964	29.984	29.998	29.992	29.982	29.971
" 23,...	29.971	.952	.938	.941	.946	.954	29.980	29.995	.001	29.999	.004	.987	.963	.946	.920	.916	.917	.942	.957	.963	.969	.966	.973	.981	.962
" 24,...	.979	.958	.947	.946	.966	.987	.989	30.003	.019	30.021	.013	30.004	.977	.960	.943	.929	.920	.927	.934	.956	.976	.986	.989	.982	.971
" 25,...	.961	.946	.942	.937	.943	.961	.963	29.979	29.990	29.997	29.972	29.950	.924	.897	.865	.845	.857	.879	.890	.907	.927	.933	.937	.925	.930
" 26,...	.905	.871	.857	.849	.852	.883	.899	.923	.932	.939	.927	.899	.880	.855	.845	.835	.818	.825	.822	.840	.851	.868	.875	.889	.872
" 27,...	.863	.834	.819	.811	.809	.837	.855	.871	.879	.887	.874	.861	.846	.840	.822	.808	.826	.836	.852	.870	.890	.896	.888	.882	.852
" 28,...	.869	.853	.844	.852	.857	.877	.906	.921	.934	.940	.931	.920	.897	.874	.854	.833	.841	.855	.876	.895	.885	.893	.899	.876	.883
" 29,...	.861	.831	.817	.800	.831	.846	.860	.881	.891	.891	.872	.838	.816	.789	.758	.744	.748	.746	.765	.784	.805	.800	.798	.788	.815
" 30,...	.774	.753	.739	.746	.766	.778	.803	.824	.840	.838	.833	.818	.793	.768	.745	.726	.726	.745	.741	.759	.782	.779	.788	.775	.777
" 31,...	.756	.731	.709	.696	.696	.699	.734	.756	.766	.766	.757	.742	.708	.697	.673	.658	.666	.681	.691	.711	.741	.733	.738	.713	.717
Means,.....	29.923	29.909	29.898	29.894	29.904	29.921	29.941	29.959	29.970	29.969	29.961	29.941	29.917	29.891	29.873	29.863	29.866	29.878	29.892	29.909	29.924	29.931	29.933	29.928	29.916

During the period March 1st 1 a. to 5th 1 p. owing to defective photographs, the eye observations from 7 a. to 10 p. inclusive have been entered as read; from 11 p. to 6 a. inclusive the readings from the barograms are given to the nearest 0.005 only.

TABLE II.

TEMPERATURE FOR THE MONTH OF MARCH, 1897.

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.
Mar. 1,	56.6	56.5	57.4	58.8	58.8	59.1	59.0	58.6	58.5	60.9	61.5	62.5	63.5	63.8	64.8	64.5	64.2	63.9	65.1	65.1	64.9	64.4	64.9	65.1	61.8	65.2	56.5
„ 2,	64.9	63.7	62.1	62.5	63.1	63.5	61.5	60.9	60.2	59.8	59.3	57.8	56.8	56.6	56.2	55.1	55.5	55.5	55.3	55.2	55.1	55.4	55.6	55.4	58.6	65.7	54.7
„ 3,	55.4	55.3	55.4	55.9	55.3	55.3	55.5	55.7	56.9	57.8	58.7	59.8	60.6	60.6	60.1	59.6	57.7	56.8	56.0	56.2	56.0	56.0	56.3	56.0	57.0	60.6	54.8
„ 4,	56.1	56.1	56.1	56.2	56.2	56.3	56.7	57.0	57.7	59.8	61.8	61.9	62.8	64.0	62.8	62.0	62.3	60.4	60.2	60.2	60.1	60.0	59.3	59.3	59.4	64.2	55.4
„ 5,	59.3	59.2	58.5	58.0	57.5	57.1	57.8	58.6	59.2	60.4	60.7	60.8	61.5	60.8	60.6	60.9	59.8	59.2	59.3	59.4	58.8	59.0	59.0	59.1	59.4	61.7	57.1
„ 6,	59.1	59.2	58.9	58.5	58.1	58.0	57.7	58.8	61.0	61.6	63.4	62.6	63.1	64.6	63.7	63.1	62.4	62.4	62.3	61.8	62.0	62.3	63.2	63.5	61.3	64.6	57.6
„ 7,	64.7	64.9	65.0	65.3	65.3	65.3	65.6	65.3	66.2	67.7	67.8	70.7	70.5	71.1	70.2	68.8	67.8	68.0	67.0	67.1	67.0	66.3	66.1	65.6	67.1	72.1	63.2
„ 8,	66.1	66.2	66.4	65.3	65.0	64.6	64.5	64.5	64.7	69.6	72.0	69.6	69.8	68.7	67.4	65.9	65.2	64.5	64.8	64.5	64.3	63.9	64.6	63.2	66.1	72.0	62.5
„ 9,	64.6	64.6	66.0	66.3	66.3	66.2	66.8	67.3	68.6	68.8	69.6	70.4	70.8	71.4	71.3	75.5	73.3	71.0	70.2	68.2	68.5	68.3	68.0	67.7	68.7	76.3	62.4
„ 10,	67.3	67.1	67.0	66.6	66.2	65.7	65.3	69.7	72.4	72.4	61.6	59.6	59.6	58.6	58.6	57.6	58.0	57.8	58.1	58.9	58.2	57.8	57.6	57.4	62.5	75.3	57.4
„ 11,	57.0	56.7	56.6	56.7	56.9	57.1	56.7	56.6	56.5	56.6	57.1	56.6	56.8	57.4	57.7	58.8	58.8	59.1	59.1	58.8	58.7	58.8	58.8	58.9	57.6	61.6	56.4
„ 12,	59.0	59.1	58.7	59.0	59.2	59.3	59.4	59.4	59.5	59.1	60.2	59.7	59.9	59.7	59.7	59.3	58.7	58.4	58.2	57.9	57.3	57.0	57.0	56.5	58.8	60.3	56.5
„ 13,	56.4	56.3	56.3	56.2	55.8	55.5	55.6	55.4	55.0	54.9	55.4	55.8	55.9	56.0	56.1	56.0	55.8	55.8	55.8	55.4	55.9	55.8	55.1	55.1	55.7	56.8	54.7
„ 14,	55.1	55.4	55.7	55.8	55.8	55.7	55.8	56.6	57.6	58.1	58.6	59.2	59.4	59.6	60.0	59.5	59.6	59.4	58.6	58.5	58.4	58.2	58.5	58.5	57.8	60.0	55.0
„ 15,	58.4	58.2	58.3	58.1	58.2	58.4	58.7	59.5	60.4	61.5	62.7	62.4	62.7	63.6	63.5	64.0	63.2	62.6	62.2	61.7	61.1	61.4	61.8	61.8	61.0	64.0	58.1
„ 16,	62.5	62.7	62.5	62.6	61.0	60.6	62.1	63.1	65.8	67.8	67.9	65.7	66.6	67.2	68.6	69.0	66.9	63.6	62.2	62.2	62.3	62.2	62.3	61.9	64.1	70.3	59.5
„ 17,	62.1	62.0	61.8	61.9	61.9	62.1	62.6	63.5	65.1	65.8	67.6	66.0	65.9	65.4	64.8	64.1	64.8	64.1	63.7	62.8	63.2	63.2	63.7	63.8	63.8	67.6	61.8
„ 18,	64.4	64.8	64.7	63.8	64.0	64.5	64.4	64.8	66.1	66.6	66.8	67.2	66.5	66.1	65.5	65.1	63.6	63.5	63.7	64.0	64.8	65.1	65.0	65.5	65.0	67.5	62.8
„ 19,	65.5	65.5	65.5	65.6	65.5	64.9	65.7	67.8	68.6	69.1	68.0	67.0	66.9	67.5	66.7	68.1	67.8	67.0	68.4	67.8	64.0	63.7	62.7	61.3	66.3	69 5	61.3
„ 20,	60.1	59.1	58.1	57.8	57.6	57.6	57.4	57.5	57.4	57.5	57.8	58.3	57.2	56.6	57.6	57.4	57.8	57.8	57.8	57.8	57.2	57.1	57.1	57.3	57.7	62.3	56.4
„ 21,	56.1	55.3	55.4	55.5	55.3	55.7	56.0	56.3	57.3	57.8	58.6	58.5	58.2	58.0	57.9	57.0	57.1	57.3	56.7	56.8	56.9	56.7	56.7	56.7	56.8	58.6	55.3
„ 22,	56.8	57.1	57.0	56.7	56.7	56.6	56.6	56.8	56.9	57.5	57.1	57.6	57.7	58.7	59.1	59.1	59.4	59.5	59.6	59.5	59.7	59.7	58.8	59.3	58.1	59.7	56.2
„ 23,	59.7	60.1	60.4	60.4	60.8	61.4	61.8	62.7	62.3	63.2	63.6	63.0	63.2	63.0	64.2	63.0	61.7	61.4	61.8	62.5	62.2	61.5	61.2	61.3	61.9	64.2	59.3
„ 24,	61.4	61.7	61.5	61.7	62.2	62.6	63.1	63.5	63.0	63.8	63.7	64.9	66.6	67.4	68.3	68.0	66.6	65.9	65.0	65.8	65.9	65.8	66.0	66.2	64.6	69.2	60.2
„ 25,	66.5	66.6	66.4	66.4	66.6	66.5	66.9	67.4	68.6	69.3	68.6	68.4	70.8	71.8	71.8	71.1	71.1	69.5	68.4	68.4	70.6	69.4	69.4	69.1	68.7	72.9	64.8
„ 26,	68.3	67.4	67.6	66.9	66.1	64.6	64.5	65.0	64.6	65.1	65.6	65.6	66.0	67.2	66.7	67.0	66.6	67.1	68.0	68.0	67.8	67.3	67.2	68.0	66.6	69.2	†64.5
„ 27,	68.0	67.4	67.3	66.9	67.1	67.3	67.5	67.6	67.3	68.4	68.3	68.6	68.3	68.4	69.2	68.1	69.3	69.4	70.2	70.6	70.5	70.0	70.3	70.1	68.6	70.6	65.8
„ 28,	70.6	71.1	71.1	70.9	70.6	69.9	70.0	70.8	69.8	72.2	71.9	72.6	72.8	72.7	72.5	71.1	71.0	69.5	69.1	70.9	69.2	70.8	70.8	70.6	70.9	74.2	68.7
„ 29,	70.4	69.8	69.9	69.5	69.8	69.8	67.7	69.6	70.6	70.1	69.6	70.6	69.6	70.2	70.3	69.9	68.8	69.5	69.1	68.6	69.8	69.9	69.7	69.7	69.6	72.4	67.5
„ 30,	70.6	70.0	69.3	69.5	69.2	68.8	69.0	69.6	71.9	73.6	75.0	74.7	78.4	76.0	78.4	73.1	73.6	73.2	72.2	72.4	73.0	71.5	72.1	72.3	72.4	79.9	68.2
„ 31,	72.7	72.4	72.3	73.2	74.0	75.6	77.0	78.3	78.3	79.3	78.8	78.9	80.4	79.6	81.0	79.2	78.5	78.4	71.3	70.0	69.5	68.4	66.9	65.9	75.0	82.1	65.9
Means,	62.4	62.3	62.2	62.2	62.1	62.1	62.2	62.8	63.5	64.4	64.5	64.4	64.8	64.9	65.0	64.5	64.1	63.6	63.2	63.1	63.0	62.8	62.8	62.6	63.3	67.4	60.0

† Approximate.

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF MARCH, 1897.

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.
Mar. 1, ...	56.3	56.2	57.1	57.6	57.6	58.2	57.6	57.4	57.3	59.0	59.1	59.2	60.1	60.6	62.1	62.3	62.8	62.6	63.5	63.6	63.8	63.0	63.4	63.5	60.2	123.0
„ 2, ...	63.6	61.8	61.0	61.3	61.7	61.7	59.9	59.9	58.4	58.0	57.9	56.9	56.3	55.6	55.4	54.6	54.8	54.3	54.6	54.2	54.2	54.3	54.4	54.2	57.5	92.1
„ 3, ...	53.5	53.4	53.3	53.1	53.1	53.2	53.4	53.6	54.6	55.1	55.6	55.6	56.0	55.6	55.3	55.2	55.7	55.8	55.3	55.3	55.1	54.8	55.0	55.3	54.7	96.7
„ 4, ...	55.3	55.4	55.4	55.5	55.5	55.4	55.6	55.9	55.6	57.0	58.9	58.7	58.9	59.6	59.4	58.7	58.9	58.0	57.9	57.9	58.1	58.4	57.6	57.8	57.3	117.4
„ 5, ...	58.1	57.5	56.7	55.8	55.4	55.3	54.6	54.4	53.9	54.7	56.3	55.0	55.2	55.6	55.2	55.0	52.8	52.9	53.2	53.1	53.0	53.1	54.6	55.4	54.9	118.2
„ 6, ...	56.1	56.0	56.0	55.8	55.6	55.8	55.7	56.6	57.8	57.8	58.9	58.6	58.8	59.8	59.6	59.6	59.1	59.1	59.4	59.5	59.7	59.7	62.6	63.5	58.4	119.9
„ 7, ...	64.4	64.6	64.6	65.0	64.6	64.6	64.6	64.6	65.3	66.0	66.1	67.6	67.1	67.3	67.2	66.0	65.9	66.3	65.8	65.4	65.1	65.3	65.4	65.2	65.6	128.6
„ 8, ...	65.4	65.5	65.5	65.0	64.6	64.6	63.7	64.1	64.4	67.0	67.0	66.5	65.9	65.6	64.6	63.6	63.7	63.3	63.8	64.2	63.9	63.8	64.4	63.1	64.7	127.3
„ 9, ...	64.4	64.5	64.9	65.0	65.6	65.6	66.1	65.6	67.2	67.2	67.6	68.0	67.9	67.7	68.4	70.0	69.0	67.9	66.5	66.8	66.9	67.0	67.0	66.8	66.8	123.4
„ 10, ...	66.5	66.5	66.6	65.8	65.7	65.4	65.1	68.6	69.1	68.6	60.0	58.5	58.4	57.7	57.6	57.1	57.6	56.6	56.4	56.4	56.2	56.0	55.7	55.7	61.2	118.4
„ 11, ...	55.7	55.4	54.0	54.8	54.9	55.1	56.3	55.7	55.6	56.2	56.6	56.3	56.5	56.6	56.8	57.0	57.3	56.6	56.9	57.7	58.0	58.2	58.2	58.1	56.4	78.3
„ 12, ...	58.0	58.0	57.8	58.5	58.5	58.5	58.6	59.2	58.9	58.3	58.7	58.6	58.7	58.7	58.8	58.8	58.0	57.7	57.8	57.3	56.6	56.2	56.1	55.8	58.0	90.7
„ 13, ...	55.6	55.6	55.6	55.6	55.4	55.0	54.6	54.6	54.4	54.2	54.6	54.9	53.9	54.2	54.0	53.8	53.3	53.1	53.5	53.4	53.6	53.2	53.3	53.3	54.3	67.4
„ 14, ...	53.2	53.1	53.1	53.1	53.2	53.6	53.7	54.5	55.0	55.3	55.4	56.0	55.6	56.1	56.3	56.2	57.2	56.3	56.2	56.3	56.2	56.3	56.2	56.3	55.2	89.4
„ 15, ...	56.5	56.6	56.5	56.4	56.0	56.4	56.2	56.6	57.1	57.1	57.6	57.6	58.4	58.7	59.3	59.6	59.5	58.2	58.3	58.5	59.5	59.7	59.7	60.0	57.9	117.2
„ 16, ...	60.8	60.7	60.7	60.6	58.1	57.6	58.7	59.9	61.9	62.9	62.8	61.0	61.0	61.9	62.3	63.1	61.8	59.8	59.5	59.6	59.8	59.9	60.1	59.9	60.6	129.0
„ 17, ...	60.1	60.1	59.9	60.0	59.4	59.9	60.1	60.8	61.6	61.7	62.1	62.0	62.1	61.8	61.3	61.2	61.6	61.2	61.0	60.4	61.1	61.2	61.6	61.7	61.0	106.5
„ 18, ...	61.9	62.1	61.9	61.5	61.7	61.9	61.9	62.0	63.1	63.6	63.8	64.3	64.2	64.3	64.3	63.6	63.2	62.6	62.8	63.0	64.1	64.2	61.1	64.7	63.1	117.2
„ 19, ...	64.8	64.8	64.8	65.0	64.3	64.4	65.4	66.9	67.2	67.0	66.6	65.8	66.0	66.0	66.2	67.0	67.0	66.3	67.4	67.3	63.2	62.0	60.8	59.2	65.2	107.3
„ 20, ...	58.1	57.4	57.0	56.9	56.9	57.0	56.9	56.8	56.9	56.7	56.2	56.4	56.1	56.3	56.4	56.1	55.2	53.9	54.2	53.8	53.3	53.4	53.7	53.8	55.8	72.1
„ 21, ...	53.6	53.5	53.8	53.1	52.9	52.9	53.4	53.3	54.4	54.9	55.4	54.9	54.3	53.7	54.3	54.6	54.3	54.4	54.0	53.6	53.3	53.5	53.7	53.8	53.9	85.0
„ 22, ...	53.6	53.7	53.4	53.0	52.9	53.1	53.3	53.8	54.2	54.7	54.9	54.9	55.2	56.0	56.4	56.6	56.6	57.3	57.6	57.8	58.0	58.3	58.4	59.1	55.5	96.9
„ 23, ...	59.3	59.6	59.9	60.0	60.3	60.9	61.3	61.8	61.6	61.9	61.6	61.2	61.1	61.2	61.9	61.2	60.7	60.9	61.3	61.9	61.7	61.0	60.7	60.9	61.0	112.0
„ 24, ...	60.9	61.1	60.9	61.2	61.5	61.9	62.3	62.5	62.4	62.8	62.7	63.7	64.6	65.0	65.4	65.8	65.1	65.3	64.7	65.6	65.3	64.7	65.1	65.2	63.6	122.0
„ 25, ...	65.5	65.5	65.6	65.7	66.0	65.8	66.2	66.6	67.6	67.7	67.3	66.9	68.3	68.7	68.6	68.2	68.5	67.5	67.2	67.8	68.6	68.5	68.9	68.4	67.3	130.1
„ 26, ...	67.6	66.4	66.0	65.6	64.6	63.4	63.4	63.6	63.4	63.2	64.0	63.7	64.4	65.0	64.8	64.9	65.4	65.3	66.6	66.8	66.9	66.7	66.8	67.6	65.3	101.6
„ 27, ...	67.8	67.0	66.9	66.5	66.7	66.8	67.2	67.3	67.0	68.0	67.6	68.0	67.7	67.9	68.3	67.9	69.2	68.9	69.8	70.0	69.9	69.9	70.3	70.0	68.2	121.7
„ 28, ...	70.5	70.8	70.7	70.7	70.1	69.4	69.6	70.6	69.6	70.6	70.5	70.7	70.8	70.7	70.5	69.6	69.7	69.0	69.0	70.1	68.9	70.5	70.8	70.6	70.2	131.6
„ 29, ...	70.4	69.8	69.9	69.5	69.8	69.8	67.6	69.1	69.3	68.4	68.5	68.7	68.5	68.3	68.3	68.6	68.0	68.8	68.6	68.5	69.1	69.2	68.9	69.1	68.9	119.0
„ 30, ...	69.8	69.6	68.9	69.1	68.9	68.6	68.8	69.3	70.6	70.6	72.8	72.6	73.6	72.5	74.1	70.9	71.7	71.6	71.1	71.3	72.9	71.4	72.0	72.1	71.0	135.5
„ 31, ...	72.1	71.8	71.6	72.0	72.3	73.0	73.6	74.2	74.4	75.2	74.9	74.9	75.6	75.4	75.5	75.1	75.0	74.7	70.0	69.6	68.7	67.6	66.3	65.3	72.4	136.8
Means, ...	61.3	61.1	61.0	60.9	60.8	60.8	61.1	61.3	61.6	62.0	62.0	61.9	62.0	62.1	62.2	62.0	61.9	61.5	61.4	61.5	61.4	61.3	61.5	61.5	61.5	110.7

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MARCH, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	94	0.537	March 1,.....	91	0.502
2 „	93	.532	„ 2,.....	94	.461
3 „	93	.530	„ 3,.....	86	.399
4 „	93	.527	„ 4,.....	88	.444
5 „	93	.525	„ 5,.....	73	.372
6 „	93	.525	„ 6,.....	82	.452
7 „	94	.533	„ 7,.....	92	.612
8 „	91	.532	„ 8,.....	92	.594
9 „	89	.532	„ 9,.....	90	.633
10 „	86	.533	„ 10,.....	92	.525
11 „	86	.532	„ 11,.....	93	.441
Noon.	86	.530	„ 12,.....	95	.473
1 p.	85	.528	„ 13,.....	91	.405
2 „	85	.530	„ 14,.....	84	.403
3 „	85	.532	„ 15,.....	82	.441
4 „	86	.532	„ 16,.....	81	.484
5 „	88	.535	„ 17,.....	85	.501
6 „	89	.528	„ 18,.....	89	.554
7 „	90	.530	„ 19,.....	95	.608
8 „	91	.534	„ 20,.....	88	.422
9 „	91	.532	„ 21,.....	81	.379
10 „	91	.532	„ 22,.....	84	.408
11 „	93	.538	„ 23,.....	95	.526
Midt.	94	.541	„ 24,.....	95	.576
			„ 25,.....	93	.651
			„ 26,.....	93	.608
			„ 27,.....	98	.686
			„ 28,.....	96	.730
			„ 29,.....	96	.698
			„ 30,.....	93	.741
			„ 31,.....	88	.762
Means,.....	90	0.532	Means.	90	0.532

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.
1897.														
March 1,.....	...	...	0.2	...	0.6	0.5	1.0	1.0	1.0	0.8	0.4	...	...	5.5
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	0.1	0.6	...	...	...	...	...	...	...	...	0.7
„ 5,.....	...	...	0.1	0.7	1.0	1.0	1.0	0.8	...	0.4	...	...	...	5.0
„ 6, ...	...	...	...	0.9	0.8	0.7	...	...	...	0.1	...	...	...	2.5
„ 7,.....	...	...	...	...	...	0.1	0.5	0.6	0.3	0.2	0.6	...	...	2.3
„ 8,.....	...	...	...	...	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.2	...	6.6
„ 9,.....	...	...	0.1	0.2	0.2	0.2	0.6	0.7	1.0	0.8	0.7	...	...	4.5
„ 10,.....	...	...	0.4	1.0	0.5	...	...	...	...	...	...	...	...	1.9
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	0.2	0.7	1.0	1.0	1.0	1.0	0.7	0.6	1.0	0.1	...	7.3
„ 16,.....	...	...	...	0.1	0.3	0.6	0.5	0.9	1.0	1.0	0.2	...	...	4.6
„ 17,.....	...	...	...	0.2	0.5	...	...	...	...	...	...	...	...	0.7
„ 18,.....	...	...	...	0.2	0.1	0.1	...	0.1	...	0.1	...	...	...	0.6
„ 19,.....	...	...	0.6	0.3	0.1	...	...	...	0.1	...	...	...	...	1.1
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,.....	...	...	...	...	...	...	...	0.1	...	...	...	...	...	0.1
„ 24,.....	...	...	...	...	...	...	...	...	0.6	1.0	0.5	...	...	2.1
„ 25,.....	...	...	...	...	...	...	0.2	0.7	0.9	0.5	...	...	...	2.3
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	...	...	...	0.2	0.3	0.2	...	...	...	...	...	0.7
„ 28,.....	...	0.1	0.8	0.6	1.0	0.8	0.4	0.8	0.9	0.9	1.0	0.7	...	8.0
„ 29,.....	...	0.1	0.4	0.7	0.2	0.5	0.4	0.4	0.5	0.5	0.3	...	...	4.0
„ 30,.....	...	...	0.2	0.8	0.7	0.6	0.2	0.9	0.5	0.7	0.9	0.3	...	5.8
„ 31,.....	...	0.1	0.4	0.3	0.7	0.5	0.8	0.9	0.4	0.7	0.5	0.1	...	5.4
Sums,.....	...	0.3	3.4	6.8	9.3	7.8	7.9	10.1	8.9	9.3	6.5	1.4	...	71.7

TABLE VI.

RAINFALL FOR THE MONTH OF MARCH, 1897.

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.
March 1,	0.005	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	7
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6
" 4,	...	...	...	...	...	...	0.120	0.015	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.140	9
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
" 11,	0.005	...	..	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	16
" 12,	...	...	...	0.005	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	0.020	22
" 13,	...	...	0.010	0.010	0.005	0.005	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.040	13
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 18,	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.010	...	...	...	...	...	...	...	0.015	8
" 20,	...	...	...	...	0.015	0.005	0.005	...	...	...	...	...	...	0.220	0.165	0.015	...	...	...	...	...	...	...	...	0.425	11
" 21,	...	0.105	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.110	2
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.005	0.010	5
" 24,	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	0.005	0.025	9
" 25,	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	3
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4
" 27,	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	6
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.015	0.115	0.020	0.020	0.020	0.010	0.130	0.020	0.015	...	...	...	...	0.220	0.165	0.020	0.010	...	...	0.005	0.010	0.010	...	0.010	0.815	141

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MARCH, 1897.

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.
Mar. 1.	9	24	9	21	8	21	9	24	9	24	9	26	8	25	9	25	9	27	10	23	9	20	8	22	8	25	7	20	8	22	8	18	8	13	8	10	7	7	7	7	6	8	6	5	6	3	6	6	426	17.8	8
" 2.	9	4	8	7	8	9	8	15	9	16	9	20	8	29	7	30	7	31	7	33	7	29	7	28	7	26	7	31	7	32	8	31	7	29	7	26	7	29	7	29	7	32	7	32	7	30	7	34	612	25.5	7
" 3.	7	36	7	30	7	26	7	27	7	24	7	19	7	19	9	14	7	15	9	14	8	15	9	17	10	15	10	14	9	10	8	8	7	8	7	10	8	10	9	12	9	12	9	9	10	9	10	8	381	15.9	8
" 4.	10	8	10	5	10	4	...	1	10	5	10	2	...	1	...	0	10	4	8	6	9	2	8	6	...	1	8	3	18	4	22	4	23	2	22	6	22	6	22	4	...	1	22	3	22	3	...	0	81	3.4	13
" 5.	9	20	6	20	8	21	6	25	7	26	7	31	7	37	7	43	7	44	7	45	7	39	7	33	7	28	6	31	7	29	7	36	7	41	7	37	7	33	7	31	7	36	7	41	7	39	7	40	806	33.6	7
" 6.	7	36	7	36	8	28	8	26	8	27	8	30	8	36	7	27	7	32	7	29	8	30	8	20	9	15	9	15	10	18	9	23	9	19	10	23	9	19	9	19	8	21	9	23	8	16	11	6	574	23.9	8
" 7.	11	9	10	10	8	11	8	14	8	13	9	16	10	11	9	13	8	10	10	8	10	8	8	11	9	12	8	12	9	14	9	16	9	15	6	13	7	6	11	10	9	11	8	9	5	7	6	5	264	11.0	9
" 8.	8	12	9	7	9	8	10	3	10	2	7	5	8	4	...	1	12	5	...	1	7	9	7	13	8	12	7	11	7	13	8	13	6	10	7	8	8	9	7	8	7	6	8	5	8	5	8	3	173	7.2	8
" 9.	6	2	32	3	...	0	7	3	...	0	...	1	...	1	9	6	6	11	7	14	7	14	7	10	8	11	8	7	7	7	16	7	29	6	30	3	...	1	30	2	...	0	...	0	30	2	...	0	111	4.6	7
" 10.	30	3	32	3	2	2	...	1	...	0	...	1	31	2	31	3	3	3	7	20	8	33	8	36	8	33	8	36	7	33	7	36	7	37	7	35	7	35	7	37	7	37	7	37	7	36	7	37	536	22.3	7
" 11.	7	34	7	38	7	39	7	38	7	33	8	35	7	30	7	30	7	28	8	27	8	24	9	29	8	30	8	28	9	28	9	29	8	30	8	30	8	29	8	32	8	35	8	32	8	33	8	33	754	31.4	8
" 12.	8	30	8	29	8	27	9	28	8	26	8	24	8	29	8	27	8	32	8	32	8	35	8	31	8	31	8	28	8	25	8	22	8	27	7	28	7	31	7	37	7	34	8	40	7	35	7	39	727	30.3	8
" 13.	7	32	7	25	7	26	7	24	7	24	7	26	7	26	7	24	7	27	6	17	7	10	5	5	32	10	5	3	4	7	2	8	6	5	2	3	4	5	7	10	7	13	6	9	32	5	3	2	346	14.4	6
" 14.	2	4	6	6	7	10	6	8	7	10	8	12	8	14	7	15	7	14	8	16	8	15	10	13	10	13	11	13	9	18	9	18	10	12	10	12	10	16	10	16	9	16	9	20	7	20	8	23	334	13.9	8
" 15.	8	21	9	21	9	20	9	23	9	21	9	22	9	25	9	26	9	28	9	29	9	27	8	27	8	23	9	21	9	21	9	19	9	21	9	19	9	18	9	18	9	17	9	14	10	12	10	9	502	20.9	9
" 16.	10	6	32	4	32	4	8	5	8	19	8	12	10	9	10	6	10	2	10	5	11	13	9	23	8	22	9	20	9	18	8	17	9	24	8	25	8	24	7	27	7	35	7	30	7	25	7	30	405	16.9	8
" 17.	7	27	7	28	7	32	8	31	9	29	8	23	9	24	9	22	9	19	8	25	8	30	7	30	8	31	8	23	8	26	9	24	8	26	8	30	7	25	8	29	6	29	7	22	7	22	8	25	632	26.3	8
" 18.	9	24	9	26	8	29	8	29	9	24	10	24	8	28	8	26	8	30	8	30	8	30	8	25	8	23	8	25	8	25	8	27	8	25	8	27	8	23	9	21	9	19	9	21	10	17	8	15	593	24.7	8
" 19.	9	19	7	13	8	8	6	12	7	13	7	6	10	3	4	4	3	4	8	13	8	17	8	20	7	15	7	16	7	13	8	9	8	13	7	10	11	5	8	8	7	26	7	28	7	30	7	32	337	14.0	7
" 20.	7	42	8	34	7	23	8	19	8	15	10	14	9	15	9	18	8	13	9	15	5	12	4	4	10	7	7	10	2	7	1	5	1	4	3	5	32	8	2	5	2	7	32	5	3	9	3	7	303	12.6	7
" 21.	3	4	32	2	7	4	4	5	4	3	5	4	2	5	5	13	7	15	6	21	7	20	7	24	7	28	7	27	7	21	7	29	7	31	7	36	6	36	7	36	7	40	7	37	7	34	7	30	505	21.0	7
" 22.	6	33	7	35	7	31	7	28	7	29	7	33	7	30	7	31	7	34	7	32	7	28	7	26	7	28	7	31	8	31	8	26	7	24	7	27	8	25	8	23	7	19	11	18	10	20	9	22	664	27.7	7
" 23.	9	21	9	24	8	21	8	22	8	22	7	23	8	25	7	23	8	25	8	26	8	25	8	23	8	23	8	21	8	21	8	23	8	19	8	20	8	24	8	23	8	26	7	24	8	19	8	24	550	22.9	8
" 24.	8	26	8	29	8	26	8	24	8	22	9	21	8	26	8	26	8	25	8	24	9	26	9	19	8	19	10	18	9	22	9	19	9	16	9	20	9	16	8	13	9	12	8	12	11	10	10	7	478	19.9	9
" 25.	12	4	10	9	10	6	10	2	10	7	9	7	10	14	10	17	10	14	9	11	10	21	9	16	10	17	10	16	9	17	10	17	10	19	8	15	8	19	6	14	7	13	9	13	9	9	11	10	307	12.8	9
" 26.	10	12	9	16	11	14	10	19	10	24	7	20	7	19	7	25	8	22	8	24	8	24	8	26	8	22	8	22	9	20	8	19	7	23	8	26	7	20	6	23	8	18	8	18	8	15	7	5	476	19.8	8
" 27.	9	14	8	20	8	18	9	21	9	18	9	17	8	19	8	23	7	20	8	21	7	23	7	27	8	26	7	22	7	20	8	19	6	14	7	16	6	15	6	16	6	12	6	14	6	12	6	10	437	18.2	7
" 28.	5	8	5	8	5	9	5	7	6	10	7	12	8	12	7	15	7	17	7	15	7	16	7	14	7	15	8	16	7	18	7	21	7	17	7	11	7	14	7	16	8	15	9	10	9	12	8	14	322	13.4	7
" 29.	8	15	8	15	7	13	8	11	8	9	8	9	7	14	6	13	7	17	7	20	7	21	8	26	8	22	7	22	7	22	8	22	7	22	7	14	7	13	7	14	7	12	7	12	9	15	8	10	383	16.0	7
" 30.	6	9	7	10	8	14	5	7	6	13	6	14	7	16	7	17	6	11	7	7	7	8	8	9	12	8	9	6	14	5	8	9	7	7	7	5	7	8	6	5	2	7	6	6	11	3	14	5	209	8.7	7
" 31.	6	6	6	10	8	11	9	11	10	8	14	13	15	15	14	18	15	15	15	17	15	24	16	18	17	18	17	18	17	18	17	12	17	8	16	6	6	14	7	19	7	20	7	23	8	27	7	24	373	15.5	12
Sums.	...	548	...	544	...	515	...	513	...	516	...	522	...	563	...	581	...	594	...	620	...	648	...	631	...	609	...	586	...	585	...	586	...	567	...	556	...	543	...	564	...	589	...	572	...	534	...	515	13601	566.7	...
Means.	...	17.7	...	17.5	...	16.6	...	16.5	...	16.6	...	16.8	...	18.2	...	18.7	...	19.2	...	20.0	...	20.9	...	20.4	...	19.6	...	18.9	...	18.9	...	18.9	...	18.3	...	17.9	...	17.5	...	18.2	...	19.0	...	18.5	...	17.2	...	16.6	438.7	18.3	...

TABLE VIII.

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
1897.												
Mar. 1, ...	10	nim.	...	10	nim.	...	10	str-cum.	ESE	9	cum.	ESE
„ 2, ...	5	cum.	S	8	cum.	SSW	6	sm-cum. / cum.	WSW / ..	10	cum. / fog.	E
„ 3, ...	10	nim.	...	10	cum-nim.	...	10	cum.	E	10	str-cum.	...
„ 4, ...	10	nim.	...	10	nim.	...	10	nim.	...	8	sm-cum. / cum.	W / E
„ 5, ...	10	str-cum.	...	10	str-cum.	...	10	sm-cum. / cum.	E	2	c-cum. / cum.	E
„ 6, ...	10	str-cum.	...	10	cum.	...	4	cum.	ESE	9	sm-cum. / cum.	ESE
„ 7, ...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10	str.	...
„ 8, ...	10	cum.	...	9	cum.	...	10	fog.	...	5	sm-cum. / cum.	SW / ..
„ 9, ...	10	str-cum.	...	8	cum.	...	10	nim.	...	8	cum.	SW
„ 10, ...	7	cum.	...	6	cum.	...	10	fog.	...	10	cum.	E
„ 11, ...	10	nim.	...	10	cum-nim.	...	10	nim.	E	10	nim.	E
„ 12, ...	10	str-cum.	...	10	nim.	...	10	nim.	E	10	nim.	E
„ 13, ...	19	nim.	...	10	nim.	...	10	nim.	E	10	nim.	E
„ 14, ...	10	str-cum.	...	10	str-cum.	...	10	cum.	E	10	cum.	E
„ 15, ...	10	str-cum.	...	10	str-cum.	...	10	sm-cum. / cum.	ESE	7	c-str. / sm-cum.	W
„ 16, ...	10	nim.	SE	10	str-cum.	...	10	sm-cum. / str-cum.	ESE	9	cum.	SE
„ 17, ...	10	sm-cum. / cum.	W / E	10	str-cum.	...	10	sm-cum. / cum.	SE	7	sm-cum. / cum.	WSW / E
„ 18, ...	10	cum.	SE	10	cum.	SE	10	sm-cum. / cum.	ESE	9	sm-cum. / cum.	WSW / ESE
„ 19, ...	8	sm-cum.	W	10	cum.	...	10	fog.	...	9	sm-cum. / cum.	W / SSW
„ 20, ...	10	cum-nim.	...	10	nim.	...	10	nim.	...	10	nim.	E
„ 21, ...	10	nim.	...	10	str-cum.	...	10	cum.	ENE	10	cum.	E
„ 22, ...	10	cum.	...	10	cum.	...	10	str-cum.	...	10	str-cum.	E
„ 23, ...	10	cum.	...	10	str-cum.	...	10	cum-nim.	...	10	str.	...
„ 24, ...	10	nim.	E	10	cum-nim.	E	10	cum.	E	10	str-cum.	E
„ 25, ...	10	cum-nim.	...	10	str-cum.	...	10	sm-cum. / cum.	E	10	sm-cum. / cum.	E
„ 26, ...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10	str.	...
„ 27, ...	10	nim.	...	10	nim.	...	10	sm-cum. / cum.	SE	10	sm-cum. / cum.	SW
„ 28, ...	10	cum-nim.	...	10	cum-nim.	...	8	cum.	...	6	cum.	S
„ 29, ...	7	cum.	SSE	8	cum.	S	8	cum.	S	9	cum.	S
„ 30, ...	10	str-cum.	...	10	str-cum.	...	10	cum. / fog.	S / E	8	cum.	SSW
„ 31, ...	10	str-cum.	S	9	cum.	S	10	cum.	SSE	9	sm-cum. / cum	SW / S
Means, ...	9.6	...	...	9.6	...	...	9.5	...	...	8.8	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Mar. 1,...	1	cum.	SE	7	cum.	S	10	str-cum.	...	7	cum.	...	8.0
„ 2,...	10	nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	8.6
„ 3,...	10	str-cum.	...	10	str-cum.	...	10	nim.	...	10	str-cum.	...	10.0
„ 4,...	10	str-cum.	...	10	str.	...	10	str-cum.	...	7	str-cum.	...	9.4
„ 5,...	1	c-cum.	SE	8	c-cum. / cum.	S / E	10	cum.	E	10	str-cum.	...	7.6
„ 6,...	10	sm-cum. / cum.	ESE	10	cum.	ESE	10	str-cum.	...	10	str-cum.	...	9.1
„ 7,...	7	sm-cum. / cum.	SSE / ..	5	cum.	SSE	10	cum.	...	3	cum.	...	8.1
„ 8,...	3	cum.	S	7	c-cum.	SW	10	cum. / fog.	...	10	fog.	...	8 0
„ 9,...	8	cum.	SW	5	c. / cum.	WSW	8	cum.	W	4	cum.	...	7.6
„ 10,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	str.	...	9.1
„ 11,...	10	nim.	E	10	cum-nim.	E	10	str-cum.	...	10	nim.	...	10.0
„ 12,...	10	cum-nim.	E	10	nim.	E	10	nim.	...	10	cum-nim.	SSE	10.0
„ 13,...	10	cum-nim.	...	10	str-cum.	...	10	cum-nim.	...	10	str-cum.	...	10.0
„ 14,...	10	cum.	E	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 15,...	9	sm-cum. / str.	WSW / ..	4	sm-cum. / cum.	WSW / ..	10	str-cum.	E	10	str.	ESE	8.7
„ 16,...	6	sm-cum. / cum.	SE	10	sm-cum. / cum.	SE	9	c-str. / cum.	ESE	10	sm-cum. / cum.	W / E	9.3
„ 17,...	9	sm-cum. / cum.	E	10	c-cum. / cum.	ESE	10	sm-cum. / cum.	WSW / ESE	9	cum.	SE	9.4
„ 18,...	10	cum.	ESE	10	str-cum.	ESE	10	cum.	ESE	10	cum-nim.	ESE	9.9
„ 19,...	10	nim.	...	10	str.	...	10	str-cum.	...	10	cum-nim.	...	9.6
„ 20,...	10	nim.	ENE	10	nim.	NNE	10	str-cum.	...	10	str-cum.	...	10.0
„ 21,...	10	str-cum.	E	10	str. / R-cum.	ENE	10	str-cum.	...	10	str-cum.	...	10.0
„ 22,...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	...	10	str-cum.	...	10.0
„ 23,...	10	str.	...	10	sm-cum. / cum.	E	10	nim.	...	10	nim.	...	10.0
„ 24,...	10	str-cum.	E	10	c-cum. / cum.	E	10	str-cum.	...	10	nim.	...	10.0
„ 25,...	10	sm-cum. / cum.	E	10	cum.	E	10	str.	...	10	str.	...	10.0
„ 26,...	10	str.	...	10	str.	...	10	str.	...	10	nim.	...	10.0
„ 27,...	10	cum. / fog.	S / E	10	fog.	E	10	cum. / fog.	E	10	fog.	...	10.0
„ 28,...	6	cum.	S	1	sm-cum. / cum.	...	8	sm-cum. / fog.	E	10	fog.	...	7.4
„ 29,...	9	cum.	S	9	cum.	S	10	cum. / fog.	...	4	cum.	...	8.0
„ 30,...	9	cum.	SW	9	cum.	SW	7	str. / cum.	...	7	cum.	...	8.7
„ 31,...	10	cum.	S	9	cum.	S	7	cum.	...	8	cum.	...	9.0
Means,...	8.6	...	...	8.8	...	...	9.6	...	...	9.0	...	...	9.2

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF MARCH, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	2.4	16.9	1.5	0.0	+ 0.9	+ 16.9	E 3° N
2 „	2.4	16.8	1.0	0.0	1.4	16.8	E 5° N
3 „	1.6	16.2	0.6	0.0	1.0	16.2	E 4° N
4 „	1.7	16.1	0.9	0.0	+ 0.8	16.1	E 3° N
5 „	1.4	16.3	1.5	0.0	− 0.1	16.3	E
6 „	1.3	16.3	1.6	0.0	− 0.3	16.3	E 1° S
7 „	1.5	17.4	1.3	0.0	+ 0.2	17.4	E
8 „	2.4	17.9	1.6	0.0	0.8	17.9	E 2° N
9 „	2.3	18.3	1.3	0.0	1.0	18.3	E 3° N
10 „	1.8	19.2	1.5	0.0	+ 0.3	19.2	E 1° N
11 „	1.6	19.9	1.8	0.0	− 0.2	19.9	E 1° S
Noon.	1.5	19.5	1.4	0.0	+ 0.1	19.5	E
1 p.	1.2	18.4	1.6	0.1	− 0.4	18.3	E 1° S
2 „	1.6	18.0	1.8	0.1	0.2	17.9	E 1° S
3 „	1.6	17.7	2.1	0.2	0.5	17.5	E 2° S
4 „	1.2	17.7	1.9	0.2	− 0.7	17.5	E 2° S
5 „	2.1	17.5	1.3	0.2	+ 0.8	17.3	E 3° N
6 „	2.1	17.1	1.0	0.2	1.1	16.9	E 4° N
7 „	2.6	16.6	0.7	0.2	1.9	16.4	E 7° N
8 „	2.6	17.5	0.9	0.2	1.7	17.3	E 6° N
9 „	3.1	18.4	0.5	0.0	2.6	18.4	E 8° N
10 „	2.3	17.8	1.1	0.1	1.2	17.7	E 4° N
11 „	2.5	16.3	1.3	0.1	1.2	16.2	E 4° N
Midt.	2.3	15.9	0.9	0.0	+ 1.4	+ 15.9	E 5° N
Means, ...	2.0	17.5	1.3	0.1	+ 0.71	+ 17.42	E 2° N

PHENOMENA :—

Lunar halo :—on the 16th.

Lunar corona :—on the 8th.

Thick fog :—on the 8th, 9th, 10th and 27th.

Fog :—on the 19th, 24th, 28th, 29th and 30th.

Slight fog :—on the 1st, 2nd, 7th, 25th and 26th.

Haze :—on the 4th.

Unusual Visibility :—on the 20th.

Lightning without thunder :—on the 31st.

Thunder and lightning :—on the 19th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF APRIL, 1897.

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,...	29.693	29.674	29.670	29.651	29.659	29.682	29.687	29.688	29.740	29.746	29.752	29.738	29.724	29.698	29.697	29.703	29.723	29.752	29.773	29.801	29.834	29.854	29.869	29.880	29.737
„ 2,...	.868	.864	.850	.854	.866	.890	.915	.944	.952	.960	.950	.933	.925	.907	.884	.881	.896	.912	.934	.934	.960	.971	.965	.965	.916
„ 3,...	.964	.951	.945	.947	.957	.971	.995	30.005	30.006	30.019	30.007	.988	.966	.933	.919	.919	.923	.923	.925	.947	.973	.970	.967	.974	.962
„ 4,...	.952	.938	.945	.937	.943	.949	.985	.003	.009	.013	.020	.996	.970	.947	.930	.898	.900	.921	.943	.961	.974	.953	.960	.950	.958
„ 5,...	.931	.910	.897	.890	.897	.910	.921	29.936	29.935	29.936	29.916	.897	.864	.844	.823	.811	.811	.818	.845	.854	.848	.877	.871	.864	.879
„ 6,...	.864	.848	.828	.824	.838	.852	.870	.888	.898	.898	.894	.874	.851	.833	.817	.802	.809	.831	.847	.864	.897	.908	.911	.899	.860
„ 7,...	.893	.857	.840	.847	.852	.864	.892	.887	.901	.877	.902	.877	.870	.828	.801	.773	.770	.783	.812	.818	.827	.835	.829	.802	.843
„ 8,...	* .790	* .770	* .754	* .747	* .752	* .761	.775	.795	.802	.793	.795	.768	.744	.717	.696	.690	.693	.702	.716	.736	.760	.772	.785	.785	.754
„ 9,...	.788	.775	.772	.771	.777	.798	.820	.825	.838	.835	.819	.810	.788	.770	.757	.748	.752	.770	.775	.820	.850	.894	.877	.860	.804
„ 10,...	.839	.824	.811	.798	.804	.806	.839	.839	.846	.857	.861	.858	.822	.798	.768	.771	.776	.805	.819	.842	.862	.865	.879	.866	.827
„ 11,...	.853	.842	.833	.833	.843	.866	.889	.912	.924	.934	.933	.896	.873	.857	.829	.836	.844	.861	.880	.893	.917	.920	.923	.923	.880
„ 12,...	.913	.903	.879	.872	.886	.908	.935	.950	.953	.951	.948	.928	.905	.884	.868	.855	.861	.869	.883	.904	.924	.939	.937	.929	.908
„ 13,...	.917	.906	.898	.905	.910	.925	.945	.963	.961	.959	.952	.931	.898	.880	.850	.838	.834	.845	.862	.882	.910	.903	* .902	* .897	.903
„ 14,...	* .891	.884	.873	.872	.879	* .896	.918	.930	.933	.934	.927	.911	.883	.861	.847	.824	.822	.823	.846	.858	.879	.888	.891	.887	.882
„ 15,...	.888	.872	.855	.847	.850	.864	.885	.907	.920	.925	.908	.878	.850	.824	.795	.783	.779	.791	.809	.828	.840	.858	.857	.865	.853
„ 16,...	.860	.850	.851	.860	.871	.878	.871	.895	.899	.898	.905	.880	.840	.820	.809	.810	.792	.803	.818	.845	.869	.886	.891	.894	.858
„ 17,...	.891	.873	.851	.851	.864	.863	.888	.905	.921	.922	.918	.897	.881	.869	.882	.899	.896	.891	.903	.947	.959	30.017	30.007	.974	.907
„ 18,...	.986	.954	.947	.959	.979	.998	30.026	30.043	30.040	30.046	30.037	30.025	30.015	.993	.989	.990	.998	30.020	30.031	30.052	30.066	.083	.064	30.040	30.016
„ 19,...	30.027	30.016	.993	.992	30.002	30.013	.027	.054	.050	.050	.024	29.997	29.970	.948	.922	.908	.900	29.909	29.920	29.931	29.942	29.962	29.961	29.956	29.978
„ 20,...	29.938	29.915	.893	.886	29.900	29.917	29.928	29.936	29.943	29.939	29.928	.910	.880	.858	.836	.816	.816	.833	.843	.861	.861	.877	.870	.868	.885
„ 21,...	.855	.841	.831	.828	.845	.866	.886	.901	.904	.900	.881	.855	.827	.807	.799	.793	.789	.799	.812	.827	.848	.859	.855	.846	.844
„ 22,...	.838	.822	.812	.814	.828	.852	.870	.887	.897	.885	.865	.851	.819	.807	.792	.788	.793	.813	.835	.864	.885	.897	.901	.895	.846
„ 23,...	.893	.876	.865	.866	.872	.876	.882	.904	.909	.904	.894	.879	.861	.837	.824	.815	.800	.802	.807	.814	.830	.835	.830	.825	.854
„ 24,...	.808	.786	.780	.783	.792	.797	.815	.828	.830	.833	.815	.796	.771	.752	.741	.727	.732	.743	.745	.761	.779	.799	.803	.801	.784
„ 25,...	.798	.779	.774	.779	.799	.814	.837	.863	.867	.864	.852	.841	.821	.802	.777	.773	.778	.786	.792	.820	.840	.839	.837	.875	.817
„ 26,...	.877	.869	.879	.879	.914	.931	.943	.969	.979	.991	.968	.944	.929	.904	.891	.885	.884	.895	.903	.920	.936	.961	.951	.938	.923
„ 27,...	.943	.928	.915	.912	.929	.931	.945	.960	.967	.983	.970	.945	.926	.893	.882	.875	.869	.874	.880	.903	.920	.928	.939	.929	.923
„ 28,...	.923	.894	.879	.876	.878	.875	.906	.925	.945	.947	.951	.939	.926	.897	.863	.844	.852	.875	.903	.915	.946	.956	.955	.935	.909
„ 29,...	.925	.904	.892	.894	.897	.905	.925	.944	.952	.951	.944	.937	.902	.883	.871	.857	.860	.867	.881	.895	.915	.928	.936	.931	.908
„ 30,...	.915	.907	.896	.896	.900	.916	.932	.938	.945	.956	.971	.957	.933	.906	.877	.857	.858	.858	.872	.886	.903	.921	.917	.905	.909
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.884	29.868	29.857	29.856	29.866	29.879	29.898	29.914	29.922	29.924	29.917	29.898	29.874	29.852	29.835	29.826	29.827	29.839	29.854	29.873	29.892	29.905	29.905	29.899	29.878

* Interpolated.

TABLE II.

TEMPERATURE FOR THE MONTH OF APRIL, 1897.

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,	66.5	66.0	67.5	68.1	67.7	67.1	68.0	68.0	67.8	65.6	67.0	70.8	69.8	71.0	71.9	70.0	68.8	67.5	66.2	65.2	64.2	63.9	63.2	62.4	67.3	74.5	62.4
„ 2,	61.4	60.1	59.4	59.7	60.5	59.2	60.5	62.4	64.5	66.7	69.5	69.6	69.1	69.6	66.6	65.0	64.5	63.8	63.9	63.7	62.9	62.4	61.1	61.3	63.6	71.4	59.1
„ 3,	61.5	61.0	61.0	61.0	61.3	62.5	62.8	63.4	64.6	66.6	65.8	65.8	67.0	66.1	65.6	66.0	65.0	65.1	65.4	65.1	65.0	64.6	64.3	64.0	64.2	67.7	61.0
„ 4,	63.7	63.3	60.1	58.6	59.3	59.2	59.8	60.4	61.2	61.4	63.8	63.7	65.0	65.4	64.5	64.0	63.1	62.9	63.4	63.7	63.9	64.0	64.4	64 2	62.6	65.6	57.6
„ 5,	64.0	63.5	63.1	63.5	64.2	64.6	65.4	65.9	66.5	66.9	67.5	67.6	68.5	68.1	67.5	67.5	66.9	66.7	66.6	67.1	66.9	66.8	66.9	66.6	66.2	69.2	62.1
„ 6,	66.7	66.9	67.0	67.0	67.1	67.2	67.6	68.4	68.6	69.0	68.6	70.2	72.0	72.1	70.5	70.0	68.9	69.1	67.0	65.9	64.5	64.4	64.5	64.3	67.8	73 5	64.2
„ 7,	64.6	64.3	64.5	64.7	65.2	64.9	65.3	66.5	66.7	67.8	66.8	66.6	66.6	66.5	65.8	66.0	65.4	65.2	64.8	63.7	63.6	63.3	63.4	63 1	65.2	68.2	63.1
„ 8,	63.2	62.9	62.9	62.9	63.3	63.3	63.7	64.6	66.0	68.1	69.6	72.0	74.2	71.8	73.5	72.2	71.5	71.6	70.9	70.2	69.8	68.8	68.3	68.6	68.1	74.8	62.3
„ 9,	68.9	69.1	69.1	68.9	68.0	68.1	68.6	69.5	69.8	69.0	70.4	68.8	67.7	67.0	67.6	67.8	67.0	64.6	64.1	64.2	63.5	63.5	63.6	64.0	67.2	70.4	62.4
„ 10,	64.0	64.0	64.9	65.3	65.6	65.9	66.6	66.5	66.6	65.9	64.6	64.6	64.8	64.9	65.5	64.3	64.2	63.5	63.2	63.2	63.6	64.0	64.1	64.4	64.8	66.8	63.0
„ 11,	64.5	64.4	64.1	64.0	64.0	63.9	63.6	63.7	64.3	65.2	65.6	66.8	66.6	66.3	66.6	66.5	66.4	66.4	66.9	66.6	66.7	66.8	66.8	66.8	65.6	67.1	62.9
„ 12,	66.5	66.0	65.7	65.5	65.3	65.5	65.7	65.7	67.3	68.0	67.0	67.5	68.8	69.0	69.0	69.0	68.1	68.0	67.5	67.7	68.1	67.8	68.0	67.9	67.3	69.3	65.1
„ 13,	67.4	67.6	67.0	66.8	66.7	66.2	67.5	68.3	69.9	71.0	71.4	72.1	71.8	71.9	71.8	71.6	70.0	69 2	68.6	68.3	68.1	68.6	68.6	68.5	69.1	72.8	66.2
„ 14,	68.7	69.2	69.8	69.8	69.8	69.7	70.5	71.1	71.7	73.4	74.4	73.9	73.8	74.8	75.1	74.8	73.5	71.6	72.5	72.5	71.4	72.2	71.9	72.1	72.0	75.3	68.3
„ 15,	72.1	71.9	71.9	71.2	71.2	71.3	71.5	72.4	73.8	75.8	75.8	76.0	78.8	79.6	80.7	77.6	74.0	73.2	73.2	72.4	72.2	72.7	72.4	67.9	73.7	81.2	67.9
„ 16,	66.8	66.1	65.4	65.1	64.9	64.3	64.6	64.8	65.1	66.6	67.4	66.5	67.5	67.1	67.5	66.8	66.4	66.4	66.2	65.6	66.0	66.4	66.2	66.1	66.1	67.9	64.3
„ 17,	65.9	66.1	65.7	65.6	65.1	64.2	64.4	64.1	64.5	64.4	63.6	63.7	63.6	64.2	64.6	62.6	63.6	63.3	64.2	64.2	63.6	62.4	61.7	61.9	64.0	66.1	61.7
„ 18,	61.9	61.4	60.9	60.6	59.9	60.9	60.6	60.6	62.6	64.1	65.9	66.4	64.8	64.8	64.5	63.5	61.9	61.7	62.1	62.5	62.2	62.1	62.2	62.1	62 5	69.3	59.9
„ 19,	61.9	60.5	60.9	59.7	58.7	59.0	60.8	63.5	65.8	66.3	67.5	69.7	70.6	71.0	70.8	69.6	67.8	65.7	64.7	63.7	63.7	63.2	62.3	62.9	64.6	71 2	57.5
„ 20,	63.4	64.8	65.2	64.9	64.2	63.7	65.2	67.6	67.5	68.6	71.3	71.6	72.2	74.6	73.0	69.5	67.6	67.6	67.3	66.6	66.5	66.5	66.5	66.6	67.6	76.3	62.6
„ 21,	66.8	67.2	67.5	67.5	67.6	68.4	70.5	71.7	74.1	74.8	76.9	79.6	79.8	77.3	78.8	78.8	76.3	74.2	72.1	71.2	70.7	70.1	70.3	70.2	72.6	79.8	66.3
„ 22,	70.0	69.9	69.9	69.4	69.6	69.5	71.0	74.6	75.8	78.0	79.8	79.8	80.9	82.1	78.6	75.4	73.2	71.2	70.6	69.3	69.2	68.4	68.4	68.0	73.0	82.6	67.6
„ 23,	67.7	67.4	67.2	67.4	67.8	68.1	68.8	69.8	70.1	70.8	71.3	72.5	73.1	72.6	74.4	72.6	70.6	70.2	69.8	69.6	69.6	70.0	69.9	69.9	70.0	74.4	67.2
„ 24,	70.0	70.2	70.4	70.5	70.5	70.6	71.3	73.9	74.7	74.6	75.5	76.7	76.6	76.5	76.5	76.6	75.3	75.0	74.3	73.1	73.5	72.8	72.3	71.9	73.5	77.9	69.5
„ 25,	72.9	72.0	72.6	72.6	72.5	72.9	73.4	73.5	74.4	76.4	78.7	82.6	83.0	83.2	81.4	80.6	79.8	77.6	75.8	75.4	74.7	74.5	73.6	74.0	76.2	83.2	71.9
„ 26,	74.3	71.0	69.8	69.6	69.4	69.1	69.6	69.8	69.9	69.0	71.8	71.4	71.6	71.5	72.1	71.9	71.1	69.4	70.5	69.8	70.6	70.6	70.2	69.6	70.6	75.7	69.0
„ 27,	69.8	69.6	69.3	69.4	69.6	69.4	70.6	71.1	72.7	74.8	76.0	76.7	77.4	76.6	76.2	76.2	74.1	74.5	73.8	73.3	72.4	72.3	72.0	71.4	72.9	78.2	69.0
„ 28,	71.4	71.8	71.4	71.6	71.9	71.8	72.6	73.8	74.5	74.4	73.3	72.1	72.3	72.7	72.5	71.8	70.5	70.4	70.3	70.4	70.2	69.2	68.8	68.1	71.6	74.7	68.1
„ 29,	68.0	67.8	67.7	67.7	67.2	67.1	67.7	69.3	71.5	74.2	78.6	75.5	77.8	77.5	78.6	79.2	77.8	72.5	71.1	70.8	70.7	70.2	69.5	69.1	72.0	80.3	67.1
„ 30,	68.2	67.7	67.0	66.9	66.1	65.7	66.4	69.5	70.4	70.2	70.6	70.6	70.6	71.6	70.6	70.2	70.7	69.3	68.8	68.7	68.6	68.9	68.9	69.2	69.0	71.6	65 7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	66.8	66.5	66.3	66.2	66.1	66.1	66.8	67.8	68.8	69.6	70.5	71.0	71.5	71.6	71.4	70.6	69.5	68.6	68.2	67.8	67.6	67.4	67.1	66.9	68.4	73.2	64.5

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF APRIL, 1897.

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.
Apr. 1, ...	65.6	65.4	67.3	67.7	67.2	66.5	66.7	66.8	66.7	65.1	65.4	69.6	66.8	66.2	67.3	65.1	63.7	62.2	61.4	60.3	59.4	58.8	58.3	56.5	64.4	115.2
„ 2, ...	55.6	53.6	53.6	52.0	51.6	50.6	50.0	50.9	52.0	53.1	55.5	55.7	55.6	54.7	55.8	56.9	56.4	56.1	56.3	56.1	56.5	56.3	55.9	55.8	54.4	133.3
„ 3, ...	56.6	56.0	56.4	56.3	56.0	57.8	57.6	57.5	58.6	59.6	59.7	58.9	59.7	58.9	57.6	58.0	58.2	59.0	59.2	58.3	58.2	58.0	58.1	56.5	57.9	125.9
„ 4, ...	56.2	54.7	55.2	55.7	56.1	53.9	55.9	55.9	56.8	57.1	58.4	58.5	60.0	60.3	60.1	59.9	59.6	59.6	60.4	60.7	60.9	61.2	61.3	61.1	58.3	121.7
„ 5, ...	61.1	60.8	60.8	60.9	61.2	61.5	62.2	62.9	63.1	63.2	63.6	64.0	63.7	63.6	63.6	64.5	63.9	63.7	64.7	64.9	64.4	64.5	64.3	64.1	63.1	121.4
„ 6, ...	64.4	64.7	64.8	65.0	65.3	65.5	65.9	66.6	67.0	67.7	67.3	68.0	68.7	68.6	67.7	67.3	66.8	67.0	65.9	64.6	63.4	63.2	62.6	60.9	65.8	122.2
„ 7, ...	60.1	59.8	59.3	57.6	57.1	56.8	56.7	56.6	56.5	55.2	54.9	56.4	57.6	59.3	59.6	60.3	61.1	61.3	61.6	61.2	61.1	61.0	61.1	61.1	58.9	124.7
„ 8, ...	60.6	60.4	61.1	61.6	61.9	62.0	62.3	62.8	63.9	65.2	66.9	68.1	70.1	67.9	69.6	68.9	68.6	68.6	67.9	67.7	68.0	66.6	67.6	67.8	65.7	122.9
„ 9, ...	68.0	68.3	68.3	67.7	66.2	66.4	66.6	66.4	66.1	66.1	66.0	65.0	63.7	63.1	62.6	62.6	62.1	61.8	60.3	60.8	61.2	62.1	61.9	62.1	64.4	103.2
„ 10, ...	62.3	62.1	62.6	62.8	62.7	63.1	63.5	64.4	64.5	64.0	64.0	63.7	64.0	63.6	63.1	63.6	63.0	62.3	62.0	61.8	62.3	62.2	62.6	63.0	63.0	71.0
„ 11, ...	63.4	63.4	63.2	62.9	63.0	62.8	62.6	62.6	63.0	63.3	63.7	64.2	64.3	64.2	65.6	64.6	64.7	64.0	64.5	64.6	64.7	64.7	64.8	64.8	63.9	123.1
„ 12, ...	64.8	64.5	64.6	64.7	64.7	64.9	65.0	64.7	65.6	65.5	64.8	64.7	65.7	65.1	66.0	66.8	65.4	65.3	65.2	65.8	66.6	66.6	66.9	66.5	65.4	126.7
„ 13, ...	66.3	66.4	66.1	65.8	64.9	64.2	63.9	64.6	65.5	66.0	66.4	67.5	66.9	67.4	67.7	67.3	67.5	67.0	67.5	67.7	67.7	67.9	67.8	67.7	66.6	128.8
„ 14, ...	68.0	68.3	68.9	68.6	68.7	68.6	69.4	69.9	70.6	71.1	71.6	71.1	71.6	71.8	72.0	71.9	70.3	70.2	71.6	71.4	70.9	71.1	71.0	71.2	70.4	127.6
„ 15, ...	71.1	71.1	71.0	70.3	70.4	70.4	70.8	71.2	71.5	72.2	72.3	72.2	73.4	74.4	74.5	72.2	71.2	71.5	71.4	71.6	71.6	71.7	71.6	67.0	71.5	127.5
„ 16, ...	66.2	65.3	64.4	63.6	63.3	63.1	63.2	62.6	62.3	62.7	62.8	62.4	62.6	62.0	62.5	63.5	63.3	63.8	63.6	63.7	64.1	64.0	63.5	63.4	63.4	118.6
„ 17, ...	62.9	63.2	63.1	63.1	62.5	62.6	62.9	62.9	62.2	62.3	62.0	62.6	62.6	63.2	63.6	60.6	60.8	61.4	62.5	62.6	62.0	61.4	61.3	61.0	62.3	81.4
„ 18, ...	61.0	59.7	58.0	57.6	57.4	56.8	57.3	57.4	58.4	58.6	60.0	58.6	57.7	58.2	57.4	56.9	57.3	56.9	56.2	55.7	55.2	55.0	54.9	54.8	57.4	117.7
„ 19, ...	54.3	54.0	53.9	53.5	52.9	53.1	54.2	56.2	58.5	58.1	58.6	60.5	60.9	62.1	61.8	60.6	60.3	59.2	57.2	58.7	59.0	59.0	58.1	59.0	57.7	124.6
„ 20, ...	59.4	60.7	60.8	60.6	60.0	59.9	58.6	58.7	59.6	60.7	62.7	63.6	62.8	65.2	64.6	64.7	62.4	62.1	62.2	63.2	62.8	62.4	62.5	62.9	61.8	129.7
„ 21, ...	63.3	63.8	64.0	64.2	64.4	64.8	66.6	67.1	68.7	68.3	69.0	69.7	69.8	69.8	69.6	69.9	67.7	65.3	65.7	68.3	68.0	67.7	68.1	67.9	67.2	133.1
„ 22, ...	67.5	67.6	67.4	67.4	67.3	67.4	68.5	70.7	69.8	71.2	71.8	71.1	72.2	72.6	71.6	69.9	68.5	69.5	69.2	67.7	67.4	67.2	67.1	66.7	69.1	131.9
„ 23, ...	65.8	64.9	64.1	63.4	62.9	62.2	62.6	63.0	61.1	62.7	63.1	64.7	66.4	66.3	67.6	67.1	65.8	66.3	66.4	66.5	66.6	67.8	68.0	68.3	65.2	129.7
„ 24, ...	68.6	68.8	69.1	69.2	69.1	69.4	69.9	71.2	71.4	70.9	71.8	72.2	71.9	72.2	72.5	72.6	72.1	72.2	72.0	72.2	71.9	71.6	71.4	71.3	71.1	126.9
„ 25, ...	71.3	71.7	72.1	72.1	72.2	72.3	72.6	72.3	72.1	73.0	73.7	75.7	76.1	75.0	75.2	74.6	74.7	73.7	72.9	72.8	72.7	72.6	72.1	72.9	73.2	138.1
„ 26, ...	73.2	69.7	68.9	68.2	67.8	67.2	67.4	66.9	67.1	66.1	66.9	67.1	67.2	67.6	66.9	66.9	66.4	65.2	65.8	66.3	65.2	66.7	66.9	66.7	67.3	127.6
„ 27, ...	66.1	65.8	65.1	65.4	65.8	66.1	66.7	67.1	67.7	68.7	69.4	69.8	70.1	69.9	69.3	69.4	68.5	69.0	69.0	69.2	69.4	70.2	70.1	70.1	68.2	139.3
„ 28, ...	70.2	70.5	70.3	70.5	70.6	70.6	71.0	71.1	71.2	71.0	70.1	69.3	68.9	69.1	69.2	68.8	68.2	68.5	68.4	68.2	67.3	66.2	65.9	65.8	69.2	111.4
„ 29, ...	66.2	66.1	66.0	66.0	66.5	66.5	67.0	67.4	67.9	67.2	70.2	69.6	69.9	69.6	69.1	70.1	67.5	68.0	68.2	67.7	67.7	67.3	66.7	66.1	67.7	137.2
„ 30, ...	65.8	64.8	64.7	64.7	63.6	63.8	64.2	64.9	65.3	65.0	65.6	65.5	65.6	66.2	65.6	65.0	65.7	64.9	64.9	64.8	64.6	65.6	65.5	65.1	65.1	121.4
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	64.2	63.9	63.8	63.6	63.4	63.4	63.7	64.1	64.5	64.7	65.3	65.7	65.9	65.9	66.0	65.7	65.1	64.9	64.8	64.8	64.7	64.7	64.6	64.3	64.7	122.1

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF APRIL, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	86	0.574	April 1,.....	85	0.568
2 „	86	.568	„ 2,.....	51	.303
3 „	87	.567	„ 3,.....	66	.398
4 „	86	.562	„ 4,.....	76	.432
5 „	86	.557	„ 5,.....	83	.538
6 „	86	.557	„ 6,.....	90	.610
7 „	84	.557	„ 7,.....	67	.416
8 „	81	.557	„ 8,.....	88	.602
9 „	78	.558	„ 9,.....	85	.569
10 „	75	.554	„ 10,.....	90	.553
11 „	74	.563	„ 11,.....	91	.573
Noon.	74	.570	„ 12,.....	90	.602
1 p.	73	.571	„ 13,.....	87	.621
2 „	72	.568	„ 14,.....	92	.724
3 „	74	.575	„ 15,.....	89	.744
4 „	76	.576	„ 16,.....	86	.550
5 „	78	.569	„ 17,.....	91	.540
6 „	81	.574	„ 18,.....	71	.406
7 „	83	.576	„ 19,.....	63	.387
8 „	85	.582	„ 20,.....	71	.476
9 „	85	.581	„ 21,.....	74	.595
10 „	86	.583	„ 22,.....	81	.660
11 „	87	.584	„ 23,.....	76	.559
Midt.	86	.576	„ 24,.....	88	.731
			„ 25,.....	86	.779
			„ 26,.....	84	.626
			„ 27,.....	77	.628
			„ 28,.....	88	.683
			„ 29,.....	79	.622
			„ 30,.....	80	.569
			.....	...	...
Means,.....	81	0.569	Means.	81	0.569

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.
1897.														
April 1,.....	...	...	...	...	...	...	...	0.3	0.1	0.2	0.2	0.1	...	0.9
„ 2,.....	...	0.1	0.8	0.6	1.0	1.0	0.4	0.2	...	...	...	...	...	4.1
„ 3,.....	...	...	...	0.7	0.9	0.9	0.9	1.0	1.0	0.5	0.1	...	...	6.0
„ 4,.....	...	0.1	0.7	0.4	0.1	0.4	0.3	0.7	0.8	0.4	...	0.1	...	4.0
„ 5,.....	...	...	...	...	...	...	0.1	0.2	...	...	...	...	...	0.3
„ 6,.....	...	...	...	...	...	...	...	0.1	...	...	0.1	...	...	0.2
„ 7,.....	...	0.1	0.9	0.3	1.0	0.8	...	...	0.1	0.1	...	...	...	3.3
„ 8,.....	...	...	...	0.2	...	0.1	0.3	0.9	0.6	1.0	0.8	...	...	3.9
„ 9,.....	...	...	...	...	...	...	...	0.1	...	...	...	...	...	0.1
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	0.1	...	0.4	0.1	...	...	...	...	...	0.6
„ 12,.....	...	...	...	0.6	0.6	0.1	0.7	0.7	0.8	...	...	...	...	3.5
„ 13,.....	...	...	0.3	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	...	7.5
„ 14,.....	...	...	...	0.1	0.5	0.9	0.6	0.5	0.7	0.8	1.0	0.3	...	5.4
„ 15,.....	...	...	...	...	...	0.1	0.5	...	0.9	0.9	1.0	0.4	...	3.8
„ 16,.....	...	...	...	...	...	...	0.2	0.2	0.1	...	...	...	...	0.5
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	10.6
„ 20,.....	...	0.2	0.7	0.7	0.8	0.8	0.8	1.0	1.0	0.7	0.4	...	...	7.1
„ 21,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	10.8
„ 22,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.5
„ 23,.....	...	0.3	0.6	0.5	0.7	0.2	1.0	1.0	1.0	0.9	0.4	...	...	6.6
„ 24,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.0
„ 25,.....	...	...	...	...	...	0.7	1.0	1.0	1.0	1.0	1.0	0.9	...	6.6
„ 26,.....	...	...	...	...	...	0.6	1.0	1.0	1.0	1.0	0.6	0.1	...	5.3
„ 27,.....	...	...	...	0.1	0.4	0.9	0.9	1.0	1.0	1.0	1.0	0.8	0.1	7.2
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	0.2	0.8	0.3	0.5	0.4	...	0.3	0.1	...	2.6
„ 30,.....	...	...	...	...	...	...	...	...	0.1	...	0.2	1.0	...	1.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	3.1	8.0	9.1	11.3	13.3	14.4	15.5	15.6	13.5	11.4	7.3	0.2	122.7

TABLE VI.

RAINFALL FOR THE MONTH OF APRIL, 1897.

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.
April 1,	...	...	...	...	...	...	...	...	0.355	0.145	0.150	0.050	...	...	...	...	...	...	...	...	...	...	...	...	0.700	4
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	0.200	0.040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.240	2
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.025	0.035	2
„ 9,	0.015	0.010	...	...	...	0.060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.035	0.010	0.005	0.145	6
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,	...	...	0.005	0.005	0.020	0.010	0.010	0.005	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	...	0.005	0.070	6
„ 12,	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	2
„ 13,	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 16,	0.005	...	...	0.005	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	8
„ 17,	...	...	...	0.050	0.440	0.130	0.010	0.065	...	...	...	...	0.005	0.005	0.030	0.050	0.175	0.130	0.015	0.070	0.120	0.280	0.200	0.020	1.795	17
„ 18,	0.045	0.050	0.080	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.175	4
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	0.010	2
„ 29,	...	0.015	0.010	...	0.015	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	0.050	2
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.070	0.075	0.295	0.100	0.475	0.210	0.025	0.070	0.355	0.145	0.150	0.050	0.015	0.005	0.030	0.050	0.175	0.130	0.015	0.070	0.135	0.320	0.220	0.055	3.240	69

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF APRIL, 1897.

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	21	7	15	7	12	6	13	6	12	7	12	5	14	6	11	24	18	25	23	25	15	27	7	26	8	28	8	32	9	27	16	31	13	31	17	31	11	32	11	30	12	30	9	30	10	31	12	309	12.9	32
" 2	32	7	32	6	30	5	1	12	3	12	2	16	32	13	1	17	1	20	1	17	7	10	8	6	4	6	31	5	9	7	9	9	8	9	9	6	9	7	8	9	8	3	8	2	...	1	...	0	205	8.5	3
" 3	10	2	...	0	...	1	10	2	9	8	6	10	7	14	6	24	6	26	7	28	6	32	7	28	7	26	7	30	7	34	7	32	7	32	7	31	7	35	7	39	7	36	7	38	7	36	6	27	571	23.8	7
" 4	5	31	6	32	7	27	7	26	7	25	7	29	7	24	7	27	7	30	7	25	7	23	8	25	8	23	8	24	8	25	7	27	7	25	7	25	7	24	7	27	7	25	7	31	7	24	7	23	627	26.1	7
" 5	7	23	7	27	7	22	7	21	7	20	7	20	7	20	7	19	7	22	8	21	8	20	8	22	8	21	8	21	8	21	8	23	8	20	8	20	7	16	8	19	9	20	9	18	9	22	8	19	497	20.7	8
" 6	9	16	9	16	9	18	8	19	8	16	8	15	8	13	9	10	9	9	8	7	8	10	9	6	9	4	9	7	9	10	9	17	9	21	7	14	6	24	6	26	7	32	7	35	7	37	7	40	422	17.6	8
" 7	7	35	7	39	7	39	7	37	6	33	7	32	7	32	7	37	7	42	7	44	7	41	6	33	7	27	7	29	7	30	7	29	8	29	7	28	7	26	7	28	7	30	7	29	7	27	7	30	786	32.7	7
" 8	7	26	7	26	8	27	9	26	9	26	8	27	7	26	8	26	8	22	8	18	8	14	5	7	9	5	8	8	7	5	7	4	7	4	7	5	7	5	7	3	7	6	7	7	28	4	...	1	328	13.7	8
" 9	25	5	24	2	24	2	14	6	8	6	8	4	7	7	7	12	10	12	9	17	8	19	7	26	7	32	7	38	7	38	7	37	7	36	7	35	7	38	7	34	6	22	8	10	8	20	9	22	480	20.0	7
" 10	8	24	9	25	7	19	7	24	7	20	8	22	9	15	9	26	8	21	8	17	8	22	8	22	8	28	8	29	8	36	7	32	7	34	7	36	7	32	7	32	7	32	8	33	7	29	8	30	640	26.7	8
" 11	8	30	8	29	9	27	7	32	8	34	8	31	7	29	7	31	7	33	7	30	7	30	8	31	7	29	7	30	7	27	7	25	7	24	8	23	8	24	8	25	7	25	8	26	7	25	7	24	674	28.1	7
" 12	8	25	8	23	7	21	7	21	7	16	7	18	7	18	8	20	9	20	8	25	9	25	9	27	9	27	9	22	9	19	8	22	7	20	7	19	8	13	8	11	7	15	8	13	7	14	6	14	468	19.5	8
" 13	9	17	7	14	9	13	7	13	8	18	8	19	7	26	7	21	6	25	7	22	7	20	8	20	8	23	10	22	9	20	9	17	7	16	7	13	9	11	8	12	9	13	8	22	8	15	8	15	427	17.8	8
" 14	9	14	9	13	10	13	8	18	8	12	7	13	9	14	9	14	8	15	8	14	8	18	8	19	8	18	7	19	7	16	7	22	8	19	7	15	8	11	9	12	7	11	9	12	9	9	10	9	350	14.6	8
" 15	10	7	9	3	7	4	8	7	7	12	8	11	8	11	7	12	8	8	8	4	8	10	8	8	5	6	27	4	27	6	28	4	8	14	7	10	8	11	7	12	7	13	6	13	7	16	6	27	233	9.7	7
" 16	7	28	7	27	6	29	7	28	6	28	6	34	7	33	7	34	7	35	7	32	7	33	7	35	7	32	7	30	7	29	8	29	7	31	7	33	7	31	7	32	7	30	7	31	7	31	7	28	743	31.0	7
" 17	7	28	7	28	7	30	7	32	7	27	7	29	7	27	7	30	7	29	7	33	6	30	7	25	7	20	8	14	2	5	1	10	8	10	3	12	8	14	9	7	6	15	9	7	9	15	6	23	500	20.8	7
" 18	6	14	3	7	32	10	32	12	31	10	1	11	32	4	1	7	1	10	29	7	1	7	32	8	31	7	30	7	32	8	32	9	32	11	32	10	1	11	1	5	32	14	1	18	2	17	1	17	241	10.0	1
" 19	1	17	1	13	1	13	1	9	1	9	1	9	1	6	1	5	1	2	20	6	24	7	24	7	24	10	24	10	25	5	27	6	28	5	31	5	16	6	15	3	16	4	10	5	10	5	10	4	171	7.1	31
" 20	10	2	11	8	7	13	7	10	7	9	8	10	5	9	7	16	7	14	8	11	7	10	8	12	3	7	24	4	25	7	8	14	9	17	9	10	7	12	7	7	8	10	7	9	8	10	7	9	240	10.0	7
" 21	9	9	9	9	9	9	9	9	9	5	7	5	6	2	31	4	22	5	22	8	23	5	24	4	6	5	2	4	28	4	29	3	16	4	29	5	29	6	29	5	29	5	29	3	...	1	...	1	120	5.0	4
" 22	...	0	29	2	...	0	...	0	29	2	29	2	...	0	...	0	24	7	24	8	24	10	25	7	25	7	28	6	8	10	8	14	8	27	6	32	7	29	7	29	7	26	7	25	7	25	7	23	291	12.1	7
" 23	7	24	7	26	7	24	7	23	7	23	7	27	8	31	7	29	7	28	7	28	8	31	7	24	7	24	7	25	7	23	7	20	7	17	7	17	9	18	8	18	9	20	8	20	9	19	8	12	551	23.0	7
" 24	8	13	8	12	8	12	8	11	9	14	8	15	8	15	8	15	7	15	7	18	7	19	8	15	8	16	8	13	8	13	8	11	8	8	10	5	9	6	9	3	...	0	...	1	...	0	..	0	250	10.4	8
" 25	...	0	...	0	...	1	13	2	10	3	7	10	8	15	8	14	8	13	8	10	8	5	30	4	28	3	27	4	2	5	10	7	30	9	30	7	30	5	30	7	...	1	5	4	9	21	8	12	162	6.8	6
" 26	8	24	6	24	7	27	7	27	7	24	8	24	8	26	7	25	7	27	8	25	7	29	9	35	8	29	9	32	7	26	8	28	7	22	7	19	7	15	7	18	7	25	7	23	6	20	6	20	594	24.8	7
" 27	6	20	7	29	7	24	8	24	11	16	8	14	9	18	9	15	9	19	8	18	9	19	10	20	10	21	8	19	10	19	10	18	10	18	10	15	10	10	11	13	10	12	10	12	9	12	8	13	418	17.4	9
" 28	9	13	10	12	8	10	9	9	10	9	9	11	9	8	9	13	9	17	8	20	8	22	8	26	8	25	7	29	7	31	7	30	7	24	8	25	7	16	7	21	6	21	7	29	7	29	7	30	480	20.0	8
" 29	7	25	7	21	8	13	8	10	9	9	9	9	9	7	9	6	1	7	1	13	5	8	23	7	25	5	24	6	29	4	24	5	4	10	9	15	9	18	7	14	7	15	7	18	6	17	7	19	281	11.7	7
" 30	7	20	7	20	7	17	7	16	7	18	7	22	6	17	7	19	7	23	8	16	7	15	7	14	7	12	9	14	9	14	9	13	9	16	9	15	6	14	6	15	6	15	7	15	6	18	6	17	395	16.5	7
.....	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums	...	520	...	508	...	482	...	499	...	476	...	511	...	494	...	539	...	574	...	565	...	559	...	530	...	506	...	513	...	506	...	533	...	545	...	522	...	499	...	497	...	508	...	518	...	529	...	521	12454	518.9	...
Means	...	17.3	...	16.9	...	16.1	...	15.6	...	15.9	...	17.0	...	16.5	...	18.0	...	19.1	...	18.8	...	18.6	...	17.7	...	16.9	...	17.1	...	16.9	...	17.8	...	18.2	...	17.4	...	16.6	...	16.6	...	16.9	...	17.3	...	17.0	...	17.4	415.1	17.3	...

TABLE VIII.

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
1897.												
April 1, ...	10	str-cum.	...	10	str-cum.	...	10	cum.	SSW	10	nim.	W
„ 2, ...	5	c-str.	...	0	...	...	7	sm-cum. / cum.	W / ..	9	sm-cum.	W
„ 3, ...	10	cum.	...	10	cum.	...	10	cum.	...	9	sm-cum. / cum.	WNW / E
„ 4, ...	10	str-cum.	...	10	nim.	...	9	sm-cum. / cum.	W / E	10	cum.	E
„ 5, ...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10	str-cum.	SSE
„ 6, ...	10	str-cum.	...	10	cum.	...	10	str-cum.	...	10	nim.	...
„ 7, ...	10	cum-nim.	...	10	str-cum.	...	9	sm-cum. / cum.	E	6	sm-cum. / cum	W / E
„ 8, ...	10	str-cum.	...	10	cum-nim.	...	10	cum.	SSE	10	cum.	SSW
„ 9, ...	10	nim.	...	10	cum-nim.	...	10	nim.	...	10	str-cum.	...
„ 10, ...	10	cum-nim.	...	10	cum.	SE	10	cum.	E	10	nim.	...
„ 11, ...	10	str-cum.	...	10	nim.	...	10	nim.	E	10	cum-nim.	E
„ 12, ...	10	cum.	...	10	str-cum.	...	10	nim.	E	9	str.	E
„ 13, ...	10	cum-nim.	...	10	str-cum.	...	7	sm-cum. / cum.	W / E	2	sm-cum. / cum.	WSW / E
„ 14, ...	10	cum-nim.	SE	10	str-cum.	SE	10	str.	...	9	cum.	SSE
„ 15, ...	10	cum.	...	10	str-cum.	...	10	fog.	E	10	cum.	S
„ 16, ...	10	nim.	ESE	10	nim.	ESE	10	str-cum.	E	10	str-cum.	E
„ 17, ...	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	E	10	str-cum.	E
„ 18, ...	10	nim.	...	10	str-cum.	...	10	cum-nim.	...	10	str-cum.	...
„ 19, ...	8	sm-cum.	WSW	10	sm-cum.	WSW	1	c-cum.	WSW	4	c-str.	W
„ 20, ...	10	cum.	...	10	cum.	...	8	c-cum. / cum.	E	6	c-cum.	W
„ 21, ...	9	sm-cum.	WSW	4	sm-cum.	WSW	0	...	...	2	c-cum. / cum.	...
„ 22, ...	8	sm-cum.	WSW	7	sm-cum.	WSW	0	...	...	0	...	...
„ 23, ...	10	str-cum.	...	10	str-cum.	...	6	sm-cum. / cum.	ESE	8	sm-cum. / cum.	WSW / E
„ 24, ...	10	sm-cum.	SW	10	cum.	...	7	sm-cum. / cum.	E	1	cum.	...
„ 25, ...	4	c-str.	...	9	cum.	...	10	str.	...	10	sm-cum.	NW
„ 26, ...	7	cum.	...	10	str-cum.	...	10	str.	...	10	str-cum.	E
„ 27, ...	10	str-cum.	...	10	str-cum.	...	10	sm-cum. / cum.	ESE	10	cum.	ESE
„ 28, ...	6	c-str.	...	10	str-cum.	...	10	str-cum.	ESE	10	str-cum.	E
„ 29, ...	10	cum-nim.	...	10	str-cum.	...	10	nim.	...	9	sm-cum. / cum.	N / ..
„ 30, ...	10	str-cum.	...	10	str-cum.	...	10	str. / cum.	E	10	cum.	ESE
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means...	9.2	...	...	9.3	...	...	8.5	...	...	8.1	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
April 1,...	10	sm-cum. / cum.	WSW	9	cum.	SW	4	cum.	...	1	cum.	...	8.0
„ 2,...	10	sm-cum.	W	10	str.	...	10	cum.	...	8	cum.	...	7.4
„ 3,...	6	sm-cum. / cum.	W / ..	8	sm-cum. / cum.	W / ..	9	cum.	...	10	str-cum.	...	9.0
„ 4,...	10	cum.	SE	9	sm-cum. / cum.	SE	10	str-cum.	...	10	str-cum.	...	9.7
„ 5,...	10	cum.	SSE	10	str-cum.	...	10	nim.	...	10	str-cum.	...	10.0
„ 6,...	10	str-cum.	...	9	sm-cum. / cum.	WSW / ..	10	nim.	...	10	nim.	...	9.9
„ 7,...	10	cum.	ESE	9	sm-cum. / cum.	SE	10	str-cum.	...	10	str.	...	9.3
„ 8,...	9	sm-cum. / cum.	W / ..	7	cum.	SSW	10	str-cum.	...	10	str-cum.	...	9.5
„ 9,...	10	nim.	E	10	str-cum.	ESE	10	cum.	SE	10	nim.	...	10.0
„ 10,...	10	str-cum.	...	10	cum-nim.	E	10	cum-nim.	E	9	str-cum.	E	9.9
„ 11,...	10	nim.	E	10	str-cum.	ESE	10	str-cum.	...	10	sm-cum. / R-cum.	SW / ..	10.0
„ 12,...	6	cum.	ESE	10	str-cum.	...	10	str-cum.	...	10	str.	...	9.4
„ 13,...	2	cum.	ESE	9	cum.	ESE	10	cum-nim.	ESE	4	cum.	SE	6.7
„ 14,...	4	cum.	SSE	4	cum.	S	5	str-cum. / fog.	...	8	str. / cum.	...	7.5
„ 15,...	10	sm-cum.	...	0	...	...	2	cum. / fog.	...	8	str-cum. / fog.	ESE / ..	7.5
„ 16,...	9	cum.	ESE	10	str-cum.	E	10	cum-nim.	E	10	cum-nim.	...	9.9
„ 17,...	10	nim.	ENE	10	nim.	NNE	10	nim.	...	10	nim.	...	10.0
„ 18,...	10	str.	...	10	str.	...	10	cum.	...	10	sm-cum. / cum.	...	10.0
„ 19,...	2	c-str.	W	1	c-cum.	...	0	...	...	0	...	...	3.3
„ 20,...	2	c-cum.	W	2	c-str. / sm-cum.	W	9	str-cum.	...	8	sm-cum.	W	6.9
„ 21,...	7	sm-cum.	WSW	0	...	...	0	...	...	7	sm-cum.	...	3.6
„ 22,...	0	...	...	0	...	...	10	str-cum.	...	10	cum-nim.	...	4.4
„ 23,...	4	sm-cum.	...	8	sm-cum.	...	7	sm-cum.	...	8	sm-cum.	...	7.6
„ 24,...	0	...	...	0	...	..	0	...	...	0	...	...	3.5
„ 25,...	1	c-cum.	...	0	...	...	2	sm-cum.	...	2	sm-cum.	...	4.7
„ 26,...	4	c-cum. / cum.	ESE	7	c-cum. / cum.	SSE	7	cum.	SE	9	nim.	...	8.0
„ 27,...	3	c-cum. / cum.	ESE	5	c-cum. / cum.	ESE	0	...	...	0	...	...	6.0
„ 28,...	10	str-cum.	E	10	str-cum.	E	10	cum-nim.	E	10	nim.	...	9.5
„ 29,...	7	sm-cum. / cum.	N / ..	9	sm-cum. / cum.	...	6	sm-cum. / cum.	...	10	str-cum.	...	8.9
„ 30,...	10	str-cum.	...	9	sm-cum. / cum.	ESE	2	cum.	...	7	str-cum.	...	8.5
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	6.9	...	...	6.8	...	...	7.1	...	...	7.6	...	...	8.0

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF APRIL, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.4	16.0	0.6	0.2	+ 2.8	+ 15.8	E 10° N
2 „	3.4	15.8	0.8	0.1	2.6	15.7	E 9° N
3 „	3.1	14.8	0.6	0.1	2.5	14.7	E 10° N
4 „	3.2	15.3	0.6	0.0	2.6	15.3	E 10° N
5 „	3.3	14.7	0.9	0.1	2.4	14.6	E 9° N
6 „	3.2	15.8	0.1	0.0	3.1	15.8	E 11° N
7 „	3.1	15.4	0.4	0.0	2.7	15.4	E 10° N
8 „	3.6	16.7	0.6	0.0	3.0	16.7	E 10° N
9 „	3.9	16.7	0.7	1.0	3.2	15.7	E 12° N
10 „	3.0	16.1	0.3	1.5	2.7	14.6	E 10° N
11 „	2.7	16.9	0.3	1.2	2.4	15.7	E 9° N
Noon.	2.1	15.9	0.7	1.1	1.4	14.8	E 5° N
1 p.	2.3	15.1	0.5	1.1	1.8	14.0	E 7° N
2 „	2.5	14.9	0.7	1.3	1.8	13.6	E 7° N
3 „	2.9	15.0	0.7	0.7	2.2	14.3	E 9° N
4 „	2.9	15.8	0.7	0.9	2.2	14.9	E 8° N
5 „	3.3	16.5	0.7	0.3	2.6	16.2	E 9° N
6 „	4.1	15.5	0.6	0.3	3.5	15.2	E 13° N
7 „	3.3	15.1	0.7	0.2	2.6	14.9	E 10° N
8 „	3.3	15.2	0.5	0.2	2.8	15.0	E 11° N
9 „	4.0	15.3	0.7	0.3	3.3	15.0	E 12° N
10 „	3.1	16.1	0.5	0.2	2.6	15.9	E 9° N
11 „	3.6	16.4	0.7	0.2	2.9	16.2	E 10° N
Midt.	4.1	15.9	0.3	0.1	+ 3.8	+ 15.8	E 13° N
Means,.....	3.2	15.7	0.6	0.5	+ 2.65	+ 15.24	E 10° N

PHENOMENA :—

Lunar corona :—on the 14th.

Fog :—on the 8th, 12th, 13th, 14th and 22nd.

Slight fog :—on the 6th, 15th, 23rd and 24th.

Haze :—on the 21st, 22nd, 23rd, 24th and 25th.

Unusual Visibility :—on the 18th, 19th and 29th.

Dew :—on the 19th, 21st, 22nd, 24th and 25th.

Lightning without thunder :—on the 24th, 26th and 28th.

Thunder without lightning :—on the 1st.

Thunderstorms :—on the 17th, from 3 a.—5.30 a. in NW, distant, and from 5.20 p.—5.40 p. in NW, nearest at 5.20 p. (10^s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MAY, 1897.

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,...	29.898	29.892	29.887	29.891	29.897	29.911	29.921	29.933	29.943	29.940	29.917	29.898	29.863	29.841	29.817	29.806	29.806	29.807	29.810	29.827	29.830	29.831	29.837	29.828	29.868
„ 2,...	.810	.797	.793	.800	.802	.812	.816	.831	.835	.841	.840	.827	.819	.792	.770	.752	.746	.755	.758	.782	.800	.805	.802	.794	.799
„ 3,...	.784	.772	.762	.765	.769	.782	.802	.823	.833	.831	.826	.819	.795	.766	.729	.718	.709	.713	.712	.718	.730	.739	.740	.735	.766
„ 4,...	.721	.708	.704	.691	.698	.705	.714	.731	.737	.735	.716	.698	.662	.635	.621	.607	.597	.601	.600	.610	.626	.630	.642	.628	.667
„ 5,...	.617	.606	* .590	* .590	.587	.600	.634	.657	.678	.677	.656	.644	.616	.589	.566	.554	.546	.551	.551	.567	.578	.583	.574	.555	.599
„ 6,...	.526	.512	.493	.495	.505	.517	.537	.556	.560	.564	.565	.541	.523	.493	.470	.458	.447	.478	.505	.521	.538	.553	.566	.569	.520
„ 7,...	.568	.565	.574	.583	.592	.614	.632	.653	.660	.668	.673	.666	.654	.633	.618	.592	.606	.628	.641	.658	.683	.701	.706	.706	.636
„ 8,...	.686	.682	.671	.662	.675	.703	.723	.730	.740	.744	.743	.716	.673	.667	.626	.628	.629	.633	.648	.674	.690	.699	.685	.689	.684
„ 9,...	.672	.658	.652	.666	.668	.680	.691	.740	.743	.746	.757	.751	.724	.711	.693	.691	.678	.689	.696	.724	.740	.758	.775	.773	.712
„ 10,...	.760	.749	.737	.730	.743	.762	.777	.797	.810	.818	.820	.809	.774	.746	.727	.727	.730	.750	.749	.772	.795	.803	.805	.798	.770
„ 11,...	.793	.784	.777	.775	.774	.788	.809	.825	.834	.837	.821	.809	.788	.768	.751	.747	.739	.745	.751	.766	.784	.800	.805	.805	.786
„ 12,...	.794	.775	.778	.787	.800	.817	.836	.854	.860	.864	.855	.838	.818	.804	.783	.773	.769	.774	.789	.808	.828	.840	.844	.832	.813
„ 13,...	.831	.828	.825	.822	.834	.848	.854	.865	.869	.872	.865	.862	.844	.821	.800	.787	.786	.787	.794	.805	.821	.834	.846	.848	.831
„ 14,...	.835	.825	.818	.821	.825	.843	.849	.863	.870	.868	.863	.853	.841	.805	.790	.777	.780	.776	.794	.815	.822	.831	.844	.821	.826
„ 15,...	.812	.792	.787	.777	.790	.811	.828	.843	.847	.848	.840	.827	.812	.784	.762	.745	.741	.733	.740	.751	.760	.780	.785	.778	.791
„ 16,...	.775	.767	.761	.760	.764	.771	.790	.801	.807	.802	.795	.779	.763	.739	.716	.694	.687	.689	.692	.703	.719	.744	.750	.758	.751
„ 17,...	.752	.751	.740	.730	.732	.749	.755	.771	.782	.776	.767	.758	.742	.712	.692	.680	.663	.664	.675	.686	.716	.728	.731	.725	.728
„ 18,...	.709	.700	.686	.688	.680	.693	.712	.731	.734	.741	.744	.728	.710	.690	.674	.658	.652	.640	.665	.700	.712	.725	.730	.719	.701
„ 19,...	.710	.702	.681	.680	.680	.689	.710	.713	.722	.717	.707	.696	.666	.653	.638	.641	.636	.629	.647	.671	.681	.696	.702	.696	.682
„ 20,...	.679	.661	.650	.646	.647	.660	.674	.681	.678	.684	.678	.667	.653	.637	.620	.598	.595	.610	.623	.645	.669	.702	.699	.676	.655
„ 21,...	.672	.663	.653	.670	.691	.680	.694	.741	.757	.754	.759	.757	.740	.719	.692	.671	.681	.705	.757	.791	.743	.717	.733	.734	.716
„ 22,...	.739	.733	.730	.726	.724	.734	.751	.779	.779	.785	.786	.771	.753	.741	.722	.688	.688	.706	.728	.748	.760	.759	.753	.751	.743
„ 23,...	.732	.721	.699	.696	.700	.710	.726	.735	.759	.761	.749	.726	.710	.685	.662	.659	.660	.676	.696	.722	.734	.744	.749	.737	.714
„ 24,...	.724	.703	.696	.698	.706	.723	.744	.762	.776	.788	.788	.771	.775	.786	.761	.736	.745	.755	.775	.805	.815	.831	.826	.820	.763
„ 25,...	.814	.799	.784	.793	.801	.825	.853	.853	.878	.881	.839	.858	.848	.815	.796	.790	.779	.796	.817	.843	.852	.872	.872	.858	.831
„ 26,...	.826	.823	.823	.827	.839	.858	.876	.898	.914	.909	.903	.876	.853	.832	.822	.810	.802	.829	.848	.868	.875	.864	.855	.845	.853
„ 27,...	.836	.828	.805	.809	.815	.820	.828	.840	.844	.858	.856	.833	.817	.783	.779	.771	.771	.777	.782	.814	.817	.812	.804	.799	.812
„ 28,...	.771	.755	.750	.754	.750	.754	.769	.784	.792	.786	.777	.762	.744	.724	.714	.705	.709	.721	.733	.740	.745	.757	.761	.752	.750
„ 29,...	.737	.724	.714	.717	.716	.728	.739	.742	.747	.754	.753	.738	.718	.694	.683	.665	.663	.663	.670	.682	.701	.724	.727	.726	.714
„ 30,...	.714	.708	.683	.677	.678	.691	.717	.726	.741	.750	.744	.738	.716	.693	.680	.677	.663	.670	.680	.696	.711	.713	.719	.711	.704
„ 31,...	.702	.682	.672	.675	.674	.679	.695	.720	.731	.719	.726	.709	.692	.666	.653	.641	.646	.655	.655	.676	.674	.691	.699	.708	.685
Means,.....	29.742	29.731	29.722	29.723	29.728	29.741	29.757	29.773	29.783	29.784	29.779	29.765	29.745	29.724	29.704	29.692	29.689	29.697	29.709	29.729	29.740	29.751	29.754	29.748	29.738

* Interpolated.

TABLE II.

TEMPERATURE FOR THE MONTH OF MAY, 1897.

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,	69.6	69.7	68.7	69.0	69.0	68.7	69.7	70.6	72.0	72.5	73.0	73.4	71.8	73.0	73.4	73.7	72.7	72.8	70.5	70.6	70.2	69.8	68.9	68.7	70.9	74.3	67.6
„ 2,	68.1	68.2	68.3	68.5	68.8	69.2	70.8	72.8	74.8	74.7	77.1	76.1	77.0	77.0	76.1	76.0	75.4	74.5	73.4	72.8	72.7	72.5	71.8	71.6	72.8	78.9	67.9
„ 3,	71.3	71.2	71.0	71.0	71.2	71.9	72.6	73.4	74.5	75.0	74.7	76.2	75.9	75.2	74.8	74.5	73.2	73.1	72.8	72.7	72.5	72.6	72.6	72.5	73.2	76.7	71.0
„ 4,	72.7	72.8	73.5	73.2	72.6	72.9	73.5	74.4	76.7	77.6	77.6	77.2	78.0	82.4	80.0	78.2	78.8	77.7	76.9	77.5	77.2	77.4	76.9	77.5	76.4	83.8	72.2
„ 5,	77.8	78.1	78.4	78.5	78.8	79.0	80.4	80.7	82.4	82.6	83.0	83.8	84.6	84.8	83.1	82.8	82.0	81.9	81.2	80.8	80.6	81.2	81.2	81.1	81.2	87.0	76.8
„ 6,	81.1	81.1	80.9	81.1	80.9	80.7	80.3	81.9	82.5	83.1	83.6	85.1	85.6	84.8	83.9	83.8	82.6	82.3	82.0	81.2	81.2	81.6	81.4	81.5	82.3	86.5	80.3
„ 7,	81.4	81.3	80.2	79.1	79.0	79.0	78.8	80.6	80.0	83.1	82.8	82.2	81.5	83.6	79.3	78.9	78.6	77.8	77.2	76.7	75.5	75.2	74.6	73.6	79.2	85.3	72.0
„ 8,	73.1	72.9	72.9	73.2	73.1	72.8	72.7	72.9	73.8	73.6	74.8	74.5	75.8	74.8	73.3	73.6	73.6	73.6	73.5	75.0	75.1	74.1	74.0	73.7	73.8	75.8	71.6
„ 9,	74.0	74.5	74.3	74.4	74.6	74.8	75.1	74.8	74.8	75.4	76.1	76.2	76.0	76.3	75.5	75.2	74.5	74.2	73.9	74.3	74.9	75.2	75.1	74.8	75.0	76.3	72.7
„ 10,	74.2	74.0	73.9	73.9	73.9	74.0	74.7	74.5	75.7	76.6	75.5	75.1	75.2	74.6	74.1	75.0	74.8	75.2	74.0	73.3	73.3	74.1	74.0	74.2	74.5	76.7	73.0
„ 11,	74.2	73.9	73.7	73.7	73.6	73.8	75.8	75.5	76.1	77.2	77.8	78.2	79.0	79.7	78.8	78.4	80.4	79.2	78.0	77.6	77.7	77.6	77.2	77.6	76.9	81.7	73.4
„ 12,	77.7	77.6	77.4	77.4	77.4	77.8	79.0	78.9	79.9	81.5	82.8	82.7	82.4	82.8	85.2	85.5	83.5	81.9	81.1	80.9	80.6	80.3	79.3	78.9	80.5	86.1	76.9
„ 13,	78.7	78.6	78.0	77.5	77.6	78.1	79.9	81.5	83.1	81.6	82.6	82.5	82.2	84.0	82.2	84.0	82.2	81.1	80.6	80.0	79.2	78.6	79.2	78.2	80.5	86.0	77.3
„ 14,	77.9	77.8	77.8	77.8	77.4	78.4	80.1	81.8	82.8	84.1	85.0	85.8	86.9	87.8	87.9	86.8	84.5	82.1	81.5	80.3	79.2	78.9	79.0	78.3	81.7	88.7	76.7
„ 15,	78.5	78.6	78.6	78.5	78.1	78.6	80.5	81.5	82.8	83.6	85.8	87.0	86.5	86.8	86.5	85.8	84.5	82.9	81.6	80.8	80.1	78.8	78.5	77.8	81.8	87.9	77.6
„ 16,	77.7	78.5	78.3	77.7	77.2	78.3	80.8	82.0	83.5	85.4	86.6	87.0	87.2	88.3	87.5	85.7	85.2	83.5	81.8	80.1	80.7	80.7	79.5	79.2	82.2	89.4	77.0
„ 17,	79.5	79.9	80.3	80.2	80.6	81.6	82.1	82.7	81.7	84.5	81.7	82.2	80.6	80.6	81.0	79.8	79.8	79.0	78.5	78.9	78.3	78.8	78.6	78.3	80.4	87.5	78.1
„ 18,	79.9	81.6	81.7	81.5	82.0	82.2	83.8	84.8	85.6	85.2	85.8	86.0	86.7	83.9	84.8	85.0	84.2	83.7	83.5	83.5	82.9	82.7	82.3	82.7	83.6	88.1	78.3
„ 19,	82.4	82.6	82.5	82.6	82.6	82.4	84.0	83.5	84.5	85.1	85.8	86.5	85.6	86.0	85.8	85.5	84.6	83.7	83.3	83.1	82.6	83.0	83.2	82.4	83.9	88.0	82.2
„ 20,	82.6	83.0	83.1	82.5	82.6	82.2	83.5	80.4	83.7	84.5	86.4	86.8	85.4	85.7	86.2	87.2	84.8	84.1	83.5	83.4	82.7	82.7	82.8	82.4	83.8	88.3	79.0
„ 21,	82.5	82.6	82.3	79.8	74.8	74.0	76.0	75.8	74.4	75.2	75.2	73.8	74.1	73.8	75.6	75.8	77.5	76.4	76.8	73.6	73.6	73.4	73.5	73.6	76.0	82.6	73.4
„ 22,	75.0	75.2	75.5	75.7	76.7	77.3	78.7	79.4	79.4	78.6	77.8	78.1	79.7	81.0	80.3	80.0	78.7	78.7	78.3	78.2	78.3	77.9	78.2	78.2	78.1	81.7	73.6
„ 23,	78.2	78.1	78.2	78.0	78.1	78.4	80.3	80.3	81.4	85.1	84.5	85.2	86.5	86.6	85.2	86.0	84.6	83.2	82.8	82.5	81.8	81.6	81.9	82.1	82.1	87.1	78.0
„ 24,	81.6	81.3	82.0	82.1	81.2	80.5	81.0	82.2	81.8	79.2	77.4	79.0	79.3	77.1	77.3	77.5	78.5	78.1	78.5	78.4	77.6	77.4	77.1	76.8	79.3	82.3	74.6
„ 25,	76.6	75.7	75.8	75.5	75.3	74.8	74.0	74.5	74.8	75.0	74.5	75.6	76.4	76.6	76.3	75.4	75.6	75.5	75.1	74.8	75.4	76.0	76.0	75.8	75.5	77.1	73.6
„ 26,	75.1	74.9	74.2	74.6	74.3	74.4	74.6	75.3	75.6	76.8	76.6	76.5	77.4	76.6	76.0	75.9	76.0	76.3	76.3	76.6	76.5	76.8	77.0	76.6	75.9	78.0	73.7
„ 27,	76.0	75.9	76.5	76.3	76.2	76.6	78.0	77.8	79.0	79.1	79.8	80.0	80.6	80.2	80.5	79.8	79.3	78.7	78.3	78.0	77.8	77.6	77.4	77.0	78.2	80.6	75.7
„ 28,	76.9	76.5	76.2	76.0	75.5	76.9	78.8	81.1	82.0	83.1	84.5	86.1	86.7	86.1	86.6	85.0	83.8	82.6	81.6	81.4	81.4	80.6	79.7	79.1	81.2	87.5	75.5
„ 29,	79.0	79.3	78.0	78.6	78.6	79.8	80.9	83.0	83.5	85.4	86.7	87.5	87.3	85.8	86.1	85.5	84.5	82.5	82.2	81.6	81.8	81.7	81.5	81.5	82.6	87.5	78.0
„ 30,	81.4	81.2	81.3	81.1	80.9	81.6	82.0	82.6	85.1	87.5	87.7	87.2	87.6	86.9	88.2	86.1	85.5	84.1	83.3	83.2	82.9	82.8	82.6	82.6	84.0	89.1	80.7
„ 31,	82.5	82.6	82.6	82.3	82.3	82.4	82.1	81.2	82.5	86.7	87.0	87.8	88.6	89.0	88.4	87.8	86.1	84.9	84.4	84.1	83.5	83.8	83.7	83.5	84.6	90.0	79.8
Means,	77.3	77.4	77.3	77.1	76.9	77.2	78.2	78.8	79.7	80.6	81.0	81.3	81.6	81.7	81.3	81.0	80.3	79.5	78.9	78.6	78.3	78.2	78.0	77.8	79.1	83.8	75.4

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF MAY, 1897.

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, ...	65.4	64.8	64.2	64.3	64.0	64.7	64.7	64.6	64.7	65.6	65.2	65.5	65.6	65.6	66.0	66.4	66.7	65.6	65.6	66.2	66.4	66.4	66.2	66.1	65.4	126.6
„ 2, ...	66.1	65.8	66.1	66.2	66.7	66.7	67.9	68.5	69.6	68.5	69.6	69.2	69.7	69.8	69.5	70.3	70.7	69.9	69.9	69.6	69.7	69.9	69.4	69.4	68.7	136.7
„ 3, ...	69.5	69.4	69.7	69.6	70.0	70.4	70.6	70.6	70.9	71.0	70.3	71.3	71.0	70.3	70.5	70.6	70.0	70.1	70.2	70.5	70.7	71.0	71.0	71.2	70.4	137.3
„ 4, ...	71.3	71.5	71.7	71.7	71.5	71.6	72.0	72.1	73.0	73.7	73.2	73.6	73.6	74.5	73.6	73.1	73.1	73.3	73.8	74.9	74.9	73.1	73.4	73.6	73.0	139.6
„ 5, ...	74.0	74.4	74.9	75.5	75.6	75.6	76.6	77.0	77.4	77.6	76.9	77.6	77.9	78.2	77.0	78.1	77.6	77.9	77.9	77.7	77.6	77.8	78.2	78.2	77.0	140.5
„ 6, ...	78.4	78.3	78.1	77.9	77.9	77.8	78.0	78.2	78.6	78.6	78.8	79.2	78.7	78.9	78.9	78.3	78.0	77.8	78.0	77.9	78.2	78.3	78.3	78.4	78.3	139.4
„ 7, ...	78.3	78.4	77.8	77.5	77.5	77.5	77.5	77.6	76.4	77.7	77.4	77.1	76.6	77.6	76.6	75.1	74.0	74.0	74.5	74.9	73.9	73.4	73.1	72.7	76.1	146.2
„ 8, ...	72.5	72.1	72.2	71.9	72.1	72.1	72.0	72.1	72.6	72.8	73.4	73.2	74.0	73.6	72.5	73.0	73.4	72.7	73.0	73.9	73.8	73.6	73.3	73.1	72.9	129.1
„ 9, ...	73.5	74.0	73.7	74.0	74.0	74.0	74.0	74.1	74.4	74.3	74.6	74.9	74.6	74.2	74.0	73.9	73.8	73.4	73.4	73.0	73.8	73.7	73.5	73.0	73.9	105.9
„ 10, ...	72.8	72.7	72.6	72.7	72.7	72.9	73.1	73.5	73.9	74.1	73.5	73.5	73.6	73.3	73.3	73.6	73.6	73.6	72.9	72.6	72.6	73.0	72.9	73.1	73.2	119.5
„ 11, ...	73.2	73.0	72.9	72.9	72.9	73.2	73.9	74.3	74.8	75.3	75.9	75.9	76.6	76.6	76.8	76.5	76.9	76.6	76.6	76.4	76.6	76.7	76.8	76.8	75.3	139.6
„ 12, ...	76.8	76.8	76.5	76.5	76.1	76.6	77.1	77.0	77.5	77.9	79.3	78.3	79.2	78.7	78.6	78.4	78.2	77.7	77.9	77.8	77.9	77.7	77.7	77.3	77.6	141.6
„ 13, ...	77.4	77.4	77.1	77.0	77.1	77.2	78.0	78.6	79.0	78.5	78.9	78.5	78.1	78.7	77.5	77.6	76.8	76.1	75.9	76.0	76.2	76.1	76.4	76.3	77.4	140.7
„ 14, ...	76.1	75.9	76.1	75.9	75.5	76.2	76.9	77.5	77.6	78.2	77.1	78.2	78.9	78.9	79.0	77.7	75.7	75.2	74.9	75.4	75.9	76.2	76.3	76.0	76.7	141.2
„ 15, ...	76.6	76.6	76.5	76.5	76.4	76.6	77.3	77.7	77.0	77.1	77.9	76.5	76.6	77.0	76.7	77.1	75.2	75.2	75.3	74.9	76.2	75.8	75.7	76.1	76.4	140.2
„ 16, ...	75.8	76.8	76.9	76.5	75.6	76.1	77.2	77.6	77.6	79.9	79.5	80.0	79.3	80.1	78.8	78.8	79.1	77.8	77.7	77.6	77.6	77.6	77.9	77.8	77.9	139.1
„ 17, ...	78.6	78.6	78.7	77.8	78.4	77.9	77.1	79.4	78.1	78.1	77.9	77.9	77.4	76.9	77.4	76.9	76.8	76.3	76.3	76.4	76.6	76.7	77.2	76.8	77.5	143.1
„ 18, ...	77.4	78.0	78.6	78.4	78.5	78.6	78.7	78.8	78.9	78.6	78.8	79.6	79.8	77.0	79.1	78.3	78.3	78.0	78.5	79.3	79.3	79.2	79.4	78.7	78.7	113.4
„ 19, ...	78.6	78.6	78.6	78.5	78.6	78.6	79.1	78.9	78.7	78.7	79.0	79.2	79.1	80.0	79.9	79.6	79.6	78.9	78.6	78.9	79.2	79.0	79.2	78.9	79.0	139.6
„ 20, ...	78.6	78.8	78.5	78.7	78.7	78.2	78.9	77.1	78.9	79.6	80.1	80.6	79.6	80.2	80.7	80.1	79.5	79.6	79.3	79.7	79.6	79.6	79.6	79.6	79.3	142.0
„ 21, ...	79.2	78.6	78.8	77.0	74.0	73.3	73.7	74.1	73.5	73.8	73.4	72.2	73.4	73.4	74.1	74.6	74.9	74.5	75.6	71.7	71.5	71.7	72.1	72.4	74.2	90.5
„ 22, ...	72.3	73.0	72.5	72.6	73.0	72.9	74.0	75.6	76.5	77.0	76.2	75.5	76.3	77.1	76.8	76.6	76.0	75.9	75.8	76.3	76.3	76.4	76.9	76.6	75.3	137.9
„ 23, ...	76.7	76.9	76.8	77.0	77.1	77.1	78.0	79.0	79.1	79.1	78.4	78.8	79.9	79.1	78.6	79.7	78.0	78.5	78.9	79.1	79.0	78.9	78.6	78.5	78.4	144.7
„ 24, ...	78.3	78.1	77.5	77.6	77.9	78.1	79.2	77.9	80.0	76.8	74.8	75.9	75.5	74.8	75.7	76.2	76.3	75.9	76.3	76.4	76.2	75.6	75.4	75.3	76.7	135.8
„ 25, ...	76.0	75.9	74.8	73.5	73.4	73.3	72.9	72.4	72.3	72.3	72.6	72.7	73.1	73.3	73.1	72.5	73.1	72.6	72.7	72.5	72.7	72.9	72.7	72.6	73.1	123.4
„ 26, ...	72.7	72.2	72.0	72.7	72.6	72.2	71.6	71.6	71.6	71.8	72.1	71.4	72.3	72.1	72.2	72.9	72.3	73.4	73.6	73.6	73.8	74.0	74.3	74.4	72.6	135.6
„ 27, ...	73.6	73.6	73.6	73.5	73.6	74.6	75.7	74.5	75.1	74.9	75.0	76.1	76.5	75.9	76.2	76.1	75.9	75.5	76.0	76.0	76.3	76.5	75.7	75.6	75.2	138.7
„ 28, ...	75.7	75.4	75.3	75.5	75.0	75.9	76.6	76.8	77.1	77.3	77.7	78.6	78.0	77.8	79.9	77.6	77.1	76.8	76.8	76.6	76.8	77.0	77.0	77.4	76.9	140.2
„ 29, ...	76.9	76.8	76.5	76.9	76.8	77.6	77.9	78.7	78.2	78.0	78.8	79.9	79.8	79.1	78.9	77.7	78.1	77.1	77.3	77.7	77.8	77.6	77.2	77.6	77.9	147.8
„ 30, ...	77.5	77.8	77.6	77.5	77.2	77.1	78.1	78.6	78.2	79.6	79.9	79.6	78.0	77.7	77.6	79.0	77.8	77.7	78.0	77.8	78.6	78.9	78.6	78.4	78.2	142.1
„ 31, ...	78.9	78.6	78.7	78.7	78.6	78.6	78.6	78.4	79.0	79.3	79.8	78.9	79.2	79.9	78.7	79.7	79.8	78.3	79.5	79.2	79.1	78.9	78.8	79.5	79.0	146.3
Means, ...	75.1	75.1	75.0	74.9	74.8	74.9	75.4	75.6	75.8	76.0	76.0	76.1	76.2	76.1	76.1	76.0	75.7	75.4	75.5	75.5	75.6	75.6	75.6	75.5	75.6	135.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MAY, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	90	0.846	May 1,.....	73	0.554
2 „	90	.845	„ 2,.....	81	.648
3 „	90	.842	„ 3,.....	87	.708
4 „	90	.840	„ 4,.....	84	.767
5 „	91	.839	„ 5,.....	83	.872
6 „	90	.839	„ 6,.....	83	.916
7 „	88	.846	„ 7,.....	87	.860
8 „	86	.847	„ 8,.....	95	.799
9 „	82	.845	„ 9,.....	95	.824
10 „	80	.840	„ 10,.....	94	.801
11 „	78	.834	„ 11,.....	93	.857
Noon.	78	.835	„ 12,.....	87	.909
1 p.	77	.835	„ 13,.....	87	.900
2 „	77	.830	„ 14,.....	79	.853
3 „	78	.835	„ 15,.....	77	.838
4 „	78	.834	„ 16,.....	82	.899
5 „	80	.831	„ 17,.....	87	.906
6 „	82	.829	„ 18,.....	79	.917
7 „	84	.841	„ 19,.....	79	.926
8 „	86	.845	„ 20,.....	81	.942
9 „	88	.854	„ 21,.....	92	.823
10 „	89	.855	„ 22,.....	88	.840
11 „	89	.858	„ 23,.....	84	.923
Midt.	90	.856	„ 24,.....	89	.885
			„ 25,.....	88	.784
			„ 26,.....	85	.758
			„ 27,.....	86	.835
			„ 28,.....	82	.868
			„ 29,.....	80	.894
			„ 30,.....	76	.888
			„ 31,.....	77	.917
Means,.....	85	0.842	Means.	85	0.842

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.
1897.														
May 1,.....	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.2	11.0
„ 2,.....	...	0.9	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0	1.0	1.0	...	10.6
„ 3,.....	...	...	...	0.1	...	0.2	0.7	0.2	0.4	0.9	0.3	0.1	0.1	3.0
„ 4,.....	...	0.2	0.1	0.7	1.0	0.4	0.1	0.1	0.6	...	...	...	...	3.2
„ 5,.....	...	...	...	...	...	...	0.6	1.0	0.6	0.1	0.6	...	...	2.9
„ 6, ...	...	...	...	0.1	0.6	0.9	0.8	0.8	0.7	1.0	0.9	0.5	0.1	6.4
„ 7,.....	...	...	0.3	0.4	0.7	0.4	0.1	0.1	0.3	...	0.1	...	...	2.4
„ 8,.....	...	...	...	...	...	0.1	...	0.1	...	...	...	...	...	0.2
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	0.1	...	...	...	...	...	...	...	...	0.2	0.1	...	0.4
„ 11,.....	...	0.4	0.8	0.5	0.8	0.5	0.8	1.0	0.6	0.7	0.7	1.0	0.3	8.1
„ 12,.....	0.1	0.4	0.8	1.0	0.6	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.5	10.2
„ 13,.....	0.1	1.0	0.9	1.0	1.0	1.0	0.8	0.9	1.0	0.4	0.9	0.7	0.4	10.1
„ 14,.....	0.1	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.6
„ 15,.....	0.2	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.7
„ 16,.....	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	12.0
„ 17,.....	0.3	1.0	1.0	0.5	0.9	1.0	0.9	0.8	0.9	0.8	0.6	0.6	0.5	9.8
„ 18,.....	...	0.6	0.9	1.0	0.9	1.0	1.0	0.6	0.4	0.8	0.2	0.2	0.3	7.9
„ 19,.....	..	0.6	0.8	0.9	0.9	0.9	1.0	0.9	0.9	1.0	0.6	...	...	8.5
„ 20,.....	...	0.1	...	0.5	1.0	1.0	1.0	0.4	0.4	1.0	0.8	...	...	6.2
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	0.5	0.4	...	...	...	...	...	0.7	0.8	0.9	0.5	0.3	4.1
„ 23,.....	...	0.3	...	0.1	0.7	0.1	0.7	0.8	1.0	0.9	1.0	0.4	...	6.0
„ 24,.....	...	...	...	...	...	0.3	...	...	...	...	...	...	...	0.3
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	0.1	...	0.1
„ 26,.....	...	...	...	...	0.6	0.2	...	0.7	0.1	...	...	...	...	1.6
„ 27,.....	...	0.4	0.1	0.1	0.4	0.3	0.2	0.8	1.0	1.0	1.0	1.0	0.3	6.6
„ 28,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	0.2	11.1
„ 29,.....	0.1	0.9	1.0	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.7	...	10.4
„ 30,.....	0.1	0.7	0.8	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	...	10.5
„ 31,.....	...	0.1	0.2	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	8.6
Sums,.....	1.6	13.0	14.0	15.7	19.1	18.1	18.3	18.9	19.6	19.4	18.6	14.2	5.0	195.5

TABLE VI.

RAINFALL FOR THE MONTH OF MAY, 1897.

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.
May 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	0.050	...	0.110	0.790	0.375	0.490	0.015	0.010	...	0.220	0.040	0.005	0.020	0.025	0.075	0.015	0.985	0.150	0.030	0.020	0.035	1.765	5.225	19
" 9,	1.135	0.175	0.400	1.605	0.350	0.160	0.050	0.175	0.080	0.030	...	...	0.120	0.080	0.025	0.045	0.015	...	...	...	...	...	...	...	4.445	16
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 18,	...	...	...	...	...	...	...	...	...	...	...	...	0.110	0.165	...	...	...	...	...	...	...	...	...	...	0.275	1
" 19,	...	...	...	...	...	...	...	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.035	1
" 20,	...	...	...	...	...	...	...	0.210	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.210	1
" 21,	...	...	...	0.600	0.810	0.105	0.005	0.380	0.890	0.060	0.115	0.060	0.130	0.060	...	...	...	...	...	0.095	0.085	0.035	...	...	3.430	13
" 22,	...	...	...	...	...	...	...	...	...	...	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	1
" 23,	...	...	...	...	0.160	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.160	1
" 24,	...	...	...	...	...	...	...	...	0.275	0.045	...	...	...	0.250	0.020	0.010	...	...	...	...	...	...	0.010	0.025	0.635	5
" 25,	0.030	0.060	0.020	0.005	...	0.010	0.170	...	...	...	...	0.005	...	...	...	...	...	...	0.005	...	...	...	...	...	0.305	9
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	0.005	4
" 27,	0.035	0.005	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	4
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 31,	...	...	...	...	0.035	...	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	1
Sums,	1.200	0.240	0.470	2.215	1.465	1.065	0.625	1.285	1.260	0.145	0.145	0.285	0.400	0.560	0.065	0.080	0.090	0.015	0.995	0.245	0.115	0.055	0.045	1.795	14.860	77

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MAY, 1897.

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	6	19	5	19	7	17	6	17	7	17	7	17	7	20	7	21	7	19	8	14	10	20	10	20	10	19	9	14	9	15	9	11	7	6	31	3	28	4	28	2	...	1	...	0	...	0	28	2	297	12.4	8
" 2	...	1	...	1	...	0	...	0	...	0	...	1	...	0	7	7	7	10	9	11	9	11	9	10	9	11	9	11	8	10	7	8	6	6	8	5	8	4	8	9	8	9	9	7	9	6	9	7	145	6.0	8
" 3	9	6	9	3	9	7	9	4	9	8	9	8	9	12	7	16	7	15	8	14	8	17	10	18	10	20	8	21	8	21	8	19	8	18	9	15	8	13	8	13	7	10	7	10	7	8	7	9	305	12.7	8
" 4	7	9	7	6	6	4	7	7	7	7	7	11	7	11	8	11	8	12	7	15	8	11	8	13	9	11	16	11	15	9	15	6	16	6	16	4	15	5	10	3	9	6	13	5	14	3	16	8	194	8.1	10
" 5	16	7	16	7	16	8	17	5	15	3	17	11	17	12	17	17	18	14	17	15	18	14	18	14	17	13	18	15	18	11	17	12	18	14	18	17	17	11	17	14	18	19	18	19	18	19	18	18	309	12.9	17
" 6	18	21	18	19	18	20	19	21	19	23	20	21	20	20	18	17	18	29	20	22	19	21	19	25	19	29	19	30	18	29	18	36	18	33	19	26	20	22	20	18	21	19	20	18	21	15	20	15	549	22.9	19
" 7	19	18	20	14	22	11	26	5	26	2	22	6	23	8	27	11	26	7	23	4	10	4	9	7	27	9	26	3	10	14	9	18	8	20	8	20	8	21	7	26	7	27	7	26	7	27	7	24	332	13.8	8
" 8	7	26	7	23	7	25	7	26	7	26	7	25	8	20	7	27	7	24	7	23	8	22	8	19	8	17	7	16	9	25	8	20	7	19	8	23	32	23	9	10	9	16	9	20	8	23	7	21	519	21.6	7
" 9	8	20	6	11	8	17	7	11	10	13	9	11	7	15	8	19	7	13	6	9	11	8	10	3	10	2	10	2	10	5	8	13	8	18	8	17	9	18	9	17	9	16	8	17	8	20	8	22	317	13.2	8
" 10	8	22	9	21	6	18	8	21	6	16	8	19	9	19	7	18	7	18	7	19	7	24	8	23	8	25	8	23	8	24	7	22	8	20	8	18	8	23	8	22	9	19	8	19	7	14	8	16	483	20.1	8
" 11	8	18	8	17	7	15	7	17	7	16	8	14	7	15	7	15	7	13	7	10	7	15	7	13	7	14	8	9	7	11	9	8	13	6	12	4	12	8	9	9	9	5	6	5	10	4	13	3	264	11.0	8
" 12	13	3	13	4	...	1	...	0	14	2	14	2	14	3	7	6	7	8	7	7	7	9	9	9	8	9	8	9	16	11	17	10	17	8	16	8	16	5	16	4	16	2	16	2	...	1	..	1	124	5.2	12
" 13	26	2	...	1	...	0	...	1	..	1	...	0	...	0	26	4	29	3	8	8	8	15	8	15	8	9	6	4	10	6	15	11	15	12	15	8	16	6	16	2	8	4	8	4	8	3	8	2	121	5.0	10
" 14	8	2	...	1	...	1	...	1	...	1	8	2	8	2	8	2	31	6	26	8	24	9	24	10	22	9	23	9	23	6	24	7	18	9	18	5	19	5	26	6	26	3	26	4	26	4	26	4	116	4.8	24
" 15	26	5	26	6	23	7	24	7	28	2	28	5	26	4	26	6	28	8	26	7	26	10	22	10	21	13	19	13	18	12	19	8	19	8	17	4	16	6	15	3	...	0	15	5	15	3	26	4	156	6.5	22
" 16	26	4	26	7	26	4	26	4	26	6	26	3	26	4	27	5	27	6	25	6	25	8	24	10	20	9	20	6	22	8	17	8	23	8	17	4	26	4	14	3	7	2	...	0	32	2	30	6	127	5.3	24
" 17	26	5	25	6	23	4	...	0	...	1	17	4	15	4	9	9	8	9	12	14	8	21	8	25	8	23	9	23	8	20	7	16	8	18	7	16	7	11	8	13	7	10	5	8	5	6	6	6	272	11.3	8
" 18	7	5	16	7	17	9	18	10	15	8	16	8	18	7	18	13	19	7	19	10	18	14	18	13	18	18	20	17	19	12	19	16	18	13	18	10	19	8	19	15	18	8	17	7	18	6	18	11	252	10.5	18
" 19	18	14	18	15	18	13	18	12	18	14	18	13	18	11	19	11	19	12	19	13	19	13	17	15	18	14	18	17	18	16	18	13	17	18	18	10	18	9	19	14	16	11	15	10	17	9	18	16	313	13.0	18
" 20	18	16	18	17	17	17	19	16	20	11	19	17	19	19	19	21	18	21	19	22	18	22	18	18	18	18	23	12	18	14	18	17	17	13	17	10	17	6	16	9	16	2	16	2	16	8	17	6	334	13.9	18
" 21	18	8	18	11	17	8	4	22	6	14	8	8	7	7	28	18	25	6	28	3	7	7	4	3	26	4	30	3	22	2	29	2	..	1	19	2	25	15	27	13	9	12	9	15	9	10	3	5	199	8.3	4
" 22	9	7	7	5	9	7	10	8	9	10	9	12	7	12	7	17	8	20	8	17	13	5	7	13	7	15	10	10	9	14	8	23	9	20	7	18	8	16	8	17	9	16	8	16	9	14	9	10	322	13.4	8
" 23	8	16	8	10	8	9	5	5	5	4	2	3	...	1	32	3	...	0	17	7	17	12	18	9	18	9	19	9	18	11	17	9	18	11	18	7	18	3	...	0	18	3	18	2	18	5	17	4	146	6.1	16
" 24	22	2	18	2	19	8	19	9	22	9	27	4	28	4	19	7	27	6	26	4	8	27	7	11	8	19	14	13	8	11	8	12	9	16	8	20	8	20	7	19	7	21	7	22	7	25	7	23	314	13.1	8
" 25	7	21	7	25	7	27	7	29	7	30	7	33	6	28	7	33	7	24	7	26	7	24	7	23	7	26	7	27	7	30	7	28	7	30	7	28	6	27	6	28	7	33	7	29	7	28	7	27	664	27.7	7
" 26	7	35	7	36	7	28	7	27	6	30	7	30	7	33	7	29	7	28	6	29	7	31	7	27	7	27	7	24	7	20	6	22	7	20	7	18	7	14	7	18	6	21	6	21	6	20	6	20	608	25.3	7
" 27	7	18	7	14	7	15	7	12	7	10	7	12	7	15	7	15	7	15	7	17	7	11	10	17	9	19	9	17	8	14	7	17	8	17	7	13	8	12	6	6	7	8	9	7	9	8	9	4	313	13.0	8
" 28	...	1	...	0	...	0	9	3	...	1	...	0	9	3	9	4	22	3	24	4	24	9	24	7	25	9	20	5	24	6	16	10	16	11	17	7	17	3	15	4	17	4	...	0	...	0	26	3	97	4.0	20
" 29	...	0	...	1	26	2	...	0	...	0	...	0	26	2	27	3	26	8	24	9	24	9	25	7	18	7	16	13	22	7	17	12	18	7	19	5	16	6	17	3	15	4	...	1	18	2	18	2	110	4.6	20
" 30	18	5	20	6	18	8	20	6	19	7	20	6	20	8	21	8	19	11	19	10	20	9	18	10	18	12	17	10	20	11	17	8	19	11	18	8	17	5	15	3	16	5	15	4	15	4	15	4	179	7.5	18
" 31	17	5	15	9	16	8	17	9	18	8	17	9	17	9	23	7	20	10	19	13	21	9	21	11	21	13	18	13	19	11	21	12	19	13	19	8	17	8	17	8	17	7	17	7	17	9	16	13	229	9.5	18
Sums	...	335	...	324	...	318	...	315	...	300	...	315	...	328	...	400	...	385	...	390	...	441	...	428	...	452	...	409	...	416	...	434	...	430	...	361	...	341	...	331	...	323	...	312	...	306	...	316	8710	362.9	...
Means	...	10.8	...	10.5	...	10.3	...	10.2	...	9.7	...	10.2	...	10.6	...	12.9	...	12.4	...	12.6	...	14.2	...	13.8	...	14.6	...	13.2	...	13.4	...	14.0	...	13.9	...	11.6	...	11.0	...	10.7	...	10.4	...	10.1	...	9.9	...	10.2	281.0	11.7	...

TABLE VIII.

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
1897.												
May 1, ...	7	cum.	...	1	cum.	...	1	cum.	...	1	cum.	...
„ 2, ...	0	...	...	8	cum.	...	1	sm-cum.	...	0	...	...
„ 3, ...	0	...	...	4	sm-cum.	...	10	sm-cum. / cum.	SE	10	cum.	E
„ 4, ...	10	str-cum.	...	10	str-cum.	...	8	sm-cum. / cum.	SSW / SSE	7	sm-cum. / cum.	WSW / SSW
„ 5, ...	10	cum.	S	10	str-cum.	...	10	sm-cum. / cum.	SSW	10	sm-cum. / cum.	SW
„ 6, ...	10	str-cum.	...	10	str-cum.	SW	10	cum-nim.	SW	8	cum. / R-cum.	SW
„ 7, ...	10	str-cum.	SW	10	str-cum.	SW	9	sm-cum. / cum.	...	9	sm-cum. / cum.	W / S
„ 8, ...	10	nim.	...	10	nim.	...	10	nim.	SSE	9	c-cum. / nim.	SW
„ 9, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	...
„ 10, ...	10	nim.	...	10	nim.	...	10	sm-cum. / cum.	S	10	sm-cum. / cum.	S
„ 11, ...	8	cum.	SE	10	str-cum.	SE	9	cum.	SSE	8	cum.	SSE
„ 12, ...	9	cum.	S	3	cum.	S	9	nim.	SSW	8	cum.	S
„ 13, ...	9	cum.	S	2	cum.	S	1	cum.	...	3	cum.	S
„ 14, ...	7	cum.	S	2	cum.	S	1	cum.	...	2	cum.	WSW
„ 15, ...	1	cum.	...	1	cum.	...	2	cum.	SW	2	cum.	WSW
„ 16, ...	1	cum.	...	1	cum.	...	1	cum.	...	1	cum.	W
„ 17, ...	2	cum.	SSW	2	cum.	SSW	3	cum.	SW	7	cum.	SSW
„ 18, ...	10	cum.	S	8	cum.	SSW	7	cum.	SSW	7	c-cum. / cum.	SSW
„ 19, ...	8	cum.	SW	9	cum.	SW	9	c-cum. / cum.	SSW	8	c-cum. / cum.	SW
„ 20, ...	10	nim.	SSW	8	cum.	SSW	7	c-cum. / cum.	SSW	8	c-cum. / cum.	SW
„ 21, ...	9	cum-nim.	...	10	nim.	...	10	cum-str.	SSW	10	nim.	W
„ 22, ...	8	str-cum.	...	6	cum.	S	8	c-cum. / cum.	SSW	10	cum.	SSW
„ 23, ...	7	sm-cum. / cum.	SSW	9	cum.	S	9	cum.	SSW	8	c-str. / c-cum. / cum.	WSW
„ 24, ...	8	cum.	SW	9	sm-cum. / cum.	SW	8	c-cum. / cum.	SW	9	c-cum. / cum.	SW
„ 25, ...	10	nim.	...	10	cum-nim.	...	10	nim.	...	10	nim.	...
„ 26, ...	5	cum.	...	10	nim.	...	10	cum.	E	9	c-cum. / cum.	E
„ 27, ...	10	nim.	...	10	nim.	...	8	cum.	ESE	9	cum.	ESE
„ 28, ...	0	...	...	0	...	...	0	...	...	3	c-cum. / cum.	WSW
„ 29, ...	0	...	...	2	cum.	...	5	cum.	S	4	sm-cum. / cum.	W / S
„ 30, ...	3	cum.	SW	3	cum.	...	7	cum.	WSW	2	cum.	SW
„ 31, ...	5	cum.	...	6	cum.	SW	10	nim.	SW	2	c-cum. / cum.	SW
Means, ...	6.7	...	...	6.6	...	...	6.9	...	...	6.6	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
May 1,...	0	...	...	0	...	...	2	cum.	...	0	...	...	1.5
„ 2,...	1	sm-cum.	...	0	...	...	0	...	...	0	...	...	1.2
„ 3,...	8	sm-cum. / cum.	SW / ..	8	sm-cum. / cum.	WSW / ..	7	cum.	ESE	3	cum.	ESE	6.3
„ 4,...	9	sm-cum. / cum.	WSW / ..	10	str. / cum.	SW	8	cum.	SW	10	cum.	...	9.0
„ 5,...	8	sm-cum. / cum	SSW	9	cum.	SSW	8	cum.	SW	10	cum.	...	9.4
„ 6,...	9	c-cum. / cum.	SW	8	c-cum. / cum.	W / SW	9	sm-cum. / cum.	SW	8	cum.	SW	9.0
„ 7,...	9	sm-cum. / cum.	W / S	9	sm-cum. / cum.	SSW	10	sm-cum. / cum.	SSW	10	nim.	...	9.5
„ 8,...	10	cum-nim.	SW	10	nim.	S	10	nim.	...	10	str-cum.	...	9 9
„ 9,...	10	nim.	...	10	nim.	...	10	str.	...	10	str-cum.	S	10.0
„ 10,...	10	sm-cum. / cum.	S / ESE	10	sm-cum. / cum.	S / ESE	10	str.	...	10	str.	...	10.0
„ 11,...	7	c-cum. / cum.	SW / SSE	7	c-cum. / cum.	S	5	cum.	S	10	cum.	SSW	8.0
„ 12,...	1	c-cum. / cum.	...	2	cum.	SSW	4	cum.	S	5	cum.	S	5.1
„ 13,...	4	c-cum. / cum.	WSW / SSW	3	cum.	SSW	0	...	...	1	cum.	...	2.9
„ 14,...	1	cum.	...	2	c-cum.	...	0	...	...	0	...	...	1.9
„ 15,...	1	cum.	...	1	cum.	...	0	...	...	0	...	...	1.0
„ 16,...	1	cum.	W	2	cum.	W	0	...	...	1	cum.	SSW	1.0
„ 17,...	7	cum.	SSW	7	c-cum. / cum.	S	7	cum.	S	1	sm-cum. / cum.	...	4.5
„ 18,...	7	cum.	SSW	9	sm-cum. / cum.	SSW	10	c-cum. / cum.	SSW	9	cum.	SSW	8.4
„ 19,...	4	cum.	SW	8	c-cum. / cum.	SSW	10	cum.	SW	10	cum.	SW	8.2
„ 20,...	10	cum.	SW	8	c-cum. / cum.	SW	9	cum.	SW	10	cum.	SW	8.7
„ 21,...	10	nim.	...	10	str-cum.	...	10	str-cum.	...	10	nim.	...	9.9
„ 22,...	9	sm-cum. / cum.	SSW	8	c-cum. / cum.	W / ..	8	sm-cum. / cum.	...	2	cum.	...	7.4
„ 23,...	6	c-cum. / cum.	SW	4	c-str. / c-cum. / cum.	SSW	10	cum.	SW	8	str-cum.	...	7.6
„ 24,...	10	nim.	S	10	cum-nim.	...	10	str. / cum.	E	10	str-cum.	...	9.3
„ 25,...	10	nim.	E	10	nim.	E	10	nim.	E	10	cum-nim.	...	10.0
„ 26,...	9	cum.	E	10	str-cum.	E	10	nim.	E	7	cum-nim.	...	8.7
„ 27,...	4	c-cum. / cum.	SE	1	c-cum. / cum.	...	1	cum.	...	0	...	...	5.4
„ 28,...	2	cum.	...	4	c-cum. / cum.	WSW	2	sm-cum.	...	2	cum.	...	1.6
„ 29,...	6	cum.	WSW	3	c-cum. / cum.	WSW	1	cum.	...	1	cum.	...	2.8
„ 30,...	1	cum.	SW	2	sm-cum. / cum.	SW	0	...	...	2	cum.	...	2.5
„ 31,...	2	c-cum. / cum.	SSW	3	c-cum. / cum.	SW	8	cum.	SW	7	cum.	...	5,4
Means,...	6.0	...	...	6.1	...	...	6.1	...	...	5.7	...	...	6.3

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF MAY, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.2	7.0	2.9	1.7	− 1.7	+ 5.3	E 18° S
2 „	1.4	6.1	3.4	1.8	2.0	4.3	E 25° S
3 „	1.2	6.0	3.3	1.7	2.1	4.3	E 27° S
4 „	1.7	6.4	2.6	1.9	0.9	4.5	E 11° S
5 „	1.5	6.4	2.5	1.6	1.0	4.8	E 11° S
6 „	1.1	6.5	2.8	1.7	1.7	4.8	E 20° S
7 „	1.4	6.8	2.9	2.0	1.5	4.8	E 17° S
8 „	2.3	7.9	2.7	2.9	0.4	5.0	E 5° S
9 „	2.1	7.3	3.0	2.9	0.9	4.4	E 11° S
10 „	1.5	7.3	3.5	3.2	2.0	4.1	E 25° S
11 „	1.0	8.9	3.8	3.1	2.8	5.8	E 26° S
Noon.	0.6	8.5	4.3	3.0	3.7	5.5	E 34° S
1 p.	0.8	8.5	5.0	3.4	4.2	5.1	E 40° S
2 „	0.6	6.9	5.5	3.0	4.9	3.9	E 52° S
3 „	0.4	7.7	5.2	2.7	4.8	5.0	E 43° S
4 „	0.9	7.6	5.9	2.2	5.0	5.4	E 43° S
5 „	0.5	7.5	6.1	2.2	5.6	5.3	E 46° S
6 „	0.7	6.9	4.5	1.6	3.8	5.3	E 35° S
7 „	1.5	5.9	3.5	1.8	2.0	4.1	E 26° S
8 „	1.2	6.8	3.2	1.7	2.0	5.1	E 21° S
9 „	1.0	7.5	2.9	1.0	1.9	6.5	E 17° S
10 „	1.1	7.4	2.7	0.9	1.6	6.5	E 14° S
11 „	1.1	6.9	2.7	1.0	1.6	5.9	E 15° S
Midt.	1.5	6.3	3.1	1.5	− 1.6	+ 4.8	E 19° S
Means, ...	1.2	7.1	3.7	2.1	− 2.49	+ 5.02	E 26° S

PHENOMENA :—

Lunar corona :—on the 21st.

Fog :—on the 13th.

Slight fog :—on the 10th, 12th and 14th.

Haze :—on the 7th, 11th, 16th, 17th, 27th, 28th and 29th.

Unusual Visibility :—on the 12th, 13th, 14th, 15th, 16th and 19th.

Dew :—on the 15th, 16th, 17th, 23rd, 24th, 27th, 28th and 29th.

Rainbow :—on the 17th, 25th and 30th.

Lightning without thunder :—on the 6th, 7th, 18th, 22nd, 23rd, 24th, 28th, 29th, 30th and 31st.

Thunder without lightning :—on the 18th, 23rd and 24th.

Thunder and lightning :—on the 19th and 20th.

Thunderstorms :—on the 8th 2 a.—9th, 2 p., a succession of thunderstorms, general direction from SW to NE, mostly distant, nearest on the 8th at 7.37 a. (20^s), 6.18 p. (18^s), on the 9th 1.15 a. (10^s), 9.0 a. (6^s). On the 21st 1.15 a.—11.30 p., general direction NW—SE, nearest at 8.38 a. (2^s), at 11.0 a. (4^s), at 9.26 p. (6^s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JUNE, 1897.

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,...	29.696	29.677	29.670	29.674	29.672	29.686	29.712	29.724	29.731	29.731	29.715	29.704	29.688	29.676	29.664	29.647	29.648	29.662	29.669	29.685	29.701	29.708	29.703	29.705	29.689
„ 2,...	.706	.702	.690	.683	.684	.703	.720	.727	.731	.735	.736	.725	.711	.691	.677	.655	.660	.665	.676	.692	.688	.711	.702	.693	.698
„ 3,...	.689	.686	.689	.691	.691	.699	.710	.715	.727	.722	.710	.707	.670	.690	.661	.663	.665	.668	.671	.686	.697	.713	.713	.696	.693
„ 4,...	.692	.678	.676	.667	.668	.681	.698	.721	.728	.732	.726	.720	.704	.688	.682	.667	.664	.675	.685	.685	.685	.710	.701	.692	.693
„ 5,...	.686	.679	.679	.681	.685	.695	.715	.724	.732	.729	.723	.714	.712	.695	.679	.666	.666	.667	.676	.698	.710	.718	.714	.697	.698
„ 6,...	.679	.668	.668	.667	.678	.687	.699	.711	.721	.726	.705	.699	.699	.696	.668	.645	.640	.642	.644	.645	.659	.676	.679	.665	.678
„ 7,...	.659	.654	.656	.658	.663	.679	.690	.694	.698	.706	.700	.695	.680	.660	.658	.648	.655	.675	.687	.690	.692	.696	.691	.690	.678
„ 8,...	.687	.677	.678	.681	.681	.693	.725	.730	.748	.740	.730	.735	.735	.719	.707	.703	.699	.704	.725	.746	.752	.766	.771	.765	.721
„ 9,...	.747	.736	.743	.752	.752	.761	.775	.789	.795	.789	.784	.772	.759	.754	.730	.709	.714	.727	.740	.759	.781	.792	.794	.790	.760
„ 10,...	.777	.762	.761	.747	.754	.754	.766	.772	.780	.778	.780	.779	.752	.729	.704	.681	.682	.679	.696	.712	.724	.735	.729	.718	.740
„ 11,...	.708	.700	.685	.680	.687	.705	.720	.730	.744	.742	.736	.710	.688	.672	.642	.640	.636	.637	.651	.669	.681	.697	.701	.693	.690
„ 12,...	.672	.662	.657	.656	.655	.663	.688	.705	.711	.713	.701	.688	.673	.659	.638	.629	.627	.629	.632	.648	.662	.686	.681	.676	.667
„ 13,...	.655	.648	.649	.652	.652	.656	.667	.671	.681	.689	.688	.678	.667	.638	.625	.617	.613	.628	.636	.650	.663	.677	.668	.662	.655
„ 14,...	.664	.668	.661	.660	.662	.670	.676	.676	.677	.678	.679	.676	.665	.643	.622	.600	.596	.589	.598	.608	.632	.653	.643	.637	.647
„ 15,...	.628	.613	.609	.606	.602	.601	.607	.619	.632	.636	.631	.621	.604	.588	.573	.556	.546	.574	.588	.599	.616	.628	.628	.613	.605
„ 16,...	.598	.596	.582	.582	.577	.588	.600	.613	.627	.622	.618	.616	.586	.588	.583	.577	.585	.601	.600	.608	.633	.652	.664	.648	.606
„ 17,...	.620	.614	.613	.615	.617	.619	.642	.646	.658	.656	.664	.651	.640	.621	.612	.596	.595	.610	.637	.640	.649	.650	.646	.636	.631
„ 18,...	.629	.621	.605	.594	.600	.611	.618	.615	.621	.627	.618	.610	.599	.582	.570	.564	.573	.585	.579	.576	.595	.613	.611	.599	.601
„ 19,...	.585	.572	.565	.564	.557	.572	.583	.581	.586	.600	.596	.587	.584	.570	.532	.531	.537	.544	.562	.575	.580	.599	.603	.586	.573
„ 20,...	.573	.563	.558	.554	.553	.554	.556	.566	.566	.571	.560	.553	.532	.520	.506	.501	.490	.495	.504	.511	.523	.534	.526	.516	.537
„ 21,...	.509	.500	.485	.482	.484	.489	.502	.513	.512	.506	.502	.487	.471	.464	.459	.443	.437	.440	.473	.507	.519	.530	.515	.494	.488
„ 22,...	.482	.472	.471	.478	.475	.486	.502	.508	.510	.519	.520	.514	.505	.491	.482	.481	.489	.507	.519	.542	.542	.565	.564	.535	.507
„ 23,...	.512	.504	.497	.495	.513	.522	.531	.534	.542	.539	.532	.530	.520	.511	.496	.487	.481	.492	.508	.531	.536	.551	.546	.527	.518
„ 24,...	.514	.510	.506	.496	.495	.499	.523	.527	.520	.531	.518	.505	.490	.470	.454	.444	.447	.467	.487	.499	.497	.511	.522	.505	.497
„ 25,...	.491	.493	.476	.464	.462	.472	.482	.500	.511	.506	.508	.512	.494	.466	.458	.444	.453	.458	.489	.511	.521	.521	.520	.501	.488
„ 26,...	.474	.462	.458	.452	.450	.460	.480	.492	.491	.488	.473	.456	.440	.424	.401	.384	.372	.380	.400	.417	.437	.435	.410	.407	.439
„ 27,...	.398	.381	.372	.363	.371	.392	.410	.423	.421	.418	.417	.418	.404	.384	.396	.392	.378	.391	.417	.433	.451	.460	.463	.450	.408
„ 28,...	.445	.443	.425	.417	.423	.444	.460	.468	.476	.487	.481	.479	.479	.467	.449	.445	.437	.449	.472	.491	.499	.483	.489	.472	.462
„ 29,...	.464	.446	.431	.434	.436	.451	.458	.466	.468	.477	.468	.463	.457	.442	.429	.430	.421	.434	.456	.477	.480	.495	.502	.483	.457
„ 30,...	.469	.463	.460	.461	.468	.487	.499	.531	.534	.541	.537	.526	.525	.515	.516	.517	.514	.525	.547	.561	.572	.590	.593	.586	.522
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.604	29.595	29.589	29.587	29.589	29.599	29.614	29.623	29.629	29.631	29.625	29.618	29.604	29.590	29.576	29.565	29.564	29.573	29.587	29.602	29.613	29.625	29.623	29.611	29.602

TABLE II.

TEMPERATURE FOR THE MONTH OF JUNE, 1897.

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,	83.6	83.5	83.4	83.1	82.0	82.2	83.6	84.7	85.2	85.5	86.4	86.7	85.9	86.0	86.3	85.8	85.3	85.3	84.3	83.8	83.6	83.6	83.6	82.7	84.4	87.9	82.0
„ 2,	83.5	83.1	83.8	83.1	82.9	80.8	81.5	82.8	84.5	82.4	87.2	87.9	87.8	86.9	86.8	86.8	85.8	85.1	80.4	80.3	82.3	82.6	82.7	82.8	83.9	88.4	80.3
„ 3,	82.6	82.3	82.4	82.4	82.5	83.0	84.3	83.7	83.0	85.7	87.0	84.0	81.4	80.8	80.5	83.2	82.2	81.5	80.8	81.0	81.9	82.2	82.6	82.6	82.7	88.1	80.5
„ 4,	83.4	82.6	82.6	82.5	83.6	82.7	82.4	84.1	84.7	86.6	87.1	87.3	86.1	86.5	87.6	87.8	86.5	84.8	84.4	83.8	83.5	83.7	83.9	83 4	84.6	88.9	82.4
„ 5,	83.3	83.2	82.8	83.3	83.2	83.3	84.7	85.8	85.6	86.8	87.4	88.7	84.0	84.8	84.9	85.0	84.3	84.4	83.6	83.7	83.6	83.2	83.6	83.6	84.5	89.8	82.2
„ 6,	83.4	83.5	82.8	82.5	82.1	82.6	83.3	83.5	83.9	85.5	85.8	86.5	80.0	78.8	79.3	80.8	83.7	83.0	81.3	81.1	82.3	82.8	83.2	83.0	82.7	87.9	76.2
„ 7,	82.8	82.5	82.6	82.4	82.7	82.8	84.2	84.6	86.3	85.4	87.7	86.9	87.5	87.4	86.7	86.4	85.6	84.5	83.5	82 8	82.4	81.9	82.4	82 4	84.3	89.7	81.9
„ 8,	82.4	81.2	80.9	80.9	80.6	80.3	80.0	80.3	81.5	82.5	82.0	81.2	82.0	82.1	82.7	82.5	82.4	82.1	82.5	81.6	81.2	81.1	81.6	81.4	81.5	84.0	78.0
„ 9,	80.8	79.8	74.7	75.8	73.8	75.1	76.1	78.5	79.4	80.9	81.1	82.0	81.5	81.6	81.9	81.5	81.0	81.0	80.1	80.0	79.8	79.8	79.8	79.8	79.4	82.5	73.8
„ 10,	79.7	79.4	79.3	78.8	79.0	80.1	80 8	81.8	83.4	84.2	80.1	78.3	77.0	78.9	79.6	81.1	80.8	80.9	79.8	79.3	78.9	79.1	78.4	79.0	79.9	85.2	77.0
„ 11,	78.2	78.0	77.8	78.0	77.9	81.8	81.5	83.0	84.0	85.2	84.8	86.8	86.9	87.0	86.8	85.7	84.3	83.8	83.0	82.9	82.4	81.8	82.3	81.7	82.7	88.2	77 8
„ 12,	82.0	81.5	80.9	81.4	81.4	81.8	83.0	82.2	83.3	85.0	87.1	87.7	87.5	87.2	87.5	86.4	86.0	84.7	84.1	83.8	83.0	82.6	82.3	83.0	84 0	88.6	80.9
„ 13,	82.6	82.6	82.8	82.5	81.5	82.6	84.6	85.4	85.4	85.0	86.8	87.3	87.1	87.8	87.2	87.4	85.2	84 8	84.6	84.1	83.6	83.4	82.7	82.8	84.6	89.0	81.4
„ 14,	83.2	83.4	83.1	83.2	83.0	83.0	82.1	84.1	85.0	86.6	85.9	86.8	86.8	86.8	88.1	86.6	86.9	85.4	84.6	84.3	83.8	84.1	83.6	82.7	84.7	89.6	82.1
„ 15,	83.1	83.8	83.3	83.5	83.4	83.6	84.6	85.7	85.6	85.2	87.1	87.6	87.5	87.8	87.0	86.3	85.0	83.6	83.2	83.0	82.0	81.9	81.8	80.8	84.4	89.1	80.8
„ 16,	80.6	78.8	77.7	78.6	78.6	79.5	81.3	82.8	79.4	81.7	85.4	84.8	85.2	85.9	85.6	84.8	82.0	80.7	80.5	80.2	79.5	79.8	79.1	79.0	81.3	87.5	77.7
„ 17,	79.1	79.1	78.7	78.7	78.5	79.7	81.8	81.6	83.6	85.8	83.0	82.5	82.2	83.0	81.5	81.8	81.9	81.6	80.4	80.0	80.1	79.6	79.4	79.9	81.0	86.6	78.5
„ 18,	79.9	79.6	78.0	78.2	79.8	79.9	81.3	83.2	83.4	84.4	85.4	86.0	86.8	86.9	86.5	84.9	80.9	80.0	79.3	79.4	79.3	79.1	79.4	79.8	81.7	88.0	78.0
„ 19,	79.5	79.1	77.1	77.7	77.4	78.0	79.1	80.1	82.4	80.8	82.2	82.4	82.4	80.0	80.1	80.0	80.7	80.2	79.8	79.9	80.0	79.8	79.9	79.8	79.9	83 5	76.8
„ 20,	80.9	80.9	80.5	80.8	81.3	81.3	82.1	82.6	82.5	84.7	86.0	85.8	85.9	85.8	85.8	82.9	82.8	81.8	80.6	80.0	80.1	80.2	80.1	79.9	82.3	87.1	79.6
„ 21,	79.1	81.2	79.0	78.9	80.0	79.5	79.6	78.8	81.3	84.1	86.8	87.7	87.8	87.8	87.9	86.2	85.5	84.9	84.3	83.6	83.6	82 6	82.6	82.7	83.1	88.5	77.6
„ 22,	82.6	81.9	81.7	79.4	79.8	80.8	81.6	84.3	85.2	82.8	80.6	79.6	79.5	79.6	78.4	78.0	78.3	78.7	78.4	77.9	77.4	78.5	77.8	77.2	80.0	87.0	77.2
„ 23,	77.3	77.6	76.9	76.8	77.1	77.4	76.9	78.6	79.6	79.6	80.6	80.1	80.1	80.6	80.6	81.1	80.8	80.4	79.6	79.7	79.6	79.5	79.9	79.6	79.2	81.4	76.6
„ 24,	79.6	78.6	76.0	76.4	76.6	77.1	77.6	78.3	80.0	80.1	82.0	81.9	82.6	81.9	81.8	79.1	79.6	77.8	79.2	79.2	78.9	79.1	78.8	78.0	79.2	83.1	76.0
„ 25,	77.8	76.3	76.0	76.7	76.8	78.0	79.5	78.7	77.5	77 1	78.9	78.5	78.5	78.7	80.8	80.4	80.3	79.6	79.6	79.7	79.6	79.8	79.9	79.8	78.7	82.0	75.9
„ 26,	79.6	79.0	79.7	80.1	80.4	81.9	82.5	83.2	83.1	84.6	84.8	85.6	84.8	84.8	85.7	84.8	84.5	83.5	84.0	83.2	83.0	82.6	82.6	82.2	82.9	86.8	79.0
„ 27,	82.2	80.9	80.7	81.7	81.8	81.5	81.4	82.6	83.6	82.8	83.6	84.2	83.4	83.0	82.2	82.0	82.6	82.5	81.9	81.9	81.3	80.8	76.1	75.8	81.7	84.3	75.6
„ 28,	75.9	75.6	76.0	75.9	75.9	75.9	75.0	75.4	74.8	74.8	74.8	75.0	74.5	75.0	75.3	73.6	73.8	73.8	73.9	74.1	74.1	74.0	74.5	74.2	74.8	76.0	73.6
„ 29,	74.3	74.2	73.1	73.3	73.2	73.6	74.8	73.8	73.6	73.5	73.8	73.8	74.3	74.8	74.8	74.0	74.1	73.6	73.3	72.6	73.2	73.6	74.4	75.1	73.9	76.1	72.0
„ 30,	75.0	74.8	74.8	74.9	74.8	75.3	76.1	76.9	79.2	79.4	80.2	81.2	80.2	79.4	78.6	76.8	76.1	76.1	75.7	76.8	76.5	77.5	77.0	76.1	77.1	81.5	74.5
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
Means,	80.6	80.3	79.6	79.7	79.7	80.2	80.9	81.7	82.3	83.0	83.7	83.8	83.2	83.3	83.3	82.8	82.3	81.7	81.0	80.8	80.7	80.7	80.5	80.4	81.5	85.9	78.2

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JUNE, 1897.

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, ...	79.3	79.4	79.3	78.3	78.6	78.1	78.5	78.8	79.2	79.3	79.5	79.6	78.9	79.0	79.2	79.3	78.8	78.9	78.8	79.2	78.6	78.6	79.6	79.8	79.0	138.2
" 2, ...	79.4	79.0	78.9	78.7	78.9	79.0	79.2	79.9	79.9	79.1	80.6	80.6	80.1	79.7	78.9	78.7	79.6	78.0	75.2	76.1	76.2	79.0	79.4	79.0	78.9	144.4
" 3, ...	79.1	78.9	79.0	79.0	78.9	79.1	79.4	79.4	79.6	81.1	80.4	79.7	78.2	78.3	79.0	79.2	79.5	78.2	78.3	78.1	78.8	79.0	79.2	78.6	79.1	148.4
" 4, ...	78.4	78.5	78.4	78.1	78.3	78.6	78.6	78.8	79.0	78.6	79.7	79.9	79.8	80.0	80.5	80.3	80.4	79.4	79.6	79.9	79.7	79.2	79.3	78.7	79.2	143.6
" 5, ...	78.3	78.6	78.1	78.3	78.4	78.7	79.4	79.6	79.9	78.9	79.4	81.1	79.0	79.3	79.6	80.4	79.8	79.2	79.5	79.6	79.6	79.6	78.6	78.6	79.2	152.6
" 6, ...	78.9	78.6	78.7	78.9	79.3	79.3	79.0	79.9	79.2	79.3	79.6	79.9	77.0	77.4	75.9	76.7	78.9	78.1	78.2	78.0	80.0	79.6	79.5	79.8	78.7	142.8
" 7, ...	79.9	79.1	79.0	79.1	78.8	78.9	79.1	78.9	79.9	78.1	79.8	78.2	78.6	79.2	78.6	79.8	79.3	79.0	79.4	78.9	79.3	79.3	79.4	78.3	79.1	143.1
" 8, ...	79.3	78.4	78.3	78.4	78.5	77.1	77.6	78.2	79.0	78.0	78.1	78.0	77.7	78.6	78.0	78.6	78.5	78.7	78.6	78.4	78.7	78.6	78.6	78.3	78.3	145.2
" 9, ...	78.7	77.6	74.5	75.5	73.0	74.7	74.2	74.6	76.2	77.6	77.2	77.8	76.9	77.0	77.1	76.9	77.0	76.6	76.7	76.7	76.6	77.0	77.3	77.4	76.5	144.4
" 10, ...	77.5	77.3	76.8	76.9	77.4	77.7	77.9	78.6	79.1	79.6	77.6	76.3	75.1	75.8	77.2	76.7	76.8	76.7	76.2	76.4	76.7	75.7	75.8	76.9	77.0	145.5
" 11, ...	76.6	76.7	76.6	76.6	76.7	78.8	78.7	79.1	79.4	78.9	77.8	80.3	80.1	77.9	78.1	77.7	78.0	78.5	78.9	78.0	78.4	78.3	78.2	77.8	78.2	143.8
" 12, ...	77.6	77.6	78.1	77.6	77.7	78.0	78.1	78.1	78.6	78.8	79.1	79.6	79.6	79.1	79.4	79.3	79.0	78.8	78.6	78.8	79.0	79.5	79.5	78.6	78.7	144.4
" 13, ...	78.5	78.3	78.0	77.2	78.0	77.3	78.5	78.8	78.7	78.1	79.9	79.5	80.1	81.0	79.9	80.2	79.0	79.3	79.5	78.7	78.8	78.6	78.4	78.4	78.9	146.8
" 14, ...	78.3	78.2	78.5	78.5	78.4	79.0	78.9	80.2	80.1	80.3	80.9	80.0	79.8	79.7	80.0	79.7	79.9	78.3	78.7	78.5	79.5	79.0	78.7	79.7	79.3	145.2
" 15, ...	79.4	79.5	78.9	78.7	78.6	78.9	79.4	79.0	79.6	80.6	80.2	80.1	80.4	80.5	79.7	80.1	78.9	79.4	80.2	80.2	80.4	80.2	80.4	79.1	79.7	147.2
" 16, ...	79.6	75.9	76.3	76.6	77.1	78.1	79.1	79.3	78.2	78.6	80.7	80.8	79.6	77.9	79.0	79.6	77.6	77.0	77.9	78.0	78.1	77.1	77.1	76.5	78.2	142.5
" 17, ...	77.0	77.2	77.4	76.9	77.3	77.7	78.6	79.3	79.9	79.8	77.6	77.6	77.7	78.0	78.3	78.7	78.5	77.6	78.2	77.7	78.2	77.6	77.7	78.3	78.0	144.6
" 18, ...	78.6	78.8	77.2	77.3	78.6	78.7	78.9	79.1	80.2	79.5	80.9	80.3	79.7	79.6	78.7	78.1	77.2	77.6	77.4	77.2	77.0	77.5	77.7	78.3	78.5	149.9
" 19, ...	78.3	78.2	76.1	76.7	76.9	77.7	77.8	78.0	79.1	79.8	79.8	79.6	79.1	79.1	78.8	78.2	78.2	78.9	78.9	78.8	79.3	79.2	79.2	78.2	78.5	134.4
" 20, ...	79.4	78.8	79.2	79.1	79.4	79.3	80.0	80.1	80.1	80.1	80.1	80.1	80.9	80.6	80.7	80.5	79.9	78.9	79.3	78.8	78.9	78.7	78.7	78.0	79.6	140.0
" 21, ...	78.0	78.8	78.1	78.0	78.0	78.7	79.1	78.5	79.3	81.1	82.1	82.5	82.1	81.2	80.3	79.9	80.6	79.9	80.0	79.9	80.2	80.7	80.5	80.3	79.9	144.3
" 22, ...	80.7	80.6	80.9	77.9	78.2	78.7	78.6	79.9	80.8	80.1	78.9	78.6	78.2	78.0	76.9	76.5	76.5	76.3	76.0	75.9	75.6	75.3	75.9	75.6	77.9	139.6
" 23, ...	75.3	75.4	74.8	74.4	73.9	74.1	73.4	74.1	74.5	73.7	74.7	75.0	75.2	74.8	75.6	76.4	76.7	76.2	76.8	76.4	77.0	76.3	76.2	75.7	75.3	138.8
" 24, ...	76.0	75.7	75.7	75.9	75.9	75.8	76.0	76.2	76.7	76.2	77.3	76.9	77.7	77.0	77.4	76.2	77.6	77.1	77.9	77.8	77.7	77.7	77.5	77.6	76.8	149.6
" 25, ...	77.5	76.0	75.8	76.4	76.2	76.8	77.7	77.8	76.8	77.0	77.0	77.1	77.3	77.6	79.0	77.7	77.4	77.6	78.1	78.2	78.3	78.6	78.7	79.3	77.5	138.3
" 26, ...	79.0	78.8	78.8	78.9	79.4	79.6	80.3	80.1	80.2	80.6	80.5	80.6	80.4	80.5	81.0	80.6	79.9	79.2	78.4	79.0	79.2	79.4	79.9	79.9	79.8	133.9
" 27, ...	79.8	79.9	79.4	79.3	79.2	79.7	79.6	80.6	80.5	78.9	79.9	79.6	78.2	78.8	78.6	78.7	78.5	79.1	78.9	78.6	78.6	79.2	75.9	75.6	79.0	110.5
" 28, ...	75.4	75.4	74.9	74.9	74.8	74.9	74.6	75.0	74.6	73.7	73.7	73.2	73.1	73.7	73.0	72.6	72.7	73.0	72.8	72.9	72.7	72.8	73.3	72.8	73.8	96.3
" 29, ...	71.9	73.5	72.7	72.7	72.0	72.0	71.9	71.6	71.8	71.5	71.5	71.8	71.5	71.3	71.3	71.0	70.9	71.1	70.6	71.2	71.1	70.6	70.8	72.3	71.6	100.3
" 30, ...	70.7	70.3	69.7	69.8	69.9	69.9	70.1	71.0	72.6	71.0	72.7	71.3	70.0	70.2	71.0	70.6	71.0	71.0	70.8	71.3	71.4	71.5	71.2	72.8	70.9	140.2
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	77.9	77.6	77.3	77.2	77.2	77.5	77.7	78.1	78.4	78.3	78.6	78.5	78.1	78.0	78.0	78.0	77.9	77.6	77.6	77.6	77.8	77.8	77.7	77.7	77.8	139.3

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JUNE, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	88	0.923	June 1,.....	77	0.919
2 „	88	.914	„ 2,.....	79	.922
3 „	90	.909	„ 3,.....	85	.947
4 „	89	.903	„ 4,.....	77	.926
5 „	89	.903	„ 5,.....	78	.927
6 „	88	.912	„ 6,.....	83	.928
7 „	86	.910	„ 7,.....	78	.925
8 „	85	.917	„ 8,.....	86	.927
9 „	83	.923	„ 9,.....	87	.875
10 „	80	.908	„ 10,.....	87	.890
11 „	79	.913	„ 11,.....	81	.906
Noon.	78	.907	„ 12,.....	78	.911
1 p.	79	.897	„ 13,.....	77	.912
2 „	78	.891	„ 14,.....	77	.928
3 „	78	.891	„ 15,.....	80	.952
4 „	80	.897	„ 16,.....	87	.925
5 „	81	.899	„ 17,.....	87	.920
6 „	83	.894	„ 18,.....	86	.933
7 „	85	.904	„ 19,.....	93	.957
8 „	86	.907	„ 20,.....	88	.976
9 „	87	.917	„ 21,.....	86	.979
10 „	87	.917	„ 22,.....	91	.929
11 „	88	.916	„ 23,.....	82	.827
Midt.	88	.917	„ 24,.....	89	.890
			„ 25,.....	94	.929
			„ 26,.....	87	.977
			„ 27,.....	88	.956
			„ 28,.....	95	.822
			„ 29,.....	89	.745
			„ 30,.....	72	.674
			.....	...	...
Means,.....	84	0.908	Means.	84	0.908

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.
1897.														
June 1,.....	...	...	...	0.4	0.6	0.7	0.6	0.1	0.1	1.0	0.9	0.3	0.3	5.0
„ 2,.....	...	...	0.6	0.4	0.3	0.9	1.0	1.0	1.0	1.0	1.0	0.8	0.2	8.2
„ 3,.....	...	0.9	0.2	...	0.6	1.0	...	...	...	...	...	...	...	2.7
„ 4,.....	0.1	0.3	0.6	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	9.9
„ 5,.....	0.3	1.0	0.9	0.9	1.0	1.0	0.8	0.1	...	...	0.2	...	...	6.2
„ 6,.....	...	0.2	0.3	0.3	0.6	0.9	0.8	0.2	...	...	0.2	0.7	...	4.2
„ 7,.....	0.2	1.0	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.8	...	...	9.7
„ 8,.....	...	0.1	...	0.2	0.9	0.7	0.4	0.8	1.0	1.0	0.9	1.0	0.5	7.5
„ 9,.....	...	...	...	0.3	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.2	...	7.4
„ 10,.....	0.1	...	0.3	0.9	0.7	0.2	...	...	...	...	...	...	...	2.2
„ 11,.....	0.2	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.1	...	9.9
„ 12,.....	0.1	0.7	0.4	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	0.1	10.0
„ 13,.....	0.2	0.8	1.0	1.0	0.5	0.9	1.0	1.0	1.0	1.0	1.0	0.7	0.2	10.3
„ 14,.....	...	...	0.7	0.8	0.6	...	0.7	0.9	0.9	1.0	0.8	1.0	0.7	8.1
„ 15,.....	0.1	0.9	1.0	0.8	0.9	1.0	0.9	1.0	0.7	0.1	0.5	0.1	...	8.0
„ 16,.....	...	...	...	...	0.1	0.2	...	...	...	...	...	...	..	0.3
„ 17,.....	0.4	1.0	0.6	0.5	0.8	0.3	0.1	...	...	...	0.1	0.7	0.1	4.6
„ 18,.....	...	...	0.6	0.7	0.6	0.9	0.8	1.0	0.8	0.7	...	...	...	6.1
„ 19,.....	...	...	...	0.6	0.1	...	...	...	...	...	...	...	...	0.7
„ 20,.....	...	...	0.3	...	0.2	...	0.1	...	...	...	...	...	...	0.6
„ 21,.....	...	...	...	0.2	0.6	0.9	1.0	0.9	0.5	0.7	...	...	0.2	5.0
„ 22,.....	...	0.2	1.0	0.5	0.4	...	...	...	...	...	...	...	...	2.1
„ 23,.....	...	...	1.0	0.8	0.5	1.0	1.0	1.0	1.0	1.0	0.9	0.1	...	8.3
„ 24,.....	...	...	...	0.2	...	0.4	0.4	0.6	0.1	...	...	...	...	1.7
„ 25,.....	...	...	...	...	...	...	...	...	0.2	0.9	...	...	...	1.1
„ 26,.....	...	...	...	...	...	...	...	...	...	0.1	...	...	...	0.1
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	0.2	...	0.7	0.7	0.2	...	...	...	...	...	1.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	1.7	7.8	11.4	13.3	15.0	16.7	15.3	13.8	12.1	13.4	11.0	7.7	2.5	141.7

TABLE VI.

RAINFALL FOR THE MONTH OF JUNE, 1897.

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.
June 1,	...	...	...	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.070	0.005	0.105	2
" 2,	0.060	...	...	...	...	...	0.075	...	...	0.075	...	...	...	...	...	...	...	0.340	0.120	...	...	...	...	...	0.670	2
" 3,	...	...	0.065	...	...	0.015	...	0.015	...	...	0.020	...	0.110	0.220	0.015	...	...	...	...	...	...	...	...	...	0.460	7
" 4,	...	...	...	0.005	...	...	...	0.045	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	0.055	1
" 5,	...	...	0.010	0.015	...	...	...	...	...	...	...	0.075	...	...	0.005	...	...	...	...	...	...	...	...	...	0.105	1
" 6,	...	0.065	...	0.065	...	...	...	0.020	...	...	...	...	0.030	0.980	...	...	...	...	...	...	...	...	...	...	1.160	2
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	...	0.170	0.070	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.260	1
" 9,	...	0.950	2.550	1.500	0.075	0.060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5.135	5
" 10,	...	...	...	...	...	...	...	...	...	...	0.010	0.065	0.100	0.035	...	...	...	...	...	...	...	...	...	...	0.210	4
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12,	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...
" 13,	...	...	..	...	0.050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.050	1
" 14,	...	...	...	...	...	0.015	...	...	...	0.060	0.010	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	0.095	1
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.010	0.030	1
" 16,	0.075	0.070	0.025	...	0.005	...	...	...	0.025	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.220	4
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	0.025	0.025	...	...	...	...	...	...	...	...	...	...	0.050	1
" 18,	...	...	0.260	0.015	0.015	...	0.090	...	0.025	...	...	0.005	...	...	...	...	0.020	...	0.065	0.010	...	...	...	...	0.505	7
" 19,	...	0.020	0.025	...	0.035	...	...	...	0.020	0.250	0.030	0.010	0.175	...	...	...	...	...	...	...	...	...	...	...	0.565	5
" 20,	...	0.020	...	0.225	...	...	...	...	..	...	...	...	...	...	...	0.030	...	...	...	...	...	...	...	...	0.275	2
" 21,	...	...	0.245	0.060	0.230	0.015	0.820	0.310	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1.680	4
" 22,	...	...	0.010	0.010	...	...	...	...	...	...	0.520	0.060	0.010	...	...	...	...	...	...	...	...	...	...	...	0.610	9
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	0.180	0 210	0.100	...	...	0.010	...	...	...	...	...	...	...	...	0.050	0.220	0.770	0.230	0.130	...	...	...	...	1.900	10
" 25,	...	0.240	0.120	...	0.005	...	0.005	0.230	0.585	0.095	0.045	0.035	0.025	...	...	...	...	...	...	...	...	...	0.150	0.060	1.595	12
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	0.005	0.005	...	0.020	4
" 27,	0.010	0.390	...	...	0.015	0.065	0.025	...	...	...	...	...	...	...	0.015	0.020	...	0.015	...	...	...	0.120	0.210	0.165	1.050	14
" 28,	0.255	0.450	0.500	0.860	0.380	0.540	0.410	0.245	0.025	0.040	0.020	0.180	0.160	0.055	0.085	0.290	0.210	0.320	0.245	0.095	0.355	0.175	0.120	0.015	6.030	23
" 29,	0.010	0.040	0.090	0.110	0.005	...	0.005	0.010	0.055	0.040	0.030	0.020	0.015	...	...	...	...	...	...	0.025	...	...	...	..	0.455	16
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	0.005	0.005	...	...	...	...	0.035	0.055	4
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.410	2.425	4.120	2.995	0.815	0.880	1.510	0.875	0.755	0.580	0.685	0.450	0.650	1.315	0.120	0.395	0.455	1.450	0.670	0.265	0.365	0.300	0.575	0.295	23.355	143

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JUNE, 1897.

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	16	16	16	14	18	20	18	14	18	16	18	16	18	11	18	13	18	17	16	12	18	18	18	12	18	15	17	19	17	15	18	13	17	11	18	14	17	7	16	8	17	6	17	3	15	11	17	12	313	13.0	17
" 2	17	14	18	13	19	13	15	10	19	9	26	8	29	7	25	3	18	8	20	10	17	17	18	15	19	13	17	14	17	15	18	8	17	12	19	11	6	3	6	3	16	9	16	10	15	10	14	12	247	10.3	18
" 3	16	10	15	10	16	12	16	9	15	9	15	8	15	6	16	7	12	4	14	10	14	15	15	9	18	10	20	7	...	1	17	4	17	7	16	6	13	6	15	10	15	13	16	7	14	9	18	8	197	8.2	15
" 4	19	11	17	13	18	18	18	16	18	11	18	11	17	12	18	15	18	18	18	20	18	17	18	19	18	19	18	15	18	18	19	16	17	16	18	15	19	8	18	15	17	10	18	16	17	11	19	11	351	14.6	18
" 5	18	16	19	15	19	14	17	17	19	19	19	17	19	15	18	16	19	21	19	17	19	22	19	20	19	12	20	13	19	15	21	11	20	10	18	12	18	8	15	6	14	4	16	3	18	9	18	13	325	13.5	19
" 6	17	13	18	12	19	15	18	13	18	11	17	13	18	10	23	11	19	12	19	11	18	14	18	16	25	16	20	12	15	5	15	2	5	2	...	1	11	3	7	5	13	4	17	6	16	10	16	9	226	9.4	18
" 7	17	8	18	11	18	9	19	8	18	6	19	9	19	7	19	9	20	9	20	9	20	13	20	10	19	9	19	8	17	9	15	9	15	9	15	6	15	3	11	3	11	4	11	5	11	8	14	7	188	7.8	17
" 8	15	7	15	2	7	4	6	3	6	4	27	6	3	6	7	11	6	14	7	16	9	18	8	22	8	20	8	18	8	19	8	20	9	18	8	15	8	12	7	10	7	15	8	15	8	16	8	14	305	12.7	8
" 9	6	15	6	14	11	9	8	13	6	11	8	11	7	15	9	16	7	14	8	17	8	21	8	20	8	18	7	14	9	20	8	20	9	18	7	14	9	14	9	11	9	8	8	7	8	8	8	8	336	14.0	8
" 10	8	5	8	4	8	2	8	2	8	2	8	6	8	9	8	6	8	7	8	7	20	9	21	4	25	5	26	2	...	1	...	1	...	1	...	1	...	0	...	1	26	2	26	2	26	3	26	2	84	3.5	8
" 11	...	1	26	2	26	2	...	0	...	0	...	0	26	2	26	3	26	6	26	8	26	13	28	8	25	10	19	10	19	14	18	12	18	9	19	7	19	5	17	6	17	5	18	3	18	2	19	5	133	5.5	21
" 12	20	5	21	5	21	6	18	6	18	8	17	7	18	8	24	12	20	8	21	12	20	16	19	15	19	14	19	13	19	15	19	15	19	11	18	9	18	10	18	8	22	6	22	6	18	6	17	5	226	9.4	19
" 13	16	6	18	6	19	11	18	9	19	11	19	9	19	9	18	9	20	15	19	10	20	14	19	18	23	12	19	15	19	18	19	17	20	12	19	8	19	11	19	11	18	9	18	8	18	5	16	5	258	10.7	19
" 14	18	8	18	10	19	9	19	11	18	9	19	4	21	7	27	4	22	9	19	11	21	11	21	12	19	16	19	13	19	14	18	14	17	12	17	8	18	10	17	8	16	7	17	9	16	7	16	8	231	9.6	19
" 15	18	13	17	9	17	16	17	14	19	12	17	11	18	10	19	15	19	17	26	14	18	16	19	15	20	15	19	16	19	14	19	15	19	15	27	6	25	5	24	6	26	6	26	2	19	4	23	2	268	11.2	19
" 16	28	4	21	11	31	4	31	2	31	3	...	1	31	3	31	5	24	11	30	7	28	6	26	8	21	12	19	9	20	8	20	8	29	10	20	6	20	2	20	3	12	6	8	6	7	5	6	6	146	6.1	24
" 17	6	8	7	12	7	12	7	5	6	6	6	5	6	8	7	10	8	7	11	4	16	10	32	6	4	5	21	2	21	4	9	13	7	15	8	14	8	11	9	12	8	14	9	10	8	7	9	12	212	8.8	8
" 18	8	11	6	8	4	9	30	4	30	3	2	3	32	2	7	2	23	4	14	2	32	6	14	5	17	11	16	10	17	14	16	8	16	14	17	5	15	4	5	2	8	9	7	8	6	7	7	9	160	6.7	11
" 19	7	7	7	14	9	9	8	10	7	15	6	12	6	13	7	12	8	14	5	6	5	4	10	5	22	5	6	11	7	16	8	13	8	15	8	11	8	15	8	14	8	13	9	12	9	11	8	9	266	11.1	8
" 20	7	7	7	5	9	4	7	4	6	3	6	4	7	3	7	7	7	7	15	7	15	9	15	8	16	6	15	6	15	4	23	3	27	3	6	6	9	5	9	8	7	6	7	4	7	4	7	6	129	5.4	10
" 21	7	6	9	3	7	6	28	2	30	2	30	3	27	10	30	6	...	1	25	5	21	13	22	11	24	9	20	12	20	10	19	8	18	5	18	5	19	5	18	7	21	6	26	4	22	4	22	5	148	6.2	22
" 22	23	8	23	4	29	4	24	5	...	1	...	1	24	2	23	2	23	6	14	10	5	20	6	18	6	20	6	20	7	22	6	22	7	23	7	22	6	25	7	26	6	26	7	24	6	20	7	18	349	14.5	7
" 23	7	20	7	24	7	26	7	27	7	25	7	23	8	25	7	25	7	26	7	28	7	33	7	29	7	25	8	23	7	22	7	18	7	17	8	14	7	14	7	15	6	15	7	18	6	15	6	12	519	21.6	7
" 24	6	13	12	9	18	2	12	8	8	13	7	18	7	17	7	20	6	23	7	20	7	20	7	23	7	18	9	18	9	18	11	18	11	14	14	8	6	3	2	3	2	3	25	3	26	2	25	2	296	12.3	8
" 25	26	2	22	4	1	2	1	2	1	5	7	9	6	4	3	3	25	5	25	3	15	5	8	10	8	11	7	10	8	7	7	13	7	12	9	16	8	13	8	16	8	10	8	13	8	9	5	9	193	8.0	7
" 26	6	5	6	2	6	5	6	3	6	3	19	4	19	5	18	8	20	17	21	16	20	21	20	22	20	17	20	16	19	21	19	21	19	26	19	22	20	11	22	10	20	12	21	15	20	14	21	13	309	12.9	20
" 27	20	12	21	18	19	17	19	19	20	16	20	21	19	23	19	27	19	25	19	25	20	24	20	22	19	22	19	21	19	18	19	21	19	19	21	12	21	11	20	8	21	5	21	8	8	31	7	28	453	18.9	19
" 28	6	24	6	23	7	25	7	31	7	26	9	20	6	19	7	29	7	25	7	29	7	31	7	32	7	28	7	27	7	36	7	33	7	37	7	36	7	35	7	36	7	36	7	40	7	34	7	35	727	30.3	7
" 29	7	31	6	27	6	28	4	18	4	23	4	25	4	26	4	27	5	30	5	27	7	32	6	25	5	26	5	26	4	23	4	20	6	25	7	25	7	26	7	29	7	30	7	23	5	24	7	23	619	25.8	6
" 30	5	19	5	14	4	12	5	11	4	12	5	8	6	9	6	4	5	7	7	15	9	17	8	22	7	24	8	22	8	13	7	10	10	10	9	9	7	10	6	12	7	16	7	18	6	14	6	18	326	13.6	7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums	...	325	...	318	...	325	...	296	...	294	...	293	...	303	...	337	...	387	...	388	...	485	...	461	...	443	...	422	...	429	...	406	...	408	...	344	...	295	...	312	...	315	...	308	...	320	...	326	8540	355.8	...
Means	...	10.8	...	10.6	...	10.8	...	9.9	...	9.8	...	9.8	...	10.1	...	11.2	...	12.9	...	12.9	...	16.2	...	15.4	...	14.8	...	14.1	...	14.3	...	13.5	...	13.6	...	11.5	...	9.8	...	10.4	...	10.5	...	10.3	...	10.7	...	10.9	284.7	11.9	...

TABLE VIII.

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
1897.												
June 1, ...	7	cum.	SW	7	cum.	SW	6	c-cum. / cum.	SSW	8	c-cum. / cum.	SSW
„ 2, ...	10	cum-nim.	...	8	cum.	...	10	nim.	SSW	8	nim.	SW
„ 3, ...	7	cum.	SW	10	cum.	...	8	c-cum. / cum.	SSW	8	c-cum. / cum.	S
„ 4, ...	8	cum.	...	6	cum.	WSW	9	c-cum. / cum.	SW	8	c-cum. / cum.	SSW
„ 5, ...	4	cum.	SW	9	cum.	SW	2	cum.	SW	4	c-cum. / cum.	SW
„ 6, ...	8	cum-nim.	...	10	nim.	...	9	sm-cum. / cum.	E / SW	9	sm-cum. / cum.	SW
„ 7, ...	9	cum.	SW	7	cum.	...	5	cum.	WSW	3	c-cum. / cum.	SW
„ 8, ...	3	cum.	SW	9	cum.	...	8	sm-cum. / nim.	SSW	8	c-cum. / cum.	SSW
„ 9, ...	9	cum.	...	10	nim.	...	9	c-cum. / cum-nim.	...	7	c-cum. / cum.	SSW
„ 10, ...	2	str-cum.	...	8	str-cum.	...	9	sm-cum. / cum	WNW / ..	7	sm-cum. / cum.	S
„ 11, ...	7	cum.	SSW	2	cum.	...	7	c-cum. / cum.	WSW	6	c-str. / cum.	SW
„ 12, ...	3	cum.	SSW	5	cum.	SW	9	c-str. / cum.	SW	5	c-cum. / cum.	SSW
„ 13, ...	8	cum.	SW	6	cum.	SW	4	c-cum. / cum.	SW	8	c-str. / cum.	NNE / SW
„ 14, ...	10	cum.	SW	9	str-cum.	...	8	c-cum. / cum.	SW	9	c-cum. / cum.	SSW
„ 15, ...	7	cum.	SW	5	cum.	SW	5	cum.	SW	9	c-cum. / cum.	NNE / SW
„ 16, ...	8	cum.	WSW	10	cum.	SW	9	cum.	SW	9	c-str. / c-cum. / nim.	.. / N / WSW
„ 17, ...	9	sm-cum.	NW	3	cum.	...	6	c-cum. / sm-cum. / cum.	SSW	4	sm-cum. / cum.	SSW
„ 18, ...	7	cum.	S	9	cum-nim.	S	10	nim.	...	9	c-cum. / cum.	SSW
„ 19, ...	8	c-str. / cum.	S	10	cum.	S	9	sm-cum. / cum.	S	10	nim.	SSE
„ 20, ...	10	c-cum. / cum.	SSW	9	nim.	S	9	sm-cum. / cum.	NNE / S	9	c-str. / c-cum. / cum.	S
„ 21, ...	10	cum.	SSW	10	nim.	SW	10	nim.	SW	9	c-str. / c-cum. / cum.	.. / N / WSW
„ 22, ...	10	str-cum.	...	9	nim.	WSW	7	c-cum. / sm-cum.	W	9	c-cum. / nim.	ESE
„ 23, ...	10	str-cum.	...	7	sm-cum. / cum.	SW / E	9	sm-cum. / cum.	E	8	sm-cum. / cum.	E
„ 24, ...	9	str-cum.	...	10	nim.	...	10	nim.	E	10	cum-nim.	E
„ 25, ...	10	nim.	...	10	cum-nim.	...	10	nim.	WSW	10	nim.	WSW
„ 26, ...	10	cum-nim.	...	10	cum-nim.	...	10	cum.	WSW	10	sm-cum. / cum.	WSW
„ 27, ...	10	nim.	...	10	nim.	WSW	10	nim.	WSW	10	str-cum.	WSW
„ 28, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	E
„ 29, ...	10	nim.	...	10	nim.	...	10	cum-nim.	ENE	10	nim.	ENE
„ 30, ...	8	str-cum.	...	9	str-cum.	...	10	sm-cum.	W	9	c-cum. / cum.	WNW / E
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	8.0	...	...	8.2	...	...	8.2	...	...	8.1	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
June 1,...	10	cum.	SW	8	cum.	SW	6	cum.	SW	5	cum.	...	7.1
„ 2,...	8	c-cum. / cum.	SW	8	c-cum. / cum.	SW	9	c-cum. / cum.	SW	4	cum.	SW	8.1
„ 3,...	9	c-cum. / cum.	S	10	str. / cum.	SSW	7	str. / cum.	SSW	3	cum.	...	7.7
„ 4,...	7	c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	7	c-str. / cum.	SW	7	cum.	SSW	7.4
„ 5,...	6	c-cum. / sm-cum. / cum-str.	W	10	cum.	WSW	9	sm-cum. / cum.	SSW	7	cum.	SSW	6.4
„ 6,...	10	nim.	W	8	sm-cum. / cum.	SW	8	sm-cum. / cum.	SSW	9	sm-cum. / cum.	SSW	8.9
„ 7,...	5	c-cum. / cum.	SW	9	c-cum. / cum.	NE / SW	10	str.	...	8	c-str. / sm-cum. / cum.	...	7.0
„ 8,...	7	c-cum. / cum.	SSW	4	sm-cum. / cum.	SSW	5	sm-cum. / cum.	...	8	sm-cum. / cum.	...	6.5
„ 9,...	5	c-str. / cum.	SSW	5	c-cum. / cum.	SW	4	c-cum. / sm-cum.	...	9	c-cum. / sm-cum.	...	7.3
„ 10,...	10	nim.	...	9	sm-cum. / cum.	...	9	c-str. / c-cum.	...	1	c-cum.	...	6.9
„ 11,...	8	c-str / cum.	SW	4	c-cum.	...	9	c-cum. / cum.	...	7	c-cum. / cum.	SSW	6.2
„ 12,...	4	c-cum. / cum.	SW	8	c-cum. / cum.	SW	4	cum.	SW	10	cum.	WSW	6.0
„ 13,...	4	c-cum. / cum.	SW	5	c-cum. / cum.	SW	9	c-cum. / cum.	WSW	9	c-cum. / cum.	SW	6.6
„ 14,...	6	c-cum. / cum.	SSW	7	c-cum. / cum.	SW	5	cum.	SW	7	cum.	SW	7.6
„ 15,...	9	c-cum. / cum.	SW	9	c-cum. / cum.	SW	10	c-cum. / cum.	SW	10	c-cum. / cum.	SW	8.0
„ 16,...	9	sm-cum. / str-cum.	...	10	str. / cum.	WSW	10	sm-cum. / cum.	...	8	c-cum. / sm-cum. / cum.	...	9.1
„ 17,...	9	sm-cum. / cum.	WSW	10	c-str. / cum.	WSW	9	str. / cum.	...	3	c-cum. / cum.	S	6.6
„ 18,...	9	c-cum. / cum.	S	9	c-cum. / cum.	S	10	nim.	...	8	sm-cum. / cum.	...	8.9
„ 19,...	10	nim.	SSE	10	str-cum.	S	10	str. / cum.	S	10	str-cum.	...	9.6
„ 20,...	10	c-cum / cum.	S	10	nim.	...	10	sm-cum. / cum.	SSW	10	sm-cum. / cum.	SW	9.6
„ 21,...	9	c-cum. / sm-cum. / cum.	...	9	c-cum. / cum.	WSW	10	str. / cum.	WSW	9	cum.	WSW	9.5
„ 22,...	10	nim.	E	10	nim.	E	10	cum-nim.	E	10	str-cum.	...	9.4
„ 23,...	6	sm-cum. / cum.	E / E	9	c-cum. / cum.	E	10	c-cum. / sm-cum. / cum.	...	7	str-cum.	...	8.3
„ 24,...	9	c-cum. / cum.	E	10	nim.	E	10	nim.	...	10	str-cum.	...	9.7
„ 25,...	10	nim.	SW	9	c-cum. / cum.	SW	10	sm-cum. / cum.	...	8	cum.	...	9.6
„ 26,...	10	sm-cum. / cum.	WSW	10	cum.	SW	10	sm-cum. / cum.	WSW	10	nim.	...	10.0
„ 27,...	10	str-cum.	WSW	10	nim.	SW	10	cum-nim.	WSW	10	nim.	...	10.0
„ 28,...	10	nim.	E	10	nim.	E	10	str-cum. / nim.	SSE / E	10	nim.	...	10.0
„ 29,...	10	str-cum. / nim.	ESE / NE	10	str. / cum.	ENE	10	str. / nim.	ENE	10	str. / cum.	ENE	10.0
„ 30,...	10	sm-cum.	W	10	nim.	...	10	nim.	...	10	cum-nim.	...	9.5
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	8.3	...	...	8.6	...	...	8.7	...	...	7.9	...	...	8.2

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JUNE, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.8	5.4	4.4	1.8	− 2.6	+ 3.6	E 35° S
2 „	1.6	5.0	4.6	2.4	3.0	2.6	E 48° S
3 „	1.7	4.7	5.0	2.5	3.3	2.2	E 56° S
4 „	1.4	4.2	4.7	1.9	3.3	2.3	E 55° S
5 „	2.0	4.5	3.9	2.2	1.9	2.3	E 40° S
6 „	1.8	4.5	3.9	2.2	2.1	2.3	E 43° S
7 „	2.3	4.7	3.5	2.4	1.2	2.3	E 29° S
8 „	2.0	5.4	3.6	2.9	1.6	2.5	E 33° S
9 „	1.7	5.6	4.8	4.5	3.1	1.1	E 70° S
10 „	1.8	5.7	5.0	3.9	3.2	1.8	E 60° S
11 „	1.7	6.6	7.4	4.8	5.7	1.8	E 73° S
Noon.	1.6	6.9	6.3	4.5	4.7	2.4	E 63° S
1 p.	1.7	6.2	5.4	5.2	3.7	1.0	E 75° S
2 „	1.2	6.1	6.5	3.9	5.3	2.2	E 67° S
3 „	1.1	6.3	7.0	3.5	5.9	2.8	E 64° S
4 „	1.2	6.3	6.1	3.3	4.9	3.0	E 58° S
5 „	1.3	6.7	6.3	2.6	5.0	4.1	E 50° S
6 „	0.8	6.2	4.6	2.3	3.8	3.9	E 45° S
7 „	1.0	6.3	3.0	1.7	2.0	4.6	E 23° S
8 „	1.1	6.7	3.1	1.5	2.0	5.2	E 21° S
9 „	1.4	6.9	3.0	1.3	1.6	5.6	E 15° S
10 „	1.1	6.7	2.8	1.7	1.7	5.0	E 19° S
11 „	1.5	7.0	3.3	1.0	1.8	6.0	E 17° S
Midt.	1.4	7.0	3.3	1.4	− 1.9	+ 5.6	E 19° S
Means, ...	1.5	5.9	4.6	2.7	− 3.14	+ 3.17	E 45° S

PHENOMENA :—

Solar halo :—on the 9th, 11th, 13th, 16th and 17th.

Lunar halo :—on the 7th, 9th, 10th, 12th, 13th, 18th, 19th and 20th.

Lunar corona :—on the 7th, 10th, 11th, 16th and 18th.

Slight fog :—on the 24th and 25th.

Haze :—on the 10th, 11th, 17th, 18th, 20th and 22nd.

Unusual Visibility :—on the 11th, 12th and 16th.

Dew :—on the 7th, 10th, 11th, 14th and 15th.

Rainbow :—on the 14th, 17th and 24th.

Lightning without thunder :—on the 2nd, 4th, 5th, 8th, 14th, 15th, 16th, 17th, 18th and 25th.

Thunder without lightning :—on the 2nd, 5th, 6th, 7th, 8th, 14th, 15th, 17th and 25th.

Thunder and lightning :—on the 1st, 19th, 20th, 21st, 26th, 27th and 28th.

Thunderstorms :—on the 3rd 11 a.—2 p., in SW–NW, nearest at 11.20 a. (2^s). On the 9th, 2 a.—4.30 a., NW–SE, nearest at 2.39 a. (1^s). On the 10th, 10.30 a.—11.45 a., distant in SW–NW. On the 22nd, 10.35 a.—noon, in NW, nearest at 10.35 a. (5^s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JULY, 1897.

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,...	29.573	29.566	29.560	29.559	29.564	29.578	29.594	29.606	29.615	29.620	29.626	29.621	29.617	29.614	29.601	29.593	29.601	29.611	29.622	29.628	29.641	29.653	29.649	29.641	29.606
,, 2,...	.627	.622	.612	.609	.603	.606	.617	.627	.630	.630	.619	.610	.605	.586	.577	.564	.566	.566	.568	.581	.589	.592	.595	.581	.599
,, 3,...	.563	.554	.548	.537	.528	.529	.536	.540	.540	.526	.523	.518	.494	.477	.466	.453	.447	.454	.474	.478	.491	.501	.501	.492	.507
,, 4,...	.481	.470	.468	.464	.461	.471	.480	.481	.493	.483	.474	.462	.461	.453	.452	.452	.449	.451	.466	.486	.503	.510	.518	.513	.475
,, 5,...	.496	.491	.483	.489	.489	.503	.518	.530	.551	.551	.555	.540	.531	.526	.511	.512	.510	.521	.538	.563	.570	.576	.568	.567	.529
,, 6,...	.567	.558	.549	.547	.551	.570	.581	.590	.609	.613	.625	.622	.598	.587	.596	.595	.588	.601	.627	.651	.660	.680	.681	.679	.605
,, 7,...	.677	.668	.675	.679	.689	.702	.710	.723	.731	.731	.737	.729	.724	.715	.707	.707	.712	.725	.749	.770	.781	.792	.791	.773	.725
,, 8,...	.761	.749	.745	.751	.762	.788	.798	.804	.813	.817	.810	.801	.802	.787	.766	.748	.745	.755	.767	.794	.797	.809	.813	.810	.783
,, 9,...	.799	.786	.775	.773	.771	.787	.800	.817	.831	.824	.823	.815	.808	.795	.791	.781	.777	.788	.788	.800	.810	.823	.819	.799	.799
,, 10,...	.788	.783	.776	.777	.787	.795	.807	.823	.815	.820	.811	.804	.793	.774	.761	.748	.751	.762	.778	.801	.806	.820	.820	.799	.792
,, 11,...	.770	.763	.748	.744	.737	.740	.762	.777	.788	.791	.797	.791	.766	.741	.722	.712	.721	.730	.749	.760	.762	.767	.772	.754	.757
,, 12,...	.736	.721	.728	.737	.738	.740	.753	.771	.785	.790	.782	.771	.763	.739	.724	.710	.702	.701	.708	.736	.766	.783	.789	.777	.748
,, 13,...	.766	.762	.754	.766	.771	.790	.800	.805	.811	.816	.826	.821	.820	.819	.807	.796	.792	.800	.816	.827	.838	.851	.848	.841	.806
,, 14,...	.823	.808	.797	.791	.795	.814	.830	.837	.847	.851	.845	.840	.823	.815	.800	.789	.779	.769	.779	.791	.804	.810	.801	.793	.810
,, 15,...	.773	.754	.748	.747	.751	.769	.783	.790	.799	.792	.792	.777	.771	.766	.744	.728	.718	.715	.725	.739	.752	.763	.763	.762	.759
,, 16,...	.754	.735	.733	.730	.732	.745	.751	.765	.774	.775	.772	.770	.760	.741	.732	.709	.702	.710	.704	.712	.712	.721	.730	.737	.738
,, 17,...	.733	.727	.719	.718	.717	.731	.750	.755	.767	.760	.755	.746	.729	.706	.691	.675	.670	.662	.664	.679	.688	.690	.692	.689	.713
,, 18,...	.679	.674	.670	.678	.690	.699	.704	.713	.719	.723	.716	.704	.696	.681	.672	.663	.655	.658	.666	.676	.695	.710	.700	.694	.689
,, 19,...	.684	.677	.670	.673	.679	.690	.703	.711	.723	.724	.725	.715	.707	.695	.681	.671	.676	.687	.706	.713	.714	.731	.723	.714	.700
,, 20,...	.706	.701	.688	.694	.692	.712	.733	.746	.755	.756	.761	.752	.742	.725	.719	.716	.717	.713	.715	.725	.748	.768	.766	.761	.730
,, 21,...	.751	.733	.730	.734	.743	.761	.780	.791	.799	.796	.798	.783	.772	.761	.743	.732	.722	.740	.751	.765	.775	.792	.787	.779	.763
,, 22,...	.769	.754	.748	.763	.761	.771	.778	.783	.799	.800	.801	.786	.778	.766	.750	.739	.738	.739	.744	.749	.763	.768	.758	.751	.765
,, 23,...	.735	.729	.728	.732	.734	.751	.762	.775	.777	.764	.760	.735	.715	.704	.691	.675	.663	.656	.663	.669	.681	.678	.673	.666	.713
,, 24,...	.668	.652	.650	.642	.645	.651	.648	.658	.661	.665	.667	.651	.643	.626	.628	.615	.591	.581	.620	.624	.630	.635	.617	.613	.637
,, 25,...	.605	.593	.579	.566	.565	.584	.601	.613	.624	.619	.612	.600	.588	.573	.563	.554	.556	.559	.578	.599	.613	.627	.621	.601	.591
,, 26,...	.579	.560	.550	.543	.562	.573	.577	.575	.593	.599	.595	.589	.574	.571	.567	.555	.556	.563	.577	.594	.611	.630	.623	.619	.581
,, 27,...	.598	.579	.571	.556	.558	.573	.595	.604	.616	.622	.624	.619	.608	.597	.580	.570	.567	.580	.598	.618	.635	.642	.637	.623	.599
,, 28,...	.605	.605	.607	.609	.608	.620	.628	.648	.656	.657	.656	.647	.635	.616	.600	.597	.593	.590	.596	.600	.615	.633	.631	.625	.620
,, 29,...	.611	.605	.602	.604	.610	.621	.636	.645	.653	.652	.652	.639	.620	.608	.585	.570	.558	.562	.588	.602	.616	.631	.625	.624	.613
,, 30,...	.612	.599	.582	.583	.580	.584	.584	.580	.584	.580	.566	.553	.536	.501	.487	.471	.475	.492	.506	.514	.534	.544	.543	.536	.547
31,...	.514	.499	.490	.489	.482	.497	.509	.512	.508	.506	.510	.502	.490	.475	.465	.474	.468	.484	.505	.520	.536	.536	.531	.524	.501
Means,.....	29.671	29.661	29.654	29.654	29.657	29.669	29.681	29.690	29.699	29.698	29.697	29.688	29.676	29.663	29.651	29.641	29.638	29.643	29.656	29.670	29.682	29.693	29.690	29.682	29.671

TABLE II.

TEMPERATURE FOR THE MONTH OF JULY, 1897.

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,	76.4	76.5	76.1	76.3	76.4	76.7	76.6	77.4	77.6	77.7	78.0	77.4	77.6	77.5	77.0	77.4	77.3	77.3	76.6	75.0	74.6	75.0	75.2	75.4	76.6	78.0	74.6
„ 2,	75.4	75.4	75.6	75.2	75.4	75.7	76.5	76.3	76.8	78.0	78.8	78.8	77.1	78.6	78.5	78.5	77.6	77.2	77.4	77.5	77.3	77.0	76.9	76.8	77.0	80.0	75.2
„ 3,	76.5	78.3	76.3	75.2	75.4	76.2	80.0	79.1	80.5	83.0	84.5	85.6	83.8	80.9	81.4	81.5	80.9	80.6	80.4	80.1	80.0	79.7	79.2	78.5	79.9	86.0	75.2
„ 4,	78.2	76.5	75.4	75.6	75.7	76.4	77.4	78.5	79.3	80.5	82.3	83.2	83.7	84.8	82.1	83.2	82.8	81.2	81.0	79.8	80.0	79.7	78.6	79.1	79.8	85.7	75.4
„ 5,	79.5	79.1	77.5	77.3	77.4	77.6	79.5	80.6	80.8	82.5	83.5	82.7	86.1	85.9	84.4	84.4	83.3	82.5	81.8	81.2	79.8	79.5	79.6	79.4	81.1	86.5	76.9
„ 6,	79.6	79.8	79.7	78.7	78.9	79.6	79.7	77.6	77.4	77.6	76.8	77.5	79.0	79.9	79.8	80.4	80.8	80.3	77.8	78.5	78.3	78.4	78.5	78.4	78.9	82.8	76.2
„ 7,	76.7	77.2	77.2	79.2	79.1	78.8	79.9	80.8	83.4	81.9	82.2	82.6	82.2	83.1	81.5	79.2	78.2	80.5	79.4	79.8	79.0	79.1	79.4	79.3	80.0	84.4	76.5
„ 8,	79.2	79.4	79.6	78.8	79.5	79.6	80.3	81.6	82.8	82.5	83.4	83.0	83.7	83.8	83.6	82.7	82.3	81.8	81.0	81.0	80.7	81.0	80.5	78.2	81.2	84.7	77.4
„ 9,	78.0	77.6	77.8	77.8	77.7	78.8	79.8	81.2	80.6	80.1	81.7	83.0	82.2	81.9	82.5	82.6	82.5	81.9	81.1	81.4	80.9	81.2	81.1	80.6	80.6	83.3	77.2
„ 10,	80.5	80.8	78.5	79.2	79.6	79.7	80.4	81.2	84.0	83.8	84.8	84.2	85.0	85.1	83.4	83.0	82.5	81.5	79.5	79.8	79.5	81.0	81.1	81.2	81.6	86.1	78.0
„ 11,	80.5	80.4	79.5	79.8	79.5	81.0	81.8	82.5	83.5	83.4	83.9	84.3	84.8	85.2	85.0	85.0	84.1	82.8	81.6	81.4	81.1	81.0	81.0	81.3	82.3	86.2	79.5
„ 12,	80.9	80.6	80.7	80.9	80.6	80.8	82.1	83.0	83.8	84.5	86.2	84.9	85.8	84.9	83.6	84.0	83.6	82.0	82.2	82.0	82.1	82.2	82.1	81.9	82.7	87.5	80.3
„ 13,	81.1	80.9	80.6	80.8	80.6	81.0	82.1	82.6	83.6	84.0	84.8	84.0	84.0	85.1	84.5	85.6	84.2	83.4	82.0	82.1	82.0	81.8	81.7	81.3	82.7	85.9	80.5
„ 14,	80.9	80.1	79.9	79.7	79.3	81.0	82.7	82.1	82.8	83.2	85.8	83.8	84.8	84.6	85.5	87.0	83.6	82.9	82.2	81.5	81.0	80.2	80.0	78.8	82.2	87.7	78.8
„ 15,	79.1	78.6	78.8	78.7	78.2	79.7	79.5	82.3	83.1	83.6	84.5	85.3	87.8	87.3	85.2	84.0	84.5	83.3	82.1	81.6	81.6	81.4	81.4	80.8	82.2	88.1	77.8
„ 16,	80.7	80.1	80.3	79.7	78.9	81.7	81.8	82.2	83.1	85.5	86.1	85.0	86.8	86.3	86.7	86.1	84.8	84.0	83.8	82.0	81.5	81.6	80.8	81.2	82.9	87.7	78.9
„ 17,	81.0	81.1	80.8	80.9	80.8	80.9	81.8	83.0	84.3	85.6	86.6	85.8	87.0	88.2	88.0	86.1	85.5	83.8	82.6	82.5	82.3	82.2	82.2	81.7	83.5	88.6	80.3
„ 18,	81.6	81.6	81.4	81.5	81.7	81.1	81.0	79.8	80.0	83.6	83.7	86.1	87.0	87.5	87.6	86.5	85.5	84.6	83.5	82.6	82.5	82.8	81.8	82.0	83.2	88.5	79.3
„ 19,	81.2	81.2	81.6	81.3	80.8	81.7	82.8	82.8	83.8	84.6	84.4	82.8	85.8	87.3	86.0	86.1	85.2	84.2	82.9	82.7	82.5	82.6	82.4	82.4	83.3	87.3	79.0
„ 20,	82.3	81.9	82.0	80.9	80.2	82.6	83.1	83.6	84.0	85.5	86.1	85.8	84.8	84.7	84.4	84.8	82.7	82.2	82.0	81.2	81.2	81.1	81.3	81.4	82.9	87.3	79.5
„ 21,	81.1	81.2	81.0	80.8	80.7	80.9	82.8	83.6	84.6	85.8	85.7	84.7	85.0	85.1	85.4	84.6	84.0	83.7	82.5	81.9	82.2	81.8	81.2	80.9	83.0	87.4	80.7
„ 22,	80.9	80.8	80.8	80.2	80.0	81.9	82.0	83.5	83.8	86.2	84.5	87.6	86.5	87.5	86.6	87.0	86.1	84.8	83.1	82.6	82.2	81.8	80.3	80.3	83.4	88.3	80.0
„ 23,	79.8	79.4	79.5	78.8	78.6	79.8	82.1	83.0	84.1	85.6	86.2	87.8	88.1	89.6	88.6	87.6	87.8	85.8	84.6	83.6	83.1	82.6	82.2	81.8	83.8	90.3	78.6
„ 24,	81.7	80.7	80.6	80.3	80.1	81.1	82.1	83.8	85.2	86.2	87.8	88.0	86.9	87.8	86.7	87.4	86.9	85.2	84.3	83.8	83.0	82.8	82.5	82.3	84.1	89.7	80.1
„ 25,	81.1	80.9	80.7	80.8	81.1	81.2	83.2	84.4	83.0	84.2	85.0	85.0	85.0	85.4	85.8	85.6	84.2	83.8	82.8	83.0	83.1	82.2	81.6	81.6	83.1	86.0	80.5
„ 26,	81.8	81.8	81.7	82.1	82.0	82.6	83.2	83.8	85.4	85.0	86.5	86.7	86.5	85.8	85.9	85.2	84.1	83.6	82.8	81.1	81.5	81.1	81.2	79.8	83.4	87.9	79.8
„ 27,	80.5	80.6	80.6	80.8	81.2	81.8	83.0	83.5	85.5	86.4	86.4	82.3	87.8	85.2	86.1	86.0	85.8	83.6	83.1	82.6	82.6	82.3	82.2	81.8	83.4	88.8	79.7
„ 28,	81.1	81.2	81.6	81.7	81.8	82.0	83.0	82.0	81.5	83.0	85.2	85.4	86.6	86.5	85.4	84.6	84.5	83.5	82.6	82.1	82.1	82.4	82.1	82.1	83.1	88.8	80.3
„ 29,	81.8	81.7	81.7	81.6	81.4	82.3	81.6	83.9	84.3	86.5	87.6	88.2	89.4	89.4	87.7	86.8	86.5	85.1	84.5	83.8	83.3	83.0	82.9	83.0	84.5	89.7	80.5
„ 30,	82.8	82.6	82.4	82.6	82.6	81.6	82.4	83.1	84.9	85.6	85.5	85.5	87.0	88.1	87.6	87.6	86.5	85.0	84.2	84.0	83.2	82.7	83.0	82.7	84.3	89.2	81.2
„ 31,	82.6	83.1	82.5	82.8	81.6	79.0	79.1	80.1	82.5	85.0	86.0	87.9	86.2	87.8	86.7	81.5	83.6	83.6	81.3	82.6	82.3	82.7	82.8	82.6	83.2	89.7	78.6
Means,	80.1	80.0	79.8	79.7	79.6	80.2	81.1	81.7	82.6	83.6	84.3	84.4	85.0	85.2	84.6	84.3	83.6	82.8	81.8	81.4	81.2	81.1	80.9	80.6	82.1	86.7	78.6

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JULY, 1897.

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, ...	71.0	71.9	72.2	72.4	72.8	73.1	73.2	73.3	72.8	71.8	72.0	70.1	71.2	71.3	71.4	70.0	70.5	69.2	69.4	69.9	71.2	71.8	72.0	71.9	71.5	102.9
„ 2, ...	71.6	71.4	70.8	70.6	70.0	69.8	70.0	69.9	70.1	70.3	70.2	70.1	69.5	69.7	70.2	71.0	71.6	72.1	72.7	72.1	71.9	71.8	72.1	72.0	70.9	126.1
„ 3, ...	71.4	68.0	69.1	71.1	71.5	71.5	71.9	72.5	72.1	72.1	72.6	74.5	73.9	74.9	75.1	76.1	76.1	76.0	73.7	72.7	73.0	72.7	72.9	73.2	72.9	142.1
„ 4, ...	73.0	73.1	73.0	73.1	73.2	73.4	74.5	74.6	75.3	75.6	76.3	76.3	77.6	77.9	76.7	76.7	77.0	75.0	74.5	75.1	75.3	75.0	75.6	76.1	75.2	148.8
„ 5, ...	76.7	77.3	76.0	76.3	76.6	76.7	77.7	78.3	78.5	77.9	78.0	77.7	80.2	80.0	78.5	78.4	78.0	77.7	78.2	78.3	78.2	78.1	77.9	77.3	77.9	147.1
„ 6, ...	77.5	77.6	77.5	77.6	77.9	77.8	78.8	76.7	76.8	76.3	76.4	76.1	76.6	77.0	76.9	77.8	78.2	77.8	77.1	77.3	77.7	77.4	77.6	77.8	77.3	97.7
„ 7, ...	76.0	75.9	76.7	76.7	76.5	76.2	76.7	77.9	78.6	78.6	78.6	78.2	78.2	78.9	76.8	76.8	76.3	77.0	77.3	77.3	77.2	77.4	77.8	77.6	77.3	144.4
„ 8, ...	77.6	77.5	77.6	77.2	77.1	76.8	76.9	77.7	78.6	78.6	78.6	78.3	78.6	78.7	78.3	78.4	77.8	77.7	77.7	77.8	78.0	77.5	77.3	76.4	77.8	139.4
„ 9, ...	76.2	75.9	76.1	76.2	76.1	75.9	76.2	77.4	77.2	77.2	79.4	77.2	76.4	77.0	77.3	77.1	77.1	77.0	76.9	77.3	77.6	77.5	77.0	76.9	76.9	136.6
„ 10, ...	77.1	77.0	76.1	76.7	76.8	77.0	77.3	77.8	78.5	77.9	78.0	78.0	78.5	78.7	78.2	77.6	77.7	77.9	77.3	76.0	76.8	77.3	78.0	78.1	77.5	150.1
„ 11, ...	78.0	77.8	78.0	77.5	77.6	76.8	77.1	77.0	76.9	77.2	77.7	77.6	76.2	76.4	76.7	77.4	76.8	77.2	76.6	77.1	76.5	76.7	77.2	76.9	77.1	143.9
„ 12, ...	76.9	76.5	77.4	77.4	76.9	77.2	77.6	77.7	78.2	78.2	78.0	77.6	77.7	78.4	78.4	77.7	77.8	77.6	77.6	77.7	77.5	77.4	77.6	77.4	77.6	147.1
„ 13, ...	77.6	77.7	77.9	77.1	77.4	77.7	77.7	77.7	77.8	79.0	79.4	78.8	78.1	78.6	77.2	77.1	77.0	76.9	77.1	77.6	77.7	77.8	77.7	77.2	77.7	145.7
„ 14, ...	77.1	76.9	76.7	76.9	77.2	78.4	78.0	77.6	77.0	76.8	78.6	77.1	77.7	76.9	78.6	78.6	78.6	78.0	77.4	77.2	77.2	76.9	76.8	76.5	77.4	144.4
„ 15, ...	77.0	76.5	76.1	76.3	76.3	76.8	77.1	78.2	78.6	77.7	78.2	77.8	80.0	79.1	76.9	76.8	76.7	76.8	77.3	76.6	76.8	76.6	76.8	76.2	77.2	143.0
„ 16, ...	76.3	75.6	76.2	75.9	76.0	77.4	77.4	78.2	77.8	77.8	77.8	77.1	77.9	77.7	77.8	78.1	76.9	75.8	76.1	76.1	76.4	76.0	76.2	76.4	76.9	143.2
„ 17, ...	77.2	76.9	76.4	76.4	76.3	76.7	76.9	77.1	77.0	77.9	78.0	77.0	78.2	78.4	78.6	77.4	77.2	77.1	76.9	76.9	77.1	76.9	76.7	76.6	77.2	147.0
„ 18, ...	76.7	76.7	76.5	76.4	76.6	76.7	75.1	76.0	76.4	79.3	76.8	78.9	79.0	79.9	78.9	78.1	78.0	78.6	77.6	77.6	77.3	77.7	77.1	77.7	77.5	145.5
„ 19, ...	77.4	76.9	76.5	76.7	76.4	76.3	77.1	78.0	77.7	77.9	77.6	79.1	78.7	78.9	78.2	78.6	77.8	77.6	77.5	77.3	77.6	77.4	77.6	77.8	77.6	142.5
„ 20, ...	77.4	77.2	77.2	77.7	76.4	77.8	77.8	76.6	77.9	78.4	79.2	78.2	78.4	78.2	77.9	79.2	76.7	77.4	77.8	77.4	77.8	77.6	77.8	77.9	77.7	148.4
„ 21, ...	77.8	76.9	77.1	76.9	76.8	77.1	77.4	77.6	77.0	78.7	78.6	77.8	77.8	77.0	77.0	76.9	76.3	77.1	77.0	77.2	77.3	77.3	77.4	77.4	77.3	143.9
„ 22, ...	76.8	76.7	76.6	76.8	76.8	77.9	77.6	77.2	78.7	78.2	79.8	79.3	77.8	78.0	77.5	78.9	79.1	76.3	76.6	76.9	76.9	76.8	76.5	77.8	77.6	148.6
„ 23, ...	77.0	76.3	77.1	77.0	77.0	77.5	79.1	78.2	78.0	79.2	78.9	80.1	79.0	78.9	80.0	79.3	79.7	77.6	77.4	77.0	77.5	77.3	77.6	78.2	78.1	148.7
„ 24, ...	78.2	77.6	77.9	77.5	77.8	78.3	78.7	78.3	78.6	77.7	80.0	80.0	79.9	78.2	75.7	76.8	76.4	75.7	76.7	75.3	73.1	77.6	78.6	78.5	77.6	141.6
„ 25, ...	78.0	78.0	77.8	77.9	78.3	78.7	78.8	78.9	78.5	79.1	77.9	79.1	78.6	79.0	79.1	79.0	78.1	78.6	79.3	79.9	79.2	77.7	78.0	77.9	78.6	148.2
„ 26, ...	78.6	78.5	78.6	78.4	78.3	78.3	78.0	78.5	78.2	78.4	79.0	79.0	78.9	78.9	79.9	78.2	79.1	78.9	78.0	77.9	78.3	77.9	78.3	77.7	78.5	144.0
„ 27, ...	78.9	77.7	77.6	77.4	77.5	77.7	78.6	78.8	78.7	78.2	78.6	75.9	78.9	79.4	78.8	77.7	78.4	78.6	78.5	78.4	78.4	78.5	78.9	78.6	78.3	148.0
„ 28, ...	78.5	78.4	78.6	78.7	78.2	77.6	77.9	77.3	77.9	78.7	79.1	79.8	79.7	79.6	78.9	78.3	78.6	78.0	78.0	77.8	78.0	78.1	78.6	78.3	78.4	148.5
„ 29, ...	78.4	78.0	78.1	78.2	78.1	78.5	79.1	79.9	78.0	77.8	79.6	78.9	78.7	77.8	78.6	78.9	79.0	78.7	78.7	78.6	78.8	78.6	78.5	78.1	78.6	141.7
„ 30, ...	77.7	77.6	77.7	77.5	77.6	77.7	78.5	78.7	78.6	79.9	78.8	80.6	79.7	79.7	79.6	79.9	79.9	79.1	79.2	79.0	79.3	79.3	78.8	78.0	78.8	144.7
„ 31, ...	78.2	78.5	78.1	78.3	78.4	76.8	75.0	78.2	79.8	80.2	79.9	79.1	79.2	79.1	79.4	78.9	79.1	79.1	76.8	79.1	78.3	79.4	79.3	78.6	78.6	144.5
Means, ...	76.7	76.4	76.4	76.5	76.5	76.6	76.9	77.2	77.3	77.5	77.8	77.6	77.8	77.8	77.5	77.5	77.3	77.0	76.9	76.9	76.9	77.0	77.1	77.0	77.1	141.6

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JULY, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	85	0.876	July 1,.....	77	0.705
2 „	85	.864	„ 2,.....	73	.675
3 „	85	.866	„ 3,.....	70	.716
4 „	86	.872	„ 4,.....	80	.813
5 „	87	.873	„ 5,.....	86	.914
6 „	85	.870	„ 6,.....	93	.917
7 „	82	.870	„ 7,.....	88	.902
8 „	81	.875	„ 8,.....	85	.908
9 „	78	.868	„ 9,.....	84	.876
10 „	75	.863	„ 10,.....	83	.889
11 „	74	.867	„ 11,.....	78	.862
Noon.	73	.857	„ 12,.....	79	.879
1 p.	71	.858	„ 13,.....	79	.884
2 „	70	.856	„ 14,.....	80	.877
3 „	72	.850	„ 15,.....	79	.868
4 „	72	.854	„ 16,.....	75	.845
5 „	74	.854	„ 17,.....	74	.850
6 „	76	.852	„ 18,.....	76	.868
7 „	79	.860	„ 19,.....	76	.871
8 „	81	.866	„ 20,.....	78	.881
9 „	82	.869	„ 21,.....	76	.861
10 „	83	.875	„ 22,.....	76	.869
11 „	84	.882	„ 23,.....	76	.886
Midt.	85	.882	„ 24,.....	74	.860
			„ 25,.....	81	.919
			„ 26,.....	79	.910
			„ 27,.....	79	.901
			„ 28,.....	80	.910
			„ 29,.....	76	.900
			„ 30,.....	77	.912
			„ 31,.....	81	.918
Means,.....	79	0.866	Means.	79	0.866

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.
1897.														
July 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	...	...	...	...	0.1	...	...	...	...	0.1
„ 3.....	0.3	1.0	0.4	0.4	0.1	0.1	0.4	0.3	0.2	0.3	0.1	0.1	...	3.7
„ 4.....	...	...	...	...	0.7	1.0	0.5	0.4	0.8	0.2	0.4	...	...	4.0
„ 5,.....	...	...	...	...	...	0.2	0.2	0.8	0.4	0.9	0.3	0.2	0.2	3.2
„ 6, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	...	0.9	1.0	0.8	1.0	0.9	0.3	0.3	0.1	...	...	5.3
„ 8,.....	...	...	0.5	0.9	0.9	1.0	1.0	1.0	1.0	0.8	0.8	1.0	0.7	9.6
„ 9,.....	...	0.1	0.8	0.1	0.3	...	0.1	0.2	...	...	...	...	...	1.6
„ 10,.....	...	...	0.5	1.0	0.8	1.0	1.0	1.0	1.0	0.2	0.1	...	...	6.6
„ 11,.....	...	0.7	0.7	0.5	0.9	0.6	0.8	1.0	1.0	1.0	1.0	1.0	0.6	9.8
„ 12,.....	0.1	0.8	0.8	1.0	0.7	1.0	1.0	1.0	0.7	0.2	0.4	0.3	...	8.0
„ 13,.....	...	0.5	0.9	1.0	1.0	1.0	1.0	0.6	0.9	1.0	1.0	1.0	0.4	10.3
„ 14,.....	0.1	0.9	0.8	0.8	0.7	1.0	0.2	0.4	0.8	1.0	1.0	1.0	0.1	8.8
„ 15,.....	0.1	0.5	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.6	10.8
„ 16,.....	0.2	0.6	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	11.1
„ 17,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.4
„ 18,.....	...	0.7	0.7	0.5	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.7	10.2
„ 19,.....	0.1	1.0	0.5	0.8	0.9	0.7	0.4	0.9	1.0	1.0	1.0	1.0	0.2	9.5
„ 20,.....	0.2	0.9	0.9	0.9	1.0	1.0	0.8	0.8	0.8	0.8	0.7	0.8	...	9.6
„ 21.....	0.4	0.9	1.0	1.0	1.0	0.9	0.5	0.6	1.0	1.0	0.9	0.9	0.1	10.2
„ 22,.....	0.2	1.0	1.0	0.8	0.9	0.9	1.0	0.8	1.0	1.0	0.9	1.0	0.6	11.1
„ 23,.....	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	0.7	11.9
„ 24,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	0.4	...	9.9
„ 25,.....	...	0.5	0.8	0.3	0.2	0.8	0.2	0.3	1.0	1.0	0.8	0.1	...	6.0
„ 26,.....	0.2	0.9	1.0	1.0	0.9	1.0	1.0	1.0	0.6	0.7	0.2	0.1	...	8.6
„ 27,.....	...	0.7	0.3	0.7	1.0	0.8	0.1	0.8	0.4	0.4	0.5	...	...	5.7
„ 28,.....	...	...	...	...	...	0.4	...	0.4	...	0.1	...	...	...	0.9
„ 29,.....	...	0.3	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	10.4
„ 30,.....	...	0.2	0.7	0.7	0.4	0.1	0.2	0.9	0.9	1.0	1.0	0.4	...	6.5
„ 31,.....	...	...	...	0.5	0.9	0.9	1.0	1.0	0.9	0.6	...	...	...	5.8
Sums,.....	2.2	15.0	17.7	19.6	21.0	22.1	19.4	22.0	21.8	20.0	18.1	15.3	6.4	220.6

TABLE VI.

RAINFALL FOR THE MONTH OF JULY, 1897.

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.
July 1	0.020	...	...	0.005	...	...	...	...	...	...	...	0.005	...	0.005	0.005	...	...	...	0.005	0.010	0.015	...	...	...	0.070	12
" 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5	...	...	0.010	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.145	...	...	...	...	0.175	1
" 6	...	...	...	...	...	0.385	0.065	0.615	0.100	0.225	0.070	0.055	0.010	...	...	...	...	0.220	...	...	...	...	...	0.010	1.755	13
" 7	0.020	0.090	0.010	...	0.010	0.015	...	...	...	...	...	...	...	...	...	0.035	...	...	...	...	...	...	...	...	0.180	6
" 8	...	...	...	0.060	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.395	0.010	0.475	2
" 9	...	0.050	0.010	...	...	...	...	...	...	0.095	0.005	...	...	...	...	...	...	...	...	...	0.010	...	...	...	0.170	2
" 10	...	0.190	0.060	...	0.040	...	...	...	...	...	...	...	...	...	...	...	0.110	0.060	0.055	...	0.030	0.005	...	...	0.550	4
" 11	0.005	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1
" 12	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	0.005	...
" 13	...	...	..	...	...	0.005	0.020	0.070	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.095	1
" 14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15	...	...	...	...	...	...	0.220	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.220	1
" 16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
" 18	...	...	...	...	...	0.035	...	0.020	0.015	0.135	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.205	1
" 19	0.020	...	...	0.145	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...	0.180	1
" 20	...	...	0.035	...	0.035	...	...	...	..	...	...	...	...	...	...	0.015	0.030	...	...	0.020	...	...	...	...	0.135	1
" 21	...	...	...	...	0.005	...	0.100	...	...	...	...	0.030	...	...	...	...	...	...	...	...	...	...	...	...	0.135	...
" 22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25	0.015	0.015	...	...	...	0.045	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.075	1
" 26	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.015	0.030	1
" 27	...	...	0.010	...	...	...	0.005	...	...	...	...	0.040	...	...	...	...	...	...	...	...	...	...	...	...	0.055	...
" 28	...	...	...	...	...	...	...	0.100	0.040	...	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	0.165	1
" 29	...	...	...	0.030	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...	...	...	0.050	1
" 30	...	...	0.005	...	0.020	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	...	0.160	0.005	...	...	0.200	2
" 31	...	...	...	...	0.080	...	0.265	...	...	...	...	...	...	...	...	0.180	...	...	0.015	0.005	0.075	...	...	...	0.620	3
Sums,	0.080	0.360	0.140	0.260	0.205	0.485	0.675	0.805	0.155	0.470	0.100	0.130	0.010	0.010	0.005	0.230	0.140	0.280	0.075	0.180	0.305	0.010	0.420	0.035	5.565	55

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JULY, 1897.

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.		Midn.		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	6	16	6	14	6	17	7	19	6	15	5	23	6	23	6	24	6	31	5	31	6	34	5	33	5	33	6	27	5	32	6	32	7	25	6	25	7	27	6	29	5	25	6	22	5	21	6	20	598	24.9	6
„ 2	5	25	5	22	5	25	5	27	5	28	5	25	5	21	5	25	4	23	5	28	5	29	6	30	7	28	6	17	7	17	6	14	7	18	7	17	7	19	6	19	7	27	7	27	7	19	8	12	545	22.7	6
„ 3	6	9	4	16	7	12	4	7	4	4	..	1	1	4	...	1	23	3	32	10	32	11	7	5	10	14	8	10	8	7	8	7	9	7	9	4	32	15	32	14	29	6	2	7	1	5	32	8	187	7.8	4
„ 4	2	3	3	4	...	1	1	6	1	2	1	3	29	3	27	6	27	4	24	9	23	10	23	8	24	9	24	9	23	5	16	9	20	4	17	6	16	4	...	0	...	0	16	2	...	1	...	1	109	4.5	24
„ 5	19	4	26	5	29	10	29	3	...	0	23	4	23	4	26	3	26	2	26	4	15	3	15	7	24	5	17	9	18	11	16	9	15	6	15	9	16	13	17	9	16	9	15	8	15	6	15	4	147	6.1	18
„ 6	16	6	15	4	16	3	...	1	16	3	7	8	10	3	30	9	29	7	22	13	21	10	21	9	21	6	18	7	23	5	19	2	26	2	6	6	4	7	3	3	5	4	5	6	5	7	6	8	139	5.8	19
„ 7	15	6	5	5	32	4	15	10	14	8	9	4	8	6	9	4	9	8	9	12	8	19	8	22	8	19	8	21	8	17	8	12	7	10	5	7	7	9	7	8	8	9	8	10	8	13	7	11	254	10.6	8
„ 8	7	11	9	13	8	16	7	15	8	21	9	22	8	21	8	23	8	21	9	22	8	23	9	18	9	19	10	19	9	19	9	18	9	14	9	11	9	11	9	10	7	11	8	13	9	11	9	12	394	16.4	9
„ 9	9	9	6	11	5	7	6	10	7	14	9	13	8	15	8	18	8	16	8	14	8	11	14	17	14	19	15	21	15	17	15	10	15	13	14	12	15	8	15	8	16	8	15	9	15	8	15	7	295	12.3	12
„ 10	14	8	16	7	13	5	14	6	15	8	15	11	16	10	16	13	16	16	16	19	16	17	15	14	16	16	15	16	15	13	15	13	18	10	17	8	16	10	15	6	14	7	14	14	14	17	15	16	280	11.7	15
„ 11	15	11	16	11	16	8	15	5	12	7	13	8	14	9	15	14	15	10	14	13	13	18	12	17	12	16	12	15	13	14	16	7	14	9	12	10	11	7	11	11	11	12	1.	11	11	9	12	10	262	10.9	13
„ 12	12	11	13	10	13	10	12	7	13	7	13	7	12	5	14	11	14	14	13	16	13	16	13	16	14	15	10	17	13	17	12	18	13	19	13	17	13	18	13	19	13	20	13	23	13	17	12	14	344	14.3	13
„ 13	12	14	13	12	13	12	14	10	14	12	15	10	14	10	14	13	13	15	12	15	8	14	7	16	8	19	14	16	12	15	12	12	13	9	13	14	11	10	11	9	11	7	10	11	11	13	12	11	299	12.5	12
„ 14	13	9	12	7	11	4	11	4	7	3	...	1	10	2	7	4	8	8	8	7	8	5	9	12	9	10	8	9	8	9	16	7	9	8	13	9	15	7	15	4	15	3	15	5	...	1	...	1	139	5.8	10
„ 15	...	0	15	2	...	1	...	0	...	1	15	4	30	3	1	3	28	5	28	5	26	9	24	7	18	7	17	7	16	9	16	10	18	9	17	10	17	7	18	4	17	7	18	7	18	8	19	6	131	5.5	19
„ 16	18	5	19	3	19	2	19	2	19	3	18	4	18	3	22	5	22	11	21	10	19	9	21	10	21	8	21	15	21	13	21	11	18	10	18	9	19	11	19	5	18	3	15	4	17	3	18	10	172	7.2	20
„ 17	18	8	19	12	19	13	19	16	20	13	19	12	22	10	21	11	21	10	20	9	20	12	20	16	20	14	19	14	20	13	18	10	19	9	18	7	18	8	19	9	18	9	18	11	18	9	18	7	262	10.9	19
„ 18	18	9	19	13	19	12	19	16	19	17	20	14	19	15	20	14	18	14	20	14	20	11	19	16	21	12	21	14	20	12	20	10	18	7	17	6	17	9	18	8	18	3	17	6	17	4	16	8	264	11.0	19
„ 19	17	9	19	12	18	11	18	15	18	14	19	12	19	15	21	11	19	12	19	18	19	17	23	12	19	20	19	22	19	19	19	15	18	17	20	12	18	13	18	13	18	9	17	10	18	8	16	11	327	13.6	19
„ 20	16	11	15	8	17	12	19	11	18	9	18	9	19	7	18	10	17	10	16	13	16	17	16	18	16	17	17	16	16	18	17	16	19	6	18	6	...	1	17	6	17	7	15	6	17	6	15	9	249	10.4	17
„ 21	16	10	15	13	15	12	16	15	17	11	16	13	17	8	16	10	18	8	18	10	16	14	18	8	16	11	16	10	15	14	16	15	17	12	15	9	16	7	16	6	16	8	16	3	15	4	14	8	239	10.0	16
„ 22	14	7	14	7	14	3	...	1	14	2	14	2	14	2	13	6	22	4	16	4	19	6	17	9	18	8	17	10	17	11	18	5	22	5	18	7	17	4	17	4	17	3	16	3	...	1	...	1	115	4.8	17
„ 23	...	0	...	1	...	0	...	0	...	1	...	0	16	2	24	3	24	4	23	6	23	8	23	8	22	8	22	6	17	10	17	9	24	6	24	7	...	1	...	0	...	0	23	2	17	3	17	2	87	3.6	21
„ 24	...	1	17	2	...	0	...	1	...	1	...	0	17	2	20	2	15	3	14	4	9	16	9	13	9	17	9	15	10	13	7	14	7	12	8	14	8	13	6	16	5	13	6	17	7	22	7	20	231	9.6	8
„ 25	7	18	6	15	6	19	6	19	7	20	7	18	7	19	8	22	9	18	9	21	14	20	11	19	9	16	9	19	9	18	9	15	9	14	9	12	6	11	9	15	8	14	6	15	7	17	7	14	408	17.0	8
„ 26	7	16	9	15	8	15	9	20	9	12	9	16	8	16	8	19	9	18	10	20	9	18	9	18	9	18	8	17	8	16	8	16	8	15	9	16	7	12	7	14	7	12	9	10	9	6	3	6	361	15.0	8
„ 27	...	1	10	2	9	5	11	5	11	6	11	2	10	5	15	6	15	8	13	10	15	10	14	12	16	10	11	10	15	8	16	7	17	6	14	6	13	6	13	8	13	6	13	4	13	3	13	2	148	6.2	13
„ 28	10	3	...	0	7	4	18	5	17	2	18	7	18	6	15	6	...	1	21	4	21	7	20	8	20	10	20	9	19	10	19	12	19	8	18	8	18	4	16	5	16	4	16	5	16	3	17	8	139	5.8	18
„ 29	17	6	18	8	19	7	19	5	19	2	...	1	19	4	22	5	21	8	23	7	23	9	20	10	19	11	18	15	16	14	17	13	18	9	19	9	18	10	18	6	19	10	19	6	19	14	18	12	201	8.4	19
„ 30	19	11	18	13	19	12	19	15	19	9	16	7	19	7	19	11	18	9	19	10	20	12	22	9	18	10	21	11	20	12	20	13	19	14	19	14	18	11	18	10	17	11	19	16	19	12	19	10	269	11.2	19
„ 31	19	12	20	9	19	10	20	9	23	8	15	9	20	8	28	4	23	6	22	9	21	8	19	10	19	10	18	11	21	14	21	14	18	13	18	13	17	11	14	7	18	9	16	11	17	10	19	12	237	9.9	19
Sums	...	269	...	276	...	272	...	285	...	263	...	270	...	271	...	316	...	327	...	387	...	423	...	427	...	435	...	434	...	422	...	378	...	326	...	320	...	304	...	285	...	276	...	304	...	281	...	281	7832	326.3	...
Means	...	8.7	...	8.9	...	8.8	...	9.2	...	8.5	...	8.7	...	8.7	...	10.2	...	10.5	...	12.5	...	13.6	...	13.8	...	14.0	...	14.0	...	13.6	...	12.2	...	10.5	...	10.3	...	9.8	...	9.2	...	8.9	...	9.8	...	9.1	...	9.1	252.6	10.5	...

TABLE VIII.

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
1897.												
July 1, ...	10	cum-nim.	NE	10	nim.	ESE	10	str. / cum.	E	10	str. / cum. / nim.	E
„ 2, ...	10	cum-nim.	ENE	10	nim.	...	10	sm-cum. / cum.	...	9	sm-cum. / cum.	ENE
„ 3, ...	10	str-cum.	...	6	sm-cum.	...	5	sm-cum.	NE	9	sm-cum. / cum	NNE / ENE
„ 4, ...	9	str-cum.	...	10	str-cum.	...	9	sm-cum. / cum.	NNW	5	c-cum. / cum.	NNE / ..
„ 5, ...	10	cum.	...	10	str-cum.	...	9	sm-cum. / cum.	W / ..	10	sm-cum. / nim.	W / W
„ 6, ...	4	cum.	SSW	3	cum.	...	10	nim.	SW	10	nim.	WSW
„ 7, ...	10	nim.	...	10	cum-nim.	...	8	c-cum. / sm-cum. / cum.	S	7	sm-cum. / cum. / cum.	.. / S / SE
„ 8, ...	1	cum.	...	10	nim.	...	8	c-cum. / cum. / cum.	.. / S / SE	8	c-cum. / cum. / cum.	.. / S / ESE
„ 9, ...	10	str-cum.	...	10	nim.	...	7	c-cum. / cum.	SE	10	cum.	SE
„ 10, ...	7	cum.	SSW	4	cum.	SSW	10	cum.	SSW	8	sm-cum. / cum.	SSW
„ 11, ...	8	sm-cum. / cum.	S	7	cum.	...	6	c-str. / cum.	S	8	c-str. / cum.	SSE
„ 12, ...	6	c-str. / cum.	SE	9	cum-nim.	...	8	cum. / cum.	SSW / SE	6	c-cum. / cum.	SSE
„ 13, ...	10	cum.	SE	8	cum.	...	8	c-cum. / cum.	S	8	c-cum. / cum. / cum.	.. / S / SE
„ 14, ...	2	cum.	SSE	4	cum.	...	4	c-cum. / cum.	SE	7	c-cum. / cum.	SSE
„ 15, ...	0	...	...	1	cum.	...	7	cum.	SSW	2	c-cum. / cum.	SSW
„ 16, ...	1	cum.	SSW	2	cum.	SSW	6	cum.	SW	2	cum.	SW
„ 17, ...	6	cum.	SW	5	cum.	SW	2	cum.	WSW	2	cum.	SW
„ 18, ...	4	c-str. / cum.	SW	8	c-str. / cum.	SW	8	c-cum. / cum.	SW	8	c-cum. / cum.	SW
„ 19, ...	3	cum.	SW	10	nim.	SW	3	c-str. / cum.	SSW	8	c-cum. / cum.	NE / SW
„ 20, ...	9	c-str. / cum.	SW	4	c-str. / cum.	SW	9	cum.	SW	8	c-cum. / cum.	SSW
„ 21, ...	4	cum.	SSW	7	cum.	SSW	7	cum.	SSW	8	c-cum. / cum.	SSW
„ 22, ..	1	cum.	...	3	cum.	SSW	5	c-cum. / cum.	S	8	c-cum. / cum.	SSW
„ 23, ...	0	...	...	0	...	...	1	cum.	...	2	c-cum. / cum.	...
„ 24, ...	1	c-str.	...	0	...	...	5	c-cum.	...	7	c-cum. / cum.	E
„ 25, ...	7	str-cum.	...	9	cum.	ESE	4	cum.	E	9	c-cum. / cum.	ESE
„ 26, ...	4	cum.	E	8	sm-cum. / cum.	E	7	cum.	ESE	7	c-cum. / cum. / cum.	ENE / SSE / ESE
„ 27, ...	8	cum.	ESE	0	...	...	4	c-cum. / sm-cum. / cum.	SE	7	c-cum. / cum.	SSE
„ 28, ...	8	cum.	...	10	str-cum.	...	8	c-cum. / cum.	SW	10	c-cum. / cum.	SW
„ 29, ...	2	cum.	...	7	cum.	...	6	c-cum. / cum.	SW	2	c-cum. / cum.	WSW
„ 30, ...	3	cum.	...	4	cum.	...	9	cum.	SW	9	c-cum. / cum.	SW
„ 31, ...	3	cum.	...	7	cum.	SSW	9	c-str. / nim.	SSW	9	c-str. / cum.	NNE / SSW
Means,...	5.5	...	...	6.3	...	...	6.8	...	...	7.2	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
July 1,...	10	nim.	E	10	str-cum.	...	10	str. / nim.	...	10	nim.	...	10.0
„ 2,...	10	str-cum.	ENE	9	sm-cum. / cum.	ENE	10	sm-cum. / cum.	ENE	10	str-cum.	...	9.7
„ 3,...	7	sm-cum. / cum.	NNE / ..	10	sm-cum.	NNE	10	sm-cum. / cum-nim.	N	10	str. / cum.	...	8.4
„ 4,...	8	sm-cum. / cum.	N / ..	10	sm-cum. / cum.	NNE / ..	9	sm-cum.	NNE	6	sm-cum.	...	8.3
„ 5,...	9	sm-cum. / cum.	SW	9	sm-cum. / cum.	SSW	9	sm-cum. / nim.	SSW	8	cum-nim.	...	9.2
„ 6,...	9	sm-cum. / nim.	WSW	9	sm-cum. / cum.	SW	10	cum.	SSW	10	cum.	...	8.1
„ 7,...	9	cum. / cum.	S / SE	10	cum. / nim.	S / SE	8	sm-cum. / cum.	...	9	sm-cum. / cum.	...	8.9
„ 8,...	8	c-cum. / cum.	S	7	c-str. / cum. / cum.	N / S / ESE	1	cum.	...	1	cum.	...	5.5
„ 9,...	10	nim.	SSE	9	c-cum. / cum.	S	10	c-cum. / cum.	S	7	cum.	SSW	9.1
„ 10,...	7	c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	10	nim.	SSW	7	c-cum. / cum.	S	7.5
„ 11,...	6	c-cum. / cum.	SSE	5	c-cum. / cum.	SSE	3	c-cum. / cum.	SSE	2	c-cum. / cum.	...	5.6
„ 12,...	7	cum.	SSE	8	c-cum. / cum. / cum.	.. / SSW / SSE	8	c-cum. / cum.	SSE	7	cum.	SSE	7.4
„ 13,...	8	c-cum. / cum.	ESE	3	c-cum. / cum.	SE	1	cum.	...	2	cum.	...	6.0
„ 14,...	6	c-cum. / cum.	SSE / S	5	c-cum. / cum.	SE	3	cum.	...	0	...	...	3.9
„ 15,...	4	cum.	SSW	4	cum.	SSW	3	cum.	SSW	1	cum.	SSW	2.8
„ 16,...	2	cum.	SW	5	cum.	SSW	2	cum.	SW	1	cum.	SW	2.6
„ 17,...	3	c-cum. / cum.	SW	3	c-str. / cum.	SW	3	c-str. / cum.	SW	3	c-str. / cum.	SW	3.4
„ 18,...	3	c-str. / cum.	SW	4	c-str. / cum.	SW	5	cum.	SW	6	c-str. / cum.	SW	5.7
„ 19,...	6	c-cum. / m-cum. / cum.	E / SW	5	c-cum. / cum.	SW	6	cum.	SW	4	cum.	SW	5.6
„ 20,...	8	c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	8	c-str. / cum.	SW	1	cum.	...	6.8
„ 21,...	7	c-cum. / cum.	SSW	7	c-cum. / cum.	NE / SSW	1	c-str. / cum.	...	1	cum.	...	5.2
„ 22,...	1	cum.	SSW	4	c-cum. / cum.	SSW	0	...	...	0	...	...	2.3
„ 23,...	3	sm-cum. / cum.	N / ..	3	cum.	...	1	c-cum.	...	0	...	...	1.2
„ 24,...	7	c-cum. / cum.	E	8	c-cum / cum.	E / ..	10	c-str. / c-cum. / cum.	...	8	str-cum.	E	5.7
„ 25,...	9	c-cum. / cum.	ESE	9	c-cum. / cum.	E / ..	10	c-cum. / cum.	...	1	cum.	...	7.3
„ 26,...	7	c-str. / cum.	ENE / SE	9	c-str. / cum.	ENE / SE	8	sm-cum. / cum.	ENE / ESE	3	str-cum.	...	6.6
„ 27,...	7	sm-cum. / cum.	SSE	8	sm-cum. / cum.	NNW / SSE	10	sm-cum. / cum.	SSE	4	sm-cum. / cum.	...	6.0
„ 28,...	10	sm-cum. / cum.	SW	9	c-str. / cum.	SW	9	c-cum. / cum.	SW	3	cum.	...	8.4
„ 29,...	2	c-cum. / cum.	...	3	c-cum. / cum.	SW	3	c-str. / cum.	SSW	2	cum.	...	3.4
„ 30,...	8	c-str / cum.	NNE / SW	8	c-cum. / cum.	NNE / SW	10	str. / cum.	SSW	9	cum-nim.	...	7.5
„ 31,...	5	c-cum. / cum.	SW	10	sm-cum. / nim.	SW	10	sm-cum. / nim.	SW	8	cum.	...	7.6
Means,...	6.6	...	...	6.7	...	...	6.5	...	...	4.6	...	...	6.3

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JULY, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.1	4.3	4.6	0.8	− 3.5	+ 3.5	S 45° E
2 „	1.5	4.2	4.5	1.4	3.0	2.8	S 43° E
3 „	1.5	4.4	3.9	1.4	2.4	3.0	S 51° E
4 „	1.5	4.2	4.4	1.7	2.9	2.5	S 41° E
5 „	1.1	4.4	3.8	1.4	2.7	3.0	S 48° E
6 „	1.2	4.5	4.2	1.2	3.0	3.3	S 48° E
7 „	1.1	4.5	3.5	1.7	2.4	2.8	S 50° E
8 „	1.4	4.9	3.9	2.1	2.5	2.8	S 47° E
9 „	1.3	4.9	4.5	2.4	3.2	2.5	S 38° E
10 „	1.6	5.7	5.4	3.1	3.8	2.6	S 34° E
11 „	1.4	6.2	5.9	3.1	4.5	3.1	S 34° E
Noon.	1.1	6.8	6.3	3.3	5.2	3.5	S 34° E
1 p.	0.7	6.7	6.7	3.0	6.0	3.7	S 32° E
2 „	0.5	6.4	7.5	3.1	7.0	3.3	S 26° E
3 „	0.7	5.8	7.7	2.7	7.0	3.1	S 24° E
4 „	0.6	4.9	7.2	2.3	6.6	2.6	S 22° E
5 „	0.5	4.7	5.8	2.2	5.3	2.5	S 25° E
6 „	0.6	4.8	6.0	1.7	5.4	3.1	S 30° E
7 „	1.2	4.4	5.3	1.0	4.1	3.4	S 40° E
8 „	1.5	4.7	4.6	0.9	3.1	3.8	S 51° E
9 „	1.2	4.5	4.4	0.8	3.2	3.7	S 49° E
10 „	1.1	5.3	4.9	0.8	3.8	4.5	S 50° E
11 „	1.0	4.9	4.5	1.0	3.5	3.9	S 49° E
Midt.	1.1	4.3	4.8	1.0	− 3.7	+ 3.3	S 41° E
Means, ...	1.1	5.0	5.2	1.8	− 4.07	+ 3.18	S 38° E

PHENOMENA :—

Solar halo :—on the 7th, 8th, 11th, 26th, 28th and 30th.

Solar corona :—on the 24th.

Lunar halo :—on the 9th, 11th, 12th, 16th, 18th, 19th, 22nd and 24th.

Lunar corona :—on the 4th and 18th.

Slight fog :—on the 2nd, 15th, 22nd and 23rd.

Haze :—on the 4th and 24th.

Unusual Visibility :—on the 11th, 18th, 22nd and 27th.

Dew :—on the 4th, 11th, 12th, 13th, 15th, 16th, 22nd, 23rd and 24th.

Rainbow :—on the 9th, 13th, 15th, 16th, 18th, 19th, 21st, 26th and 27th.

Lightning without thunder :—on the 4th, 6th, 9th, 10th, 20th, 21st, 25th, 26th, 27th, 28th, 29th 30th and 31st.

Thunder without lightning :—on the 15th, 25th, 27th and 28th.

Thunder and lightning :—on the 24th.

Thunderstorms :—on the 5th at 12.48 a., in N (15°) ; on the 7th at 1 a., in N, distant.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF AUGUST, 1897.

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,...	29.508	29.496	29.489	29.492	29.493	29.498	29.519	29.544	29.554	29.577	29.574	29.558	29.552	29.539	29.524	29.513	29.502	29.514	29.524	29.535	29.547	29.572	29.574	29.566	29.532
„ 2,...	.556	.533	.525	.522	.524	.537	.569	.570	.561	.564	.569	.551	.548	.528	.518	.532	.519	.531	.544	.560	.556	.560	.557	.549	.545
„ 3,...	.534	.531	.528	.526	.530	.551	.554	.565	.602	.609	.595	.599	.576	.556	.542	.542	.545	.548	.575	.601	.623	.635	.635	.630	.572
„ 4,...	.615	.611	.619	.611	.613	.625	.637	.638	.647	.652	.660	.655	.646	.641	.626	.613	.619	.627	.642	.649	.676	.682	.679	.669	.640
„ 5,...	.656	.643	.633	.632	.629	.638	.655	.667	.677	.688	.685	.675	.664	.659	.648	.643	.6..8	.645	.652	.664	.674	.671	.673	.660	.657
„ 6,...	.644	.643	.635	.632	.635	.646	.655	.656	.663	.658	.655	.636	.630	.616	.605	.592	.574	.588	.605	.627	.633	.641	.635	.621	.630
„ 7,...	.602	.593	.585	.585	.585	.587	.597	.608	.614	.613	.587	.577	.560	.545	.523	.508	.510	.504	.521	.534	.547	.563	.575	.571	.566
„ 8,...	.556	.547	.541	.540	.538	.551	.550	.544	.545	.534	.512	.488	.469	.449	.429	.409	.401	.414	.457	.452	.471	.473	.456	.439	.490
„ 9,...	.426	.415	.405	.392	.386	.390	.391	.405	.402	.404	.389	.382	.360	.339	.326	.303	.297	.288	.305	.323	.335	.342	.348	.352	.363
„ 10,...	.340	.324	.310	.324	.325	.304	.338	.378	.398	.390	.379	.359	.342	.321	.314	.308	.322	.341	.354	.360	.391	.410	.411	.387	.351
„ 11,...	.386	.382	.368	.371	.394	.408	.436	.454	.459	.467	.445	.461	.450	.460	.439	.442	.438	.442	.479	.514	.528	.547	.544	.542	.452
„ 12,...	.540	.530	.522	.521	.526	.559	.580	.578	.591	.594	.587	.569	.554	.546	.525	.512	.526	.549	.566	.588	.618	.629	.624	.613	.564
„ 13,...	.603	.583	.580	.576	.581	.593	.602	.610	.613	.621	.623	.625	.619	.601	.590	.583	.600	.593	.610	.637	.656	.674	.681	.678	.614
„ 14,...	.662	.631	.636	.629	.635	.644	.658	.675	.700	.702	.709	.699	.681	.672	.663	.660	.665	.679	.695	.703	.728	.750	.752	.750	.682
„ 15,...	.738	.722	.714	.716	.713	.728	.742	.763	.777	.795	.794	.784	.774	.747	.737	.739	.732	.740	.757	.770	.789	.792	.807	.797	.757
„ 16,...	.785	.764	.754	.747	.744	.756	.771	.793	.798	.809	.822	.816	.818	.798	.791	.785	.785	.800	.805	.824	.830	.822	.815	.812	.794
„ 17,...	.804	.794	.772	.761	.761	.769	.785	.796	.811	.817	.821	.808	.793	.780	.763	.751	.753	.757	.768	.784	.805	.824	.828	.819	.788
„ 18,...	.813	.782	.769	.759	.751	.747	.759	.775	.784	.791	.777	.773	.757	.742	.731	.713	.707	.720	.735	.748	.769	.777	.766	.750	.758
„ 19,...	.728	.708	.701	.696	.699	.707	.724	.738	.754	.753	.742	.724	.693	.684	.670	.668	.668	.663	.688	.722	.740	.735	.726	.698	.710
„ 20,...	.686	.670	.659	.673	.681	.676	.695	.711	.727	.724	.729	.708	.680	.662	.643	.630	.635	.657	.678	.687	.697	.701	.700	.684	.683
„ 21,...	.666	.649	.643	.638	.640	.649	.666	.676	.683	.692	.672	.655	.640	.632	.611	.594	.584	.598	.628	.649	.654	.663	.661	.669	.646
„ 22,...	.658	.649	.644	.640	.652	.653	.668	.681	.683	.684	.694	.674	.662	.641	.630	.635	.659	.658	.668	.679	.684	.696	.701	.699	.666
„ 23,...	.686	.684	.673	.664	.672	.685	.696	.724	.736	.744	.740	.736	.721	.712	.709	.706	.696	.698	.714	.729	.749	.751	.751	.738	.713
„ 24,...	.727	.720	.701	.689	.694	.712	.733	.749	.752	.763	.770	.754	.733	.735	.720	.702	.698	.697	.717	.738	.768	.781	.772	.761	.733
„ 25,...	.734	.728	.712	.711	.707	.717	.738	.754	.763	.772	.774	.760	.751	.734	.733	.742	.735	.740	.755	.777	.805	.815	.810	.809	.753
„ 26,...	.785	.775	.768	.767	.770	.788	.803	.829	.837	.847	.848	.836	.820	.815	.805	.795	.795	.791	.793	.815	.828	.833	.837	.824	.809
„ 27,...	.816	.801	.798	.794	.798	.814	.823	.837	.843	.850	.846	.834	.813	.794	.770	.754	.740	.734	.742	.759	.775	.790	.787	.781	.796
„ 28,...	.777	.759	.750	.749	.752	.759	.783	.781	.794	.785	.787	.771	.749	.735	.718	.706	.700	.702	.717	.736	.748	.768	.773	.769	.753
„ 29,...	.765	.756	.758	.762	.756	.757	.766	.790	.794	.795	.801	.786	.770	.759	.743	.728	.712	.731	.744	.749	.768	.790	.800	.797	.766
„ 30,...	.792	.787	.771	.774	.776	.777	.803	.813	.833	.849	.846	.826	.813	.795	.774	.767	.762	.771	.791	.803	.824	.837	.838	.825	.802
„ 31,...	.811	.787	.778	.776	.781	.776	.791	.819	.832	.844	.838	.831	.816	.788	.782	.792	.764	.761	.774	.794	.803	.809	.809	.799	.798
Means,.....	29.658	29.645	29.637	29.634	29.637	29.645	29.661	29.675	29.685	29.690	29.686	29.675	29.660	29.646	29.632	29.625	29.622	29.628	29.645	29.662	29.678	29.688	29.688	29.679	29.658

TABLE II.

TEMPERATURE FOR THE MONTH OF AUGUST, 1897.

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,	82.7	83.0	82.2	81.8	83.0	82.1	79.9	77.1	78.6	77.2	77.7	77.6	79.8	79.8	80.0	83.6	83.8	82.6	82.8	82.6	83.1	79.2	82.1	81.4	81.0	83.8	76.1
„ 2,	77.3	77.4	77.6	78.3	76.8	76.4	76.8	77.4	77.8	82.9	78.8	82.1	77.2	82.2	79.0	76.4	76.0	77.0	78.8	79.8	79.5	79.8	79.6	78.5	78.5	82.9	75.5
„ 3,	77.8	80.4	80.8	81.6	81.6	81.6	83.0	82.2	76.6	79.4	80.5	81.5	82.1	82.0	81.8	82.2	84.1	82.8	82.3	82.5	82.3	82.2	81.5	81.8	81.4	84.5	76.6
„ 4,	81.5	81.4	81.5	81.2	81.4	80.3	82.1	83.6	83.5	81.5	79.4	82.8	83.9	83.1	83.1	82.8	82.5	82.3	81.6	81.5	80.7	80.4	81.3	80 9	81.8	85.9	78.5
„ 5,	80.8	80.9	80.6	79.8	79.9	80.6	81.1	82.5	82.8	82.4	82.8	84.2	83.9	84.1	83.9	83.6	81.8	80.3	81.5	81.4	81.0	81.0	81.2	80.8	81.8	85.0	79.2
„ 6,	80.8	80.5	80.3	80.4	80.1	80.4	81.6	81.2	81.3	83.1	84.4	85.1	85.0	84.7	84.4	84.9	83.0	82.1	81.3	80.8	80.6	80.4	80.1	79.9	81.9	86 2	79.5
„ 7,	79.2	79.0	79.1	78.7	78.8	79.0	80.1	81.2	85.5	85.5	85.5	84.5	85.4	85.5	84.8	84.5	83.6	82.8	82.2	81.8	81.8	81.5	81.2	80 1	82.1	87.5	78.7
„ 8,	79.4	79.1	80.6	80.4	80.3	80.5	82.2	83.1	83.4	86.2	86.1	88.6	88.1	87.2	86.2	87.1	86.6	85.8	78.6	79.3	79.6	79.6	80.3	80.3	82.9	88.7	78.5
„ 9,	80.0	80.4	81.0	81.3	81.7	82.0	83.2	83.5	84.1	84.6	84.9	84.6	85.8	86.0	86.6	87.0	86.3	85.7	84.6	85.1	84.5	85.1	84.1	83.9	84.0	87.4	79.9
„ 10,	83.3	81.1	80.6	79.2	77.8	78.0	79.6	80.0	81.8	83.7	85.7	85.4	87.2	88.9	87.3	86.1	84.5	84.0	83.9	84.0	83.5	84.0	83.5	83.2	83.2	89.2	77.8
„ 11,	83.4	82.4	83.5	83.6	83.6	82.7	82.8	83.2	83.3	83.9	84.0	84.3	84.2	84.0	84.0	85.5	83.7	82.1	82.4	81.6	82.0	82.8	83.1	83.5	83.3	85.7	81 6
„ 12,	83.2	82.8	82.1	78.6	81.5	78.2	77.1	78.8	79.5	81.0	81.8	85.8	86.1	85.2	84.9	85.8	85.2	84.2	83.3	82.6	82.6	82.7	82.8	82.5	82.4	86.9	74.8
„ 13,	81.8	82.0	81.7	81.6	81.6	81.7	82.8	84.1	84.2	83.0	84.8	85.3	84.4	84.6	84.1	83.0	77.5	77.0	78.5	77.5	77.4	78.0	76.8	76.5	81.2	87.0	76.3
„ 14,	76.6	76.2	76.4	76.5	76.8	76.7	77.5	78.5	77.7	78.7	77.8	77.2	75.9	75.6	76.8	77.4	78.2	78.1	77.4	77.2	77.3	78.2	76.6	76.6	77.2	79.1	75.6
„ 15,	76.6	76.6	76.4	75.7	75.6	76.4	76.2	75.4	73.9	73.4	73.9	75.9	76.1	77.1	77.5	76.3	76.1	75.3	74.8	75.6	76.8	77.0	77.3	77.2	76.0	77.8	73.1
„ 16,	75.6	74.6	74.5	76.2	77.2	79.0	80.0	80.7	80.1	81.5	81.8	77.8	78.8	80.1	78.4	79.2	79.4	76.8	76.4	76.1	74.6	74.3	74.6	74.7	77.6	83.2	73.8
„ 17,	74.8	75.4	75.0	74.9	75.1	75.9	77.0	77.9	77.8	78.0	77.2	77.0	76.6	77.3	77.4	77.7	77.5	76.9	77.0	77.2	77.2	77.0	77.6	77.5	76.8	79.2	74.5
„ 18,	77.2	77.1	76.9	77.0	77.1	77.3	77.6	79.3	80.6	82.5	83 0	83.0	82.8	83.7	83.7	83.0	81.2	80.6	79.6	79.5	78.6	78.6	78.1	78.3	79.8	84.9	76.6
„ 19,	78.1	77.5	78.0	77.6	77.4	77.7	78.0	80.5	81.8	83.6	84.0	84.8	86.7	85.0	82.9	81.8	82.1	81.2	79.9	79.8	80.2	79.6	78.2	77.6	80 6	87 1	77.3
„ 20,	77.6	77.5	76.6	76.3	76.4	77.0	79.8	81.5	82.9	84.6	85.0	86.2	86.8	87.2	86.8	86.0	84.4	83.0	82.6	81.7	81.4	80.8	80.7	80.4	81.8	87.7	76.3
„ 21,	80.2	80.6	80.6	79.8	80.1	79.6	81.6	83.2	84.6	83.2	84.2	86.9	85.3	85.9	86.5	85.3	84.2	83.3	82.7	83.0	82.5	82 2	82.5	82.0	82 9	88.7	79.6
„ 22,	81.6	81.0	80.6	80.7	80.5	81.6	83.3	83.8	84.6	86.1	85.9	86.8	88.0	88.8	86.1	85.8	76.4	77.3	78.6	78.6	78.8	78.8	79.9	79.7	82.2	89.2	76.4
„ 23,	80.4	80.9	80.7	81.9	81.9	82.3	82.2	82.6	79.2	81.0	80.2	81.5	79.8	76.7	75.4	76.5	77.5	77.3	77.0	77.8	78.0	78.4	78.1	78.2	79.4	82.9	74.8
„ 24,	77.6	78.2	78.5	78.7	77.7	78.0	76.4	77.6	76.6	81.5	81.0	79.8	81.6	77.8	78.1	78.9	79.8	80.0	78.8	78.6	78.4	78.4	78.7	78.9	78.7	82.8	76.0
„ 25,	78.5	79.7	78.2	77.8	77.9	77.7	79.0	80.2	81.8	82.0	82.6	81.9	80.5	83.4	79.5	79 5	79.9	79.6	79.3	78.3	78.5	77.7	78.0	78.0	79.6	83.9	77.5
„ 26,	77.6	77.2	77.0	77.1	77.2	77.8	79.0	81.8	82.8	83.2	84.4	84.0	84.4	84.0	83.8	83.6	83.0	82.0	81.5	80.6	80.3	79.2	79.5	79.0	80.8	84.9	76.7
„ 27,	78.4	77.9	77.6	77.5	77.6	78.9	80.4	81.9	82.3	83.8	84.1	85.9	86.5	87.6	87.8	87.6	85.1	83.0	82.0	81.0	80.4	80.4	79.3	78.5	81.9	88.6	77.3
„ 28,	78.7	77.8	78.1	77.4	77.1	77.8	79.9	81.5	82.6	83.8	85.1	86.0	86.2	87.0	87.8	86.0	85.1	83.4	81.6	81.5	80.3	80.4	79.4	79.2	81.8	88.3	77.0
„ 29,	78 8	78.8	79.7	78.4	77.6	78.2	78.5	81.8	82.6	84.8	85.3	84.6	84.8	84.5	82.7	83.6	82.9	81.6	80.5	81.0	80.3	80.2	80.1	80.0	81.3	87.4	77.6
„ 30,	79.8	79.2	78.8	79.3	78.8	79.6	80 8	82.6	78.6	80.1	79.6	81.6	82.3	84.2	82.1	82.8	83.8	82.1	79.9	79.8	79.5	78.7	78.7	78.0	80.4	84.4	77 6
„ 31,	78.1	77.7	77.4	78.0	78.4	78.5	80.6	81.3	83.0	83.6	84.5	86.5	86.4	85.5	86.5	78.8	79.5	79.1	78.6	78.3	77.6	77.6	78.3	77.2	80.5	88.7	77.1
Means,	79.3	79.2	79.1	78.9	79.0	79.1	80.0	81.0	81.2	82.3	82.5	83.2	83.3	83.5	82.9	82.7	81.8	80.9	80.3	80.2	80.0	79.8	79.8	79.5	80.8	85.5	77.0

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF AUGUST, 1897.

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, ...	78.9	78.6	78.8	78.4	78.8	78.2	76.1	75.8	77.2	76.0	76.4	76.4	78.7	78.9	79.4	79.6	79.4	79.7	79.3	79.8	79.4	77.1	78.3	77.5	78.2	93.2
„ 2, ...	75.1	75.7	76.1	77.9	75.7	75.2	76.5	76.4	76.9	78.7	77.0	78.2	76.3	78.0	78.3	75.1	75.2	75.8	75.6	76.6	77.1	76.6	76.8	76.0	76.5	94.7
„ 3, ...	77.2	76.0	78.2	76.4	78.0	78.2	78.1	78.4	75.0	76.6	76.1	77.7	78.1	78.0	78.6	79.1	78.6	78.5	78.6	78.6	78.5	79.3	78.3	78.1	77.8	133.7
„ 4, ...	78.0	77.8	77.6	77.4	77.6	77.5	77.9	78.0	78.8	78.6	76.6	78.0	78.2	78.4	78.4	78.2	78.3	78.5	78.8	78.6	78.8	78.5	78.6	78.4	78.1	142.8
„ 5, ...	78.1	78.2	77.8	78.2	78.0	78.3	78.4	78.3	79.0	78.7	78.7	79.4	78.9	78.7	78.6	77.9	75.9	77.0	77.2	77.4	77.5	77.8	77.9	78.0	78.1	141.5
„ 6, ...	78.1	78.2	78.0	78.4	78.3	78.4	78.4	78.4	77.9	78.7	78.7	79.0	78.7	78.8	78.2	78.4	78.2	78.1	78.7	78.6	78.5	78.3	78.0	77.7	78.4	143.2
„ 7, ...	77.8	77.7	77.6	77.5	77.6	77.6	78.6	78.7	79.3	79.5	78.7	78.6	78.6	78.2	77.6	77.7	78.3	78.7	78.3	78.5	78.3	78.2	78.0	77.9	78.2	148.0
„ 8, ...	78.0	77.5	76.8	74.7	74.1	74.6	75.9	76.2	75.9	76.4	78.6	79.6	81.6	79.9	80.8	80.6	79.7	79.6	76.3	77.6	77.6	77.6	77.6	78.7	77.7	140.3
„ 9, ...	78.1	78.2	78.6	79.4	80.1	80.3	79.9	79.4	79.3	79.5	79.5	79.4	79.5	80.0	79.9	79.7	79.8	79.0	78.3	79.0	78.3	78.7	79.6	79.9	79.3	128.9
„ 10, ...	80.7	78.3	77.7	76.1	74.7	74.9	75.6	76.2	77.9	78.9	79.9	80.2	81.0	80.3	81.2	81.0	81.0	80.7	80.9	80.7	81.3	81.4	81.6	81.4	79.3	142.0
„ 11, ...	81.0	80.6	80 6	80.5	80.7	80.6	80.2	80.8	80.5	80.8	80.7	80.9	80.9	80.7	80.8	79 1	75.9	76.9	78.0	78.3	78.7	79.3	79.5	80.0	79.8	106.2
„ 12, ...	80.0	79.7	80.1	77.0	79.2	75.8	75.9	77.1	78.2	79.6	80.0	82.0	81.3	80.8	80.6	80.7	80.1	79.8	80.0	79.6	79.6	79.2	79.2	79.0	79.4	149.8
„ 13, ...	78.6	78.4	78.6	78.0	78 2	78.4	79.3	79.2	78.9	78.9	79.3	78.9	79.7	79.9	79.6	79.0	76.0	74.8	76.6	76.0	76.5	77.2	76.1	75.5	78.0	141.9
„ 14, ...	74.9	75.5	75.3	75.2	75.5	75.6	75.9	76.5	76.6	76.8	76.6	76.0	75.2	75.0	75.7	75.8	76.9	76.3	76.3	76.2	76.1	76.3	75.8	76.0	75.9	94.7
„ 15, ...	75.9	75.9	74.4	74.7	75.2	75.6	75.4	75.0	73.0	73.0	73.6	74.1	74.9	75.2	75.0	72.6	74.0	74 3	73.9	74 4	74.4	75.1	75.4	75.0	74.6	97.1
„ 16, ...	75.0	74.5	74.0	75.5	75.6	75.3	75.6	75.8	75.9	76.7	74.7	74.7	75.4	74.9	75.1	74.3	75 2	73.9	74.4	73.5	72.6	73.0	72.9	72.8	74.7	142.9
„ 17, ...	73.4	74.4	74.2	74.5	74.6	74.8	74.9	75.4	76.3	75.8	75.6	75.8	75.6	75.8	76.2	76.2	76.4	76.0	76.2	76.3	76.1	76.3	76.8	76.7	75.6	121.5
„ 18, ...	76.5	76.6	76.3	76.4	76.5	76.4	76.4	76.9	77.6	77.9	77.1	76.8	77.1	77.5	78.0	76.9	78.7	77.5	77.4	77.2	77.2	76.9	76.6	76.5	77.0	131.6
„ 19, ...	76.4	76.2	76.4	76.1	76.3	76 9	77.1	77.8	78.0	78.2	78.7	78.7	79.1	78.9	77.9	77.6	77.9	78.4	78.0	78.3	78.5	77.3	75.4	75.8	77.5	144.0
„ 20, ...	76.0	75.4	75.7	75.6	75.6	75.8	77.0	78.6	79.1	78.7	78.1	78.6	79.1	80.1	79.7	79.9	78.3	78.6	78.6	78.6	78.5	78.6	78.7	78.6	78.0	140.3
„ 21, ...	78.0	77.9	78.9	78.8	77.9	78.0	79.0	79.1	79.5	79.6	78.4	80.7	79.1	79.8	78.7	79.0	78·7	77.8	78.1	78.5	78.2	78.0	78.1	78.9	78.7	146.7
„ 22, ...	78.7	78.3	78.2	77.7	77.8	78.3	78.1	77.9	78.1	79.6	78.4	78.9	79.5	79.5	76.2	79.2	74.7	74.8	76.0	75.8	76.7	76.3	76.4	76.3	77.6	144.9
„ 23, ...	77.7	78.1	78.4	77.6	78.6	78.1	78.1	78.0	77.2	78.1	76.0	77.5	76.9	74.5	73.7	73.7	74.0	75.1	75.7	75.9	76.1	76.4	76.1	76.5	76.6	99.2
„ 24, ...	76.5	76.2	77.0	77.1	75.6	76.2	75.0	76.9	74.9	77.7	76.9	76.8	77.8	75.9	75.6	76.0	75.8	76.7	75.8	75.8	75.9	76.0	75.9	76.4	76.3	148.5
„ 25, ...	76 0	75.6	75.2	75.4	75.0	75.6	76.3	77.0	78.0	76.9	77.3	77.3	77.1	76.0	77.0	76.1	76.0	75.2	75.5	75.4	75.8	76.2	76.4	76.7	76 2	142.5
„ 26, ...	76.5	75.8	75.9	76.0	76.1	76.7	77.3	77.9	78.8	78.0	78.9	78.8	78.1	78.0	78.1	77.8	77.2	76.7	76.9	78.0	77.6	78.0	77.0	77.3	77.4	142.1
„ 27, ...	77.2	76.8	76.6	76.6	76.8	77.8	77.5	78.0	77.8	78.7	77.7	78.6	78.7	78.2	78.3	78.6	77.9	76.4	76 9	76.6	78.5	77.7	76 6	75.6	77.5	141.2
„ 28, ...	75.7	75.8	75.6	75.6	75.3	76.2	76.9	77.2	77.0	77.9	77.6	78.9	79.1	79.3	80.4	77.7	77.3	77.0	77.2	77.1	76.8	76.3	76.7	76.6	77.1	141.0
„ 29, ...	76.7	76.6	76.4	76.9	77.5	77.1	76.9	78.6	78.9	79.0	78.5	78.4	78.8	77.3	77.6	78.1	78.0	78.3	76.4	77.7	77.6	77.3	77.6	77.9	77.7	150.8
„ 30, ...	77.7	77.3	77.1	77.2	76.9	77.0	78.5	78.7	76.2	76.2	76 8	77.8	77.1	78.8	77.2	77.0	77.0	76.9	77.3	77.2	77.5	76.8	76.6	76.5	77.2	139.4
„ 31, ...	76.5	76.6	76.4	76.8	77.0	77.2	78.0	78.5	78.8	77.9	77.3	78.0	77.1	78.8	78.6	74.9	75.3	75.1	76.0	76.2	76.0	75.7	75.1	75.3	76.8	145.5
Means, ...	77.3	77.0	77.0	76.9	76.9	77.0	77.2	77.6	77.6	78.0	77.7	78.2	78.3	78.2	78.1	77.7	77.3	77.2	77.2	77.4	77.4	77.3	77.2	77.2	77.5	132.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF AUGUST, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	91	0.912	Aug. 1,.....	88	0.929
2 „	90	.900	„ 2,.....	91	.887
3 „	90	.902	„ 3,.....	85	.905
4 „	91	.900	„ 4,.....	84	.913
5 „	91	.899	„ 5,.....	84	.913
6 „	91	.902	„ 6,.....	85	.926
7 „	88	.899	„ 7,.....	83	.914
8 „	85	.903	„ 8,.....	78	.881
9 „	85	.900	„ 9,.....	80	.939
10 „	82	.903	„ 10,.....	83	.949
11 „	80	.887	„ 11,.....	85	.971
Noon.	79	.900	„ 12,.....	87	.965
1 p.	79	.904	„ 13,.....	86	.917
2 „	78	.896	„ 14,.....	94	.879
3 „	80	.900	„ 15,.....	93	.839
4 „	79	.885	„ 16,.....	87	.822
5 „	81	.878	„ 17,.....	94	.871
6 „	84	.886	„ 18,.....	88	.892
7 „	87	.895	„ 19,.....	87	.903
8 „	88	.905	„ 20,.....	84	.909
9 „	89	.908	„ 21,.....	82	.926
10 „	89	.906	„ 22,.....	81	.885
11 „	89	.901	„ 23,.....	88	.879
Midt.	90	.905	„ 24,.....	89	.875
			„ 25,.....	85	.859
			„ 26,.....	85	.896
			„ 27,.....	82	.885
			„ 28,.....	80	.869
			„ 29,.....	85	.902
			„ 30,.....	86	.892
			„ 31,.....	84	.873
Means,.....	86	0.899	Means.	86	0.899

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.
1897.														
Aug. 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,.....	...	0.3	0.3	...	...	...	...	...	...	0.7	1.0	0.5	...	2.8
„ 4,.....	...	0.4	0.9	0.9	0.7	0.2	...	0.3	0.9	1.0	0.6	...	...	5.9
„ 5,.....	...	0.2	0.9	0.9	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	8.9
„ 6, ...	...	0.3	...	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	8.7
„ 7,.....	0.1	0.8	0.5	1.0	0.8	1.0	0.9	0.9	1.0	1.0	0.5	0.5	0.1	9.1
„ 8,.....	...	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.5
„ 9,.....	...	...	...	...	...	0.1	...	...	...	...	...	...	...	0.1
„ 10,.....	...	...	...	...	...	0.3	0.2	0.9	1.0	1.0	0.9	0.2	...	4.5
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	0.1	0.9	0.7	0.8	1.0	0.5	...	4.0
„ 13,.....	...	0.7	1.0	0.9	0.4	0.3	0.2	0.2	...	...	...	...	...	3.7
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	0.2	0.2	...	...	...	...	...	...	0.4
„ 17,.....	...	0.5	...	0.1	...	...	...	...	...	...	...	...	...	0.6
„ 18,.....	...	...	0.1	0.9	0.1	...	...	...	...	...	...	...	...	1.1
„ 19,.....	...	...	...	0.4	0.9	0.7	1.0	0.7	0.5	...	...	...	...	4.2
„ 20,.....	0.2	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.8	...	10.7
„ 21.....	...	0.7	1.0	0.9	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.1	...	9.2
„ 22,.....	0.2	0.5	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.7	...	...	9.2
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	0.7	0.2	...	0.1	...	...	0.8	0.7	0.1	2.6
„ 25,.....	...	...	0.6	1.0	0.9	0.9	0.9	0.8	0.5	0.1	0.2	0.4	...	6.3
„ 26,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	0.8	0.3	10.9
„ 27,.....	0 1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.6
„ 28,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.8	0.4	...	10.0
„ 29,.....	...	0.3	1.0	0.2	0.2	0.7	...	0.3	...	0.3	0.1	0.3	...	3.4
„ 30,.....	0.2	0.3	0.1	...	...	...	0.3	0.8	1.0	1.0	0.9	0.7	0.1	5.4
„ 31,.....	0.1	1.0	0.8	0.9	1.0	0.9	1.0	1.0	1.0	0.7	...	...	...	8.4
Sums,.....	0.9	10.8	12.9	14.8	14.1	14.4	13.8	15.9	15.5	15.1	14.4	8.5	1.1	152.2

TABLE VI.

RAINFALL FOR THE MONTH OF AUGUST, 1897.

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.
Aug. 1	...	...	0.050	0.010	...	0.635	0.180	1.080	0.285	0.385	0.190	0.490	0.195	0.070	0.005	...	...	...	0.020	...	...	0.350	0.120	0.355	4.420	14
„ 2	...	...	...	...	...	0.200	1.030	...	0.385	...	0.005	0.395	0.400	0.020	0.280	0.700	0.790	0.220	0.190	0.060	0.010	...	...	0.330	5.015	17
„ 3	0.180	...	...	...	...	...	0.020	0.230	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.450	5
„ 4	...	...	...	...	...	0.025	...	...	...	0.035	0.350	0.005	...	...	...	...	...	...	...	...	0.010	0.035	...	...	0.460	3
„ 5	...	...	...	0.110	0.010	...	...	...	0.015	0.030	...	...	...	...	...	...	0.010	...	...	...	...	...	...	...	0.175	1
„ 6	...	...	...	...	...	...	...	0.040	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.070	...
„ 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.120	...	...	...	...	...	0.120	1
„ 9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10	0.110	0.020	0.025	0.050	0.035	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.260	6
„ 11	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	2
„ 12	...	...	..	0.450	0.475	1.840	0.260	0.125	0.020	0.010	...	...	...	...	...	...	...	...	0.010	...	...	...	...	...	3.190	6
„ 13	...	...	0.005	...	...	...	...	...	...	0.005	...	...	...	...	...	...	0.235	0.015	...	0.075	0.095	0.040	0.070	0.025	0.565	5
„ 14	0.005	0.005	...	0.005	...	...	...	0.040	0.180	0.050	0.040	0.020	0.055	0.050	0.020	...	...	...	...	...	...	...	0.005	...	0.475	12
„ 15	...	0.060	0.030	0.070	0.165	0.715	0.790	0.980	0.330	0.385	0.170	0.085	0.050	0.015	0.005	0.015	0.010	0.285	0.075	0.100	...	0.005	0.085	0.010	4.435	21
„ 16	0.500	0.910	0.125	0.015	0.005	...	...	...	0.085	...	...	0.210	...	0.125	0.005	...	0.040	0.250	0.010	...	...	0.010	...	0.020	2.310	11
„ 17	0.005	0.050	0.030	0.095	0.020	...	...	...	...	...	0.090	0.100	0.040	...	...	...	...	...	...	...	..	...	...	...	0.430	10
„ 18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.140	0.010	...	...	...	...	...	...	0.150	1
„ 23	...	...	...	...	...	...	...	...	0.035	...	...	...	...	0.420	0.200	0.005	...	...	...	...	...	...	...	...	0.660	5
„ 24	...	...	...	...	...	...	0.375	0.385	0.610	...	...	0.025	...	0.190	0.005	...	...	...	...	...	...	...	...	...	1.590	5
„ 25	0.045	...	...	...	...	...	...	...	...	...	...	0.005	0.010	0.115	0.010	...	...	...	...	...	...	...	...	...	0.185	3
„ 26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30	...	...	...	...	...	...	...	0.050	0.280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.330	1
„ 31	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.200	0.055	...	...	...	...	...	...	...	..	0.255	1
Sums,	0.845	1.045	0.270	0.805	0.710	3.415	2.655	2.930	2.255	0.920	0.845	1.335	0.750	1.005	0.730	0.775	1.225	0.780	0.425	0.235	0.115	0.440	0.280	0.760	25.550	130

The daily duration of rain is entered from estimation,

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF AUGUST, 1897.

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
Aug. 1.	18	11	19	14	18	17	18	10	18	14	19	14	18	13	23	12	27	11	27	14	27	9	31	5	24	7	29	9	26	6	18	12	17	11	15	7	17	11	16	12	16	12	18	12	13	10	3	8	261	10.9	19
" 2.	5	4	5	4	6	4	6	7	9	19	9	23	5	12	5	9	7	8	18	19	24	19	19	25	25	16	16	17	18	17	19	7	3	4	7	9	17	9	15	11	10	10	14	8	15	8	16	15	284	11.8	14
" 3.	16	12	16	12	16	14	18	14	16	13	16	12	15	15	16	16	15	9	16	5	6	9	7	9	10	12	11	13	8	15	11	16	15	17	12	19	14	17	14	15	13	12	13	12	13	14	14	12	314	13.1	14
" 4.	11	8	13	13	12	12	13	14	13	18	14	18	12	18	13	16	12	18	9	17	12	22	11	23	10	21	9	20	9	22	10	25	9	20	7	25	9	25	7	27	9	21	9	23	10	23	9	19	468	19.5	10
" 5.	9	19	9	19	10	20	9	22	10	21	7	22	6	23	7	22	7	22	7	23	7	25	6	25	7	23	7	25	7	27	7	26	10	23	9	13	7	22	7	21	7	21	6	21	6	13	6	15	513	21.4	7
" 6.	6	12	7	10	6	13	8	11	7	6	7	4	9	10	9	9	9	13	9	8	10	9	9	12	9	13	9	14	8	10	9	13	9	11	9	11	9	7	10	6	9	2	10	2	9	5	10	4	215	9.0	8
" 7.	5	2	...	1	...	1	...	0	...	0	...	0	...	0	...	1	4	3	8	9	9	12	9	15	8	15	8	14	8	14	8	15	9	15	8	13	9	12	8	13	8	11	8	9	8	9	8	8	192	8.0	8
" 8.	8	2	8	5	6	12	5	11	5	12	...	1	...	1	9	3	9	4	22	8	23	10	21	8	22	12	23	12	23	11	23	10	23	10	25	15	30	5	28	5	26	3	20	2	25	3	25	5	170	7.1	25
" 9.	26	7	26	4	...	0	26	6	23	10	25	13	23	11	23	11	24	12	23	13	26	20	23	13	25	16	22	13	21	16	22	18	22	9	22	15	23	10	24	4	26	5	26	7	27	7	28	6	246	10.2	24
" 10.	28	10	27	12	24	12	26	10	22	8	27	6	20	8	22	4	20	5	19	8	19	13	20	13	20	15	21	14	19	22	18	19	19	25	19	23	19	23	19	27	20	26	21	18	20	19	19	29	367	15.3	20
" 11.	19	34	19	37	19	38	19	36	19	29	20	28	20	22	20	26	21	25	21	28	20	29	19	28	19	19	20	23	20	18	21	10	19	11	...	1	16	2	17	3	18	10	19	12	19	16	18	21	506	21.1	19
" 12.	19	21	19	23	22	14	18	18	18	19	19	20	32	5	...	1	31	2	...	1	30	7	19	12	19	17	18	11	17	15	18	13	17	11	18	8	16	7	17	8	16	10	17	10	18	8	17	5	266	11.1	18
" 13.	17	7	18	8	16	8	17	11	17	8	18	7	17	8	15	9	15	9	14	10	16	12	16	12	28	6	24	6	28	2	19	10	20	11	7	4	8	10	9	11	9	4	12	3	24	5	31	2	183	7.6	16
" 14.	31	3	8	4	7	5	7	5	9	9	9	10	9	14	9	10	9	10	8	12	8	13	5	10	7	12	9	8	9	6	9	4	3	2	32	4	8	8	9	7	9	6	...	0	9	10	9	7	179	7.5	8
" 15.	8	5	11	7	15	5	6	7	6	7	3	4	6	7	25	4	15	2	5	2	5	3	...	0	...	1	5	3	5	2	19	17	27	8	31	12	20	12	18	17	17	7	17	4	16	7	15	9	152	6.3	16
" 16.	13	6	14	10	1	4	6	6	8	7	15	10	13	6	14	8	15	6	17	10	16	13	18	14	19	13	17	14	16	10	17	7	15	7	15	7	11	5	15	10	6	10	7	14	7	14	8	17	228	9.5	13
" 17.	8	11	8	12	8	13	8	16	7	13	8	13	7	15	9	14	9	14	7	14	7	15	8	15	8	12	9	13	9	12	9	11	8	10	7	11	7	11	7	7	7	13	7	11	6	7	6	4	287	12.0	8
" 18.	6	5	8	12	9	12	9	7	6	4	6	5	6	3	6	4	6	6	7	5	17	6	16	9	16	7	16	3	15	5	21	8	21	4	...	1	24	3	...	0	25	3	...	1	25	2	25	3	118	4.9	11
" 19.	25	2	25	5	25	3	20	2	22	5	24	3	...	1	...	1	24	4	26	5	26	3	26	3	17	10	18	8	17	6	15	4	15	7	22	6	26	5	26	3	...	1	25	4	22	4	22	3	98	4.1	22
" 20.	22	2	...	1	...	0	22	3	...	0	...	1	...	1	...	1	23	2	26	5	26	8	25	10	24	9	23	7	18	7	17	9	17	9	18	6	18	3	18	2	17	3	15	2	15	2	...	0	93	3.9	21
" 21.	15	2	19	5	20	6	24	6	24	3	...	1	24	2	24	2	...	1	6	4	15	8	16	9	15	7	21	12	21	9	20	5	16	10	17	8	18	2	17	3	15	5	15	2	18	5	18	4	121	5.0	18
" 22.	18	4	19	2	18	3	18	8	18	5	18	3	18	5	18	3	18	3	22	7	20	12	19	13	20	11	19	8	19	11	19	14	21	16	26	6	25	3	...	1	14	4	...	1	13	2	...	1	146	6.1	19
" 23.	...	0	19	2	19	3	20	13	19	13	19	12	20	11	19	8	29	6	30	2	6	9	13	9	8	12	15	20	7	16	7	12	8	15	8	12	5	6	...	1	8	4	8	7	8	10	8	13	216	9.0	11
" 24.	8	11	8	11	7	6	8	16	7	8	6	12	7	12	30	5	3	12	...	1	6	8	7	10	6	10	23	11	28	7	28	2	7	7	9	12	9	9	9	9	9	8	9	8	8	6	7	6	207	8.6	7
" 25.	12	9	14	6	13	3	12	3	6	5	6	4	7	6	7	7	10	12	9	15	8	20	8	19	5	14	8	16	9	10	16	4	18	3	18	3	18	2	7	2	...	0	...	0	...	0	...	0	163	6.8	9
" 26.	...	0	...	0	...	1	...	1	...	0	...	0	...	1	...	1	9	7	9	10	9	14	9	14	8	15	8	12	9	10	9	11	9	10	9	12	9	9	9	7	9	2	...	1	...	0	9	2	140	5.8	9
" 27.	...	1	...	1	...	1	...	0	...	0	...	0	...	1	9	2	31	5	24	8	22	8	23	6	24	8	24	5	23	7	25	6	25	5	25	3	...	1	...	1	...	0	...	1	...	0	...	0	70	2.9	24
" 28.	...	0	...	0	...	0	...	0	...	0	...	0	...	0	25	5	27	5	25	5	25	6	24	8	25	10	24	9	23	8	17	7	15	5	17	6	17	3	...	0	...	0	17	2	10	4	10	2	85	3.5	22
" 29.	...	1	9	3	...	0	...	0	9	3	...	0	...	1	10	2	10	6	10	6	10	9	10	11	10	14	10	11	10	11	10	12	9	16	9	12	7	8	7	6	7	6	10	6	9	6	10	6	156	6.5	9
" 30.	9	11	9	8	7	6	8	8	9	4	7	3	...	1	7	7	4	7	...	1	2	4	5	11	7	12	9	10	9	11	9	6	9	4	15	2	...	1	15	3	...	0	15	2	15	3	7	3	128	5.3	8
" 31.	9	3	9	5	9	6	9	5	9	5	9	7	9	7	9	7	9	7	9	10	7	8	15	8	16	9	9	9	15	13	15	4	6	3	6	2	...	0	...	0	6	3	6	4	6	4	6	3	132	5.5	10
Sums,	...	225	...	256	...	242	...	276	...	268	...	256	...	240	...	228	...	256	...	285	...	363	...	379	...	378	...	370	...	356	...	337	...	319	...	288	...	251	...	242	...	222	...	209	...	226	...	232	6704	279.3	...
Means,	...	7.3	...	8.3	...	7.8	...	8.9	...	8.6	...	8.3	...	7.7	...	7.4	...	8.3	...	9.2	...	11.7	...	12.2	...	12.2	...	11.9	...	11.5	...	10.9	...	10.3	...	9.3	...	8.1	...	7.8	...	7.2	...	6.7	...	7.3	...	7.5	216.3	9.0	...

TABLE VIII.

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
1897.												
Aug. 1, ...	8	cum.	...	10	nim.	...	10	cum-str. / nim.	S / W	10	nim.	SW
„ 2, ...	10	cum-nim.	...	10	cum.	...	10	nim.	...	10	cum-nim.	SSW
„ 3, ...	10	nim.	...	10	cum-nim.	...	9	c-cum. / cum.	SSW	9	c-cum. / nim.	SSW
„ 4, ...	2	cum.	...	3	cum.	...	6	c-cum. / cum.	SSE	9	c-str. / nim.	ESE
„ 5, ...	9	cum.	...	10	nim.	...	10	cum. / cum.	S / ESE	10	cum.	ESE
„ 6, ...	7	cum.	...	10	cum.	SE	9	sm-cum. / cum.	ESE	9	cum.	ESE
„ 7, ...	3	cum.	...	1	cum.	...	7	c-cum. / cum.	E	8	c-cum. / cum.	E
„ 8, ...	2	cum.	...	1	cum.	...	6	c-str.	SE	6	c-cum.	SE
„ 9, ...	8	c-str.	...	9	c-str.	...	10	sm-cum. / cum.	N / NNW	10	str-cum.	...
„ 10, ...	10	nim.	...	10	nim.	...	10	str-cum.	NW	10	str-cum.	NNW
„ 11, ...	10	cum.	SW	10	cum-nim.	WSW	10	str. / cum.	SW	10	nim.	WSW
„ 12, ...	9	sm-cum. / R-cum.	SW	10	nim.	...	10	nim.	WSW	10	nim.	SW
„ 13, ...	9	str. / cum.	S	9	str. / cum.	S	7	c-cum. / cum.	NE / SW	9	c-cum. / cum.	S
„ 14, ...	10	nim.	...	10	str.	...	10	str. / cum.	SSE	10	nim.	S
„ 15, ...	10	cum.	...	10	nim.	...	10	nim.	...	10	nim.	...
„ 16, ...	10	nim.	...	10	cum-nim.	SSW	9	c-cum. / cum.	S	10	sm-cum. / cum.	W / S
„ 17, ...	10	str. / cum.	SSW / ..	10	nim.	...	9	sm-cum. / cum.	SSE	10	nim.	S
„ 18, ...	10	sm-cum. / cum.	SW	10	c-str. / cum.	SSW	10	str-cum.	...	9	c-cum. / cum.	S
„ 19, ...	10	str-cum.	...	9	c-cum. / cum.	...	9	sm-cum. / cum.	NNE / ..	9	c-cum. / cum.	WSW
„ 20, ...	9	sm-cum. / cum.	SW	9	cum.	SW	2	cum.	WSW	3	sm-cum. / cum.	W / WSW
„ 21, ...	1	cum.	...	4	cum.	WSW	5	cum.	SW	6	c-cum. / cum.	SSW
„ 22, ..	2	cum.	...	4	cum.	...	8	c-cum. / cum.	SW	6	c-cum. / cum.	WSW
„ 23, ...	8	cum.	...	10	cum.	...	10	sm-cum. / cum.	SW	10	nim.	SW
„ 24, ...	10	str-cum.	...	7	nim.	...	10	nim.	...	8	sm-cum. / cum.	SSE
„ 25, ...	10	nim.	...	2	str-cum.	...	6	c-cum. / cum.	S / ..	8	c-cum. / cum. / cum.	.. / S / SE
„ 26, ...	0	...	...	0	...	...	2	c-cum. / cum.	...	3	cum.	...
„ 27, ...	0	...	...	0	...	...	1	cum.	...	2	cum.	...
„ 28, ...	0	...	...	0	...	...	2	c-str. / cum.	...	6	c-cum. / cum.	...
„ 29, ...	0	...	...	1	cum.	...	6	c-cum. / cum.	NNE / ..	9	c-str. / cum.	S
„ 30, ...	5	nim.	...	3	cum.	...	8	c-cum. / cum.	SSE	9	cum-str.	S
„ 31, ...	0	...	...	0	...	...	2	cum.	ESE	6	cum.	SE
Means,..	6.5	...	...	6.5	...	...	7.5	...	...	8.2	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Aug. 1,...	10	nim.	WSW	10	nim.	WSW	10	nim.	SW	10	nim.	...	9.8
„ 2,...	10	nim.	SW	10	nim.	...	10	nim.	...	10	cum-nim.	...	10.0
„ 3,...	9	c-cum. / cum.	SSE	7	c-cum. / cum.	SSE	8	c-cum. / cum.	S	5	cum.	...	8.4
„ 4,...	9	c-cum. / cum.	E	8	c-cum. / cum.	ESE	9	cum.	ESE	4	cum.	...	6.2
„ 5,...	8	cum.	ESE	6	c-str. / cum.	ESE	2	c-cum. / cum.	E	1	cum.	...	7.0
„ 6,...	1	cum.	...	3	c-str.	NE	1	c-str.	...	0	...	...	5.0
„ 7,...	3	c-cum. / sm-cum. / cum.	.. / NNE / ..	4	c-cum. / cum.	SSE / NE	7	sm-cum. / cum.	ENE	10	sm-cum. / cum.	NE / E	5.4
„ 8,...	6	c-cum. / cum.	NNE	8	c-cum. / cum.	...	9	nim.	ENE	9	str-cum.	...	5.9
„ 9,...	9	sm-cum.	N	9	sm-cum.	N	9	sm-cum.	N	9	sm-cum.	N	9.1
„ 10,...	7	sm-cum. / cum.	NNW / ..	6	c-cum. / cum.	N / SW	10	c-cum. / cum.	SW	10	cum-nim.	...	9.1
„ 11,...	10	str. / cum.	WSW	10	str.	...	10	str. / cum.	SW	9	c-cum. / sm-cum. / cum.	SW	9.9
„ 12,...	10	sm-cum. / cum.	SW	8	c-cum. / cum.	SW	10	cum-nim.	SSW	9	cum.	SSW	9.5
„ 13,...	9	sm-cum. / cum.	S	9	c-cum. / cum.	S	9	sm-cum. / cum-nim.	...	10	cum-nim.	S	8.9
„ 14,...	9	sm-cum. / nim.	S	10	cum-nim.	S	10	str-cum.	...	10	cum-nim.	...	9.9
„ 15,...	10	nim.	...	10	nim.	SSW	10	cum-nim.	...	10	cum-nim.	...	10.0
„ 16,...	10	cum-nim.	SSW	10	sm-cum. / cum-nim.	SSW	10	nim.	...	10	nim.	...	9.9
„ 17,...	10	nim.	...	10	nim.	...	10	nim.	S	10	cum-nim.	...	9.9
„ 18,...	9	sm-cum. / cum.	S	10	sm-cum. / cum.	SSW	10	str. / cum.	...	10	str-cum.	...	9.8
„ 19,...	4	c-cum. / cum.	WSW	9	str. / cum.	SW	10	sm-cum. / cum.	...	10	str-cum.	...	8.7
„ 20,...	3	c-cum. / cum.	WSW	3	c-cum. / cum.	SW	1	c-cum. / cum.	...	1	cum.	...	3.9
„ 21,...	7	c-cum. / cum.	SSW	8	c-cum. / cum.	W / SSW	7	cum.	SSW	1	cum.	...	4.9
„ 22,...	4	c-cum. / cum.	SW	9	c-cum. / cum.	SW	10	str. / cum.	WSW	10	str-cum.	...	6.6
„ 23,...	10	cum-nim.	SW	10	nim.	...	10	cum.	...	7	str-cum.	...	9.4
„ 24,...	10	cum. / nim.	SSE	7	c-cum. / cum.	...	9	c-cum. / cum.	...	1	cum.	...	7.7
„ 25,...	9	c-cum. / cum. / nim.	.. / S / ESE	9	c-cum. / cum.	S	3	c-cum. / cum.	S	1	cum.	...	6.0
„ 26,...	3	c-cum. / cum.	...	2	cum.	...	0	...	...	0	...	...	1.2
„ 27,...	1	cum.	...	1	c-cum. / cum.	...	0	...	...	0	...	...	0.6
„ 28,...	6	c-cum. / cum.	E / ..	8	c-cum / sm-cum.	...	7	c-cum.	...	2	c-cum.	...	3.9
„ 29,...	10	c-cum. / cum.	ESE	8	c-cum. / cum.	...	8	c-cum. / cum.	ESE	5	str-cum.	...	5.9
„ 30,...	7	sm-cum. / cum.	SSW	7	c-cum. / cum.	SSW	5	c-str.	...	0	...	...	5.5
„ 31,...	2	cum.	SSE	9	c-cum. / str. / cum.	S	10	str-cum.	...	0	...	...	3.6
Means,...	7.2	...	...	7.7	...	...	7.5	...	...	5.9	...	...	7.1

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF AUGUST, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	0.7	3.2	3.3	1.8	− 2.6	+ 1.4	S 28° E
2 „	0.5	3.6	4.1	2.2	3.6	1.4	S 20° E
3 „	0.6	3.4	3.5	2.0	2.9	1.4	S 25° E
4 „	0.7	4.1	3.8	2.4	3.1	1.7	S 28° E
5 „	0.6	4.1	4.2	2.1	3.6	2.0	S 30° E
6 „	0.8	3.6	3.7	2.3	2.9	1.3	S 25° E
7 „	1.0	4.0	3.1	1.7	2.1	2.3	S 48° E
8 „	0.6	3.5	2.8	2.0	2.2	1.5	S 35° E
9 „	1.5	4.5	2.5	2.0	1.0	2.5	S 68° E
10 „	0.8	4.5	2.8	3.2	2.0	1.3	S 33° E
11 „	1.6	5.4	3.6	3.8	2.0	1.6	S 39° E
Noon.	1.1	5.5	5.3	3.4	4.2	2.1	S 26° E
1 p.	1.0	5.8	3.8	4.2	2.8	1.6	S 30° E
2 „	0.5	5.4	4.7	3.8	4.2	1.6	S 20° E
3 „	0.5	5.4	4.7	3.3	4.2	2.1	S 27° E
4 „	0.3	4.7	5.5	3.3	5.2	1.4	S 16° E
5 „	0.4	4.5	5.1	2.6	4.7	1.9	S 22° E
6 „	1.1	4.9	3.1	2.2	2.0	2.7	S 52° E
7 „	0.6	4.4	3.2	1.7	2.6	2.7	S 47° E
8 „	0.5	4.1	3.6	1.2	3.1	2.9	S 43° E
9 „	0.5	4.2	2.9	1.1	2.4	3.1	S 52° E
10 „	0.6	3.7	2.6	1.3	2.0	2.4	S 50° E
11 „	0.6	4.0	3.1	1.5	2.5	2.5	S 45° E
Midt.	0.8	3.8	3.2	1.4	− 2.4	+ 2.4	S 47° E
Means, ...	0.7	4.3	3.7	2.4	− 2.93	+ 1.99	S 34° E

PHENOMENA :—

Solar halo :—on the 6th, 7th, 8th, 12th, 28th and 29th.

Lunar halo :—on the 8th, 18th, 19th, and 25th.

Lunar corona :—on the 13th.

Fog :—on the 7th, 20th and 26th.

Slight fog :—on the 18th and 19th.

Haze :—on the 8th, 9th, 21st, 27th, 28th, 29th and 30th.

Unusual Visibility :—on the 7th, 22nd, 29th, 30th and 31st.

Dew :—on the 8th, 9th, 19th, 21st, 25th, 26th, 27th, 28th, 29th, 30th and 31st.

Rainbow :—on the 3rd, 5th, 8th, 13th, 22nd and 24th.

Lightning without thunder :—on the 7th, 13th, 17th, 18th, 21st, 22nd, 23rd, 25th and 29th.

Thunder without lightning :—on the 13th, 19th, 22nd and 23rd.

Thunder and lightning :—on the 3rd.

Thunderstorms :—on the 1st, 5.10 a.,—2 p., SW–NE, nearest at 9.33 a. (11^s). On the 1st 10 p.—2nd 2.45 a., SW–NE, nearest at 10.18 p. (8^s). On the 2nd, 6.30 a.—10 a., SW–NE, nearest at 6.42 a. (9^s). On the 8th, 4.15 p.—7.30 p., NE–SW, nearest at 6.49 p. (15^s). On the 10th, 8 p.—11th 4 a., distant in NE. On the 12th, 3 a.—8.15 a., NE–SW, nearest at 7.5 a. ($\frac{1}{2}^s$). On the 12th, 1.10 p.—2 p., distant in E. On the 30th, 8.25 a.—10.30 a., in N, nearest at 9.15 a. (3^s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF SEPTEMBER, 1897.

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,...	29.778	29.777	29.775	29.772	29.779	29.788	29.801	29.820	29.825	29.832	29.831	29.815	29.786	29.767	29.744	29.738	29.737	29.748	29.753	29.773	29.790	29.801	29.791	29.792	29.784
„ 2,...	.786	.776	.772	.764	.760	.771	.785	.786	.789	.791	.782	.764	.739	.717	.699	.686	.690	.686	.696	.714	.726	.731	.733	.729	.745
„ 3,...	.725	.705	.700	.695	.699	.708	.722	.732	.737	.735	.731	.713	.684	.670	.650	.637	.631	.645	.656	.676	.686	.696	.705	.701	.693
„ 4,...	.691	.686	.678	.672	.674	.678	.690	.702	.721	.733	.724	.715	.694	.673	.653	.657	.651	.665	.683	.701	.726	.736	.731	.727	.694
„ 5,...	.722	.723	.718	.711	.724	.735	.747	.754	.756	.746	.743	.735	.729	.713	.701	.693	.696	.704	.710	.742	.770	.772	.766	.761	.732
„ 6,...	.745	.730	.717	.716	.728	.732	.742	.749	.760	.761	.747	.736	.711	.687	.669	.658	.663	.673	.682	.689	.713	.721	.715	.707	.715
„ 7,...	.700	.689	.677	.670	.671	.673	.685	.696	.700	.702	.694	.670	.640	.623	.603	.602	.605	.626	.635	.659	.679	.689	.682	.686	.665
„ 8,...	.674	.662	.646	.650	.661	.670	.685	.697	.707	.719	.702	.686	.659	.642	.636	.631	.642	.658	.674	.700	.712	.718	.731	.735	.679
„ 9,...	.727	.716	.707	.706	.709	.715	.745	.772	.784	.786	.778	.764	.757	.742	.748	.739	.746	.745	.757	.773	.796	.806	.809	.798	.755
„ 10,...	.785	.779	.777	.774	.776	.787	.797	.812	.821	.826	.822	.817	.796	.779	.764	.763	.775	.783	.812	.832	.843	.842	.841	.819	.801
„ 11,...	.808	.797	.790	.797	.804	.811	.833	.846	.847	.846	.854	.830	.807	.777	.767	.757	.752	.762	.777	.786	.805	.809	.816	.804	.803
„ 12,...	.781	.777	.765	.748	.754	.757	.776	.786	.804	.787	.793	.789	.767	.740	.724	.706	.708	.729	.750	.765	.783	.791	.798	.789	.765
„ 13,...	.768	.762	.756	.743	.735	.743	.766	.786	.795	.785	.788	.768	.752	.731	.703	.715	.718	.727	.745	.762	.772	.778	.770	.751	.755
„ 14,...	.739	.734	.730	.720	.724	.731	.719	.741	.766	.776	.759	.752	.730	.713	.704	.700	.717	.716	.713	.707	.693	.723	.726	.712	.727
„ 15,...	.682	.679	.671	.674	.680	.692	.713	.731	.745	.746	.752	.734	.701	.677	.670	.655	.671	.687	.690	.704	.708	.702	.696	.694	.698
„ 16,...	.688	.684	.677	.690	.701	.712	.722	.722	.719	.707	.683	.677	.659	.645	.626	.635	.648	.657	.664	.682	.703	.708	.702	.685	.683
„ 17,...	.679	.661	.659	.658	.657	.658	.674	.690	.705	.710	.693	.691	.654	.636	.609	.614	.616	.659	.665	.696	.699	.733	.748	.737	.675
„ 18,...	.749	.746	.747	.745	.760	.786	.809	.835	.840	.844	.857	.843	.817	.809	.808	.805	.815	.824	.843	.866	.870	.880	.879	.871	.819
„ 19,...	.851	.841	.826	.825	.834	.847	.862	.869	.879	.887	.877	.866	.829	.799	.789	.787	.792	.808	.828	.849	.861	.863	.857	.855	.841
„ 20,...	.844	.839	.824	.823	.829	.839	.851	.865	.878	.884	.876	.850	.819	.809	.786	.779	.779	.794	.808	.828	.851	.849	.848	.833	.833
„ 21,...	.809	.814	.805	.804	.815	.830	.856	.873	.894	.898	.898	.868	.842	.829	.821	.817	.808	.819	.839	.859	.873	.878	.878	.870	.846
„ 22,...	.857	.842	.830	.834	.845	.852	.862	.874	.889	.895	.893	.878	.861	.843	.835	.824	.822	.824	.843	.866	.882	.886	.883	.874	.858
„ 23,...	.860	.852	.840	.843	.849	.858	.880	.905	.922	.924	.905	.882	.855	.835	.819	.812	.810	.816	.828	.847	.865	.875	.877	.871	.860
„ 24,...	.863	.854	.845	.844	.852	.871	.886	.900	.908	.907	.893	.864	.841	.818	.802	.794	.790	.795	.815	.837	.853	.858	.850	.852	.850
„ 25,...	.836	.819	.831	.830	.831	.846	.860	.875	.884	.882	.882	.859	.833	.816	.797	.792	.793	.814	.839	.853	.859	.860	.852	.848	.841
„ 26,...	.824	.813	.798	.797	.804	.813	.828	.849	.857	.866	.848	.824	.795	.766	.745	.733	.729	.726	.725	.738	.754	.759	.755	.747	.787
„ 27,...	.732	.723	.718	.712	.716	.724	.744	.754	.768	.763	.745	.717	.686	.660	.644	.643	.641	.652	.663	.694	.703	.707	.707	.704	.705
„ 28,...	.682	.670	.666	.666	.690	.704	.712	.727	.728	.712	.693	.659	.638	.602	.578	.577	.585	.597	.623	.644	.661	.669	.663	.661	.659
„ 29,...	.658	.644	.640	.641	.646	.663	.685	.705	.715	.712	.700	.670	.651	.635	.625	.622	.629	.646	.669	.699	.725	.735	.739	.738	.675
„ 30,...	.731	.728	.738	.732	.740	.752	.774	.791	.796	.803	.796	.780	.761	.738	.732	.738	.749	.759	.769	.792	.803	.809	.815	.809	.768
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.759	29.751	29.744	29.742	29.748	29.758	29.774	29.788	29.798	29.799	29.791	29.774	29.750	29.730	29.715	29.710	29.714	29.725	29.738	29.758	29.772	29.779	29.779	29.772	29.757

TABLE II.

TEMPERATURE FOR THE MONTH OF SEPTEMBER, 1897.

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,	76.8	76.5	77.7	77.6	77.1	77.6	79.8	81.9	84.5	83.6	83.8	85.2	86.6	85.6	86.9	85.5	84.2	83.1	81.6	81.4	81.0	79.6	79.5	79.7	81.5	87.1	76.5
„ 2,	80.0	79.4	79.4	79.3	79.6	78.8	81.5	83.5	84.8	83.7	85.9	85.8	86.3	86.8	86.5	85.8	84.5	82.8	82.0	82.1	81.8	81.5	81.3	81.2	82.7	87.2	78.8
„ 3,	81.6	81.1	80.8	80.7	81.0	80.9	82.2	82.6	83.8	84.7	85.8	87.0	86.3	87.6	85.7	85.1	83.0	82.8	82.5	81.8	81.8	81.5	81.0	81.1	83.0	87.9	80.6
„ 4,	81.5	80.9	81.3	81.2	81.0	81.1	82.7	84.2	83.6	86.4	87.1	86.7	88.6	87.5	87.4	86.4	84.8	83.0	82.2	82.1	82.0	82.1	81.2	81.0	83.6	89.5	80.9
„ 5,	81.1	80.0	79.9	79.5	79.1	79.1	80.9	82.4	84.5	85.1	86.5	88.5	83.5	88.7	87.6	86.8	85.2	83.8	82.6	82.4	81.6	81.6	81.2	80.9	83.3	89.1	78.5
„ 6,	80.7	80.0	79.2	79.1	78.9	78.8	80.8	82.5	83.5	84.4	85.2	86.5	86.8	88.3	87.8	87.4	85.7	83.6	82.3	82.3	82.2	81.5	81.3	81.6	82.9	89.2	78.8
„ 7,	81.2	80.6	80.5	80.1	79.8	79.1	81.7	81.8	84.3	85.6	85.9	87.2	88.3	89.0	89.1	87.6	84.8	83.8	83.5	82.5	82.5	81.9	80.8	80.8	83.4	90.8	78.4
„ 8,	80.4	80.3	80.2	80.0	79.2	79.9	81.3	83.3	84.6	86.1	85.0	86.6	88.6	87.1	86.1	86.0	83.9	83.2	82.6	81.5	81.3	81.2	81.1	80.6	82.9	88.6	79.2
„ 9,	80.2	80.0	79.9	79.5	79.4	80.2	80.8	81.9	83.5	84.5	84.5	85.0	85.2	82.2	79.9	80.6	80.1	78.9	79.2	78.8	79.5	79.0	79.0	78.9	80.9	85.4	78.5
„ 10,	78.9	79.3	79.2	79.0	78.4	78.7	79.6	81.8	82.7	82.0	82.8	83.8	79.8	82.6	83.0	82.8	82.6	79.0	79.0	78.8	77.7	77.6	77.6	77.6	80.2	85.7	77.6
„ 11,	77.7	77.1	76.8	77.6	77.3	77.5	80.4	81.8	82.9	83.8	84.9	84.2	87.1	84.7	85.2	83.6	82.1	82.7	81.4	81.4	81.6	80.8	80.8	80.4	81.4	83.7	76.6
„ 12,	78.9	79.6	79.9	79.9	78.9	78.6	79.0	79.7	80.9	83.2	83.0	83.6	83.5	84.2	83.5	83.5	82.5	82.1	82.3	81.8	81.9	81.0	81.1	81.0	81.4	85.2	78.5
„ 13,	79.7	81.6	80.8	80.7	79.2	79.0	80.0	80.1	78.4	80.8	83.0	79.0	78.8	77.8	77.9	78.1	78.7	77.8	76.8	77.5	78.3	78.3	78.9	79.3	79.2	83.9	76.1
„ 14,	79.7	77.6	77.0	76.2	76.4	75.4	75.3	78.1	79.3	78.8	78.8	80.1	80.8	80.4	81.6	80.4	79.0	78.0	79.2	78.5	77.8	77.1	75.9	75.8	78.3	81.6	75.0
„ 15,	75.4	75.0	75.1	74.8	74.3	74.6	76.4	77.8	77.8	76.2	76.4	77.1	80.2	80.4	79.8	79.8	79.8	78.8	78.8	78.4	78.5	78.1	77.6	77.6	77.4	81.2	73.9
„ 16,	77.0	76.5	76.4	75.8	75.7	75.8	77.0	77.6	77.9	80.8	81.7	83.4	83.6	84.5	84.5	83.3	81.6	80.9	80.5	78.0	77.5	76.6	75.2	76.0	79.1	85.4	74.9
„ 17,	76.8	77.7	76.5	75.6	75.2	72.3	73.4	74.1	77.2	74.6	76.5	75.6	77.8	78.1	78.7	78.8	78.7	77.0	76.6	76.9	76.2	75.5	76.2	77.7	76.4	79.2	72.3
„ 18,	77.3	75.8	77.2	77.3	78.0	77.8	75.9	76.0	76.5	78.6	79.2	79.6	79.5	78.6	77.9	78.2	77.8	77.7	78.5	77.8	77.5	78.3	78.2	78.4	77.8	80.7	75.8
„ 19,	78.1	78.0	78.1	77.8	78.0	78.2	78.3	78.7	79.3	79.5	80.2	80.3	82.0	81.6	81.8	80.6	80.7	80.0	79.5	79.4	79.4	79.5	79.4	79.2	79.5	82.8	77.8
„ 20,	78.6	78.6	78.3	78.5	78.6	78.4	80.0	81.3	82.8	82.6	83.2	82.8	82.8	82.2	82.6	82.3	81.6	80.8	80.1	79.9	79.8	80.0	79.4	79.1	80.6	84.1	77.8
„ 21,	78.6	79.0	79.0	78.9	78.6	78.9	79.9	81.7	82.6	83.6	83.6	84.0	85.0	85.4	84.1	83.0	82.1	80.8	80.6	80.6	80.5	80.0	79.9	79.7	81.3	85.4	78.3
„ 22,	80.1	79.9	79.8	79.9	80.0	79.6	81.6	81.9	83.8	83.7	83.8	83.6	84.0	84.6	84.0	82.9	82.5	80.7	81.0	80.5	80.5	80.5	80.3	79.9	81.6	85.3	79.6
„ 23,	80.2	80.0	79.7	79.6	79.8	79.9	81.0	82.7	83.7	85.0	85.8	86.1	86.5	86.0	85.0	84.6	83.5	81.9	81.3	80.9	81.0	80.9	80.5	80.0	82.3	87.9	79.6
„ 24,	79.4	78.0	78.4	79.0	78.7	78.9	81.9	83.0	83.8	86.8	88.3	85.8	87.1	86.8	87.8	86.4	85.1	82.8	82.3	81.5	80.8	80.5	80.4	80.4	82.7	88.7	78.0
„ 25,	80.3	80.5	80.3	80.1	80.0	80.0	80.8	82.6	83.5	84.2	84.6	85.6	86.2	83.8	84.4	83.1	81.8	81.6	81.3	80.8	80.7	78.0	79.6	78.6	81.8	86.2	77.8
„ 26,	79.2	79.1	79.2	78.8	79.0	78.4	79.8	81.0	83.0	82.8	83.0	84.6	84.5	84.8	85.3	84.8	82.8	81.1	79.5	79.4	79.4	79.2	79.0	78.8	81.1	86.6	78.3
„ 27,	78.8	78.4	78.1	77.9	78.2	77.7	80.0	81.7	82.5	83.1	84.3	86.7	86.2	85.8	84.5	84.8	83.1	82.2	81.9	81.4	81.2	80.9	80.6	80.3	81.7	87.6	77.7
„ 28,	78.9	79.4	79.3	78.6	78.9	79.1	80.1	81.3	82.8	85.2	86.5	86.4	86.5	87.1	87.4	87.8	86.5	84.3	83.5	82.5	82.3	81.3	80.0	80.5	82.8	88.6	77.8
„ 29,	79.5	78.6	79.5	78.7	77.7	79.5	81.4	84.2	86.1	88.1	88.1	90.4	90.8	91.6	87.3	86.0	87.2	85.6	84.7	83.1	82.2	81.2	80.8	81.3	83.9	91.8	77.4
„ 30,	81.4	81.0	80.7	80.6	80.0	79.8	81.0	80.2	81.5	85.0	85.0	85.2	84.6	84.6	84.0	83.0	81.5	81.4	81.2	80.7	77.5	77.7	77.2	77.1	81.3	85.9	76.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	79.3	79.0	78.9	78.7	78.5	78.5	79.8	81.0	82.2	83.1	83.7	84.2	84.7	84.6	84.2	83.6	82.6	81.4	81.0	80.5	80.2	79.8	79.5	79.5	81.2	86.2	77.6

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF SEPTEMBER, 1897.

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, ...	75.5	75.6	75.8	75.7	76.0	76.0	77.8	77.9	77.6	78.1	77.8	77.8	78.6	77.7	79.8	79.6	77.4	77.5	77.6	77.6	77.5	77.6	78.1	77.9	77.4	143.6
„ 2, ...	77.9	77.6	77.0	76.9	76.6	77.6	78.0	78.2	78.1	77.4	78.0	77.4	78.7	78.6	78.0	78.7	77.9	77.4	76.8	76.8	77.7	77.7	77.6	77.4	77.7	143.7
„ 3, ...	78.1	77.9	78.0	77.9	77.7	77.8	77.0	77.5	77.2	77.9	78.0	78.8	78.7	79.4	78.6	77.9	77.5	77.7	77.9	77.9	77.8	78.6	78.2	77.9	78.0	140.0
„ 4, ...	78.1	77.8	77.6	77.6	77.6	77.7	77.4	78.2	78.4	79.2	78.6	78.9	79.3	78.6	79.7	77.1	77.3	77.2	77.5	77.7	78.1	76.8	77.3	77.1	77.9	142.3
„ 5, ...	77.0	76.9	77.0	76.7	76.0	77.2	77.9	78.2	78.2	77.7	78.6	79.3	79.9	79.3	78.7	76.6	77.1	77.9	77.8	77.7	77.8	77.6	77.4	77.6	77.8	142.3
„ 6, ...	77.3	77.6	77.2	76.9	77.0	76.2	76.6	78.0	77.6	78.2	79.0	78.0	78.1	78.5	77.7	77.1	77.6	77.3	77.2	77.2	77.3	77.9	78.2	77.1	77.5	142.5
„ 7, ...	77.3	77.4	77.7	77.9	77.5	77.2	77.8	77.9	78.4	78.7	78.9	79.0	79.5	79.5	79.0	79.3	78.5	78.1	78.2	78.0	78.1	78.1	78.2	78.0	78.3	141.5
„ 8, ...	78.2	78.3	78.1	77.8	77.9	78.2	78.6	78.2	78.0	79.6	79.2	77.8	79.6	78.7	78.6	78.1	77.7	77.1	77.5	78.1	77.8	77.3	77.6	78.0	78.2	149.4
„ 9, ...	78.1	78.1	78.2	77.8	77.8	77.2	77.5	77.1	77.6	77.9	78.5	78.9	79.0	78.2	76.9	77.6	76.3	76.6	76.9	76.5	75.8	76.2	76.6	77.0	77.4	150.9
„ 10, ...	77.3	77.6	77.4	76.7	75.9	76.4	77.1	78.4	78.6	78.1	78.5	78.9	76.8	78.0	78.0	78.6	78.5	75.8	76.1	75.9	75.6	75.5	76.2	76.1	77.2	150.0
„ 11, ...	76.0	75.9	76.0	76.1	75.9	76.0	76.8	76.9	77.1	78.9	78.4	78.7	79.5	78.7	79.6	78.8	78.0	77.9	78.3	78.4	78.5	78.1	78.0	77.5	77.7	153.5
„ 12, ...	77.9	77.7	77.9	77.8	77.6	76.9	76.2	76.0	76.8	76.7	77.2	77.6	77.5	77.1	76.6	75.9	76.3	76.7	77.2	77.7	77.6	77.3	77.6	77.9	77.2	148.6
„ 13, ...	77.1	77.0	76.6	76.8	74.8	75.2	75.3	75.0	75.5	76.8	76.3	75.9	75.9	75.7	74.7	75.1	74.9	75.9	75.4	74.9	74.7	75.2	74.8	74.6	75.6	147.6
„ 14, ...	74.6	75.0	75.6	74.9	74.2	73.4	72.9	72.7	72.9	72.6	74.0	73.6	72.8	72.6	72.7	73.2	72.4	71.5	70.0	69.2	68.8	68.9	68.3	68.1	72.3	116.6
„ 15, ...	68.1	67.7	67.9	68.0	67.7	67.6	68.9	69.5	69.4	68.4	69.3	71.0	71.5	74.0	70.8	71.1	71.0	70.6	70.0	70.4	69.6	68.9	68.6	68.6	69.5	140.4
„ 16, ...	68.4	68.1	67.6	66.6	66.1	65.6	65.9	66.0	66.1	68.9	68.7	70.6	70.7	71.2	71.6	72.9	70.0	74.5	74.9	75.3	74.9	72.7	72.9	72.8	70.1	138.8
„ 17, ...	71.2	70.5	70.6	69.5	69.7	69.5	69.3	69.8	70.8	70.5	71.3	71.5	71.8	73.1	72.4	73.2	73.5	73.6	73.8	74.0	73.9	74.6	74.6	75.1	72.0	145.2
„ 18, ...	74.9	74.6	75.1	75.0	75.6	75.8	75.6	75.9	76.0	76.6	76.6	76.9	76.9	76.4	76.5	76.5	76.2	76.0	76.2	76.3	76.1	76.5	76.2	76.5	76.0	104.8
„ 19, ...	76.1	76.2	76.4	75.8	75.9	75.8	75.7	75.6	75.3	75.0	75.1	75.0	75.0	74.8	75.9	74.9	75.0	75.2	74.8	76.2	76.3	76.4	76.6	76.6	75.7	137.9
„ 20, ...	75.9	75.6	75.6	75.5	75.2	75.3	76.1	76.8	76.9	75.9	76.7	75.8	75.7	75.9	76.1	76.4	76.9	76.3	76.5	76.7	77.1	77.5	77.3	77.0	76.3	136.3
„ 21, ...	76.9	77.1	76.9	77.1	75.9	76.0	76.9	76.7	77.7	76.7	76.9	77.6	77.7	77.8	77.9	77.2	77.4	77.8	78.1	78.2	78.0	77.7	77.8	77.8	77.3	139.2
„ 22, ...	78.2	77.7	77.6	77.6	77.4	77.3	78.1	77.7	78.7	77.8	78.6	78.1	78.3	78.2	78.0	77.9	78.0	78.0	77.8	78.0	78.2	78.6	78.1	78.2	78.0	144.3
„ 23, ...	77.9	78.0	77.8	77.7	77.6	77.7	77.9	78.0	78.0	77.9	77.9	77.2	77.2	76.5	76.5	76.7	76.8	76.1	76.3	76.9	76.8	77.5	77.6	77.2	77.3	141.0
„ 24, ...	77.6	76.6	76.6	76.3	76.6	76.7	76.0	75.4	75.7	75.5	77.7	77.5	78.9	78.1	79.7	79.2	78.1	77.3	76.9	76.9	77.4	77.1	77.2	76.8	77.2	150.7
„ 25, ...	77.3	77.6	77.5	77.2	76.9	76.9	77.7	76.9	76.3	76.0	76.6	76.4	76.9	77.0	77.1	76.3	76.5	76.3	76.6	76.7	76.3	75.9	76.4	76.0	76.7	146.5
„ 26, ...	74.8	75.1	74.9	74.8	74.8	74.7	75.1	75.9	76.4	74.9	75.6	76.6	74.6	76.2	76.9	76.6	76.5	75.2	75.5	75.0	75.2	76.4	76.6	76.7	75.6	147.4
„ 27, ...	76.3	76.1	76.0	76.4	76.7	75.9	74.9	75.1	76.6	75.9	75.5	77.6	77.1	77.6	77.0	77.2	76.0	76.9	76.6	76.6	75.9	75.7	75.3	75.6	76.3	141.5
„ 28, ...	75.1	74.6	74.8	74.6	74.8	75.8	76.0	76.0	76.8	76.1	76.5	76.9	77.2	76.2	76.2	75.9	75.2	77.0	77.4	76.9	77.1	76.4	75.9	76.8	76.1	138.8
„ 29, ...	77.0	76.7	77.0	76.9	76.1	75.2	76.2	75.9	73.2	72.9	72.9	73.4	76.8	77.4	77.0	76.9	74.4	74.4	75.7	78.1	77.6	76.7	76.6	77.2	75.9	144.9
„ 30, ...	77.6	77.6	77.5	73.4	72.5	72.7	73.8	73.4	72.6	75.1	74.3	74.1	73.9	74.9	74.4	75.2	75.0	74.9	74.8	75.4	75.2	75.0	75.1	74.9	74.7	143.7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	76.1	76.0	76.0	75.7	75.4	75.4	75.7	75.8	75.9	76.1	76.4	76.6	76.8	76.9	76.8	76.6	76.1	76.2	76.2	76.4	76.3	76.2	76.2	76.2	76.2	141.8

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF SEPTEMBER, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	86	0.861	Sept. 1,.....	83	0.886
2 „	87	.860	„ 2,.....	79	.884
3 „	87	.861	„ 3,.....	79	.893
4 „	87	.851	„ 4,.....	76	.880
5 „	86	.841	„ 5,.....	77	.880
6 „	86	.841	„ 6,.....	77	.872
7 „	82	.837	„ 7,.....	79	.901
8 „	78	.825	„ 8,.....	80	.903
9 „	74	.813	„ 9,.....	85	.894
10 „	71	.810	„ 10,.....	87	.895
11 „	70	.816	„ 11,.....	84	.901
Noon.	70	.818	„ 12,.....	82	.878
1 p.	68	.818	„ 13,.....	84	.839
2 „	69	.824	„ 14,.....	74	.714
3 „	70	.825	„ 15,.....	65	.617
4 „	72	.824	„ 16,.....	61	.616
5 „	73	.816	„ 17,.....	79	.727
6 „	78	.837	„ 18,.....	92	.875
7 „	79	.843	„ 19,.....	84	.839
8 „	82	.858	„ 20,.....	81	.850
9 „	82	.857	„ 21,.....	83	.884
10 „	85	.859	„ 22,.....	85	.912
11 „	86	.863	„ 23,.....	79	.871
Midt.	86	.862	„ 24,.....	77	.861
			„ 25,.....	79	.852
			„ 26,.....	77	.813
			„ 27,.....	77	.835
			„ 28,.....	72	.811
			„ 29,.....	68	.788
			„ 30,.....	73	.772
			.....	...	...
Means,.....	79	0.858	Means.	79	0.838

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.
1897.														
Sept. 1,.....	0.1	1.0	0.9	1.0	0.6	0.9	1.0	1.0	1.0	0.9	0.9	1.0	0.2	10.5
„ 2,.....	...	1.0	1.0	1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.7
„ 3,.....	...	0.4	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.0
„ 4,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.7
„ 5,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	11.1
„ 6, ...	0.1	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.5
„ 7,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	...	9.0
„ 8,.....	...	1.0	1.0	1.0	0.8	0.8	1.0	1.0	0.6	0.5	0.2	...	...	7.9
„ 9,.....	...	...	...	0.2	1.0	1.0	1.0	1.0	0.8	...	...	...	...	5.0
„ 10,.....	...	...	0.9	0.9	1.0	1.0	0.9	0.2	0.5	0.7	0.2	0.3	...	6.6
„ 11,.....	...	0.7	1.0	1.0	0.9	0.6	0.5	1.0	0.8	0.6	0.3	...	...	7.4
„ 12,.....	...	0.5	0.4	...	1.0	0.8	1.0	0.8	0.9	0.9	0.9	0.8	0.2	8.2
„ 13,.....	...	...	...	...	...	0.8	0.1	...	...	...	...	...	...	0.9
„ 14,.....	...	...	...	...	...	...	...	...	...	0.1	0.1	...	...	0.2
„ 15,.....	...	0.5	1.0	0.6	...	...	...	0.3	...	...	...	0.1	...	2.5
„ 16,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	...	9.5
„ 17,.....	...	...	...	0.1	...	...	...	...	...	...	..	...	...	0.1
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	0.1	...	...	0.1	0.5	1.0	1.0	1.0	0.8	0.8	...	5.3
„ 20,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.0
„ 21,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	10.6
„ 22,.....	...	0.6	0.9	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0	1.0	...	10.3
„ 23,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	0.1	10.8
„ 24,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	10.9
„ 25,.....	...	...	0.3	0.3	0.3	0.7	1.0	1.0	1.0	0.7	0.6	...	...	5.9
„ 26,.....	...	0.7	1.0	0.9	0.5	0.8	0.9	0.9	1.0	1.0	1.0	0.9	...	9.6
„ 27,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.0
„ 28,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	10.7
„ 29,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	...	10.6
„ 30,.....	...	0.2	0.2	0.6	0.9	0.6	0.5	...	...	...	...	...	...	3.0
.....		...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	0.2	16.3	21.3	21.3	21.8	23.0	23.3	23.2	22.5	21.3	18.7	15.7	0.9	229.5

TABLE VI.

RAINFALL FOR THE MONTH OF SEPTEMBER, 1897.

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.
Sept. 1,	...	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	...
" 2,	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	0.050	0.530	...	...	...	...	...	...	...	...	...	0.580	1
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12,	...	...	..	...	0.040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.040	1
" 13,	...	...	...	...	...	...	...	0.090	0.095	0.005	...	0.010	0.075	0.085	0.005	...	0.025	0.490	0.120	0.010	0.005	0.005	...	...	1.020	10
" 14,	0.025	0.070	0.100	0.135	0.055	0.210	0.010	0.005	0.005	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.640	7
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	0.025	...	...	...	...	0.070	1
" 17,	...	...	...	...	0.050	0.030	...	...	...	0.035	...	0.010	...	0.015	...	...	...	0.025	0.085	0.075	0.170	0.290	0.280	0.670	1.735	13
" 18,	...	0.180	...	...	...	0.480	1.720	0.600	0.580	0.025	...	...	...	0.025	0.025	0.060	0.025	...	...	0.115	0.170	...	...	...	4.005	11
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	0.125	0.015	0.010	0.175	3
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	...	...	0.030	0.050	1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Sums,	0.025	0.250	0.120	0.135	0.145	0.720	1.730	0.695	0.685	0.090	...	0.020	0.075	0.175	0.560	0.060	0.050	0.515	0.250	0.225	0.390	0.420	0.295	0.710	8.340	48

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF SEPTEMBER, 1897.

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.	6	5	6	5	6	3	6	5	6	5	6	7	6	3	6	3	15	7	16	2	16	9	17	7	18	7	17	7	21	6	20	7	20	7	19	6	19	8	19	2	...	0	19	2	...	1	...	0	114	4.7	15
" 2.	...	0	...	0	...	1	...	1	19	2	19	2	19	2	19	6	18	8	20	9	19	16	19	14	20	17	19	14	19	14	19	11	19	9	19	8	19	4	19	5	19	6	18	3	18	6	19	5	163	6.8	19
" 3.	19	3	19	3	18	6	18	7	18	9	18	8	18	5	19	10	19	11	20	11	19	16	19	14	18	12	19	13	19	10	17	11	20	10	19	8	19	5	19	3	19	2	19	2	19	2	19	3	184	7.7	19
" 4.	19	5	20	5	20	4	20	4	20	6	20	5	19	6	19	8	20	7	20	11	20	10	22	9	22	9	18	8	20	7	17	11	18	10	19	7	19	5	17	6	...	1	...	1	17	3	17	4	152	6.3	19
" 5.	...	1	...	1	18	3	18	5	24	3	...	0	...	1	25	5	25	5	23	7	24	10	22	9	23	11	23	10	19	11	20	9	19	9	18	7	18	5	18	3	...	0	18	3	18	5	21	7	130	5.4	21
" 6.	22	3	...	1	...	0	22	3	26	8	26	5	26	4	26	6	25	11	26	11	23	14	24	10	22	9	23	8	21	9	22	6	22	6	19	4	19	2	18	5	17	4	17	2	...	1	20	8	140	5.8	23
" 7.	21	7	21	6	22	7	24	5	24	4	24	3	24	4	26	7	24	7	23	8	24	8	24	12	22	9	22	10	19	8	18	7	18	6	18	3	18	2	17	4	17	2	...	0	...	1	...	0	130	5.4	22
" 8.	...	1	...	0	...	0	...	0	21	2	21	2	21	3	21	2	26	8	23	5	23	5	25	10	24	6	18	6	17	12	17	10	16	6	16	3	...	1	12	4	10	11	9	6	9	8	9	7	118	4.9	17
" 9.	9	7	9	5	9	6	9	8	9	9	9*	10	8	11	7	13	7	13	8	15	8	18	9	17	9	19	10	22	15	11	4	6	8	11	8	11	8	12	9	7	9	8	9	4	9	5	9	2	250	10.4	9
" 10.	...	1	9	2	9	7	9	10	7	9	8	10	7	7	6	13	7	12	8	13	8	16	8	15	8	15	7	14	9	19	8	17	14	11	15	9	15	6	28	4	28	3	23	2	22	2	22	2	219	9.1	8
" 11.	...	1	...	1	22	4	22	2	22	3	...	1	...	0	22	3	26	7	26	9	23	8	23	7	24	11	24	13	24	11	23	9	20	8	20	5	20	4	22	2	18	3	...	1	16	2	...	1	116	4.8	23
" 12.	13	4	13	4	5	4	9	6	6	8	9	13	8	7	6	12	6	17	6	22	8	25	8	14	7	20	10	21	9	20	9	17	10	13	7	12	8	18	8	16	7	13	10	8	10	7	8	10	311	13.0	8
" 13.	6	11	5	12	5	10	5	6	5	5	1	9	2	7	2	10	3	6	3	5	5	19	7	17	9	13	8	14	7	17	5	12	4	13	7	17	5	13	5	13	6	15	5	18	5	19	4	16	297	12.4	5
" 14.	4	10	4	4	4	2	3	3	3	4	3	7	2	4	2	8	1	14	1	8	26	4	1	13	1	13	32	16	1	14	1	11	1	11	32	6	32	10	1	24	1	27	2	15	1	15	32	16	259	10.8	1
" 15.	32	16	1	13	1	17	32	23	32	19	32	15	1	15	1	13	32	21	32	21	32	22	32	6	7	10	3	13	32	12	32	15	32	11	32	11	1	12	1	16	1	20	1	20	1	22	32	20	383	16.0	1
" 16.	1	18	32	14	1	16	32	21	32	22	32	20	32	24	32	24	32	21	32	18	32	21	1	12	32	16	32	17	32	15	9	14	9	17	7	17	7	19	6	13	6	17	9	22	6	20	6	16	434	18.1	2
" 17.	5	14	4	17	3	21	3	23	3	17	1	14	1	18	1	21	4	25	5	27	4	35	4	31	5	35	5	48	5	51	5	51	5	56	6	47	5	53	5	50	5	50	6	48	7	45	7	47	844	35.2	5
" 18.	6	43	6	43	7	37	7	33	7	34	7	28	8	27	8	23	7	28	8	34	8	28	7	29	6	29	7	27	6	27	6	29	6	28	6	29	7	31	7	29	7	32	6	29	7	32	6	32	741	30.9	7
" 19.	7	31	7	30	7	28	7	27	7	26	7	23	7	24	6	24	7	25	7	22	7	26	7	26	7	26	7	26	6	22	7	16	8	16	7	13	7	12	7	12	7	14	7	10	7	12	6	15	506	21.1	7
" 20.	6	12	6	9	6	6	6	9	7	13	6	10	6	9	8	10	9	13	9	14	10	18	9	19	9	18	10	18	10	17	10	15	10	13	9	9	9	10	9	8	9	8	9	7	9	6	9	2	273	11.4	9
" 21.	9	4	9	5	9	5	9	7	6	8	5	8	6	11	6	12	7	16	7	14	9	17	9	15	8	16	8	15	10	17	10	14	10	13	10	8	10	7	10	7	10	4	10	6	10	8	9	6	243	10.1	8
" 22.	9	11	8	13	7	13	6	10	6	11	6	11	6	12	7	15	7	16	7	16	9	16	9	14	9	17	9	13	9	16	9	14	10	16	10	13	9	11	9	14	9	13	9	11	9	9	8	10	315	13.1	8
" 23.	8	8	8	7	8	7	8	3	8	6	8	6	8	5	8	4	8	8	8	10	9	11	9	14	10	11	10	14	7	12	8	13	8	12	9	12	9	10	9	11	8	7	8	9	8	10	8	4	214	8.9	8
" 24.	8	2	8	2	8	2	9	4	10	2	...	0	...	0	10	2	10	2	10	2	10	4	23	7	24	9	24	9	24	7	25	5	25	4	25	4	18	2	...	0	...	1	...	1	26	3	26	12	86	3.6	24
" 25.	14	6	9	8	7	8	4	4	7	7	7	6	7	4	7	7	5	10	6	15	8	22	7	20	7	23	10	22	9	23	7	25	7	20	7	18	7	24	7	22	7	25	5	29	7	25	7	29	402	16.8	7
" 26.	7	30	7	29	7	25	7	23	7	21	6	12	4	9	5	5	7	7	7	14	8	13	10	9	10	11	9	7	23	7	23	7	24	4	24	4	24	5	24	3	...	1	...	1	...	0	...	1	248	10.3	7
" 27.	...	1	24	2	24	2	24	3	...	1	29	4	31	2	31	2	26	6	24	7	23	6	24	8	24	11	24	10	24	10	24	11	24	12	24	11	24	6	24	5	24	5	24	4	24	5	24	3	137	5.7	24
" 28.	24	3	24	4	24	7	23	2	23	6	25	3	25	2	25	4	25	6	22	8	22	11	24	16	23	14	26	16	28	14	27	13	27	11	25	9	25	5	...	1	25	3	...	1	26	4	26	2	165	6.9	25
" 29.	26	4	26	4	26	2	26	4	26	6	26	4	26	4	24	4	1	10	1	11	1	7	2	8	24	6	23	8	23	10	22	9	30	10	31	6	9	5	7	6	4	2	7	2	8	4	8	8	144	6.0	29
" 30.	7	8	7	7	7	2	3	7	1	11	5	11	6	4	32	15	1	14	4	15	7	12	6	9	1	9	5	5	6	7	7	10	10	13	9	8	8	7	8	12	7	18	7	22	8	18	7	17	261	10.9	6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	270	...	256	...	255	...	268	...	287	...	257	...	234	...	291	...	361	...	384	...	447	...	411	...	432	...	444	...	436	...	405	...	386	...	325	...	314	...	307	...	315	...	289	...	300	...	305	7979	332.5	...
Means,	...	9.0	...	8.5	...	8.5	...	8.9	...	9.6	...	8.6	...	7.8	...	9.7	...	12.0	...	12.8	...	14.9	...	13.7	...	14.4	...	14.8	...	14.5	...	13.5	...	12.9	...	10.8	...	10.5	...	10.2	...	10.5	...	9.6	...	10.0	...	10.2	266.0	11.1	...

TABLE VIII.

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
1897.												
Sept. 1, ...	0	...	...	0	...	...	2	cum.	SSW	5	c-cum. / cum.	SSW
„ 2, ...	1	cum.	...	0	...	...	2	c-cum. / cum.	SW	6	c-cum. / cum.	SSW
„ 3, ...	3	cum.	...	6	nim.	...	6	cum.	SW	9	c-cum. / cum.	SSW
„ 4, ...	8	cum.	...	7	cum.	...	2	c-cum. / cum.	SW	4	c-cum. / cum.	NE / SW
„ 5, ...	2	cum.	SW	1	cum.	...	2	c-cum. / cum.	...	6	c-str. / cum.	ENE / WSW
„ 6, ...	0	...	...	0	...	...	2	c-cum. / cum.	W	1	c-cum. / cum.	W
„ 7, ...	9	c-str. / cum.	W	1	cum.	...	5	c-cum. / cum.	WSW	6	c-str. / cum.	W
„ 8, ...	6	c-cum.	...	1	cum.	...	1	c-cum. / cum.	...	5	c-cum. / cum.	...
„ 9, ...	6	c-str. / cum.	ENE	8	c-str. / cum.	E	8	sm-cum. / cum.	E	8	sm-cum. / cum.	ESE / E
„ 10, ...	6	c-str. / cum.	ESE	9	c-str.	...	9	c-cum. / cum.	ESE	6	c-str. / sm-cum. / cum.	.. / ESE / SE
„ 11, ...	0	...	...	2	c-cum.	...	8	c-cum. / sm-cum. / cum.	S	8	c-cum. / cum.	SSW
„ 12, ...	9	c-cum. / cum.	...	10	cum-nim.	...	5	c-cum. / cum.	ENE / NNE	5	sm-cum. / cum.	NNE / E
„ 13, ...	9	c-cum. / cum.	E	5	c-cum. / cum.	E	10	nim.	NNE	9	c-str. / c-cum. / cum.	ENE
„ 14, ...	10	cum-nim.	E	10	nim.	...	10	nim.	...	10	str-cum.	E
„ 15, ...	6.	c-str. / sm-cum.	S	9	sm-cum. / cum.	SW / E	8	sm-cum. / cum.	E	10	str-cum.	ENE
„ 16, ...	10	sm-cum.	ENE	9	sm-cum. / cum.	ENE	7	sm-cum.	NE	1	c-cum.	...
„ 17, ...	10	str. / cum.	NE	10	nim.	NE	10	nim.	ENE	10	nim.	...
„ 18, ...	10	cum-nim.	...	10	cum.	ESE	10	nim.	...	10	nim.	E
„ 19, ...	10	cum.	ESE	10	cum.	ESE	10	cum.	ESE	10	sm-cum. / cum.	E
„ 20, ...	1	cum.	...	9	cum.	E	5	c-cum. / cum.	ENE / ..	2	c-cum. / cum.	E
„ 21, ...	0	...	...	1	cum.	...	3	sm-cum. / cum.	ENE / ..	2	c-str. / cum.	E
„ 22, ..	6	str-cum.	...	6	cum.	...	4	cum.	E	5	cum.	E
„ 23, ...	6	str-cum.	...	5	cum.	E	3	cum.	ESE	2	cum.	ESE
„ 24, ...	0	...	...	0	...	...	1	sm-cum.	...	1	sm-cum.	...
„ 25, ...	2	cum.	...	9	cum.	E	9	c-str. / cum.	E	9	cum.	E
„ 26, ...	5	str-cum.	...	3	str-cum.	...	2	cum.	ENE	9	cum.	ENE
„ 27, ...	3	str-cum.	...	4	cum.	...	0	...	...	0	...	...
„ 28, ...	0	...	...	0	...	...	1	c-cum.	...	2	c-cum. / cum.	...
„ 29, ...	0	...	...	0	..	...	6	c-cum.	...	6	c-cum.	...
„ 30, ...	9	str-cum.	...	9	str-cum.	...	8	c-cum. / cum.	E	8	c-cum. / cum.	E
.....	...	...	...	...	...	...	...	..	...	...	...	...
Means,...	4.9	...	...	5.1	...	...	5.3	...	...	5.8	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Sept. 1,...	4	c-cum. / cum.	SSW	7	c-cum. / nim.	SW	1	cum.	...	0	...	...	2.4
„ 2,...	3	c-cum. / cum.	SW	5	c-cum. / cum.	WSW	4	c-str. / cum.	SW	2	cum.	...	2.9
„ 3,...	9	c-cum. / cum.	SSW	8	c-cum. / cum.	SSW	9	c-cum. / cum.	...	6	c-cum. / cum.	...	7.0
„ 4,...	1	c-cum. / cum.	...	2	c-cum. / cum.	WSW	1	cum.	...	3	cum.	SW	3.5
„ 5,...	5	c-str. / cum.	WSW	0	...	...	6	c-cum. / cum.	...	8	c-cum. / cum.	...	3.7
„ 6,...	5	c-cum. / cum.	E / W	5	c-cum.	E	8	c-str.	...	9	c-str. / cum.	...	3.8
„ 7,...	1	c-cum. / cum.	...	9	c-str. / cum.	...	10	c-str.	...	8	c-str.	...	6.1
„ 8,...	4	c-cum. / cum.	...	8	c-cum. / cum.	E	10	str.	...	10	c-str.	...	5.6
„ 9,...	6	c-cum. / sm-cum. / cum.	.. / ESE / ..	9	sm-cum. / cum-str.	...	8	sm-cum.	...	8	c-cum. / cum.	E	7.6
„ 10,...	6	c-cum. / sm-cum. / nim.	ESE	9	c-str. / sm-cum. / cum.	ESE	8	c-cum. / cum.	W / SE	1	c-cum.	...	6.7
„ 11,...	6	c-cum. / cum.	SSW	9	c-cum. / cum.	SW	9	str-cum.	...	10	str.	...	6.5
„ 12,...	6	sm-cum. / cum.	NNE / E	1	c-cum. / cum.	...	5	cum.	...	7	sm-cum.	E	6.0
„ 13,...	10	nim.	E	10	nim.	E	10	nim.	E	10	nim.	E	9.1
„ 14,...	10	cum.	E	10	str-cum.	...	10	str-cum.	...	9	sm-cum.	S	9.9
„ 15,...	9	str-cum.	ENE	9	sm-cum. / cum.	NNE	5	c-str. / cum.	...	7	sm-cum. / cum.	ENE	7.9
„ 16,...	3	c-cum. / cum.	NE	8	sm-cum. / cum.	ENE	10	str-cum.	...	10	nim.	NE	7.3
„ 17,...	10	sm-cum. / cum.	ENE	10	sm-cum. / R-cum.	ENE	10	nim.	ENE	10	nim.	...	10.0
„ 18,...	10	nim.	E	10	cum-nim.	E	9	cum-nim.	E	10	cum-nim.	E	9.9
„ 19,...	1	c-cum. / cum.	...	2	c-cum.	ESE	1	cum.	...	1	cum.	...	5.6
„ 20,...	0	...	...	0	...	...	0	...	...	0	...	...	2.1
„ 21,...	2	cum.	E	1	c-cum. / cum.	E	0	...	...	0	...	...	1.1
„ 22,...	4	cum.	ESE	1	cum.	E	0	...	...	0	...	...	3.2
„ 23,...	2	c-cum. / cum.	E / ESE	1	c-cum.	...	0	...	...	0	...	...	2.4
„ 24,...	1	cum.	ENE	1	cum.	...	2	c-cum.	...	1	cum.	...	0.9
„ 25,...	4	c-str. / cum.	E	6	c-cum. / cum.	W / E	6	cum. / nim.	...	10	nim.	...	6.9
„ 26,...	6	cum.	ENE	2	cum. / cum.	N / ENE	0	...	...	2	cum.	...	3.6
„ 27,...	4	cum.	NNE	1	cum.	...	0	...	...	0	...	...	1.5
„ 28,...	1	cum.	N	4	c-cum. / cum.	N	0	...	...	0	...	...	1.0
„ 29,...	5	c-cum. / cum.	E / N	2	c-cum / cum.	N	0	...	...	0	...	...	2.4
„ 30,...	10	cum.	...	10	sm-cum. / cum.	N	9	sm-cum. / cum.	N	10	str-cum.	...	9.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	4.9	...	...	5.3	...	...	5.0	...	...	5.1	...	...	5.2

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF SEPTEMBER, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.1	6.4	0.8	0.7	+ 2.3	+ 5.7	E 22° N
2 „	2.8	6.3	0.5	0.7	2.3	5.6	E 22° N
3 „	2.8	5.9	0.7	0.9	2.1	5.0	E 23° N
4 „	3.4	5.6	0.8	0.9	2.6	4.7	E 30° N
5 „	3.7	5.7	0.7	1.3	3.0	4.4	E 34° N
6 „	3.6	5.2	0.6	0.9	3.0	4.3	E 35° N
7 „	3.4	4.6	0.5	0.7	2.9	3.9	E 37° N
8 „	4.4	5.0	0.8	1.4	3.6	3.6	E 46° N
9 „	5.0	6.4	1.1	2.1	3.9	4.3	E 42° N
10 „	4.1	7.6	1.2	2.5	2.9	5.1	E 29° N
11 „	3.2	8.9	2.3	3.0	0.9	5.9	E 8° N
Noon.	2.8	8.2	1.9	3.4	0.9	4.8	E 10° N
1 p.	2.8	8.6	2.2	3.7	0.6	4.9	E 7° N
2 „	3.1	8.5	3.1	3.4	0.0	5.1	E
3 „	3.5	7.9	3.5	3.3	0.0	4.6	E
4 „	3.1	7.9	2.9	2.8	0.2	5.1	E 3° N
5 „	3.1	7.6	3.1	2.4	0.0	5.2	E
6 „	2.3	6.9	2.2	1.8	0.1	5.1	E 1° N
7 „	2.5	7.4	1.6	1.2	0.9	6.2	E 9° N
8 „	3.2	7.3	1.4	0.8	1.8	6.5	E 16° N
9 „	3.7	7.8	1.0	0.5	2.7	7.3	E 21° N
10 „	3.2	7.5	0.9	0.3	2.3	7.2	E 18° N
11 „	2.7	7.5	1.0	0.7	1.7	6.8	E 14° N
Midt.	3.2	7.0	0.8	1.2	+ 2.4	+ 5.8	E 23° N
Means,.....	3.3	7.0	1.5	1.7	+ 1.80	+ 5.30	E 19° N

PHENOMENA :—

Solar halo :—on the 5th, 7th and 10th.

Lunar halo :—on the 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th and 14th.

Lunar corona :—on the 2nd, 3rd, 7th, 11th and 15th.

Fog :—on the 5th and 11th.

Slight fog :—on the 28th and 29th.

Haze :—on the 1st, 2nd and 8th.

Unusual Visibility :—on the 1st, 4th, 5th, 8th, 12th, 20th and 23rd.

Dew :—on the 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 10th, 11th, 21st, 22nd, 24th, 25th, 28th and 29th.

Lightning without thunder :—on the 3rd, 4th, 5th, 7th, 11th, 13th, 14th, 15th, 19th, 20th, 21st, 23rd, 24th, 29th and 30th.

Thunder without lightning :—on the 8th, 13th and 14th.

Thunder and lightning :—on the 9th and 10th.

Thunderstorms :—on the 12th, 2.45 a.,—5 a., in E, distant. On the 25th, 2.15 a.—2.45 a., N-W, nearest at 2.28 a., (16s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF OCTOBER, 1897.

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,...	29.800	29.798	29.802	29.803	29.813	29.812	29.835	29.852	29.853	29.845	29.839	29.824	29.805	29.795	29.779	29.785	29.785	29.806	29.822	29.843	29.859	29.858	29.854	29.845	29.821
„ 2,...	.834	.820	.812	.812	.822	.831	.843	.861	.878	.878	.869	.847	.828	.811	.793	.796	.801	.821	.836	.858	.866	.861	.859	.848	.837
„ 3,...	.833	.827	.813	.803	.809	.828	.842	.853	.868	.863	.848	.822	.791	.770	.759	.755	.765	.784	.795	.815	.829	.827	.808	.799	.813
„ 4,...	.785	.763	.751	.748	.757	.767	.782	.798	.796	.793	.784	.762	.744	.723	.708	.701	.706	.705	.717	.737	.742	.744	.742	.726	.749
„ 5,...	.718	.723	.714	.703	.722	.732	.746	.767	.768	.770	.774	.750	.728	.703	.687	.693	.693	.703	.720	.739	.743	.724	.733	.728	.728
„ 6,...	.712	.711	.707	.704	.718	.738	.762	.783	.790	.781	.778	.753	.745	.724	.703	.710	.730	.736	.755	.772	.776	.762	.780	.773	.746
„ 7,...	.750	.741	.724	.725	.742	.754	.774	.793	.807	.811	.806	.791	.769	.737	.729	.731	.743	.754	.772	.799	.812	.814	.812	.801	.771
„ 8,...	.788	.778	.769	.764	.771	.787	.802	.816	.829	.836	.827	.817	.794	.777	.771	.772	.787	.791	.805	.820	.838	.848	.838	.824	.802
„ 9,...	.825	.813	.804	.793	.802	.805	.819	.838	.865	.863	.849	.841	.820	.795	.793	.791	.800	.813	.826	.842	.850	.865	.861	.857	.826
„ 10,...	.839	.843	.815	.803	.822	.840	.865	.879	.886	.894	.877	.856	.817	.801	.797	.800	.799	.815	.831	.853	.870	.883	.882	.875	.843
„ 11,...	.858	.862	.861	.878	.886	.890	.905	.913	.929	.939	.931	.922	.904	.875	.857	.850	.860	.867	.884	.900	.909	.910	.910	.905	.892
„ 12,...	.902	.887	.878	.879	.884	.904	.915	.923	.918	.926	.910	.885	.852	.828	.806	.803	.798	.806	.821	.849	.861	.865	.865	.865	.868
„ 13,...	.846	.832	.815	.802	.798	.806	.833	.849	.861	.867	.850	.824	.804	.778	.775	.777	.795	.814	.831	.849	.851	.847	.848	.840	.825
„ 14,...	.832	.828	.825	.829	.828	.843	.860	.878	.887	.898	.880	.865	.835	.819	.803	.801	.798	.806	.822	.854	.875	.883	.890	.875	.846
„ 15,...	.860	.858	.845	.839	.858	.874	.885	.903	.904	.908	.919	.916	.896	.880	.880	.896	.904	.928	.934	.957	.955	.953	.950	.942	.902
„ 16,...	.914	.911	.895	.900	.927	.954	.978	30.001	30.012	30.023	30.012	.984	.950	.930	.926	.921	.921	.935	.959	.979	.991	.988	.987	.978	.958
„ 17,...	.972	.955	.944	.934	.943	.960	.975	29.981	29.997	29.994	29.986	.960	.926	.905	.887	.887	.894	.908	.924	.942	.945	.940	.936	.932	.943
„ 18,...	.915	.905	.907	.910	.925	.926	.910	.953	.965	.953	.952	.924	.895	.880	.874	.873	.880	.885	.894	.920	.927	.938	.948	.940	.918
„ 19,...	.932	.926	.918	.915	.920	.935	.954	.974	.986	.990	.972	.953	.926	.907	.896	.903	.907	.921	.938	.956	.966	.963	.963	.955	.941
„ 20,...	.935	.925	.923	.921	.925	.937	.953	.971	.982	.974	.952	.927	.896	.876	.869	.875	.886	.900	.923	.947	.959	.961	.958	.944	.930
„ 21,...	.923	.905	.890	.893	.908	.928	.939	.945	.957	.956	.938	.909	.875	.847	.831	.827	.832	.846	.865	.888	.898	.897	.892	.890	.895
„ 22,...	.870	.850	.842	.829	.837	.857	.878	.897	.908	.899	.894	.863	.834	.811	.799	.797	.805	.818	.844	.868	.871	.871	.859	.842	.852
„ 23,...	.828	.814	.804	.798	.804	.818	.846	.861	.867	.861	.841	.820	.790	.764	.753	.756	.770	.785	.800	.828	.838	.846	.843	.838	.816
„ 24,...	.836	.833	.832	.833	.844	.865	.878	.892	.911	.920	.901	.883	.858	.849	.847	.855	.856	.866	.880	.905	.915	.916	.913	.908	.875
„ 25,...	.908	.902	.899	.908	.919	.924	.940	.955	.957	.964	.970	.947	.923	.907	.910	.915	.929	.934	.945	.965	.970	.969	.966	.973	.942
„ 26,...	.969	.955	.955	.942	.948	.964	.974	.993	30.003	30.001	.981	.959	.939	.923	.919	.910	.919	.930	.945	.963	.964	.963	.953	.945	.955
„ 27,...	.931	.916	.908	.899	.908	.920	.942	.956	29.974	29.970	.959	.937	.908	.889	.873	.875	.881	.893	.909	.930	.935	.936	.937	.923	.921
„ 28,...	.916	.900	.886	.883	.888	.906	.919	.939	.957	.954	.936	.913	.887	.870	.872	.868	.879	.888	.897	.914	.919	.920	.919	.916	.906
„ 29,...	.908	.893	.889	.883	.885	.893	.913	.919	.923	.922	.906	.880	.857	.849	.834	.833	.841	.848	.859	.877	.888	.889	.885	.872	.881
„ 30,...	.868	.853	.851	.852	.861	.876	.894	.912	.917	.903	.886	.860	.831	.825	.824	.828	.837	.841	.853	.870	.888	.890	.886	.879	.866
„ 31,...	.875	.864	.857	.863	.876	.898	.920	.941	.950	.950	.927	.915	.880	.862	.857	.854	.873	.883	.909	.926	.920	.912	.912	.895	.897
Means,.....	29.861	29.852	29.843	29.840	29.850	29.864	29.881	29.897	29.907	29.907	29.895	29.874	29.849	29.829	29.820	29.821	29.828	29.840	29.855	29.876	29.885	29.885	29.884	29.875	29.863

TABLE II.

TEMPERATURE FOR THE MONTH OF OCTOBER, 1897.

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	77.0	76.6	77.0	76.8	76.7	77.1	77.2	78.7	79.6	81.3	81.7	82.3	82.0	81.0	81.2	80.6	80.3	79.5	78.8	79.2	79.6	78.7	79.3	79.2	79.2	83.2	76.5
„ 2	79.3	76.2	74.7	76.0	77.0	77.2	77.7	79.3	80.7	81.2	82.2	81.5	80.6	80.8	80.7	80.2	79.5	79.5	79.4	79.3	79.5	79.0	79.2	78.5	79.1	83.4	74.7
„ 3	78.4	78.6	78.2	78.0	76.8	76.0	76.8	79.6	79.8	80.6	80.1	81.0	81.8	81.2	81.0	79.8	79.5	78.1	78.0	77.8	77.6	77.8	78.1	78.6	78.9	81.8	75.8
„ 4	77.4	76.8	75.4	75.2	74.8	76.0	76.0	77.1	79.8	82.0	83.0	83.0	82.8	83.3	82.9	83.2	82.8	82.2	81.5	81.9	81.6	81.0	81.0	79.8	80.0	84.5	74.5
„ 5	81.2	80.4	78.6	78.2	77.8	77.4	79.0	79.8	80.5	81.2	80.0	79.3	77.5	78.4	78.1	75.6	76.1	75.0	76.1	75.5	75.1	75.5	74.8	75.2	77.8	81.6	74.7
„ 6	75.4	75.6	75.9	74.7	75.3	76.3	76.2	75.8	76.9	77.0	76.9	78.0	76.8	76.0	76.9	77.6	76.7	76.2	77.0	76.8	77.2	77.0	76.1	77.2	76.5	78.0	74.7
„ 7	76.1	76.3	75.5	75.8	76.6	75.8	77.1	77.9	76.4	76.6	77.3	77.5	76.6	77.8	77.6	77.6	77.6	77.4	77.6	78.1	78.1	77.9	78.3	78.2	77.2	78.3	75.5
„ 8	77.8	77.6	77.2	77.0	76.9	77.2	77.6	77.8	79.0	79.2	80.2	79.5	79.1	79.0	78.4	78.8	77.3	77.9	77.0	77.5	77.7	78.2	77.4	77.0	78.0	80.5	76.4
„ 9	76.7	76.8	76.6	76.4	76.1	76.3	75.3	76.1	76.6	76.8	76.7	76.3	76.9	76.7	75.6	76.0	76.5	76.2	74.5	76.0	77.2	77.5	77.7	78.0	76.5	78.2	74.5
„ 10	78.0	77.5	77.2	77.4	77.5	77.6	77.2	77.6	77.7	78.8	77.9	79.3	80.0	79.1	77.0	77.2	77.5	77.5	77.4	77.6	77.6	77.8	77.0	78.2	77.8	80.0	77.0
„ 11	77.5	77.2	77.1	76.5	76.4	76.7	77.5	77.6	77.7	77.7	77.4	78.8	78.8	78.7	79.6	78.8	78.8	78.5	78.4	78.1	78.2	78.0	78.3	78.2	77.9	79.6	75.8
„ 12	78.3	78.3	78.3	78.0	77.9	77.7	78.6	80.7	82.6	83.6	84.8	85.5	85.8	85.1	86.0	85.2	84.1	82.6	81.4	80.2	79.0	79.9	79.0	79.2	81.3	86.8	77.7
„ 13	78.8	78.9	79.3	79.0	78.8	80.2	80.3	80.8	80.6	82.4	82.1	82.2	81.0	79.9	80.2	79.1	79.0	78.5	78.6	78.1	77.4	77.3	77.1	76.5	79.4	82.9	76.3
„ 14	76.4	76.5	76.4	76.4	75.8	76.1	76.8	78.2	78.9	78.8	80.3	79.5	78.8	78.7	78.9	78.5	78.8	78.8	78.6	78.2	78.1	78.0	77.3	77.0	77.9	81.5	75.8
„ 15	76.6	76.5	76.6	75.7	75.1	75.5	75.8	75.8	76.6	77.4	77.4	76.6	76.6	75.5	74.0	74.5	74.0	73.6	74.6	74.8	75.0	75.2	75.4	74.9	75.6	78.3	73.2
„ 16	74.9	74.7	74.8	75.0	75.5	75.4	75.9	76.3	76.8	77.6	78.9	79.5	79.2	78.9	78.8	77.4	76.9	76.5	77.0	77.3	77.3	77.2	77.4	76.5	76.9	80.4	74.7
„ 17	76.5	76.3	76.5	76.2	75.9	74.6	72.9	77.0	77.7	76.5	76.5	77.1	78.5	77.6	78.8	77.8	77.5	77.2	76.7	76.2	75.8	75.0	74.8	74.5	76.4	80.3	72.7
„ 18	74.2	73.9	73.8	73.0	72.4	72.6	74.0	75.8	77.8	79.0	79.6	81.8	81.9	81.8	81.6	81.8	80.8	78.3	77.8	77.4	76.2	75.0	75.0	74.6	77.1	84.8	72.2
„ 19	73.8	73.1	72.5	72.5	72.2	71.8	73.1	74.1	75.0	75.0	75.2	75.7	76.8	78.1	77.0	76.3	76.0	75.5	75.4	75.9	75.6	75.4	75.4	75.0	74.8	78.1	71.7
„ 20	75.2	74.7	74.6	74.3	74.4	74.5	75.0	76.2	78.1	78.0	78.7	78.5	78.4	78.0	77.8	77.5	76.4	76.0	76.1	76.2	76.3	76.2	76.2	76.1	76.4	80.9	74.3
„ 21	75.6	75.2	74.8	74.8	74.5	74.8	74.8	77.2	79.6	81.0	81.4	80.4	80.7	81.2	82.4	78.9	77.5	77.0	76.4	76.2	75.9	75.1	75.7	75.3	77.4	83.1	73.4
„ 22	75.1	74.4	73.6	73.9	73.4	71.9	74.7	75.6	77.0	77.4	78.1	79.6	79.5	78.4	79.9	77.6	76.4	76.3	76.1	76.0	75.0	74.8	71.6	70.7	75.7	81.8	70.2
„ 23	69.1	68.2	67.9	67.0	66.5	67.0	69.3	71.8	72.8	74.4	76.8	77.6	77.8	78.1	79.8	78.0	76.5	74.6	73.0	73.4	72.3	73.4	72.6	71.5	72.9	79.8	66.3
„ 24	70.9	70.6	70.5	70.2	69.8	69.5	71.0	74.0	75.8	77.6	77.8	77.1	76.7	76.7	75.8	75.0	74.6	74.0	74.0	74.5	74.2	74.1	74.2	74.0	73.9	78.3	69.4
„ 25	73.8	73.3	73.4	73.0	72.9	73.0	73.0	73.3	74.1	75.4	75.0	75.2	74.8	74.6	74.0	73.9	73.9	73.7	73.7	73.4	73.0	73.6	73.8	73.9	73.8	76.2	72.5
„ 26	74.0	74.1	73.8	73.4	73.2	73.2	73.0	74.9	75.5	76.0	77.0	76.6	76.8	76.1	75.6	75.0	74.9	74.4	74.6	74.3	74.6	74.4	74.8	74.9	74.8	77.4	73.0
„ 27	74.5	75.2	74.8	75.0	74.6	74.9	75.3	75.0	75.4	75.7	77.6	78.3	79.2	78.1	78.0	77.8	76.6	75.9	76.0	76.2	76.1	74.6	72.6	72.6	75.8	79.3	72.6
„ 28	72.4	71.6	71.4	70.8	70.6	70.0	71.6	71.6	73.4	73.6	75.0	74.4	74.0	75.4	75.2	75.2	74.6	74.5	74.9	75.0	74.8	73.3	72.6	72.0	73.2	75.4	70.0
„ 29	72.4	72.6	73.3	73.0	72.8	71.8	73.2	74.0	76.8	77.8	79.4	78.7	79.4	78.3	79.6	79.4	76.9	75.7	74.8	74.4	74.2	74.2	74.2	73.7	75.4	81.5	71.5
„ 30	73.6	73.7	73.2	72.8	72.4	72.5	74.0	76.1	78.5	80.6	81.7	81.9	81.2	79.9	80.7	79.6	79.3	76.5	75.4	75.8	75.8	75.6	75.1	74.9	76.7	83.5	72.2
„ 31	74.9	76.4	74.5	74.3	74.5	75.0	76.1	77.6	79.7	81.8	80.8	81.8	82.0	80.2	79.6	79.0	77.3	76.3	75.9	75.8	75.8	76.6	76.6	76.4	77.5	83.1	73.8
Means	75.7	75.4	75.1	74.8	74.7	74.7	75.4	76.6	77.7	78.5	79.0	79.2	79.1	78.8	78.8	78.2	77.6	76.9	76.7	76.7	76.5	76.4	76.1	75.9	76.8	80.7	73.7

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF OCTOBER, 1897.

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, ...	74.5	73.8	74.2	74.3	74.1	73.7	72.6	70.7	70.2	72.4	70.0	70.7	69.8	69.7	70.6	70.7	71.4	71.1	70.7	71.9	72.8	72.6	72.6	72.8	72.0	135.1
„ 2, ...	72.9	72.8	72.6	72.9	72.7	72.6	72.7	72.8	73.1	72.7	73.4	73.1	72.8	72.9	73.5	72.2	72.0	71.6	71.3	71.5	71.7	72.4	72.3	71.7	72.5	142.6
„ 3, ...	72.1	72.7	71.7	71.6	71.3	70.8	71.7	72.6	71.9	72.2	71.9	72.3	71.9	71.6	71.3	70.9	70.8	70.6	70.3	70.9	70.8	71.0	71.7	71.7	71.5	141.3
„ 4.	70.9	70.4	70.7	70.6	69.9	67.1	67.0	67.2	68.2	68.7	68.8	69.3	69.3	69.7	70.0	70.1	70.2	69.5	69.8	70.1	70.3	71.2	71.1	70.7	69.6	139.4
„ 5.	71.0	70.4	69.9	69.7	69.1	69.2	69.7	70.7	70.9	72.1	71.7	71.8	71.4	72.0	72.0	72.3	72.5	73.1	72.9	72.9	72.9	73.0	73.5	73.3	71.6	136.6
„ 6.	73.0	72.8	73.0	72.6	72.7	73.2	73.1	72.1	73.0	74.1	73.5	73.9	73.9	74.9	75.2	75.7	75.2	74.6	74.8	75.2	75.5	75.3	75.6	75.6	74.1	107.4
„ 7, ...	75.1	75.7	75.0	75.2	75.2	75.3	74.9	75.0	74.9	74.9	74.9	75.1	75.0	75.3	74.9	74.7	74.7	75.3	75.3	75.5	75.5	75.2	75.3	75.3	75.1	109.9
„ 8, ...	75.2	75.0	74.7	74.6	74.2	75.4	74.2	74.2	74.5	74.6	74.8	74.6	74.6	74.5	75.2	74.7	74.6	74.8	74.9	75.1	74.2	74.1	74.2	73.2	74.6	137.4
„ 9, ...	72.1	72.2	71.8	71.8	71.6	71.3	71.6	71.6	71.9	71.8	71.9	72.1	71.2	70.6	72.4	73.2	72.4	73.6	72.8	73.2	73.0	73.0	72.9	72.9	72.2	105.1
„ 10, ...	73.6	73.9	73.7	73.6	72.9	72.9	72.6	72.5	72.8	73.6	73.4	73.6	74.0	74.5	74.9	74.9	74.8	75.1	75.0	75.6	76.3	76.2	76.3	76.1	74.3	118.2
„ 11, ...	75.8	75.7	75.5	76.0	76.0	76.7	75.9	76.0	75.7	75.5	75.1	75.7	76.0	75.9	76.3	75.7	75.4	76.0	76.1	75.9	76.1	75.7	75.2	75.3	75.8	108.4
„ 12, ...	75.1	75.3	75.3	75.2	74.9	74.7	74.5	75.5	76.7	76.8	77.2	76.3	75.1	75.2	74.0	74.0	73.0	72.1	72.3	73.6	73.8	74.8	76.6	77.1	75.0	139.6
„ 13, ...	76.7	76.3	75.5	75.2	75.3	74.7	74.9	74.9	74.6	75.9	75.7	76.7	76.1	75.1	75.3	74.3	74.7	74.8	74.9	73.9	73.9	74.0	73.5	73.5	75.0	134.0
„ 14, ...	73.2	72.6	72.9	72.1	71.6	71.6	71.6	71.9	72.0	72.2	72.9	72.3	72.5	72.1	72.1	72.9	72.0	72.2	72.7	74.3	72.2	72.3	71.7	72.3	72.3	138.1
„ 15, ...	71.5	71.5	71.9	71.4	71.2	69.2	69.5	69.9	70.6	71.1	71.5	70.6	70.6	70.6	72.1	72.6	70.9	71.5	72.1	72.2	72.2	72.1	71.3	71.3	71.2	105.4
„ 16, ...	71.0	70.6	70.7	70.6	70.9	70.6	70.4	70.7	71.2	71.2	72.4	72.6	72.7	72.4	73.2	73.2	73.2	73.4	74.3	73.7	73.2	73.4	72.8	72.3	72.1	140.2
„ 17, ...	72.6	72.3	72.5	72.2	72.2	71.9	70.8	72.4	72.0	71.2	71.7	71.9	72.0	72.5	73.0	72.9	73.1	72.9	72.8	71.6	69.6	69.3	69.0	68.7	71.7	130.5
„ 18, ...	68.8	68.2	67.7	67.6	67.2	67.6	68.2	68.6	69.6	69.7	71.5	72.8	72.2	72.8	72.5	72.1	71.0	70.7	70.1	69.6	69.1	68.4	68.2	68.5	69.7	137.8
„ 19, ...	68.0	67.4	65.6	66.6	66.5	67.0	67.3	67.9	68.2	68.2	69.4	68.9	68.9	68.9	69.6	69.1	69.8	69.9	70.8	71.0	71.0	70.6	70.5	70.2	68.8	123.5
„ 20, ...	69.8	70.0	69.9	70.0	69.8	69.6	70.4	69.7	71.3	71.2	72.2	71.5	71.6	71.2	71.5	71.5	71.0	70.8	70.6	71.5	71.8	72.2	72.5	72.4	71.0	140.1
„ 21, ...	72.1	71.9	72.1	71.9	72.0	71.9	71.6	71.0	71.6	71.5	71.9	72.8	72.0	73.5	73.3	73.0	72.3	72.6	72.4	72.0	72.3	72.0	72.6	72.9	72.2	143.1
„ 22, ...	72.6	72.2	71.8	71.6	67.6	66.6	65.9	67.0	67.7	68.4	68.2	68.9	69.1	68.9	70.0	69.6	68.7	67.9	67.6	65.9	64.1	64.2	60.9	60.7	67.8	140.9
„ 23, ...	60.6	60.5	58.8	59.4	59.3	59.0	59.9	61.4	61.9	63.4	63.6	63.8	63.9	64.1	66.1	62.9	62.9	63.0	63.2	62.5	62.2	63.4	65.7	66.3	62.4	132.5
„ 24, ...	66.3	66.4	66.4	66.5	65.6	65.2	63.9	63.4	62.7	64.6	65.6	67.1	65.9	64.1	63.9	64.0	63.9	62.9	63.6	63.3	63.0	64.0	64.6	64.6	64.6	131.3
„ 25, ...	64.6	64.5	64.3	64.1	65.8	66.4	66.9	67.6	67.6	68.5	67.9	67.4	66.4	67.2	66.3	66.3	66.0	67.3	68.1	67.9	68.0	69.3	69.2	69.6	67.0	134.0
„ 26, ...	69.6	69.7	69.7	69.6	69.0	68.8	69.0	68.6	69.1	70.3	70.8	71.0	70.9	71.4	71.1	71.1	71.0	71.3	71.5	71.3	71.5	71.9	71.7	72.0	70.5	135.2
„ 27.	71.9	72.1	72.2	72.5	72.5	72.6	73.0	72.6	72.2	72.4	73.6	72.9	73.6	73.5	73.1	73.6	72.9	73.3	73.4	73.6	73.6	72.9	71.6	72.0	72.8	141.1
„ 28, ...	71.6	71.2	70.9	70.0	69.7	69.1	69.6	69.6	70.7	70.3	69.9	70.5	70.7	70.6	70.6	70.7	70.5	70.6	70.5	70.7	70.0	69.5	70.6	70.5	70.4	101.0
„ 29.	70.9	70.8	70.7	70.6	70.7	70.1	69.8	70.6	71.9	70.9	71.2	71.8	72.8	70.4	73.1	72.1	70.8	71.4	71.7	71.7	71.6	71.7	71.7	71.3	71.3	144.6
„ 30, ...	71.4	70.9	70.8	70.7	70.6	70.9	71.5	71.8	72.0	71.8	71.4	71.8	73.9	72.3	73.9	73.6	72.7	73.1	72.9	73.1	73.0	72.9	72.0	72.3	72.1	135.2
„ 31.	72.1	72.0	72.7	70.5	71.6	71.5	72.4	73.2	72.5	72.7	72.9	72.9	74.3	72.6	72.1	72.3	72.2	71.4	72.6	72.9	73.9	72.6	72.0	72.2	72.4	142.0
Means, ...	71.5	71.3	71.1	71.0	70.8	70.6	70.6	70.8	71.1	71.4	71.6	71.8	71.8	71.6	72.0	71.8	71.5	71.6	71.7	71.7	71.6	71.7	71.6	71.6	71.4	130.7

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF OCTOBER, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	80	0.720	Oct. 1,.....	69	0.689
2 „	81	.716	„ 2,.....	72	.711
3 „	81	.712	„ 3,.....	68	.673
4 „	82	.712	„ 4,.....	57	.585
5 „	81	.705	„ 5,.....	73	.693
6 „	81	.698	„ 6,.....	88	.811
7 „	78	.688	„ 7,.....	91	.844
8 „	74	.680	„ 8,.....	84	.812
9 „	71	.677	„ 9,.....	80	.734
10 „	70	.678	„ 10,.....	84	.802
11 „	68	.679	„ 11,.....	91	.865
Noon.	68	.684	„ 12,.....	73	.785
1 p.	69	.686	„ 13,.....	80	.810
2 „	69	.682	„ 14,.....	75	.719
3 „	70	.698	„ 15,.....	79	.706
4 „	72	.699	„ 16,.....	78	.724
5 „	74	.694	„ 17,.....	78	.715
6 „	76	.707	„ 18,.....	66	.628
7 „	77	.714	„ 19,.....	72	.625
8 „	77	.714	„ 20,.....	75	.687
9 „	77	.714	„ 21,.....	76	.722
10 „	79	.718	„ 22,.....	64	.576
11 „	79	.719	„ 23,.....	52	.425
Midt.	80	.721	„ 24,.....	58	.486
			„ 25,.....	69	.572
			„ 26,.....	80	.690
			„ 27,.....	86	.769
			„ 28,.....	87	.706
			„ 29,.....	81	.714
			„ 30,.....	79	.727
			„ 31,.....	77	.728
Means,.....	76	0.701	Means.	76	0.701

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.
1897.														
Oct. 1,.....	...	0.4	0.7	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	9.3
„ 2,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.2
„ 3,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.4
„ 4,.....	...	...	...	0.8	1.0	1.0	0.1	0.1	0.1	...	...	...	...	3.1
„ 5,.....	...	...	...	0.1	0.2	...	...	...	...	...	...	...	...	0.3
„ 6, ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	0.1	...	...	...	...	...	...	...	...	...	...	...	0.1
„ 8,.....	...	...	...	0.2	0.6	1.0	0.3	...	0.1	0.2	...	...	...	2.4
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 11,.....	...	...	...	...	...	...	...	...	...	...	0.1	...	...	0.1
„ 12,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.0
„ 13,.....	...	0.5	0.6	0.6	1.0	1.0	1.0	1.0	0.9	0.9	0.1	...	...	7.6
„ 14,.....	...	...	0.2	0.2	0.9	1.0	0.9	...	...	...	...	...	...	3.2
„ 15,.....	...	..	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	0.1	0.7	0.3	0.5	...	0.8	0.4	...	...	...	2.8
„ 17,.....	...	...	0.2	0.5	...	...	...	0.2	0.4	0.4	...	...	...	1.7
„ 18,.....	...	0.6	1.0	0.9	...	...	0.4	1.0	1.0	1.0	0.1	0.1	...	6.1
„ 19,.....	...	...	...	...	...	0.1	...	0.3	0.7	0.1	...	...	...	1.2
„ 20,.....	...	...	...	0.5	0.6	1.0	1.0	0.8	0.7	0.3	0.6	0.2	...	5.7
„ 21,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.7	...	9.8
„ 22,.....	...	0.7	1.0	0.3	1.0	0.5	0.6	0.3	0.1	1.0	0.8	0.3	...	6.6
„ 23,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.7
„ 24,.....	...	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	9.8
„ 25,.....	...	...	...	0.7	1.0	0.8	0.9	0.8	0.6	0.5	0.7	...	...	6.0
„ 26,.....	...	...	0.8	1.0	1.0	1.0	1.0	0.9	0.3	0.4	0.4	...	...	6.8
„ 27,.....	...	...	...	...	...	0.6	0.2	0.6	0.1	0.7	0.6	...	...	2.8
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	0.1	...	0.1
„ 29,.....	...	...	...	0.8	1.0	1.0	0.9	0.6	...	0.3	1.0	0.2	...	5.8
„ 30,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.7	...	10.0
„ 31,.....		0.3	1.0	1.0	0.8	1.0	0.9	0.9	1.0	1.0	1.0	0.3	...	9.2
Sums,.....	...	5.1	12.4	15.0	17.8	18.3	16.8	15.5	14.8	15.2	12.9	7.1	...	150.9

TABLE VI.

RAINFALL FOR THE MONTH OF OCTOBER, 1897.

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.
Oct. 1,	0.080	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.080	1
" 2,	...	...	0.035	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.050	2
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.005	0.020	0.050	0.095	0.070	0.120	0.250	0.095	0.725	7
" 6,	0.010	0.010	0.015	0.050	...	...	...	...	...	0.005	...	0.020	0.080	0.280	0.135	0.030	0.235	0.230	0.200	0.060	0.505	0.055	0.180	0.400	2.500	17
" 7,	0.110	0.095	0.200	0.400	0.070	...	...	...	0.010	...	...	0.095	0.005	0.015	0.015	...	...	...	...	...	...	...	...	...	1.010	9
" 8,	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.080	...	...	...	...	...	0.105	4
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.010	...	...	0.065	...	...	...	0.005	...	0.095	4
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	0.010	...	0.005	0.165	0.010	0.045	0.015	0.260	5
" 11,	0.030	0.065	...	0.245	0.510	...	...	...	0.010	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.865	6
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	0.070	0.130	0.185	0.015	0.010	...	...	...	...	...	...	0.410	5
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1
" 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	0.050	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	0.010	0.090	3
" 28,	0.030	0.100	0.020	0.010	0.020	0.010	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	0.220	11
" 29,	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	1
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.265	0.270	0.270	0.725	0.605	0.015	0.005	0.005	0.070	0.010	...	0.115	0.085	0.365	0.305	0.245	0.255	0.285	0.395	0.160	0.740	0.185	0.520	0.530	6.425	76

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF OCTOBER, 1897.

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.		Midn.		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.	Vers.
Oct. 1.	7	21	6	14	7	13	7	16	7	21	7	24	7	26	7	19	7	18	7	17	7	23	9	17	10	23	10	19	10	20	9	16	9	12	9	13	6	12	7	11	7	11	7	14	8	15	7	13	408	17.0	8
„ 2.	7	13	3	14	3	7	7	6	6	14	6	14	5	12	4	15	7	11	8	13	10	16	10	17	10	19	10	22	9	20	9	22	8	20	8	20	8	22	8	20	7	19	8	20	8	21	7	16	393	16.4	8
„ 3.	7	16	8	18	7	19	7	20	5	12	4	12	3	9	6	11	8	17	9	18	7	20	9	19	10	19	9	21	9	18	8	20	7	18	8	17	7	13	7	11	6	10	5	9	7	15	7	20	382	15.9	7
„ 4.	3	12	3	6	3	4	...	1	3	6	1	10	32	13	1	11	32	16	5	13	6	17	5	11	32	12	32	13	32	14	2	11	2	10	3	10	3	9	6	10	7	12	7	10	7	16	6	15	262	10.9	3
„ 5.	5	11	3	10	32	16	1	16	32	13	1	12	5	21	4	19	4	20	4	23	4	22	3	20	6	18	5	16	4	18	4	13	5	17	5	22	5	23	4	19	5	25	5	36	7	32	6	35	477	19.9	4
„ 6.	6	33	6	33	6	33	6	33	6	31	7	28	7	32	7	30	7	34	6	31	7	33	7	32	7	31	7	32	7	35	7	27	10	20	11	27	11	31	9	23	6	34	6	40	9	32	8	27	742	30.9	7
„ 7.	7	26	12	23	7	25	7	23	8	19	7	23	7	20	8	22	7	28	7	26	7	28	8	28	7	26	7	28	7	30	7	29	7	28	7	27	7	22	7	23	6	25	7	23	7	26	7	23	601	25.0	7
„ 8.	7	20	6	25	6	25	6	28	6	29	7	31	6	30	7	30	7	29	7	31	7	36	7	32	7	33	7	30	7	27	7	26	9	26	7	27	7	29	7	30	7	32	7	31	6	33	7	37	707	29.5	7
„ 9.	7	36	7	36	7	36	6	31	7	31	7	29	7	24	7	27	7	28	7	31	7	34	7	32	7	35	7	33	7	28	7	28	7	31	8	30	7	32	7	27	7	29	7	31	7	31	7	31	741	30.9	7
„ 10.	7	32	7	32	7	36	7	32	6	27	7	29	6	24	7	23	7	25	6	21	6	26	7	25	6	28	6	27	7	30	7	33	6	32	6	30	6	32	7	26	7	27	7	25	7	27	6	25	674	28.1	7
„ 11.	7	26	8	20	7	19	7	23	8	26	7	28	7	25	7	27	6	24	6	29	7	26	7	23	6	22	6	24	7	22	6	20	7	17	6	17	6	14	7	16	7	16	7	16	7	18	6	13	511	21.3	7
„ 12.	6	10	6	12	7	12	6	12	5	11	5	5	6	5	6	3	8	7	10	7	10	9	11	6	11	7	10	9	11	10	10	8	10	4	10	2	...	1	10	3	10	2	8	10	8	12	9	13	180	7.5	8
„ 13.	7	15	5	12	5	5	8	3	6	4	3	10	7	16	7	31	7	30	7	27	7	26	8	23	7	24	7	22	7	23	7	21	7	23	7	28	7	30	6	26	6	17	7	26	7	27	7	19	488	20.3	7
„ 14.	6	19	5	15	7	17	6	18	6	22	5	13	6	17	4	17	7	18	8	22	8	22	8	27	8	27	7	27	8	25	7	24	7	21	7	18	7	27	8	33	7	39	6	38	7	35	7	30	571	23.8	7
„ 15.	6	26	7	24	7	30	7	34	7	31	6	32	5	23	5	19	5	17	7	20	8	25	7	25	7	17	7	14	7	17	6	16	6	17	5	11	7	27	7	25	7	30	7	25	7	28	7	26	559	23.3	7
„ 16.	7	31	6	25	6	25	6	27	7	23	6	20	8	25	6	26	6	27	7	24	7	28	7	24	7	21	6	20	7	20	7	19	7	18	7	17	7	16	7	15	7	19	7	19	7	19	7	16	524	21.8	7
„ 17.	7	17	7	19	7	21	7	26	7	20	4	11	1	5	32	5	32	8	5	14	7	12	6	8	6	4	9	6	3	5	9	11	9	8	9	9	9	8	3	4	2	9	32	14	1	17	3	6	267	11.1	6
„ 18.	...	1	3	5	2	5	2	5	2	7	32	4	32	2	1	11	1	10	1	8	24	5	25	6	18	3	18	2	32	6	2	6	1	10	1	9	1	16	1	13	1	15	32	12	2	2	2	7	170	7.1	1
„ 19.	2	9	1	12	1	11	1	10	2	7	1	6	3	7	4	10	5	14	4	16	7	20	6	16	6	20	7	19	7	18	7	13	7	13	8	11	7	18	8	22	7	21	7	21	7	18	8	18	350	14.6	6
„ 20.	6	14	5	12	6	11	6	10	6	9	6	8	6	4	7	9	7	10	10	11	10	18	9	18	9	18	9	16	9	12	9	13	9	15	8	13	8	9	7	9	7	11	8	10	7	9	7	13	282	11.7	8
„ 21.	6	16	6	15	6	15	6	12	7	11	5	2	4	6	1	4	3	6	9	6	10	3	10	4	23	7	23	8	22	3	17	3	17	2	17	3	...	1	17	2	...	0	17	4	10	9	10	8	150	6.3	7
„ 22.	9	4	...	0	9	2	5	8	2	7	31	4	32	2	32	5	32	4	28	5	25	4	32	13	32	9	27	9	27	7	26	10	25	15	30	9	2	9	1	11	1	23	1	25	1	24	1	25	234	9.7	32
„ 23.	32	10	31	6	1	6	32	6	2	7	32	8	32	10	31	12	1	16	32	17	32	15	32	11	32	8	28	4	27	5	1	11	32	5	1	3	1	6	2	7	2	8	4	9	5	3	...	0	193	8.0	32
„ 24.	...	1	...	0	...	1	...	0	...	1	3	7	1	12	1	12	1	9	6	10	9	12	11	13	10	16	9	17	10	20	11	18	9	19	7	14	7	16	7	15	8	17	7	16	8	14	7	13	273	11.4	8
„ 25.	7	12	7	15	7	17	6	15	7	20	7	20	7	28	7	25	7	27	6	30	6	26	7	28	6	27	6	30	6	27	6	25	7	22	7	20	7	22	7	24	7	26	7	26	7	25	7	26	563	23.5	7
„ 26.	7	26	7	26	6	19	6	20	6	21	6	21	7	23	7	24	7	27	7	26	7	26	7	23	7	25	7	20	7	20	7	19	7	17	7	18	7	18	7	21	7	21	7	17	7	14	7	16	508	21.2	7
„ 27.	7	14	9	16	7	14	7	13	6	12	7	9	6	14	6	16	7	10	8	16	7	14	9	13	9	16	9	19	9	15	9	16	8	13	7	14	8	12	8	12	9	9	6	10	5	6	...	1	304	12.7	8
„ 28.	...	0	5	2	5	3	5	3	5	2	2	7	2	2	2	2	2	3	6	10	5	12	5	12	4	12	6	14	7	17	8	16	7	19	7	17	7	18	7	20	8	19	6	14	6	17	6	9	250	10.4	6
„ 29.	6	9	6	10	6	13	7	17	6	14	6	14	6	13	3	13	7	13	9	10	10	9	10	4	2	3	5	5	25	5	30	2	31	3	30	2	...	1	...	0	...	1	30	4	6	8	6	6	179	7.5	6
„ 30.	6	6	6	4	...	1	...	0	...	1	6	2	...	1	6	3	6	3	6	3	7	2	7	8	8	10	8	14	10	10	8	3	...	1	8	2	8	4	8	3	8	8	8	8	8	10	8	9	116	4.8	8
„ 31.	10	7	10	3	9	9	6	9	6	9	7	14	7	14	7	14	7	12	7	10	10	10	10	11	10	13	10	14	10	15	9	13	10	12	10	10	10	10	10	10	8	10	7	17	7	18	8	22	286	11.9	8
Sums.	...	493	...	464	...	470	...	477	...	468	...	457	...	465	...	495	...	521	...	545	...	579	...	549	...	553	...	551	...	542	...	512	...	488	...	470	...	508	...	491	...	545	...	580	...	581	...	538	12345	514.4	...
Means.	...	15.9	...	15.0	...	15.2	...	15.1	...	15.1	...	14.7	...	15.0	...	16.0	...	16.8	...	17.6	...	18.7	...	17.7	...	17.8	...	17.9	...	17.5	...	16.5	...	15.7	...	15.2	...	16.4	...	15.8	...	17.6	...	18.7	...	18.7	...	17.4	398.2	16.6	...

TABLE VIII.

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
1897.												
Oct. 1, ...	10	str-cum.	...	10	str-cum.	...	8	cum.	ENE	1	cum.	ENE
„ 2, ...	10	nim.	...	10	nim.	...	6	sm-cum. / cum.	NNE	5	c-cum. / cum.	NNE
„ 3, ...	2	cum.	...	2	cum.	...	2	cum.	ENE	4	cum.	NE
„ 4, ...	3	c-str.	...	1	c-str.	...	7	c-cum.	...	8	c-cum.	E
„ 5, ...	4	c-cum.	...	6	c-str.	...	10	sm-cum. / cum.	E / ENE	9	sm-cum. / cum.	E / ENE
„ 6, ...	10	cum.	ENE	10	nim.	...	9	sm-cum. / cum.	E	10	c-str. / sm-cum. / nim.	E
„ 7, ...	10	nim.	E	10	nim.	ESE	9	sm-cum. / cum.	ESE	9	sm-cum. / cum.	ESE
„ 8, ...	10	cum-nim.	ESE	10	cum-nim.	...	10	cum-nim.	ESE	8	c-cum. / cum.	E
„ 9, ...	10	R-cum.	ESE	10	R-cum.	E	10	cum-nim.	E	10	cum-nim.	E
„ 10, ...	10	cum.	E	9	sm-cum. / cum.	E	10	str-cum.	E	10	str-cum.	ENE
„ 11, ...	10	nim.	ESE	10	nim.	...	10	cum-nim.	ESE	10	nim.	ESE
„ 12, ...	10	cum.	E	9	cum.	E	5	sm-cum. / cum.	W / ESE	1	c-cum. / cum.	E
„ 13, ...	8	sm-cum. / cum.	E / NE	7	cum.	ENE	6	sm-cum. / cum.	E / ENE	5	sm-cum. / cum.	E / ENE
„ 14, ...	7	cum.	ENE	8	cum.	ENE	10	cum.	ENE	5	sm-cum. / cum.	ESE / NE
„ 15, ...	10	str-cum.	ENE	10	str-cum.	E	10	str. / cum.	ESE / ENE	10	c-str. / c-cum. / cum.	ENE
„ 16, ...	10	c-str. / cum.	...	9	c-str. / cum.	ESE / ENE	10	cum.	ENE	9	c. / sm-cum. / cum.	WSW / E / E
„ 17, ...	10	cum.	ENE	10	cum.	ENE	9	cum-nim.	NE	10	str-cum.	ENE
„ 18, ...	9	cum.	ENE	10	str-cum.	ENE	1	sm-cum.	...	9	sm-cum.	ENE
„ 19, ...	10	str-cum.	ENE	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ENE
„ 20, ...	4	cum.	ENE	10	cum.	...	10	sm-cum. / cum.	NNE	7	sm-cum. / cum.	N / NE
„ 21, ...	3	cum.	...	3	cum.	NNE	0	...	...	3	cum.	NNE
„ 22, ..	0	...	...	5	cum.	...	7	sm-cum.	NW	7	c-cum.	...
„ 23, ...	0	...	...	0	...	...	1	c-cum.	...	1	c-cum.	...
„ 24, ...	0	...	...	1	cum.	...	5	sm-cum. / cum.	WNW / SE	1	sm-cum.	...
„ 25, ...	0	...	...	7	cum.	...	10	sm-cum. / cum.	WNW / ..	7	sm-cum. / cum.	WNW / E
„ 26, ...	10	cum-nim.	...	10	cum-nim.	...	7	sm-cum. / cum.	E	7	cum.	ESE
„ 27, ...	2	cum.	...	10	str-cum.	...	10	sm-cum. / cum.	SSE	10	sm-cum. / cum.	SSE
„ 28, ...	10	nim.	...	10	nim.	...	10	nim.	ENE	10	str-cum.	ENE
„ 29, ...	10	cum-nim.	...	10	nim.	...	9	sm-cum. / cum.	ENE	3	cum.	N
„ 30, ...	0	...	...	0	...	...	0	..	...	1	c-cum.	...
„ 31, ...	0	...	...	1	cum.	...	5	cum.	E	8	sm-cum. / cum.	W / E
Means, ...	6.5	...	...	7.4	...	...	7.3	...	...	6.7	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Oct. 1,...	4	c-cum.	...	2	c-cum.	...	1	c-cum.	...	10	nim.	...	5.8
„ 2,...	1	c-cum. / cum.	...	1	c-cum. / cum.	...	5	sm-cum.	NE	7	sm-cum. / cum.	NE	5.6
„ 3,...	5	c-cum. / cum.	N	7	c-cum. / sm-cum.	NNW	0	...	...	0	...	...	2.7
„ 4,...	10	sm-cum.	...	10	sm-cum.	E	8	c-str. / sm-cum.	E	9	c-str. / sm-cum. / cum.	.. / E / ..	7.0
„ 5,...	9	sm-cum. / cum.	NE	10	nim.	ENE	10	nim.	NE	10	nim.	...	8.5
„ 6,...	10	nim.	E	10	nim.	E	10	nim.	SE	10	nim.	ESE	9.9
„ 7,...	10	nim.	ESE	10	cum-nim.	E	10	cum.	ESE	10	cum.	ESE	9.8
„ 8,...	9	sm-cum. / cum.	SE / E	10	R-cum.	E	10	nim.	E	10	cum-nim.	E	9.6
„ 9,...	10	str-cum.	E	10	nim.	E	10	nim.	E	10	sm-cum. / cum.	WSW / ESE	10.0
„ 10,...	10	str-cum.	E	10	R-cum.	E	10	sm-cum / R-cum.	ESE	10	nim.	E	9.9
„ 11,...	10	cum. / cum.	SE / ESE	10	R-cum.	ESE	9	cum. / cum.	SE / E	9	R-cum.	ESE	9.7
„ 12,...	2	c-cum. / cum.	E / ..	1	c-cum.	...	0	...	...	1	c-cum.	...	3.6
„ 13,...	7	cum.	ENE	10	sm-cum. / str-cum.	ENE	10	str-cum.	...	9	cum.	ENE	7.8
„ 14,...	9	sm-cum.	...	9	sm-cum. / cum.	...	7	sm-cum.	...	10	R-cum.	E	8.1
„ 15,...	10	nim.	ENE	10	nim.	E	10	cum-nim.	...	10	cum.	E	10.0
„ 16,...	8	c-cum. / sm-cum. / cum.	.. / SSE / ESE	9	c-cum. / cum.	E	8	cum.	E	10	cum.	E	9.1
„ 17,...	9	sm-cum. / cum.	ENE	10	sm-cum. / cum.	NE	9	str-cum.	...	0	...	...	8.4
„ 18,...	3	cum.	...	8	sm-cum.	NE	10	str-cum.	...	10	str-cum.	...	7.5
„ 19,...	9	cum.	ENE	10	str-cum.	ENE	10	str-cum.	...	10	str-cum.	...	9.9
„ 20,...	3	c-cum.	NNW	1	sm-cum.	...	10	str-cum.	...	10	str-cum.	...	6.9
„ 21,...	8	cum.	NNE	3	c-cum. / cum.	NNE	0	...	...	0	...	...	2.5
„ 22,...	8	cum.	NW	9	c-cum / R-cum.	NNW	8	str-cum.	...	3	cum.	...	5.9
„ 23,...	1	c-cum. / cum.	...	2	c-cum. / cum.	NNE	0	...	...	0	...	...	0.6
„ 24,...	0	...	...	0	...	...	0	...	...	0	...	...	0.9
„ 25,...	8	sm-cum. / cum.	WNW / E	5	sm-cum. / cum.	WNW / E	10	sm-cum.	...	1	cum.	...	6.0
„ 26,...	8	cum.	ESE	8	cum.	ESE	5	cum.	...	7	cum.	...	7.7
„ 27,...	9	sm-cum. / cum.	NNW / SSE	8	sm-cum. / cum.	NNW / ..	10	cum.	...	10	nim.	...	8.6
„ 28,...	10	str-cum.	ENE	9	sm-cum. / cum.	WNW / ENE	10	str-cum.	...	10	cum.	E	9.9
„ 29,...	9	cum.	NNE	7	cum.	N	1	cum.	...	0	...	...	6.1
„ 30,...	1	c-cum. / cum.	...	4	sm-cum. / cum.	...	0	...	...	0	...	...	0.8
„ 31,...	5	sm-cum. / cum.	NE	1	cum.	...	1	cum.	...	8	cum.	...	3.6
Means,...	6.9	...	...	6.9	...	...	6.5	...	...	6.6	...	...	6.9

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF OCTOBER, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.6	14.6	0.1	0.0	+ 4.5	+ 14.6	E 17° N
2 „	5.0	13.1	0.6	0.0	4.4	13.1	E 18° N
3 „	5.1	13.4	0.1	0.0	5.0	13.4	E 21° N
4 „	5.4	13.7	0.0	0.0	5.4	13.7	E 21° N
5 „	5.1	13.3	0.0	0.0	5.1	13.3	E 21° N
6 „	5.8	12.4	0.0	0.0	5.8	12.4	E 25° N
7 „	5.7	12.7	0.0	0.0	5.7	12.7	E 24° N
8 „	6.5	13.1	0.0	0.1	6.5	13.0	E 26° N
9 „	6.0	14.1	0.0	0.0	6.0	14.1	E 23° N
10 „	5.3	15.7	0.5	0.1	4.8	15.6	E 17° N
11 „	4.1	17.2	0.8	0.3	3.3	16.9	E 11° N
Noon.	3.6	16.0	1.3	0.2	2.3	15.8	E 8° N
1 p.	4.1	15.8	1.6	0.3	2.5	15.5	E 9° N
2 „	3.8	16.0	1.4	0.6	2.4	15.4	E 9° N
3 „	3.5	15.5	1.5	0.6	2.0	14.9	E 8° N
4 „	3.6	14.8	1.1	0.4	2.5	14.4	E 10° N
5 „	3.3	14.1	1.1	0.5	2.2	13.6	E 9° N
6 „	3.4	13.7	0.9	0.2	2.5	13.5	E 10° N
7 „	4.2	14.8	0.7	0.0	3.5	14.8	E 13° N
8 „	3.6	14.6	0.4	0.0	3.2	14.6	E 13° N
9 „	5.2	15.7	0.1	0.0	5.1	15.7	E 18° N
10 „	6.0	16.3	0.1	0.1	5.9	16.2	E 20° N
11 „	4.6	17.2	0.3	0.0	4.3	17.2	E 14° N
Midt.	4.3	16.1	0.2	0.0	+ 4.1	+ 16.1	E 14° N
Means, ...	4.7	14.7	0.5	0.1	+ 4.12	+ 14.60	E 16° N

PHENOMENA :—

Solar halo :—on the 6th and 15th.

Lunar halo :—on the 16th.

Lunar corona :—on the 3rd, 4th, 16th and 17th.

Slight fog :—on the 30th.

Haze :—on the 12th, 17th and 22nd.

Unusual Visibility :—on the 12th.

Dew :—on the 18th, 21st and 22nd.

Lightning without thunder :—on the 13th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF NOVEMBER, 1897.

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,...	29.878	29.865	29.864	29.855	29.856	29.883	29.901	29.916	29.931	29.930	29.911	29.886	29.851	29.837	29.832	29.829	29.838	29.836	29.849	29.862	29.865	29.864	29.855	29.849	29.868
" 2,...	.843	.828	.828	.826	.826	.845	.858	.880	.890	.883	.862	.833	.798	.775	.758	.767	.779	.789	.812	.820	.831	.837	.834	.835	.827
" 3,...	.830	.820	.823	.829	.848	.872	.884	.891	.900	.900	.878	.854	.831	.822	.808	.804	.811	.813	.820	.835	.833	.843	.840	.838	.843
" 4,...	.830	.825	.824	.826	.833	.848	.868	.889	.899	.897	.878	.843	.813	.804	.796	.806	.813	.828	.849	.868	.879	.874	.875	.868	.847
" 5,...	.867	.858	.852	.857	.863	.879	.892	.909	.918	.913	.890	.873	.848	.834	.828	.841	.855	.861	.883	.892	.900	.899	.892	.893	.875
" 6,...	.882	.875	.861	.847	.848	.859	.867	.880	.897	.899	.887	.879	.857	.849	.839	.846	.854	.868	.872	.880	.892	.905	.900	.886	.872
" 7,...	.876	.868	.857	.856	.873	.880	.894	.910	.931	.932	.908	.885	.866	.854	.853	.854	.850	.855	.870	.883	.893	.895	.898	.887	.880
" 8,...	.869	.860	.850	.834	.834	.848	.870	.890	.908	.905	.900	.879	.852	.845	.840	.846	.856	.862	.882	.890	.893	.901	.899	.885	.871
" 9,...	.874	.864	.854	.850	.851	.876	.896	.918	.939	.941	922	.900	.865	.854	.842	.844	.860	.873	.890	.905	.906	.903	.903	.895	.884
" 10,...	.885	.877	.869	.858	.856	.875	.889	.905	.919	.920	.907	.889	.861	.845	.833	.841	.848	.861	.880	.896	.908	.902	.905	.897	.880
" 11,...	.894	.890	.882	.873	.877	.900	.919	.943	.961	.953	.946	.924	.888	.869	.865	.873	.888	.903	.916	.933	.936	.946	.943	.934	.911
" 12,...	.920	.903	.892	.885	.892	.895	.910	.935	.949	.950	.941	.922	.900	.870	.858	.849	.872	.883	.902	.912	.916	.928	.926	.918	.905
" 13,...	.919	.904	.894	.890	.896	.916	.929	.948	.958	.955	.939	.910	.877	.859	.861	.865	.874	.887	.914	.925	.926	.927	.929	.926	.909
" 14,...	.913	.900	.897	.892	.893	.907	.928	.951	.968	.957	.943	.913	.889	.864	.855	.857	.864	.882	.901	.916	.921	.919	.912	.902	.906
" 15,...	.887	.872	.860	.855	.856	.863	.881	.897	.906	.897	.884	.858	.834	.821	.817	.817	.828	.843	.851	.856	.864	.852	.845	.840	.858
" 16,...	.841	.825	.805	.799	.796	.810	.821	.830	.847	.844	.822	.796	.777	.757	.746	.752	.767	.770	.775	.799	.804	.797	.775	.779	.797.
" 17,...	.746	.730	.704	.699	.727	.745	.764	.776	.800	.789	.761	.716	.667	.607	.621	.624	.631	.637	.674	.714	.742	.769	.778	.780	.717
" 18,...	.782	.766	.759	.760	.769	.798	.817	.843	.870	.883	.873	.863	.850	.845	.849	.865	.888	.899	.925	.947	.958	.965	.965	.955	.862
" 19,...	.965	.966	.952	.953	.973	30.005	30.030	30.044	30.050	30.066	30.054	30.030	30.000	.996	.997	.994	30.015	30.012	30.034	30.034	30.069	30.063	30.046	30.054	30.017
" 20,...	30.030	30.044	30.027	30.016	30.032	.034	.044	.050	.060	.050	.029	29.996	29.968	.948	.941	.936	29.941	29.961	29.974	29.996	.003	.011	.019	.018	.005
" 21,...	.011	29.989	29.970	29.956	29.966	29.980	29.994	.015	.029	.027	.017	.980	.937	.923	.922	.930	.951	.962	.978	.995	.017	.025	.031	.031	29.985
" 22,...	.020	30.027	30.023	30.022	30.022	30.035	30.051	.064	.069	.066	.032	30.017	.980	.976	.974	.985	.999	30.018	30.037	30.058	.077	.087	.078	.077	30.033
" 23,...	.087	.076	.069	.058	.036	.063	.083	.091	.097	.098	.088	.073	30.045	30.027	30.024	30.033	30.054	.079	.098	.135	.143	.164	.159	.153	.085
" 24,...	.143	.145	.146	.142	.150	.159	.178	.203	.216	.213	.195	.184	.154	.134	.131	.134	.153	.167	.171	.181	.198	.211	.217	.209	.172
" 25,...	.210	.205	.195	.188	.195	.206	.219	.235	.247	.243	.228	.194	.148	.132	.124	.124	.143	.153	.164	.187	.188	.193	.185	.175	.187
" 26,...	.156	.137	.128	.123	.131	.142	.151	.160	.164	.153	.130	.097	.054	.030	.021	.024	.032	.041	.049	.061	.075	.074	.073	.079	.095
" 27,...	.061	.053	.046	.046	.043	.051	.067	.092	.098	.095	.064	.045	.003	29.983	29.987	29.983	29.990	.012	.032	.038	.056	.065	.071	.056	.043
" 28,...	.052	.042	.034	.024	.028	.036	.046	.062	.076	.076	.049	.016	29.987	.976	.967	.966	.985	.002	.019	.030	.040	.044	.044	.036	.027
" 29,...	.040	.033	.030	.029	.034	.054	.085	.103	.103	.091	.058	.029	.990	.976	.959	.967	.974	29.986	.021	.040	.052	.056	.052	.046	.034
" 30,...	.047	.044	.042	.041	.042	.064	.070	.085	.092	.095	.074	.051	30.015	30.001	30.001	30.013	30.031	30.040	.059	.080	.094	.101	.093	.098	.057
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.945	29.936	29.928	29.923	29.928	29.944	29.960	29.977	29.990	29.987	29.969	29.945	29.913	29.897	29.892	29.896	29.908	29.919	29.937	29.952	29.962	29.967	29.965	29.960	29.942

TABLE II.

TEMPERATURE FOR THE MONTH OF NOVEMBER, 1897.

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,	76.0	75.9	75.4	75.8	75.7	75.6	76.0	76.8	79.1	78.6	80.2	79.8	78.2	78.6	77.8	77.5	76.4	76.0	75.3	75.8	74.9	75.3	76.0	75.1	76.8	81.4	74.1
„ 2,	74.3	74.6	74.9	74.6	73.8	74.0	75.4	77.8	80.0	81.4	82.9	81.5	81.7	82.5	81.3	81.6	78.9	77.3	76.6	76.3	76.1	75.1	75.2	74.9	77.6	82.9	73.5
„ 3,	75.0	74.7	74.8	74.3	74.1	74.4	76.0	77.3	79.2	80.8	81.6	81.7	81.8	83.1	81.9	81.5	79.7	77.8	77.2	77.0	76.5	75.8	75.5	75.7	77.8	85.0	74.1
„ 4,	75.6	75.5	75.8	75.3	75.0	74.3	76.6	78.5	79.8	80.6	82.7	84.0	84.6	84.6	83.7	82.6	80.5	78.5	78.1	78.0	77.8	77.4	76.6	76.3	78.8	85.6	73.7
„ 5,	76.3	75.8	75.6	76.2	76.1	76.4	78.2	78.8	82.1	82.8	84.1	83.0	81.8	80.8	79.5	79.0	78.8	77.7	77.7	77.6	77.8	77.6	77.7	77.8	78.7	85.0	75.4
„ 6,	77.0	77.3	76.9	76.4	76.3	75.8	77.0	78.1	80.1	82.1	82.0	83.9	83.3	79.4	79.0	77.6	77.0	77.0	76.9	76.9	76.7	76.6	76.5	76.3	78.2	83.9	75.4
„ 7,	76.2	75.9	75.8	74.9	74.8	73.8	73.2	73.2	74.5	75.6	75.8	75.0	75.0	74.6	74.7	74.6	73.6	73.2	72.5	73.2	73.7	74.5	71.3	70.6	74.2	76.3	70.3
„ 8,	71.5	71.5	71.6	71.8	72.1	72.8	73.1	73.1	74.6	76.1	75.8	76.4	76.4	76.6	76.2	76.2	75.6	75.5	75.1	75.6	75.9	75.6	74.8	74.6	74.5	77.3	70.5
„ 9,	74.6	74.6	74.9	74.7	74.7	74.8	74.8	75.2	75.3	75.0	77.0	77.6	77.7	77.5	77.8	77.6	76.6	75.9	75.2	75.4	75.8	74.9	74.5	74.4	75.7	78.3	74.2
„ 10,	75.0	74.6	75.2	75.1	75.0	74.6	75.5	76.0	77.5	79.3	78.1	78.2	77.3	77.5	76.9	75.1	75.0	74.6	74.5	74.7	74.8	74.7	74.6	74.4	75.8	79.3	74.0
„ 11,	74.1	73.8	73.8	73.6	73.1	73.4	73.0	72.7	73.5	77.0	76.2	79.5	78.4	77.4	75.4	74.6	73.8	73.8	74.3	74.0	74.2	74.4	74.0	74.1	74.7	79.8	72.5
„ 12,	75.0	74.9	73.5	73.5	73.3	73.0	73.4	73.9	77.0	77.5	77.6	77.2	78.0	78.5	76.8	76.0	74.8	74.5	74.5	74.3	74.3	74.4	74.0	74.1	75.2	79.2	72.5
„ 13,	74.0	73.8	73.6	73.4	73.2	72.9	73.9	74.5	76.0	76.6	78.0	77.7	77.8	77.2	76.8	75.5	75.4	75.2	75.1	75.2	75.3	75.2	74.7	74.5	75.2	78.9	72.8
„ 14,	74.3	74.0	73.8	73.7	74.0	74.1	74.8	75.0	76.4	78.5	78.8	78.2	77.4	76.9	76.6	76.1	75.8	74.7	74.7	74.5	75.2	75.5	75.6	75.7	75.6	79.6	73.7
„ 15,	75.7	75.6	75.7	75.6	75.9	75.8	75.6	76.6	76.8	78.6	79.0	79.6	78.7	79.9	78.6	77.0	76.7	76.9	76.6	76.5	76.3	76.4	76.2	76.5	77.0	81.5	75.2
„ 16,	76.8	76.7	76.8	76.8	77.3	77.6	76.3	77.6	78.2	77.8	78.7	79.2	78.2	78.0	77.4	77.4	76.1	75.3	77.3	77.4	76.9	76.8	75.1	73.6	77.1	79.6	73.6
„ 17,	74.5	74.4	72.7	70.5	65.1	64.4	64.2	64.2	64.6	66.1	66.9	67.5	66.1	66.1	65.6	66.8	67.8	67.8	64.8	66.4	63.0	61.0	60.8	60.4	66.3	75.0	59.8
„ 18,	60.2	60.3	60.5	60.6	60.6	60.8	60.5	62.0	62.6	63.8	64.9	65.7	67.0	66.8	67.4	66.1	65.7	65.1	65.6	65.3	64.7	64.6	64.3	63.9	63.7	67.4	59.6
„ 19,	63.7	63.3	62.9	63.2	63.2	63.3	63.2	63.8	63.9	66.0	66.0	67.0	66.9	66.0	64.8	63.8	62.8	63.8	62.8	64.6	63.8	63.2	62.5	61.2	64.0	68.0	61.2
„ 20,	61.0	60.8	61.0	61.7	61.1	61.7	60.6	61.3	62.6	63.7	64.4	64.0	65.4	65.8	65.1	64.8	64.3	64.0	64.6	65.0	64.6	64.4	63.6	63.0	63.3	65.8	59.7
„ 21,	63.4	62.6	62.8	62.5	63.3	63.8	65.8	66.3	66.8	69.2	71.4	72.7	73.3	71.6	71.0	70.9	70.0	69.5	69.2	69.2	69.0	68.2	67.5	66.4	67.8	75.0	62.0
„ 22,	66.9	65.9	64.6	65.3	64.2	65.3	64.7	67.4	71.8	71.0	73.2	72.6	75.0	72.0	72.5	71.4	70.0	69.4	69.0	67.5	66.2	65.5	64.8	63.8	68.3	75.8	63.2
„ 23,	63.0	61.5	61.2	60.3	60.1	59.2	59.5	61.5	61.7	63.0	64.5	66.7	66.0	66.3	63.0	64.1	62.3	60.8	60.2	60.2	58.9	57.6	57.3	57.1	61.5	67.7	57.1
„ 24,	56.7	55.3	54.8	55.0	53.7	54.3	54.0	57.6	59.0	61.0	61.2	62.5	63.6	63.5	62.7	63.8	61.4	59.4	59.6	57.6	58.0	57.5	55.9	55.9	58.5	65.7	52.3
„ 25,	55.0	54.1	54.4	53.3	52.3	52.7	53.0	56.0	56.5	58.5	60.4	62.0	62.5	61.5	62.8	63.0	60.6	60.2	58.8	59.4	57.2	57.5	56.4	55.5	57.6	65.3	51.1
„ 26,	55.0	54.8	54.2	54.3	53.4	52.5	53.4	56.7	57.8	60.0	60.8	62.9	62.9	64.5	64.6	63.0	61.8	60.5	59.8	59.9	59.6	58.2	57.7	55.7	58.5	66.0	51.5
„ 27,	56.6	55.8	55.1	53.9	52.8	53.6	51.9	57.0	59.6	62.5	64.6	65.3	66.0	66.9	65.0	64.7	61.7	61.1	60.5	62.2	61.2	59.4	58.5	58.1	59.8	68.5	51.4
„ 28,	58.2	56.5	56.5	57.1	56.9	57.4	57.8	59.6	61.0	62.8	63.8	65.6	63.2	64.0	66.5	65.5	63.5	63.1	61.8	60.6	60.2	59.8	58.3	58.6	60.8	67.9	54.9
„ 29,	57.8	57.2	56.3	56.7	56.1	55.2	55.8	58.6	60.8	63.8	64.2	66.5	65.6	66.2	65.0	63.8	61.7	61.3	60.7	60.2	58.7	59.8	59.5	61.6	60.5	68.1	53.8
„ 30,	59.6	58.0	57.2	57.0	56.3	54.0	56.0	58.5	61.5	65.6	66.6	66.5	66.3	67.1	65.3	64.4	63.2	62.0	62.0	62.3	60.4	60.9	61.9	60.8	61.4	68.8	53.5
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	68.4	68.0	67.7	67.6	67.1	67.0	67.4	68.9	70.4	71.8	72.7	73.3	73.2	73.0	72.4	71.9	70.7	70.1	69.7	69.8	69.3	68.9	68.4	68.0	69.8	75.3	65.6

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF NOVEMBER, 1897.

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, ...	71.8	71.2	70.7	70.7	71.6	71.5	71.6	71.1	72.2	70.6	72.3	70.0	70.1	70.5	70.5	70.5	69.9	70.1	70.2	70.3	71.1	70.9	71.7	71.9	71.0	144.7
„ 2, ...	71.7	71.5	71.9	71.6	71.2	71.7	71.7	72.8	73.1	72.0	73.9	72.7	74.0	73.4	73.5	72.6	73.2	73.1	72.7	72.6	73.2	72.9	73.0	72.4	72.6	133.9
„ 3, ...	72.2	71.8	71.7	71.7	71.6	71.9	72.4	73.0	72.8	73.9	73.0	74.6	74.2	74.9	74.9	75.6	74.6	74.4	74.3	74.3	74.1	73.7	73.9	74.1	73.5	134.1
„ 4, ...	74.2	74.1	74.4	73.4	73.1	72.9	73.7	74.0	74.3	74.5	74.0	76.8	75.7	76.4	75.0	74.7	75.3	75.1	75.0	74.9	75.2	74.9	74.8	74.6	74.6	135.6
„ 5, ...	74.6	74.7	73.6	72.6	72.2	72.6	73.3	73.2	73.6	73.4	74.7	73.7	73.9	74.2	74.7	74.7	73.1	73.5	73.5	72.9	72.6	72.8	72.9	72.8	73.5	137.4
„ 6, ...	71.5	71.2	71.0	70.7	70.1	69.4	69.6	69.9	70.6	71.7	71.5	72.7	72.5	72.3	72.8	73.4	72.6	73.2	73.1	73.0	73.1	72.8	72.8	72.5	71.8	143.3
„ 7, ...	72.8	72.7	72.5	70.9	70.8	69.6	69.4	70.9	70.2	71.1	70.3	69.6	69.7	69.6	70.5	70.3	70.3	71.1	71.1	70.8	70.5	70.3	69.6	69.4	70.6	102.5
„ 8, ...	69.7	69.2	68.7	68.8	68.8	69.0	69.3	69.6	69.3	70.1	69.5	69.1	68.6	69.1	69.6	69.3	69.9	71.7	71.6	70.0	70.1	69.9	70.1	69.6	69.6	127.8
„ 9, ...	69.6	69.1	69.4	69.5	69.3	69.2	69.1	69.1	69.8	69.3	69.2	68.1	67.9	67.9	67.9	67.6	67.6	67.3	68.1	68.3	69.0	69.9	70.2	68.9	68.8	123.8
„ 10, ...	68.2	67.9	67.8	67.6	67.7	67.4	67.0	67.5	67.6	68.9	68.1	68.6	68.5	68.7	69.7	69.7	68.9	69.4	68.7	69.5	69.2	68.6	67.6	66.9	68.3	135.8
„ 11, ...	65.6	65.4	64.2	65.2	65.3	64.7	65.9	65.5	65.0	65.9	66.0	67.9	67.1	67.5	69.0	67.6	66.6	66.2	67.1	66.9	68.3	68.9	68.8	69.0	66.6	138.1
„ 12, ...	68.9	68.8	68.5	68.9	68.2	67.5	67.5	67.3	68.0	68.1	67.4	67.9	68.6	68.3	68.5	68.6	68.8	68.8	69.9	69.6	69.9	69.8	69.8	70.0	68.7	135.1
„ 13, ...	69.6	69.5	68.7	68.2	68.4	68.3	67.8	67.9	68.0	69.1	68.7	69.3	69.6	69.9	70.6	70.2	70.0	70.8	70.5	71.0	71.2	70.6	70.9	70.7	69.6	143.6
„ 14, ...	70.9	70.6	70.7	70.7	70.6	70.5	70.7	70.9	71.0	71.9	71.7	71.4	71.6	71.2	71.3	70.8	71.6	71.7	71.7	71.6	72.1	72.6	72.6	72.8	71.4	133.0
„ 15, ...	72.8	72.7	72.8	72.7	72.8	72.7	73.4	72.2	72.3	73.0	73.5	72.6	72.4	72.9	72.3	72.5	72.3	71.9	72.4	72.3	72.4	72.1	72.5	72.0	72.6	140.3
„ 16, ...	72.2	72.0	71.6	71.6	71.4	70.5	70.6	70.1	71.3	71.1	71.9	72.1	71.9	72.0	72.1	71.3	71.5	71.6	72.0	71.6	72.9	73.0	72.6	72.7	71.7	121.0
„ 17, ...	72.5	72.6	72.6	69.9	65.0	63.3	62.2	62.3	62.3	62.2	63.4	64.0	62.9	63.0	64.3	65.6	66.6	65.8	64.5	65.2	62.1	59.9	59.5	59.3	64.6	103.8
„ 18, ...	59.0	58.6	58.8	58.7	58.9	59.3	59.2	58.8	59.6	61.1	61.9	61.8	62.1	62.5	62.0	61.1	60.0	60.7	60.6	59.9	59.6	59.6	60.1	59.6	60.1	99.9
„ 19, ...	59.3	58.7	58.8	59.2	58.9	59.0	59.2	59.1	58.9	60.4	60.5	61.4	61.4	61.0	60.5	60.0	60.4	59.1	59.6	59.6	59.8	59.3	59.0	58.9	59.7	92.4
„ 20, ...	58.3	58.1	58.0	58.2	57.2	57.1	57.0	57.4	57.7	58.6	59.6	59.1	58.7	59.6	59.6	59.5	59.5	59.5	60.0	60.2	59.5	59.5	60.0	59.7	58.8	87.0
„ 21, ...	59.5	59.4	59.0	59.1	59.2	59.7	59.9	60.6	61.8	62.2	63.9	64.7	65.8	64.6	64.7	64.6	63.8	64.3	64.5	64.9	65.2	66.1	65.8	65.8	62.9	129.7
„ 22, ...	65.6	63.4	62.0	61.2	61.2	61.0	60.8	61.5	64.1	63.3	64.1	64.8	65.3	62.9	63.6	63.2	62.1	62.3	61.2	58.6	58.1	57.3	55.4	55.9	61.6	137.1
„ 23, ...	54.5	52.9	52.2	51.1	50.5	50.2	50.6	51.6	52.0	53.2	53.9	54.9	54.0	54.1	53.9	53.3	51.7	50.3	49.9	48.9	47.7	46.9	47.5	46.6	51.3	121.3
„ 24, ...	46.8	47.1	47.1	46.8	46.6	46.0	44.4	46.0	47.4	48.0	47.9	46.8	48.6	47.8	47.0	48.3	47.9	46.8	46.7	46.4	46.2	46.3	46.6	45.7	46.9	121.5
„ 25, ...	45.0	45.1	44.8	44.2	43.9	43.6	44.5	45.0	44.9	46.0	47.3	47.9	48.5	48.2	48.1	48.3	46.5	44.9	44.3	44.6	44.4	43.4	43.8	43.8	45.5	120.8
„ 26, ...	43.4	43.0	42.7	42.2	42.2	42.2	43.0	44.2	44.7	45.1	44.4	45.2	45.2	47.0	48.0	47.0	47.1	45.4	45.6	45.3	46.3	45.3	45.6	45.2	44.8	123.2
„ 27, ...	44.6	44.1	43.6	43.6	44.0	43.6	42.6	44.5	44.9	46.7	47.9	48.1	49.0	50.0	48.9	47.6	46.2	46.0	45.1	45.5	45.7	45.6	45.7	45.6	45.8	127.2
„ 28, ...	45.6	45.1	44.6	44.6	44.6	44.6	44.3	45.0	46.7	47.7	48.5	48.9	49.2	49.5	49.3	50.2	49.5	49.2	51.5	51.1	51.6	51.9	50.5	48.6	48.0	122.0
„ 29, ...	47.5	47.3	46.2	45.3	45.0	44.6	45.1	46.5	48.0	49.7	50.6	51.3	50.4	51.6	50.3	52.2	51.8	51.5	51.4	51.0	52.6	52.5	53.3	53.7	49.6	115.3
„ 30, ...	52.8	52.0	50.0	49.1	48.1	46.2	45.9	47.2	49.5	53.0	53.3	54.1	54.9	54.9	53.8	54.2	53.0	52.3	53.3	52.0	51.7	51.7	51.6	52.2	51.5	122.6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	63.0	62.7	62.3	61.9	61.6	61.3	61.4	61.8	62.4	63.1	63.4	63.7	63.7	63.8	63.9	63.8	63.4	63.3	63.3	63.1	63.2	63.0	62.9	62.7	62.9	125.1

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF NOVEMBER, 1897.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1897.		
1 a.	71	0.534	Nov. 1,.....	74	0.682
2 „	72	.529	„ 2,.....	78	.735
3 „	71	.520	„ 3,.....	81	.769
4 „	72	.522	„ 4,.....	81	.802
5 „	71	.505	„ 5,.....	77	.758
6 „	69	.497	„ 6,.....	72	.695
7 „	68	.495	„ 7,.....	84	.702
8 „	64	.488	„ 8,.....	77	.660
9 „	60	.487	„ 9,.....	69	.613
10 „	57	.492	„ 10,.....	66	.593
11 „	56	.490	„ 11,.....	64	.546
Noon.	56	.492	„ 12,.....	71	.616
1 p.	56	.494	„ 13,.....	75	.650
2 „	57	.499	„ 14,.....	80	.714
3 „	59	.511	„ 15,.....	80	.742
4 „	61	.515	„ 16,.....	75	.706
5 „	64	.517	„ 17,.....	91	.588
6 „	66	.521	„ 18,.....	80	.473
7 „	67	.527	„ 19,.....	77	.456
8 „	66	.519	„ 20,.....	75	.438
9 „	69	.529	„ 21,.....	75	.509
10 „	69	.527	„ 22,.....	66	.460
11 „	71	.531	„ 23,.....	44	.245
Midt.	72	.530	„ 24,.....	35	.169
			„ 25,.....	31	.147
			„ 26,.....	24	.118
			„ 27,.....	25	.126
			„ 28,.....	31	.167
			„ 29,.....	40	.213
			„ 30,.....	45	.251
			.....	...	...
Means,.....	65	0.511	Means.	65	0.511

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.
1897.														
Nov. 1,.....	...	...	0.2	0.9	1.0	1.0	0.9	0.8	1.0	1.0	1.0	0.5	...	8.3
„ 2,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.6
„ 3,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.0
„ 4,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.5
„ 5,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	10.0
„ 6,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.1	...	...	7.2
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	...	...	...	...	0.2	...	...	...	...	0.2
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	0.1	...	0.1	0.9	0.5	1.0	1.0	0.9	...	...	0.1	...	4.6
„ 11,.....	...	...	...	...	0.2	0.3	0.3	0 2	0.2	...	...	...	...	1.2
„ 12,.....	...	0.2	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.3
„ 13,.....	...	...	...	...	...	0.7	1.0	0.9	1.0	0.8	0.5	...	...	4.9
„ 14,.....	...	...	...	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	7.5
„ 15,.....	...	...	0.5	0.4	1.0	1.0	0.8	1.0	0.9	0.2	...	...	...	5.8
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	0.1	...	...	...	...	...	...	...	...	0.1
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	0.1	0.5	1.0	1.0	0.8	...	0.1	...	...	3.5
„ 22,.....	...	...	0.7	0.9	0.4	0.9	0.4	0.8	0.2	0.3	...	...	...	4.6
„ 23,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 24,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 25,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 26,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.3
„ 27,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.5	0.6	0.2	...	8.5
„ 28,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.2
„ 29,.....	...	0 5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	10.0
„ 30,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	6.5	15.2	16.8	18.5	19.9	20.4	20.7	19.5	16.2	15.3	7.1	...	176.1

TABLE VI.

RAINFALL FOR THE MONTH OF NOVEMBER, 1897.

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.
Nov. 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	0.005	0.005	0.015	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	0.005	0.010	0.050	10
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	1
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	0.020	0.005	...	...	...	...	0.025	0.190	0.540	0.785	4
" 17,	0.110	0.085	0.355	1.270	1.620	0.360	0.420	0.060	0.120	...	...	...	0.010	0.010	0.430	0.280	0.130	0.040	0.315	0.145	0.060	0.010	0.020	0.025	5.875	20
" 18,	0.015	...	...	0.015	0.010	0.005	0.010	...	0.010	0.010	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	0.080	8
" 19,	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	0.020	0.005	...	0.010	...	0.005	...	0.005	0.015	0.060	0.125	7
" 20,	0.005	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.050	0.015	0.015	0.090	3
" 22,	0.130	0.065	0.095	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.300	4
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.260	0.150	0.450	1.285	1.640	0.370	0.450	0.075	0.130	0.015	...	...	0.015	0.010	0.450	0.305	0.135	0.050	0.320	0.150	0.070	0.095	0.245	0.650	7.320	58

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF NOVEMBER, 1897.

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.	7	23	7	32	7	25	7	26	7	24	7	22	7	21	8	20	7	20	9	17	10	15	9	15	9	16	9	17	9	20	10	17	10	14	7	11	7	6	7	3	7	4	6	7	6	8	7	3	386	16.1	8
" 2.	...	0	6	7	7	7	5	6	5	6	5	7	5	3	5	2	5	3	5	3	5	6	25	7	23	10	25	9	25	5	19	4	18	5	17	4	...	1	17	3	17	2	17	4	10	6	9	6	116	4.8	7
" 3.	10	5	10	7	9	3	9	3	7	4	8	6	8	7	8	6	8	8	9	5	9	5	25	5	25	7	25	3	25	10	25	7	25	8	25	4	25	4	...	0	25	2	25	2	25	3	...	0	114	4.7	4
" 4.	...	1	...	1	...	0	...	1	...	0	..	0	...	0	25	2	25	5	25	7	24	7	24	8	24	8	24	8	24	7	25	4	17	6	16	2	...	1	...	0	...	1	...	1	...	1	15	4	75	3.1	23
" 5.	14	7	14	6	11	8	6	8	6	8	6	9	7	9	7	8	9	9	8	12	9	15	10	21	10	21	9	22	9	24	9	25	8	19	8	16	7	9	5	6	6	9	6	12	7	12	8	7	302	12.6	8
" 6.	7	2	7	3	7	4	1	12	1	13	2	10	2	6	...	1	8	4	9	11	6	13	8	14	10	17	10	21	10	22	9	22	7	19	7	18	7	18	7	21	7	20	8	20	8	22	7	20	333	13.9	7
" 7.	7	22	7	21	7	21	5	13	3	15	6	12	5	15	7	25	7	27	5	27	4	26	5	21	8	23	7	26	7	21	7	18	7	16	8	16	8	15	7	18	7	17	7	14	6	12	8	13	454	18.9	6
" 8.	6	15	7	18	8	12	5	7	6	7	6	12	6	16	5	11	7	15	8	23	8	23	7	21	8	17	8	17	8	21	7	19	7	17	8	21	8	15	7	19	7	17	7	18	7	18	8	15	394	16.4	7
" 9.	7	16	5	15	6	14	6	11	6	13	5	14	5	12	5	11	6	16	4	14	5	13	4	17	7	16	6	18	5	19	4	20	5	17	6	10	5	9	5	11	7	24	7	25	7	23	5	19	377	15.7	6
" 10.	5	15	5	17	5	18	5	26	5	19	4	21	3	17	3	14	4	14	3	15	7	22	7	26	8	22	8	22	8	24	8	24	7	22	7	24	7	26	7	28	7	32	7	35	6	33	7	32	548	22.8	6
" 11.	6	28	2	30	6	22	6	14	4	17	3	12	3	7	1	8	1	11	5	12	5	19	6	12	5	14	7	13	9	17	5	12	2	8	3	6	4	9	7	13	7	18	6	20	7	22	7	25	369	15.4	5
" 12.	7	25	7	26	7	24	7	26	6	18	6	16	5	16	4	16	5	15	7	15	9	20	11	18	10	14	10	13	11	13	10	23	9	20	8	17	7	20	7	20	7	18	7	20	7	22	7	23	458	19.1	7
" 13.	7	23	6	24	6	20	6	20	6	15	7	15	7	21	6	18	7	23	6	25	8	28	8	23	9	22	9	21	9	19	9	20	8	14	8	16	7	12	6	15	7	16	7	14	7	17	7	18	459	19.1	7
" 14.	7	20	7	26	7	28	6	24	7	21	8	22	7	15	8	20	7	17	7	15	9	21	8	26	9	27	8	22	9	22	7	20	8	16	8	18	7	15	7	15	7	14	7	14	7	17	7	17	472	19.7	8
" 15.	7	18	7	22	7	23	7	20	7	22	7	20	7	16	7	21	8	20	9	20	9	19	8	20	7	23	7	20	8	22	8	23	7	17	7	15	7	14	7	13	8	12	9	13	7	15	8	18	446	18.6	8
" 16.	8	17	9	15	7	14	7	17	7	18	8	18	7	18	6	17	7	26	7	26	8	29	8	25	9	25	9	23	7	27	9	27	7	24	6	18	7	20	8	24	7	24	7	27	6	31	8	30	540	22.5	7
" 17.	7	34	7	34	5	25	22	15	32	15	1	7	2	20	2	16	3	13	2	14	2	11	5	22	12	31	10	31	9	29	7	35	9	39	10	41	7	33	7	26	32	10	31	13	32	10	31	9	533	22.2	6
" 18.	1	13	32	21	1	23	32	22	32	13	32	11	32	6	32	9	32	10	...	1	32	4	32	7	32	6	32	10	32	8	32	11	1	10	1	4	1	9	2	10	2	13	3	12	2	7	2	8	248	10.3	1
" 19.	2	11	2	6	2	15	32	14	1	13	32	12	32	11	2	6	1	11	2	9	1	11	1	10	32	11	32	8	32	9	32	9	32	12	32	9	32	11	6	12	32	11	1	12	1	9	1	11	253	10.5	1
" 20.	5	15	31	14	1	10	32	12	32	10	1	9	1	9	1	8	1	10	1	4	1	5	1	7	1	6	5	12	6	11	5	8	6	10	5	7	4	9	4	10	3	6	3	6	3	5	3	3	206	8.6	3
" 21.	2	3	2	2	2	4	...	1	...	0	...	0	2	11	1	10	1	3	1	6	1	2	1	4	7	10	10	18	10	16	8	14	8	12	6	8	5	10	3	7	3	6	3	8	3	2	3	4	161	6.7	5
" 22.	2	11	32	13	2	12	2	14	2	11	3	10	2	9	2	9	5	5	1	5	3	10	8	5	18	8	22	6	1	8	1	6	1	5	1	6	1	14	2	14	32	8	2	8	1	18	16	7	222	9.3	2
" 23.	6	7	32	11	32	11	32	21	1	27	3	10	5	9	32	15	1	22	2	19	1	21	1	18	32	17	1	17	2	20	1	15	32	17	32	12	1	17	1	23	1	30	2	23	2	24	1	27	433	18.0	1
" 24.	1	24	31	7	32	8	1	18	32	8	1	15	1	14	32	11	32	11	2	9	1	14	1	10	31	11	1	13	1	13	1	14	32	14	32	9	1	16	1	18	32	23	1	15	1	5	1	13	313	13.0	1
" 25.	1	12	1	5	1	10	1	13	32	10	1	12	32	6	32	10	32	16	32	16	32	16	32	16	31	12	32	11	32	10	32	8	32	8	32	9	32	4	32	5	32	6	1	8	1	11	1	13	247	10.3	32
" 26.	1	25	32	24	32	21	32	16	32	9	32	8	...	1	31	10	31	13	1	16	1	19	32	13	32	17	2	11	32	8	1	6	32	8	1	9	32	9	32	14	32	20	1	17	1	21	1	12	327	13.6	32
" 27.	1	19	1	19	1	9	2	5	2	2	32	2	32	2	32	7	32	5	32	11	2	8	3	6	32	7	32	8	32	9	1	9	1	9	2	5	1	13	1	20	1	13	32	16	32	14	32	13	231	9.6	1
" 28.	1	9	32	12	32	13	32	24	32	23	1	24	32	30	32	27	1	20	1	15	32	9	6	14	7	7	10	4	3	5	4	7	3	6	3	7	3	2	3	3	9	2	9	2	...	1	2	9	275	11.5	1
" 29.	1	15	1	15	32	19	1	23	32	23	32	15	1	9	2	8	2	5	4	9	7	14	9	10	9	12	6	8	3	6	11	12	12	13	10	9	7	6	7	4	9	4	...	1	9	11	6	16	267	11.1	4
" 30.	2	11	1	12	1	12	2	22	3	19	1	11	2	18	2	8	3	6	4	7	3	8	2	7	7	10	6	10	7	13	5	9	3	4	3	3	3	2	3	6	32	5	3	3	1	8	1	10	224	9.3	3
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums.	...	416	...	465	...	435	...	454	...	403	...	362	...	354	...	354	...	383	...	388	...	433	...	428	...	447	...	442	...	458	...	448	...	409	...	354	...	349	...	381	...	387	...	390	...	408	...	405	9783	407.6	...
Means.	...	14.9	...	15.5	...	14.5	...	15.1	...	13.4	...	12.1	...	11.8	...	11.8	...	12.8	...	12.9	...	14.4	...	14.3	...	14.9	...	14.7	...	15.3	...	14.9	...	13.6	...	11.8	...	11.6	...	12.7	...	12.9	...	13.0	...	13.6	...	13.5	326.1	13.6	...

TABLE VIII.

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
1897.												
Nov. 1, ...	10	cum.	ENE	10	cum.	ENE	9	sm-cum. / cum.	ENE	4	c-cum. / sm-cum. / cum.	WSW / ENE
„ 2, ...	5	str-cum.	...	3	cum.	...	0	...	...	1	c-cum. / cum.	...
„ 3, ...	2	c-str.	...	8	cum.	...	1	cum.	...	1	cum.	...
„ 4, ...	9	cum.	WNW	2	cum.	...	0	...	...	1	c-cum. / cum.	...
„ 5, ...	0	...	...	0	...	...	1	c-cum. / cum.	...	1	c-cum. / cum.	NE
„ 6, ...	4	sm-cum. / cum.	ENE	2	cum.	...	3	c-str.	SW	2	c-str. / sm-cum.	...
„ 7, ...	10	nim.	ENE	10	nim.	...	10	nim.	ENE	10	R-cum.	ENE
„ 8, ...	10	nim.	ENE	10	str-cum.	ENE	10	cum.	ENE	9	sm-cum. / cum.	ENE
„ 9, ...	9	sm-cum. / cum.	E	10	cum.	E	10	str. / cum.	ENE	10	str. / nim.	ENE
„ 10, ...	10	sm-cum.	SW	10	sm-cum. / cum.	SW / ENE	8	sm-cum. / cum.	ENE	8	sm-cum. / cum.	SW / ENE
„ 11, ...	9	cum.	ENE	10	cum.	ENE	9	c-cum. / cum.	ENE	9	c-cum. / cum.	ENE
„ 12, ...	10	str-cum.	ENE	10	R-cum.	NE	7	sm-cum. / cum.	ENE	6	c-cum. / cum.	ENE
„ 13, ...	8	c-cum. / cum.	ENE	3	cum.	ENE	9	sm-cum. / cum.	ENE	9	sm-cum. / cum.	ENE
„ 14, ...	6	cum.	ENE	10	cum.	ENE	8	cum.	ENE	2	c-cum. / cum.	ENE
„ 15, ...	10	cum.	E	9	cum.	E	9	sm-cum. / cum.	ENE	5	sm-cum. / cum.	SSW / ENE
„ 16, ...	10	cum.	E	10	cum.	ENE	10	nim.	ENE	10	str-cum.	ENE
„ 17, ...	10	nim.	...	10	nim.	...	10	nim.	SE	10	nim.	SE
„ 18, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	...
„ 19, ...	10	cum-nim.	...	10	str-cum.	...	10	nim.	...	10	str-cum.	...
„ 20, ...	10	nim.	...	10	str.	...	10	nim.	...	10	str-cum.	...
„ 21, ...	10	str-cum.	...	9	cum.	...	8	cum.	ENE	9	cum.	ENE
„ 22, ...	10	nim.	...	10	nim.	NE	10	cum.	NE	9	sm-cum. / cum.	WNW / ..
„ 23, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 24, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 25, ...	0	...	...	0	...	...	1	c-cum.	WSW	1	c-cum.	...
„ 26, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 27, ...	0	...	...	0	...	...	2	c-str.	WSW	6	c-str.	WSW
„ 28, ...	0	...	...	0	...	...	2	c-cum.	...	1	c-cum.	...
„ 29, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 30, ...	0	...	...	0	...	...	0	...	...	0	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	6.1	...	...	5.9	...	...	5.6	...	...	5.1	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Nov. 1,...	1	sm-cum. / cum.	...	2	c-cum.	W	3	c-str.	...	3	c-str. / cum.	...	5.2
„ 2,...	2	cum.	NNE	5	sm-cum. / cum.	NNE	0	...	...	0	...	...	2.0
„ 3,...	2	cum.	...	0	...	...	0	...	...	0	...	...	1.8
„ 4,...	4	c-cum. / cum.	...	1	c-cum.	...	0	...	...	0	...	...	2.1
„ 5,...	0	...	...	2	cum.	E	6	cum.	NE	1	cum.	...	1.4
„ 6,...	8	c-cum. / cum.	ENE	9	c-cum. / cum.	ENE	10	cum.	ENE	10	cum.	ENE	6.0
„ 7,...	10	sm-cum. / cum.	ENE	10	cum.	ENE	10	nim.	NE	10	nim.	ENE	10.0
„ 8,...	9	sm-cum. / cum.	E	10	sm-cum. / cum.	ENE	10	sm-cum. / str-cum.	ENE	10	cum.	E	9.7
„ 9,...	9	c-cum. / str.	ENE	9	sm-cum. / cum.	WSW / ENE	7	sm-cum.	W	10	sm-cum. / cum.	ENE	9.3
„ 10,...	6	sm-cum. / cum.	WSW / ENE	9	sm-cum. / cum.	ENE	10	cum.	ENE	10	cum.	ENE	8.9
„ 11,...	10	sm-cum. / cum.	ENE	10	str-cum.	ENE	10	str-cum.	...	10	cum.	ENE	9.6
„ 12,...	4	c-cum. / cum.	S / N	5	c-cum.	...	3	c-cum. / cum.	...	9	cum.	ENE	6.7
„ 13,...	7	c-str.	E	8	c-str. / sm-cum.	E	10	cum.	ENE	9	cum.	ENE	7.9
„ 14,...	1	c-cum. / cum.	...	6	c-str. / cum.	ENE	1	cum.	...	7	cum.	ENE	5.1
„ 15,...	6	sm-cum. / cum.	ENE	10	sm-cum. / cum.	ENE	10	str-cum.	...	8	str-cum.	...	8.4
„ 16,...	10	sm-cum. / cum.	ESE	10	nim.	ESE	10	cum-nim.	...	10	nim.	...	10.0
„ 17,...	10	nim.	E	10	nim.	ENE	10	nim.	...	10	nim.	...	10.0
„ 18,...	10	nim.	N	10	str-cum.	N	10	str-cum.	...	10	str-cum.	...	10.0
„ 19,...	10	str-cum.	...	10	nim.	...	10	nim.	...	10	nim.	...	10.0
„ 20,...	10	str-cum.	...	10	str. / cum.	WNW / ..	10	str-cum.	...	10	str-cum.	...	10.0
„ 21,...	3	cum.	ENE	8	cum.	...	7	cum.	...	10	nim.	...	8.0
„ 22,...	8	sm-cum. / cum.	WNW / N	10	sm-cum. / cum.	N	10	str-cum.	...	10	str-cum.	...	9.6
„ 23,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 24,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 25,...	0	...	...	0	...	...	0	...	...	0	...	...	0.3
„ 26,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 27,...	7	c-cum.	...	8	c-cum.	...	0	...	...	0	...	...	2.9
„ 28,...	1	c-cum.	...	0	...	...	0	...	...	0	...	...	0.5
„ 29,...	0	...	...	0	...	...	0	...	...	2	cum.	...	0.2
„ 30,...	0	...	...	0	...	...	0	...	...	9	sm-cum. / cum.	NE	1.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	4.9	...	...	5.7	...	...	5.2	...	...	5.9	...	...	5.6

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF NOVEMBER, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	7.4	10.5	0.3	0.0	+ 7.1	+ 10.5	E 34° N
2 „	8.5	9.4	0.4	0.1	8.1	9.3	E 41° N
3 „	7.9	9.3	0.2	0.0	7.7	9.3	E 40° N
4 „	9.6	7.8	0.2	0.5	9.4	7.3	E 52° N
5 „	9.0	7.1	0.0	0.0	9.0	7.1	E 52° N
6 „	7.3	7.3	0.0	0.0	7.3	7.3	E 45° N
7 „	7.4	7.0	0.0	0.0	7.4	7.0	E 47° N
8 „	7.3	6.5	0.0	0.1	7.3	6.4	E 49° N
9 „	6.9	7.9	0.1	0.3	6.8	7.6	E 42° N
10 „	6.6	8.6	0.3	0.2	6.3	8.4	E 37° N
11 „	6.1	10.1	0.7	0.2	5.4	9.9	E 29° N
Noon.	5.1	10.2	0.8	0.7	4.3	9.5	E 24° N
1 p.	3.6	10.4	2.3	1.1	1.3	9.3	E 8° N
2 „	3.8	11.2	1.7	0.9	2.1	10.3	E 11° N
3 „	4.1	11.6	1.6	0.7	2.5	10.9	E 13° N
4 „	4.5	11.5	1.5	0.4	3.0	11.1	E 15° N
5 „	4.5	9.7	1.2	0.4	3.3	9.3	E 19° N
6 „	3.6	9.1	0.8	0.2	2.8	8.9	E 17° N
7 „	5.2	8.4	0.0	0.1	5.2	8.3	E 32° N
8 „	6.0	9.3	0.1	0.0	5.9	9.3	E 32° N
9 „	6.4	8.3	0.1	0.1	6.3	8.2	E 37° N
10 „	6.1	9.1	0.2	0.2	5.9	8.9	E 33° N
11 „	6.4	9.8	0.1	0.1	6.3	9.7	E 33° N
Midt.	5.7	9.5	0.4	0.1	+ 5.3	+ 9.4	E 29° N
Means, ...	6.2	9.2	0.5	0.3	+ 5.67	+ 8.88	E 33° N

PHENOMENA :—

Solar halo :—on the 13th and 27th.

Solar corona :—on the 14th.

Lunar halo :—on the 1st, 2nd, 4th and 11th.

Lunar corona :—on the 13th and 15th.

Slight fog :—on the 3rd and 4th.

Haze :—on the 2nd, 3rd, 4th and 27th.

Unusual Visibility :—on the 5th, 14th and 26th.

Dew :—on the 2nd, 3rd, 4th and 27th.

Rainbow :—on the 9th.

Thunderstorm :—on the 16th at 11.45 p—17th 6 a., S-N, nearest at 1.1 a (7').

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF DECEMBER, 1897.

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,...	30.096	30.086	30.084	30.088	30.097	30.112	30.138	30.162	30.177	30.178	30.150	30.127	30.080	30.058	30.055	30.061	30.066	30.081	30.100	30.120	30.140	30.152	30.149	30.143	30.112
„ 2,...	.136	.124	.110	.112	.116	.130	.142	.164	.167	.152	.138	.115	.080	.061	.056	.061	.077	.084	.099	.118	.119	.137	.115	.101	.113
„ 3,...	.099	.079	.071	.062	.049	.061	.068	.082	.116	.123	.099	.079	.046	.029	.023	.022	.033	.051	.067	.088	.104	.099	.101	.087	.072
„ 4,...	.084	.085	.079	.068	.068	.073	.087	.113	.135	.126	.119	.090	.051	.039	.038	.046	.068	.084	.106	.118	.132	.139	.126	.115	.091
„ 5,...	.103	.082	.078	.078	.078	.094	.114	.133	.159	.163	.148	.115	.080	.069	.056	.052	.062	.079	.106	.129	.127	.136	.147	.139	.105
„ 6,...	.127	.112	.096	.099	.107	.120	.144	.174	.194	.189	.184	.169	.137	.126	.129	.123	.129	.138	.158	.184	.193	.189	.181	.176	.149
„ 7,...	.168	.151	.129	.116	.110	.115	.122	.145	.173	.170	.145	.111	.073	.046	.037	.046	.056	.058	.067	.070	.086	.087	.077	.077	.101
„ 8,...	.072	.060	.048	.039	.028	.031	.045	.053	.065	.060	.039	.006	29.966	29.932	29.918	29.918	29.925	29.934	29.943	29.960	29.962	29.972	29.972	29.962	29.996
„ 9,...	29.960	29.946	29.932	29.927	29.920	29.929	29.946	29.956	29.964	29.962	29.936	29.912	.880	.861	.851	.855	.870	.880	.891	.907	.912	.915	.924	.928	.915
„ 10,...	.921	.912	.909	.908	.922	.940	.952	.976	.990	.994	.976	.959	.924	.907	.899	.913	.934	.962	.977	.986	30.004	30.026	30.030	30.037	.957
„ 11,...	30.039	30.040	30.042	30.047	30.058	30.076	30.097	30.123	30.150	30.154	30.146	30.127	30.097	30.081	30.071	30.072	30.085	30.098	30.113	30.128	.137	.134	.131	.127	30.099
„ 12,...	.123	.124	.117	.109	.101	.113	.129	.147	.163	.164	.138	.101	.052	.022	29.999	29.994	29.998	.017	.037	.042	.046	.049	.044	.039	.078
„ 13,...	.035	.018	.014	.010	.008	*.015	.029	.038	.050	.046	.031	.007	29.977	29.958	.949	.948	.953	29.958	29.980	29.989	29.996	29.998	29.994	29.988	.000
„ 14,...	29.987	29.979	29.974	29.973	29.976	29.992	.006	.029	.056	.058	.048	.021	.981	.981	.975	.981	30.000	30.018	30.031	30.037	30.047	30.052	30.054	30.049	.013
„ 15,...	30.041	30.030	30.029	30.025	30.028	30.042	.055	.082	.095	.094	.084	.063	30.033	30.015	.998	30.005	.021	.030	.061	.079	.081	.082	.077	.072	.051
„ 16,...	.062	.055	.050	.047	.045	.062	.068	.088	.093	.087	.070	.038	.005	29.988	.976	29.979	29.998	.008	.027	.054	.065	.069	.060	.056	.044
„ 17,...	.056	.041	.029	.033	.032	.047	.063	.091	.114	.120	.103	.064	.031	30.010	.993	.996	30.014	.022	.035	.054	.077	.086	.077	.026	.051
„ 18,...	.075	.069	.060	.063	.066	.077	.087	.113	.122	.119	.089	.065	.030	.006	.995	30.004	.023	.036	.043	.063	.075	.083	.085	.099	.064
„ 19,...	.100	.088	.076	.076	.084	.098	.117	.130	.144	.140	.102	.075	.036	.019	30.012	.022	.043	.068	.093	.116	.133	.145	.155	.165	.093
„ 20,...	.161	.161	.158	.155	.155	.170	.173	.195	.205	.204	.189	.164	.133	.118	.112	.118	.124	.135	.162	.173	.179	.194	.191	.186	.163
„ 21,...	.194	.193	.189	.192	.191	.201	.214	.230	.253	.244	.225	.199	.163	.142	.133	.132	.143	.164	.180	.195	.204	.208	.203	.206	.192
„ 22,...	.195	.194	.193	.190	.186	.202	.217	.245	.256	.267	.260	.232	.189	.161	.156	.161	.173	.195	.218	.237	.242	.248	.240	.232	.212
„ 23,...	.231	.227	211	.203	.213	.227	.235	.260	.282	.282	.268	.235	.210	.187	.177	.180	.184	.203	.220	.241	.258	.260	.246	.251	.229
„ 24,...	.250	.248	.241	.244	.252	.270	.289	.304	.309	.308	.312	.276	.247	.216	.201	.198	.218	.233	.238	.246	.260	.262	.257	.260	.256
„ 25,...	.258	.243	.237	.235	.239	.241	.250	.254	.262	.263	.242	.199	.159	.130	.108	.110	.114	.128	.139	.151	.153	.149	.147	.149	.190
„ 26,...	.151	.150	148	.156	.166	.184	.196	.206	.209	.207	.178	.135	.103	.083	.067	.068	.077	.095	.109	.127	.136	.133	.134	.134	.140
„ 27,...	.137	.135	.130	.137	.145	.154	.178	.199	.210	.193	.166	.138	.094	.075	.072	.083	.094	.099	.115	.122	.138	.137	.132	.127	.134
„ 28,...	.118	.110	.100	.092	.099	.102	.125	.139	.151	.147	.120	.088	.059	.039	.036	.041	.045	.050	.069	.080	.086	.080	.065	.054	.087
„ 29,...	.048	.033	.036	.040	.044	.058	.072	.093	.111	.101	.084	.045	.008	29.995	29.998	29.999	.011	.009	.025	.029	.040	.048	.045	.031	.042
„ 30,...	.023	.015	.001	.009	29.997	29.999	·009	.026	.036	.029	.008	29.972	29.949	.930	.913	.914	29.926	29.929	29.936	29.945	29.952	29.963	29.968	29.946	29.975
„ 31,...	29.939	29.929	29.915	29.914	.916	.920	29.930	29.949	29.971	29.971	29.946	.915	.884	.857	.853	.860	.882	.892	.912	.930	.943	.944	.954	.938	.919
Means,.....	30.096	30.088	30.080	30.079	30.081	30.092	30.106	30.126	30.141	30.139	30.121	30.092	30.057	30.037	30.028	30.031	30.043	30.056	30.073	30.088	30.098	30.102	30.099	30.094	30.085

* Interpolated.

TABLE II.

TEMPERATURE FOR THE MONTH OF DECEMBER, 1897.

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,	61.2	59.3	58.7	59.0	59.0	58.1	59.0	62.4	63.0	65.6	66.6	67.2	67.6	68.0	67.2	66.8	64.3	63.7	63.0	61.9	61.3	61.7	59.7	60.3	62.7	69.4	57.2
„ 2,	60.2	60.4	60.4	60.1	58.3	59.1	57.8	61.0	63.0	65.6	66.9	67.8	67.9	68.7	66.8	65.6	64.5	64.2	64.1	64.2	63.8	64.2	64.0	63.4	63.4	70.0	56.4
„ 3,	63.1	62.5	61.4	61.5	60.2	60.3	61.4	61.9	62.6	64.8	65.7	67.0	66.8	67.1	66.2	66.1	65.9	65.4	64.3	63.3	62.1	62.0	62.0	61.7	63.6	68.0	59.8
„ 4	61.7	60.9	60.6	59.2	59.7	61.0	60.6	61.1	62.6	64.8	65.0	64.8	64.6	65.0	65.3	64.8	64.6	64.5	64.0	64.1	63.0	62.3	61.8	61.8	62.8	65.3	59.2
„ 5,	62.3	62.3	62.0	61.7	62.3	62.6	62.9	63.3	64.7	68.0	68.6	68.5	68.8	69.6	70.3	68.8	66.2	65.2	64.7	63.7	64.2	63.6	63.9	63.9	65.1	71.4	60.9
„ 6,	63.0	62.5	62.4	61.8	61.0	60.3	59.8	59.8	59.5	61.0	59.9	59.3	59.8	60.0	58.4	58.0	57.4	58.3	58.2	56.8	56.6	56.0	56.1	55.5	59.2	63.9	55.5
„ 7,	56.0	55.3	55.6	56.1	55.7	56.5	55.8	57.6	59.5	61.3	63.5	64.5	64.8	65.9	64.3	64.2	63.0	62.0	62.1	62.2	61.5	61.8	62.4	61.3	60.5	68.5	55.3
„ 8,	61.3	61.4	61.4	61.3	59.7	59.9	60.4	62.6	64.6	66.4	67.6	66.8	68.3	69.1	68.8	68.0	65.2	64.0	62.8	62.1	61.8	61.5	60.9	60.2	63.6	69.1	58.0
„ 9,	61.1	61.2	61.5	61.1	61.4	61.0	62.0	63.2	67.5	68.2	69.5	71.3	73.0	72.8	71.9	70.4	69.8	67.6	67.6	67.3	67.4	65.9	66.1	65.9	66.4	74.0	59.7
„ 10,	65.9	65.8	65.2	65.4	65.2	64.4	65.8	66.3	67.5	72.8	72.7	73.7	73.8	74.0	72.6	70.0	69.0	68.2	68.2	67.4	66.6	66.2	65.7	65.4	68.2	76.4	63.1
„ 11,	64.9	64.3	64.5	64.7	64.2	62.9	61.6	61.7	61.8	64.8	66.2	66.8	69.2	68.5	68.0	67.1	66.8	62.6	61.6	61.6	59.0	58.1	57.1	55.5	63.5	70.6	55.5
„ 12,	55.2	55.4	54.0	54.0	55.8	54.7	54.4	56.8	57.5	60.8	60.6	61.8	62.8	62.3	62.6	62.2	61.5	60.6	60.5	60.7	62.3	62.2	62.7	62.8	59.3	63.0	53.4
„ 13,	62.2	61.8	61.7	60.6	61.5	61.7	62.1	62.4	62.8	65.4	65.8	65.9	66.2	66.8	66.9	65.6	65.5	64.6	64.7	64.7	64.7	64.7	64.7	64.8	64.1	67.5	60.2
„ 14,	64.3	64.8	64.4	64.0	64.1	64.1	63.6	63.5	61.2	63.1	62.2	63.4	64.0	65.1	63.6	62.0	60.2	60.2	60.3	60.1	59.6	57.7	57.4	57.4	62.1	65.2	57.0
„ 15,	56.3	55.9	54.9	54.7	54.4	54.5	54.4	54.6	54.0	55.8	54.9	54.6	54.1	55.2	55.8	54.8	53.8	53.6	53.6	53.5	54.4	54.6	53.6	53.0	54.5	57.4	53.0
„ 16,	52.6	51.6	52.0	52.3	52.5	53.3	53.0	53.5	54.8	56.8	57.8	58.6	59.7	57.9	57.0	57.0	56.6	56.0	55.8	55.0	55.2	55.8	56.4	56.6	55.3	60.3	51.3
„ 17,	56.8	56.0	55.9	54.8	54.5	54.2	54.2	54.6	55.2	56.1	57.2	58.5	57.3	56.5	57.5	56.5	56.3	54.8	54.9	54.8	54.5	54.6	54.2	53.9	55.6	58.9	53.5
„ 18,	53.2	52.4	52.6	53.0	51.9	51.4	52.0	54.4	56.2	59.8	60.9	61.8	62.6	62.8	64.5	62.7	62.5	60.8	60.0	58.4	56.8	57.0	55.7	56.9	57.5	65.7	51.4
„ 19,	56.9	56.2	54.8	54.0	53.6	52.8	53.0	58.0	59.4	61.0	62.4	63.9	64.8	67.6	66.8	63.8	64.3	60.0	58.9	57.0	56.0	56.0	55.3	54.1	58.8	69.1	52.0
„ 20,	55.2	54.0	53.8	52.9	53.1	52.8	53.5	55.7	57.8	58.7	59.2	61.7	62.3	64.1	63.3	61.8	60.6	57.4	57.3	56.6	56.8	57.5	57.8	57.6	57.6	65.8	52.2
„ 21,	57.3	55.6	55.6	54.6	53.2	53.4	56.7	57.3	57.7	60.6	62.2	63.0	63.1	62.8	63.0	60.7	60.3	59.6	59.4	59.1	59.4	59.6	59.3	59.4	58.9	63.4	52.6
„ 22,	59.3	58.8	58.5	58.0	57.6	57.5	56.3	58.1	58.2	60.2	60.7	62.2	61.2	61.8	61.6	60.8	60.8	59.6	60.3	60.4	60.6	60.6	60.3	60.0	59.7	62.5	56.3
„ 23,	59.7	59.5	59.3	59.3	59.3	58.8	59.0	59.2	60.6	64.0	63.1	65.0	66.4	66.1	66.2	66.6	64.0	61.5	60.5	59.5	58.9	58.5	57.6	56.3	61.2	67.9	56.3
„ 24,	56.6	55.6	55.7	54.3	54.7	53.4	53.1	54.5	56.6	58.6	57.7	56.5	58.1	61.5	61.0	61.7	60.0	55.9	56.7	56.3	56.2	54.7	54.3	52.5	56.5	63.6	52.5
„ 25,	51.6	51.6	50.7	49.3	48.7	48.4	48.4	52.8	57.0	57.5	58.7	60.9	61.7	60.8	60.3	59.3	58.4	57.2	57.0	57.4	56.8	58.6	59.1	59.0	55.9	62.5	47.9
„ 26,	59.1	58.8	59.1	57.9	57.2	57.0	54.9	56.4	59.1	61.2	65.1	67.5	67.6	67.6	65.8	67.0	68.0	65.5	65.3	64.2	62.7	61.3	59.5	58.1	61.9	69.3	54.3
„ 27,	57.9	55.7	56.3	55.8	54.5	54.3	53.9	57.0	58.4	60.2	62.1	61.8	64.0	63.0	62.3	61.8	60.2	58.4	56.5	56.4	56.5	56.8	56.7	56.7	58.2	66.[illegible]	52.6
„ 28,	56.7	56.7	56.5	56.4	55.4	53.9	52.6	55.9	60.6	60.8	61.2	63.0	63.8	62.5	61.6	59.8	59.0	58.2	58.3	58.7	58.8	59.2	59.2	58.8	58.6	65.4	52.6
„ 29,	58.6	58.1	58.1	57.9	58.8	58.7	58.0	57.2	58.7	59.9	61.1	61.8	61.8	61.8	60.4	60.4	60.2	60.3	60.5	60.5	59.2	58.6	58.5	58.8	59.5	62.2	57.2
„ 30,	59.3	59.5	59.1	59.3	59.2	59.1	60.4	60.5	61.4	61.8	62.4	62.8	62.2	60.5	60.8	61.3	60.3	60.5	61.0	60.5	60.9	61.3	61.7	62.2	60.8	63.2	58.5
„ 31,	63.4	63.3	63.3	63.4	64.3	64.5	64.8	65.0	65.1	64.8	65.5	65.1	65.1	65.9	65.6	65.8	64.5	65.0	64.6	64.6	64.5	64.5	65.0	65.0	64.7	65.9	62.2
Means,	59.1	58.6	58.4	58.0	57.8	57.6	57.6	59.0	60.3	62.3	63.0	63.8	64.3	64.6	64.1	63.3	62.4	61.1	60.9	60.4	60.1	59.9	59.6	59.3	60.6	66.2	55.7

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF DECEMBER, 1897.

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, ...	53.6	51.8	51.1	50.0	50.0	49.5	49.8	50.7	51.8	53.7	54.1	54.6	55.3	55.2	54.9	55.0	53.5	52.6	51.9	51.6	51.4	52.6	52.6	52.2	52.5	119.1
„ 2, ...	51.2	51.1	51.1	51.3	50.7	49.9	49.5	50.9	51.9	54.3	54.7	55.2	56.5	57.3	56.3	56.6	55.7	56.8	57.1	58.3	57.8	59.4	59.3	59.2	54.7	122.6
„ 3, ...	58.9	58.1	56.9	56.2	55.1	53.3	53.6	53.6	54.1	54.9	55.8	56.9	55.8	55.9	55.9	56.6	56.3	55.1	54.7	54.1	54.0	53.8	54.2	54.2	55.3	103.2
„ 4, ...	54.2	54.0	54.4	54.2	54.1	54.5	54.7	56.4	57.1	57.7	57.7	57.7	57.6	58.2	58.6	58.1	58.8	59.0	58.7	58.8	57.9	57.5	56.9	56.3	56.8	86.4
„ 5, ...	56.7	56.2	56.0	56.0	56.0	56.3	56.7	58.0	57.9	59.1	61.0	60.2	60.2	61.3	62.0	61.0	59.9	59.3	58.6	58.3	58.6	58.8	59.3	58.9	58.6	123.6
„ 6, ...	58.5	58.3	57.9	57.4	56.5	55.8	54.7	54.5	54.1	54.6	53.7	53.9	54.4	54.7	53.9	53.2	53.6	53.5	53.4	53.2	52.0	51.9	51.9	52.1	54.5	80.6
„ 7, ...	51.9	51.0	51.4	51.3	50.8	51.0	50.9	51.9	53.6	54.2	54.9	56.0	56.6	57.1	57.2	57.5	57.2	56.5	56.2	55.3	55.8	56.3	56.7	56.3	54.5	120.8
„ 8, ...	56.5	56.9	56.9	56.9	55.9	55.8	56.5	57.7	58.5	60.1	60.8	59.9	60.1	60.3	60.5	61.2	59.7	60.1	59.3	58.5	58.7	59.2	59.1	59.0	58.7	120.5
„ 9, ...	59.5	59.7	59.5	59.5	59.5	58.9	59.7	60.2	62.3	60.7	63.4	64.2	64.3	64.6	62.6	60.9	60.9	61.7	60.6	60.6	60.4	62.3	62.3	62.3	61.3	126.5
„ 10, ...	62.3	62.3	62.6	62.5	62.1	61.9	62.4	63.1	63.2	62.3	63.0	64.5	64.0	64.1	64.4	64.1	64.1	64.5	64.0	64.1	64.3	63.6	63.2	62.5	63.3	131.4
„ 11, ...	61.6	61.1	61.2	61.4	58.4	57.4	55.6	55.7	55.5	56.8	57.8	57.8	60.0	59.2	58.2	57.1	57.1	55.6	54.5	55.2	53.8	53.0	52.2	51.2	57.0	126.8
„ 12, ...	50.9	50.7	50.5	50.3	50.8	50.1	50.5	50.9	51.0	53.4	53.6	55.5	55.6	55.9	55.3	55.6	55.5	55.0	55.3	56.6	58.1	58.3	58.6	58.9	54.0	127.6
„ 13, ...	58.6	58.6	58.7	58.4	58.7	59.0	59.3	59.0	59.6	61.5	61.7	61.6	62.0	62.1	63.0	62.7	62.6	62.8	63.0	63.1	62.8	63.0	63.2	63.3	61.2	94.7
„ 14.	63.2	63.6	63.5	63.1	62.8	62.6	61.6	59.7	59.5	60.2	59.6	60.0	59.3	59.4	57.7	56.1	54.7	55.4	55.1	54.8	54.6	54.5	54.4	54.9	58.8	99.9
„ 15, ...	55.1	54.6	54.1	54.3	53.9	53.7	53.0	53.2	53.2	53.5	52.9	52.8	53.0	52.9	53.7	52.1	51.8	52.3	51.9	51.7	52.3	52.6	52.0	51.8	53.0	71.0
„ 16, ...	51.3	50.8	50.3	50.2	50.2	50.4	50.8	51.4	52.2	52.9	54.2	54.3	55.5	53.1	52.6	52.2	51.5	52.1	51.8	51.6	51.9	52.5	52.8	53.7	52.1	101.5
„ 17, ...	53.7	52.7	52.0	51.6	50.8	50.4	50.5	50.9	51.4	52.2	53.3	53.9	53.2	52.5	53.2	52.2	52.1	50.8	50.7	50.9	50.8	50.9	50.6	50.5	51.7	84.7
„ 18, ...	50.5	50.1	49.9	48.9	48.2	47.9	48.2	50.0	50.3	52.7	53.6	54.5	54.8	55.3	56.4	54.9	55.3	54.4	53.5	52.8	52.2	51.6	51.0	51.5	52.0	117.3
„ 19, ...	51.5	51.0	49.9	49.4	49.0	48.9	49.0	50.9	52.7	53.6	53.9	55.1	55.9	57.9	56.3	54.6	53.7	52.9	51.2	50.4	49.8	49.8	50.2	49.6	52.0	119.5
„ 20, ...	50.4	49.1	48.4	48.2	48.2	47.2	47.6	49.9	51.1	50.5	51.5	52.8	52.8	54.2	53.9	52.7	51.7	51.6	51.3	50.1	50.6	51.4	52.5	51.8	50.8	119.1
„ 21, ...	51.6	50.8	49.9	48.8	49.7	50.7	52.0	51.4	50.4	51.6	51.9	52.8	52.8	54.4	54.6	54.0	53.5	53.6	54.4	54.6	55.2	55.5	55.0	55.0	52.7	117.2
„ 22, ...	54.5	53.8	53.5	52.8	51.4	52.0	52.1	53.4	53.1	53.7	54.1	55.1	54.0	55.2	55.3	55.0	56.1	56.4	56.5	56.6	56.8	57.0	57.1	56.8	54.7	122.1
„ 23, ...	56.4	56.3	56.0	55.8	55.4	55.0	54.3	53.8	54.0	56.3	55.2	55.3	57.1	56.2	56.0	56.9	54.9	54.0	52.8	53.0	52.6	52.3	51.6	50.7	54.7	123.7
„ 24, ...	50.2	49.5	49.5	48.3	48.1	47.4	47.0	47.6	48.8	50.1	49.6	48.9	49.6	51.8	51.1	51.9	50.9	49.6	48.6	48.4	47.8	47.6	47.5	47.4	49.0	114.1
„ 25, ...	46.6	46.4	45.8	44.7	44.4	44.2	44.6	46.9	50.0	50.2	50.9	52.5	52.9	52.1	52.2	51.6	52.1	52.4	52.9	53.6	53.6	54.4	55.0	54.8	50.2	116.2
„ 26, ...	54.9	54.8	54.7	53.6	53.8	52.7	51.9	52.6	52.0	52.8	52.5	53.6	54.6	55.8	57.1	57.9	54.9	52.0	51.0	50.6	49.3	48.6	47.9	46.6	52.8	124.2
„ 27, ...	45.5	44.3	44.4	43.7	43.2	43.3	43.9	45.7	46.0	47.1	48.6	49.5	50.0	50.9	51.7	51.3	50.5	49.7	50.1	50.1	50.6	50.0	51.0	51.6	48.0	117.1
„ 28, ...	51.4	51.6	51.8	51.6	50.8	49.9	49.2	50.6	52.9	52.9	52.6	51.5	53.9	53.0	52.6	52.1	52.1	52.2	52.6	52.9	53.7	54.6	54.8	54.6	52.3	118.2
„ 29, ...	55.5	55.4	55.6	56.3	55.6	55.5	55.3	56.2	55.6	55.9	56.5	56.7	56.5	56.6	56.1	57.1	56.9	57.0	57.4	57.0	56.9	57.0	56.8	57.0	56.3	88.0
„ 30, ...	57.0	56.7	57.2	57.3	57.4	57.2	57.0	57.2	56.9	57.2	58.2	57.7	57.9	58.1	57.7	58.7	59.1	59.3	59.6	59.9	60.4	60.5	61.1	61.2	58.4	84.3
„ 31, ...	61.5	61.7	62.0	62.2	62.6	62.7	62.7	62.9	62.9	62.7	63.1	62.9	62.9	63.4	63.2	63.3	63.2	63.9	63.6	63.1	62.6	62.6	62.4	62.2	62.8	89.1
Means, ...	54.7	54.3	54.1	53.7	53.4	53.1	53.1	53.8	54.3	55.1	55.6	56.1	56.4	56.7	56.6	56.3	55.8	55.6	55.2	55.2	55.1	55.3	55.3	55.1	55.0	110.0

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF DECEMBER, 1897.

Hour.	Hourly Mean. Humidity.	Hourly Mean. Tension.	Date.	Daily Mean. Humidity.	Daily Mean. Tension.
			1897.		
1 a.	74	0.375	Dec. 1,.....	45	0.261
2 „	74	.370	„ 2,.....	54	.314
3 „	74	.367	„ 3,.....	56	.329
4 „	74	.361	„ 4,.....	67	.384
5 „	73	.355	„ 5,.....	66	.408
6 „	72	.349	„ 6,.....	72	.364
7 „	72	.349	„ 7,.....	65	.347
8 „	69	.351	„ 8,.....	73	.431
9 „	65	.348	„ 9,.....	73	.476
10 „	60	.344	„ 10,.....	75	.518
11 „	60	.350	„ 11,.....	65	.380
Noon.	59	.354	„ 12,.....	69	.349
1 p.	58	.356	„ 13,.....	84	.503
2 „	58	.361	„ 14,.....	81	.454
3 „	60	.365	„ 15,.....	90	.384
4 „	62	.366	„ 16,.....	79	.349
5 „	63	.363	„ 17,.....	75	.333
6 „	69	.375	„ 18,.....	67	.317
7 „	67	.366	„ 19,.....	60	.299
8 „	70	.372	„ 20,.....	59	.284
9 „	71	.374	„ 21,.....	64	.318
10 „	73	.382	„ 22,.....	71	.363
11 „	74	.386	„ 23,.....	63	.343
Midt.	75	.384	„ 24,.....	54	.250
			„ 25,.....	64	.289
			„ 26,.....	51	.281
			„ 27,.....	41	.202
			„ 28,.....	62	.310
			„ 29,.....	81	.412
			„ 30,.....	86	.459
			„ 31,.....	90	.547
Means,.....	68	0.363	Means.	68	0.363

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.
1897.														
Dec. 1,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.1
„ 2,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.2	...	...	8.4
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	0.1	0.1	...	...	0.6	...	...	0.1	...	...	0.9
„ 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,.....	...	...	0.3	...	0.4	1.0	1.0	1.0	0.7	...	0.2	...	...	4.6
„ 8,.....	...	0.4	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.5
„ 9,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.7
„ 10,.....	...	0.3	0.5	0.6	1.0	0.9	1.0	1.0	1.0	0.8	0.1	0.2	...	7.4
„ 11,.....	...	...	...	...	...	0.3	1.0	1.0	1.0	0.9	0.9	0.4	...	5.5
„ 12,.....	...	...	...	...	0.4	0.2	0.4	1.0	0.5	0.6	1.0	0.4	...	4.5
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.3
„ 19,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.8
„ 20,.....	...	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.7
„ 21,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.3	...	9.7
„ 22,.....	...	0.1	0.9	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.2	...	8.8
„ 23,.....	...	...	..	...	...	0.1	0.1	...	0.2	...	0.1	...	...	0.5
„ 24,.....	...	...	...	0.2	0.4	...	...	...	0.1	0.1	0.8	0.4	...	2.0
„ 25,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.8
„ 26,.....	...	0.3	0.5	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.2
„ 27,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 28,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	3.8	11.0	13.4	15.2	15.5	16.5	17.6	16.5	15.1	15.2	7.0	...	146.8

TABLE VI.

RAINFALL FOR THE MONTH OF DECEMBER, 1897.

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.
Dec. 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	0.005	...	...	...	...	...	...	...	...	0.010	3
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.010	5
„ 14,	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.195	13
„ 15,	...	0.040	0.015	0.005	0.005	...	0.005	0.010	0.020	0.005	...	...	0.020	0.030	...	...	...	0.020	0.015	0.005	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.010	0.005	...	0.050	10
„ 29,	...	...	...	...	...	0.005	0.005	0.015	0.005	...	...	...	...	...	...	...	...	...	...	0.020	0.045	0.005	0.005	0.005	0.105	11
„ 30,	...	...	0.010	...	0.010	0.005	...	...	...	...	...	...	...	...	...	...	0.015	0.045	0.030	0.010	0.005	0.005	...	...	0.110	12
„ 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	0.040	0.025	0.005	0.015	0.010	0.010	0.025	0.030	0.005	...	0.005	0.020	0.030	...	0.005	0.015	0.065	0.045	0.035	0.055	0.020	0.010	0.010	0.480	57

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF DECEMBER, 1897.

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.	2	11	1	12	1	17	1	20	1	21	2	19	2	17	1	16	1	11	2	10	32	11	1	14	32	12	32	13	32	10	1	10	2	11	2	6	1	14	32	15	32	9	1	7	1	6	1	13	305	12.7	1
" 2.	1	16	2	17	2	16	2	7	2	7	3	14	3	6	32	9	1	13	2	9	8	6	10	7	11	11	10	14	10	18	9	15	9	14	8	11	6	10	6	9	5	8	5	9	6	15	6	22	283	11.8	5
" 3.	7	16	6	14	3	9	2	9	6	8	6	13	6	6	6	6	3	5	2	7	3	6	7	4	3	6	1	7	1	5	3	4	6	6	4	8	2	13	1	10	1	9	32	19	1	17	1	13	220	9.2	3
" 4.	32	14	32	12	32	5	31	9	1	13	2	11	1	10	1	2	2	3	5	5	3	5	5	13	6	15	6	12	4	8	4	10	6	11	5	11	4	12	4	15	4	11	2	8	1	9	1	13	237	9.9	3
" 5.	1	10	1	10	1	7	1	8	1	6	4	4	...	1	1	3	32	3	6	8	1	5	32	5	2	4	6	3	2	9	1	10	1	10	1	11	1	10	1	9	1	9	32	8	1	3	2	8	164	6.8	1
" 6.	32	10	32	11	2	12	1	10	1	15	32	18	32	16	1	21	1	16	1	11	32	9	2	8	2	5	4	5	32	5	31	12	2	9	1	14	1	14	32	12	32	16	1	14	32	13	32	5	281	11.7	1
" 7.	1	9	1	13	32	14	1	14	32	15	32	13	32	8	32	10	32	7	32	5	4	4	19	5	23	5	25	12	23	9	27	8	27	7	27	6	27	3	12	7	7	3	8	6	6	8	2	3	194	8.1	31
" 8.	2	2	...	1	...	1	...	1	2	3	2	4	2	3	2	2	...	1	27	6	25	7	25	10	24	9	24	10	25	11	25	7	25	5	1	6	6	9	8	5	8	4	8	3	8	3	8	3	116	4.8	28
" 9.	9	8	9	9	9	7	10	5	9	8	9	2	...	0	...	0	9	2	9	4	9	3	9	2	9	3	31	4	7	11	8	14	9	14	9	14	8	15	11	12	11	13	10	15	10	18	9	15	198	8.2	9
" 10.	10	16	11	13	9	10	8	10	7	5	7	2	8	3	...	1	8	2	9	4	9	13	9	10	9	14	9	12	9	18	9	20	8	19	9	18	7	21	7	25	8	26	7	25	7	26	7	31	344	14.3	8
" 11.	7	32	7	25	7	17	6	10	1	14	1	16	1	20	1	14	32	12	32	12	1	16	32	16	32	12	6	11	4	12	1	11	3	12	1	16	1	13	1	9	2	9	1	9	1	12	32	16	346	14.4	2
" 12.	32	14	32	8	32	3	32	7	1	9	1	8	1	4	1	5	4	10	5	19	6	22	8	25	7	23	8	19	9	17	9	13	9	12	9	13	7	13	6	14	8	23	8	22	7	24	7	25	352	14.7	6
" 13.	7	24	7	18	6	13	9	13	10	12	10	14	11	5	9	8	10	7	3	3	10	7	8	6	12	3	12	3	5	2	4	2	...	0	4	3	4	2	7	2	7	3	7	4	7	6	19	5	165	6.9	8
" 14.	21	8	21	5	21	3	20	2	19	3	28	2	30	5	32	10	32	7	32	8	1	14	32	9	1	9	2	7	2	11	1	16	2	15	2	12	2	9	1	10	1	9	1	7	1	9	1	12	202	8.4	1
" 15.	2	6	1	10	1	8	1	3	1	6	1	9	1	4	1	6	1	7	1	9	1	13	1	12	1	5	...	1	1	3	1	11	1	12	32	13	32	12	2	11	1	6	1	7	32	9	32	11	194	8.1	1
" 16.	32	12	32	12	1	14	32	10	32	11	1	10	1	8	32	7	32	6	32	7	32	5	32	6	32	8	32	13	2	12	2	9	2	11	2	10	1	8	1	4	1	3	...	0	1	2	...	1	189	7.9	1
" 17.	7	3	2	7	2	10	1	14	1	15	1	17	1	15	1	14	32	12	32	13	32	9	32	11	32	11	1	16	1	5	2	6	2	5	2	3	2	7	1	7	1	4	1	2	1	9	1	4	219	9.1	1
" 18.	...	1	1	2	4	5	2	8	1	14	32	14	32	13	1	3	32	9	30	6	2	3	22	10	24	11	24	11	25	11	25	8	23	10	21	7	31	7	32	11	32	5	32	3	2	8	32	5	185	7.7	30
" 19.	1	8	32	8	32	8	1	12	1	9	1	4	1	5	1	8	26	5	23	7	28	6	24	8	23	9	21	7	1	10	1	13	1	13	32	7	1	10	2	2	2	7	2	6	2	6	...	1	179	7.5	32
" 20.	3	4	32	8	32	6	1	2	1	5	1	2	1	2	2	2	2	5	1	7	1	8	1	7	2	7	2	4	9	8	10	9	3	6	3	7	2	12	1	14	1	12	1	4	4	10	3	11	162	6.8	2
" 21.	3	8	3	9	2	7	1	10	32	10	32	9	...	1	1	4	3	7	7	11	6	13	8	9	8	10	10	10	10	14	9	18	9	15	9	13	8	16	7	13	7	16	7	20	7	20	7	25	288	12.0	7
" 22.	7	28	7	26	7	22	6	21	6	20	6	18	6	18	5	15	5	17	8	18	9	18	9	16	10	19	10	14	10	17	9	20	8	17	7	20	7	22	8	22	7	24	7	25	7	28	8	25	490	20.4	7
" 23.	7	21	7	14	7	12	7	9	7	9	6	3	6	6	4	4	6	6	32	7	2	7	1	13	4	8	4	8	32	13	32	9	2	11	1	15	2	12	2	11	1	10	32	12	1	11	32	12	243	10.1	3
" 24.	1	16	32	17	1	15	32	13	1	12	32	10	31	11	31	8	31	8	32	11	1	14	32	10	32	6	1	14	2	13	2	10	32	11	32	8	1	18	1	17	1	20	32	18	2	16	1	4	300	12.5	1
" 25.	2	8	3	5	1	5	2	4	1	3	2	3	...	1	1	2	2	2	30	3	31	5	7	14	7	15	10	18	10	17	10	16	9	15	8	14	8	13	8	10	7	8	6	10	8	16	7	18	225	9.4	7
" 26.	6	13	6	12	4	11	4	5	4	4	3	6	2	3	...	1	2	3	29	3	31	8	3	4	19	7	22	10	22	12	22	6	1	7	1	4	3	4	2	11	1	15	1	14	1	17	1	20	200	8.3	1
" 27.	1	10	32	7	32	10	32	18	1	9	32	9	1	10	1	12	1	15	2	5	5	3	24	8	20	3	24	11	25	10	26	12	25	7	25	2	25	3	25	2	25	5	25	6	4	8	5	11	196	8.2	31
" 28.	6	11	6	11	7	16	6	14	5	9	5	5	5	3	...	0	8	5	9	7	10	6	10	7	10	10	10	15	9	15	9	17	9	16	9	14	9	13	9	13	9	14	7	17	8	20	8	20	278	11.6	8
" 29.	7	17	6	13	7	10	8	4	6	12	4	11	5	12	6	11	4	12	5	17	4	17	7	20	7	23	7	22	7	18	8	17	8	18	7	24	7	24	7	28	7	28	7	26	8	25	7	23	432	18.0	7
" 30.	7	20	7	23	8	17	8	8	9	9	9	12	8	12	7	12	7	16	5	16	7	16	7	12	7	14	8	11	10	9	9	5	6	3	32	6	9	4	9	3	6	2	4	2	4	3	10	5	241	10.0	7
" 31.	10	4	10	10	10	4	10	2	10	11	9	15	8	16	8	20	9	21	8	18	8	16	8	14	7	14	7	13	7	18	8	22	9	18	8	17	8	20	8	20	7	18	7	24	7	18	7	23	376	15.7	8
Sums.	...	380	...	362	...	314	...	282	...	307	...	297	...	244	...	236	...	255	...	276	...	295	...	316	...	311	...	330	...	351	...	360	...	340	...	333	...	363	...	353	...	349	...	352	...	395	...	403	7804	325.2	...
Means.	...	12.3	...	11.7	...	10.1	...	9.1	...	9.9	...	9.6	...	7.9	...	7.6	...	8.2	...	8.9	...	9.5	...	10.2	...	10.0	...	10.6	...	11.3	...	11.6	...	11.0	...	10.7	...	11.7	...	11.4	...	11.3	...	11.4	...	12.7	...	13.0	251.7	10.5	...

TABLE VIII.

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
1897.												
Dec. 1, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 2, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 3, ...	10	cum.	...	6	cum.	...	10	sm-cum.	...	10	str-cum.	...
„ 4, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	E	10	str-cum.	...
„ 5, ...	9	cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...
„ 6, ...	10	str-cum.	...	10	cum.	...	10	str-cum.	...	10	str-cum.	E
„ 7, ...	9	cum.	...	10	str-cum.	...	10	cum.	E	8	sm-cum.	SW
„ 8, ...	10	str-cum.	...	10	str-cum.	...	9	sm-cum.	SW	0	...	...
„ 9, ...	0	...	...	0	...	...	5	c-cum.	...	2	c-str.	...
„ 10, ...	4	sm-cum.	...	7	sm-cum.	SE	1	sm-cum.	...	3	sm-cum. / cum.	...
„ 11, ...	9	cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ENE
„ 12, ...	0	...	...	7	sm-cum.	...	9	sm-cum.	S	9	sm-cum.	SW
„ 13, ...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	...	10	str-cum.	E
„ 14, ...	10	str-cum.	...	10	nim.	...	10	R-cum.	NE	10	nim.	...
„ 15, ...	10	nim.	...	10	nim.	...	10	nim.	NE	10	nim.	NE
„ 16, ...	10	str-cum.	...	10	str-cum.	...	10	cum.	ENE	10	str-cum.	ENE
„ 17, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ENE
„ 18, ...	10	str-cum.	...	9	sm-cum.	W	10	sm-cum.	WSW	4	sm-cum.	W
„ 19, ...	10	str-cum.	...	8	sm-cum.	W	3	c-cum. / sm-cum.	...	1	c-cum.	...
„ 20, ...	1	cum.	...	9	sm-cum.	W	9	sm-cum.	WSW	0	...	...
„ 21, ...	10	str-cum.	...	9	cum.	...	0	...	...	0	...	...
„ 22, ..	10	str-cum.	...	4	cum.	ENE	3	c-cum. / cum.	NE	2	c-cum. / cum.	ENE
„ 23, ...	10	str.	...	7	sm-cum.	...	9	sm-cum. / cum.	E	9	sm-cum. / cum.	E
„ 24, ...	10	str-cum.	...	9	sm-cum.	WSW	9	sm-cum.	WSW	9	sm-cum.	WSW
„ 25, ...	0	...	...	0	...	...	1	c-str.	...	0	...	...
„ 26, ...	9	cum.	...	7	cum.	...	1	sm-cum.	...	2	sm-cum.	W
„ 27, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 28, ...	0	...	...	2	sm-cum.	E	0	...	...	0	...	...
„ 29, ...	10	str-cum.	...	10	nim.	...	10	nim.	ESE	10	R-cum. / nim.	SSW / ESE
„ 30, ...	10	nim.	...	10	nim.	...	10	str-cum.	ENE	10	str-cum.	E
„ 31, ...	9	cum.	...	10	str-cum.	...	10	cum-nim.	E	10	nim.	E
Means, ...	7.1	...	...	7.2	...	...	6.7	...	...	5.8	...	...

TABLE VIII,—*Continued.*

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE COMING.

Date.	1 p.			4 p.			7 p.			10 p.			Means.
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	
1897.													
Dec. 1,...	0	...	...	0	...	...	0	...	...	9	cum.	E	1.1
„ 2,...	0	...	...	10	sm-cum.	...	9	sm-cum.	SSE	9	cum.	ENE	3.5
„ 3,...	10	sm-cum.	...	10	sm-cum.	...	10	str-cum.	...	10	str-cum.	...	9.5
„ 4,...	10	str-cum.	...	10	str-cum.	ENE	10	str-cum.	NE	10	str-cum.	...	10.0
„ 5,...	8	sm-cum.	SE	10	sm-cum. / cum.	WSW / ESE	9	sm-cum.	SW	9	sm-cum.	WSW	9.4
„ 6,...	10	str-cum. / cum.	N	10	nim.	...	10	str-cum.	...	10	nim.	NNE	10.0
„ 7,...	2	sm-cum.	...	9	sm-cum.	SSW	9	sm-cum.	W	9	sm-cum.	WSW	8.2
„ 8,...	0	...	...	0	...	...	0	...	...	0	...	...	3.6
„ 9,...	6	c-cum.	SSE	2	sm-cum.	SSE	2	sm-cum.	SSE	3	sm-cum.	SSE	2.5
„ 10,...	0	...	...	7	sm-cum.	SSE	7	sm-cum.	SSE	10	sm-cum. / cum.	ENE	4.9
„ 11,...	1	c-cum.	...	2	c-cum.	...	10	str-cum.	...	3	c-cum. / cum.	ENE	6.9
„ 12,...	9	sm-cum.	SW	2	sm-cum.	...	0	...	...	6	cum.	ENE	5.3
„ 13,...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	...	10	str-cum.	...	10.0
„ 14,...	10	str-cum.	NE	10	str.	...	10	str-cum.	...	10	nim.	...	10.0
„ 15,...	10	nim.	NE	10	str-cum.	...	10	nim.	...	10	cum.	...	10.0
„ 16,...	10	str-cum.	ENE	10	str-cum.	ENE	10	str-cum.	...	10	str-cum.	...	10.0
„ 17,...	10	str-cum.	ENE	10	str-cum.	E	10	str-cum.	ENE	10	str-cum.	...	10.0
„ 18,...	2	sm-cum.	W	2	c-cum. / cum.	...	4	sm-cum.	WSW	0	...	...	5.1
„ 19,...	2	c-cum.	...	0	...	...	0	...	...	1	sm-cum.	...	3.1
„ 20,...	0	...	...	0	...	...	0	...	...	10	str-cum.	...	3.6
„ 21,...	0	...	...	4	c-cum.	ESE	0	...	...	3	cum.	...	3.2
„ 22,...	5	sm-cum.	WSW	7	c-str.	...	10	cum.	...	10	str-cum.	...	6.4
„ 23,...	9	sm-cum. / cum.	E	10	sm-cum.	WSW	2	sm-cum.	...	10	str-cum.	...	8.3
„ 24,...	9	str-cum.	WSW	7	sm-cum.	...	0	...	...	0	...	...	6.6
„ 25,...	0	...	...	0	...	...	0	...	...	10	str-cum.	...	1.4
„ 26,...	0	...	...	0	...	...	0	...	...	0	...	...	2.4
„ 27,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 28,...	0	...	...	0	...	...	0	...	...	10	str.	...	1.5
„ 29,...	10	cum. / cum-nim.	ESE	10	cum.	ESE	10	cum.	ESE	10	nim.	...	10.0
„ 30,...	10	nim.	E	10	str-cum.	E	10	cum-nim.	...	10	nim.	...	10.0
„ 31,...	10	nim.	E	10	nim.	E	10	nim.	E	10	nim.	...	9.9
Means,...	5.3	...	...	5.9	...	...	5.5	...	...	7.2	...	...	6.3

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF DECEMBER, 1897.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	6.3	7.7	0.5	0.2	+ 5.8	+ 7.5	E 38° N
2 „	6.6	6.7	0.5	0.1	6.1	6.6	E 43° N
3 „	6.2	5.6	0.2	0.1	6.0	5.5	E 47° N
4 „	6.4	4.1	0.2	0.1	6.2	4.0	E 57° N
5 „	7.2	4.4	0.5	0.1	6.7	4.3	E 58° N
6 „	7.1	4.2	0.3	0.0	6.8	4.2	E 59° N
7 „	5.7	3.4	0.1	0.1	5.6	3.3	E 60° N
8 „	5.7	3.1	0.1	0.1	5.6	3.0	E 62° N
9 „	5.8	3.6	0.2	0.2	5.6	3.4	E 59° N
10 „	5.5	4.4	0.1	0.5	5.4	3.9	E 55° N
11 „	5.5	5.1	0.4	0.5	5.1	4.6	E 48° N
Noon.	4.3	5.5	0.6	1.2	3.7	4.3	E 41° N
1 p.	3.6	6.0	1.1	1.3	2.5	4.7	E 28° N
2 „	3.4	6.2	1.3	1.9	2.1	4.3	E 27° N
3 „	4.0	6.9	1.5	1.7	2.5	5.2	E 25° N
4 „	4.5	7.0	1.1	1.3	3.4	5.7	E 31° N
5 „	4.5	7.0	0.7	0.9	3.8	6.1	E 31° N
6 „	5.2	6.6	0.6	0.4	4.6	6.2	E 36° N
7 „	6.2	7.4	0.1	0.2	6.1	7.2	E 40° N
8 „	5.9	7.0	0.5	0.1	5.4	6.9	E 38° N
9 „	5.7	7.1	0.3	0.2	5.4	6.9	E 38° N
10 „	5.7	7.1	0.2	0.2	5.5	6.9	E 38° N
11 „	6.2	8.6	0.2	0.0	6.0	8.6	E 35° N
Midt.	6.1	8.6	0.3	0.1	+ 5.8	+ 8.5	E 34° N
Means, ...	5.6	6.0	0.5	0.5	+ 5.07	+ 5.49	E 43° N

PHENOMENA :—

Lunar halo :—on the 9th.

Lunar corona :—on the 7th and 9th.

Slight fog :—on the 9th and 10th.

Haze :—on the 8th, 12th, 14th, 15th, 25th and 28th.

Unusual Visibility :—on the 6th.

Dew :—on the 8th, 25th and 28th.

ON THE LATITUDE OF HONGKONG.

Part I.—The Catalogue.

One of the most useful works, that could be undertaken by an astronomer at the present time, would be the formation of a catalogue of all the stars down to the 7th magnitude inclusive some 20,000 in number, based on a collection of all the observations that have ever been made of these objects. This would include the determination of systematic corrections to be applied to all the catalogues to reduce them to some common standard, and of the probable errors of the positions given in all the published catalogues, the latter to furnish the weights for the determination of the standard co-ordinates and proper motions of all the stars. Such a work would involve great labour but not more than would be expended on the re-observation of some 20,000 stars, and a standard catalogue such as here suggested, would be of immensely greater value than any new catalogue founded on a single series of observations however extensive.

But such a catalogue does not exist, and we have in the meantime to construct our own standard catalogues for stars, whose exact positions we require for any special purpose. In order to determine the latitude of Hongkong by Talcott's method a special standard catalogue of stars found in the old Armagh catalogue (as the B.A.C., was not available) had therefore to be constructed, and the data in the following catalogues were used for this purpose (the abbreviations adopted in quoting each authority are also given in the following synopsis) :—

Sir G. B. Airy :	New seven-year catalogue of 2,760 stars reduced to the epoch 1864 at Greenwich	Gr. VII.
,,	Nine-year catalogue of 2,263 stars reduced to the epoch 1872	Gr. IX.
W. H. M. Christie :	Ten-year catalogue of 4,059 stars reduced to the epoch 1880	Gr. X.
,,	Five-year catalogue of 258 fundamental stars reduced to 1890	Gr. V.
,,	Results of astronomical observations made at Greenwich in 1892	Gr. 92.
R. Grant :	Glasgow catalogue of 6,415 stars for the epoch 1870	Gl.
A. Auwers :	Fundamental-Catalog für die Zonen Beobachtungen am nördlichen Himmel (1875)	Auw.
L. Boss :	Albany Catalogue of 8,241 stars for the epoch 1875	Alb.
E. Becker :	Berlin Catalog von 9,208 Sternen für das Aequinoctium 1875	Ber. I.
H. Romberg :	Pulkowa Catalog von 5,634 Sternen für die Epoche 1875	Romb.
M. Nyrèn :	Pulkovo déclinaisons moyennes des étoiles principales pour l'époque 1885	Nyr.
E. J. Stone :	Radcliffe catalogue of 6,424 stars for the epoch 1890.	Rad.

For the observations made at Berlin (Ber. II), Bonn (Bo.), Cambridge, (E.) (Cam.), Leiden (Leid.), Lund (Lu.), and Leipzig (Lpz.), I am indebted to the kindness of Professors Auwers, Küstner, Sir Robert Ball, Backhuysen, Engström, and Bruns.

All the positions given in these catalogues were reduced to the System des Fundamental Catalogs für die Zonenbeobachtungen der Astronomischen Gesellschaft, not because that is the best system known at present, but because so many catalogues have been compared with it (see *e. g.* A. N. No. 3195). To Nyrèn's declinations I added simply 0″.23. The last Radcliffe catalogue was compared with the Greenwich V-year catalogue, whose reduction is printed in the Vierteljahrschrift and the following corrections to the Radcliffe catalogue were then obtained :—

Decl.	Δ αδ	Δ δδ	Decl.	Δ αδ	Δ δδ
°	s.	″	°	s.	″
45, ...	0.000	−0.63	20, ...	−0.016	−0.71
40, ...	− .006	.67	15, ...	.016	.69
35, ...	− .010	.70	10, ...	.014	.68
30, ...	− .013	.72	5, ...	.009	.73
25, ...	− .015	.72	0, ...	.000	.81

R.A.	Δ αa	Δ δa	R.A.	Δ αa	Δ δa
h.	s.	"	h.	s.	"
0,	+0.010	+0.10	12,	−.009	+0.08
1,	.012	.16	13,	.013	.12
2,	.010	.21	14,	.015	+ .08
3,	.006	.22	15,	.015	− .03
4,	+ .002	.21	16,	.009	.21
5,	.000	.19	17,	−.002	.33
6,	.000	.14	18,	.000	.38
7,	.000	+ .05	19,	.000	.37
8,	.000	− .01	20,	+.002	.30
9,	.000	.04	21,	.003	− .16
10,	− .001	− .04	22,	.004	.00
11,	.003	+ .02	23,	.007	+ .09
12,	− .009	+ .08	24,	+.010	+ .10

The P. E. of the difference of these two catalogues was found to be ± 0".31. This has been corrected for the equation of light, for the difference between the two catalogues is found to depend also upon the brightness of the stars. The following table shows the difference arranged according to magnitude of stars (Gr. V-year—Radcliffe) :—

Mag.	Δ α	Δ δ	Mag.	Δ α	Δ δ
	s.	"		s.	"
>1,	+0.030	+0.08	3½,	−0.003	0.00
1½,	+ .001	+ .01	4½,	− .001	− .03
2½,	+ .012	− .02	5½,	− .006	+ .05
3½,	− .003	.00	6½,	− .005	− .01

The following weights in estimating which the age of the catalogue was taken into account were attributed to the different authorities :—

Catalogue.	Number of Observations.			
	1-3.	4-7.	8-12.	12-100.
Gr. VII.,	½	½	1	2
Gr. IX.,	1	1	2	3
Gr. X.,	1	2	3	4
Gr. V.,	1	2	3	4
Gr. 92,	1	2	3	4
Gl.,	½	½	1	2
Auw.,	...	...	...	3
A.G.C.,	1	1	1	...
Romb.,	1	1	2	3
Nyr.,	1	2	3	4
Rad.,	1	2	3	4

Gr. VII is not used at all where good positions were otherwise obtainable, and where Auw. is used Gr. VII and Gr. IX are never used (as they were already used by Professor Auwers). Gl. was often excluded.

Table I.

Standard Catalogue of Hongkong Zenith Stars for 1897.00.

No.	Name.	Mag.	R.A.	Prec.	P.M.	Decl.	P.E.	Prec.	P.M.
			h. m. s.	s.	s.	° ′ ″	″	″	″
1	ρ Andromedæ,	5	0 15 41.689	2.2597	−0.0022	37 23 53.09	±0.033	+20.006	−0.024
2	45 Piscium,	7	20 23.238	3.0874	+ .0002	7 7 17.36	0.061	+19.974	− .049
3	π Andromedæ,	4	31 22.659	3.1916	− .0004	33 9 8.36	0.036	+19.865	.000
4	58 Piscium,	6	41 39.084	3.1213	+ .0017	11 24 43.23	0.069	+19.723	− .013
5	55 Piscium,	6	34 30.154	3.1491	+ .0007	20 52 23.85	0.157	+19.825	− .025
6	ζ Andromedæ,	4	41 52.662	3.1793	− .0091	23 42 24.61	0.061	+19.719	− .072
7	62 Piscium,	6	42 56.713	3.1022	+ .0050	6 44 14.92	0.131	+19.702	+ .004
8	μ Andromedæ,	4	51 2.045	3.3027	+ .0141	37 56 26.57	0.097	+19.558	+ .049
9	ε Piscium,	4	57 35.783	3.1154	− .0070	7 20 8.17	0.092	+19.423	+ .039
10	45 Andromedæ,	6	1 5 22.968	3.3581	− .0019	37 10 34.22	0.138	+19.243	+ .013
11	44 Andromedæ,	6	4 27.988	3.4018	− .0070	41 32 1.69	0.35	+19.263	− .040
12	89 Piscium,	5	12 29.100	3.0949	− .0049	3 4 18.86	0.124	+19.058	− .019
13	90 υ Piscium,	4	13 48.210	3.2857	− .0002	26 43 21.39	0.144	+19.022	− .003
14	P. I. 110,	6	29 14.767	3.2368	+ .0100	17 56 3.24	0.213	+18.553	− .099
15	47 Andromedæ,	6	17 47.144	3.4125	+ .0100	37 10 38.63	0.35	+18.904	+ .020
16	P. I. 85,	7	22 58.613	3.1343	...	7 25 38.84	0.35	+18.755	...
17	P. I. 123,	7	30 39.486	3.1370	+ .0010	7 7 5.85	0.082	+18.504	+ .030
18	P. I. 170,	6	42 33.940	3.5154	...	37 26 24.46	0.076	+18.080	...
19	P. I. 223,	6	53 54.973	3.2057	...	11 47 43.00	0.070	+17.628	...
20	ε Trianguli,	5	56 56.808	3.4931	− .0006	32 47 15.64	0.215	+17.500	− .005
21	β Trianguli,	3	2 3 24.797	3.5437	+ .0118	34 30 0.25	0.026	+17.217	− .033
22	P. II. 85,	6	21 14.103	3.2104	+ .0017	10 6 6.16	0.241	+16.364	+ .010
23	15 Trianguli,	6	29 31.646	3.6249	+ .0013	34 14 17.71	0.082	+15.936	− .036
24	85 Ceti,	6	36 56.107	3.2263	− .0041	10 18 9.26	0.449	+15.533	− .028
25	B. 379,	7	36 27.805	3.2232	+ .0030	10 6 12.60	0.544	+15.561	− .230
26	17 Persei,	5	45 10.114	3.6821	+ .0060	34 38 8.26	0.308	+15.066	− .110
27	40 Arietis,	6	42 45.531	3.3533	+ .0018	17 51 16.54	0.418	+15.209	− .021
28	41 Arietis,	4	43 55.148	3.5161	+ .0032	26 50 9.19	0.116	+15.140	− .119
29	41 Arietis,	4	43 55.148	3.5161	+ .0032	26 50 9.19	0.116	+15.140	− .119
30	ρ^3 Arietis,	5	50 37.185	3.3602	+ .0186	17 36 44.57	0.146	+14.749	− .189
31	ρ^3 Arietis,	5	50 37.185	3,3602	+ .0186	17 36 44.57	0.146	+14.749	− .189
32	56 Arietis,	5	3 6 5.908	3.5641	− .0012	26 52 6.29	0.000	+13.799	− .022
33	50 Arietis,	7	2 54 43.985	3.3655	− .0028	17 35 45.69	0.046	+14.501	.000
34	56 Arietis,	5	3 6 5.908	3.5641	− .0012	26 52 6.29	0.000	+13.799	− .022
35	τ^3 Arietis,	6	16 49.489	3.4485	− .0043	20 22 25.10	0.335	+13.103	− .007
36	64 Arietis,	5	18 13.417	3.5332	− .0004	24 21 32.86	0.028	+13.010	− .046
37	f Tauri,	5	25 11.105	3.3055	− .0002	12 35 1.02	0.035	+12.541	+ .011
38	ο Persei,	4	37 51.470	3.7514	− .0016	31 57 42.52	0.041	+11.654	− .010
39	P. III-170,	6	44 7.283	3.5959	...	25 16 8.34	0.294	+11.206	...
40	ω^1 Tauri,	6	4 3 9.856	3.4820	+ .0061	19 20 12.12	0.102	+ 9.789	− .033
41	ξ Persei,	4	3 52 16.798	3.8817	− .0006	35 29 40.92	0.062	+10.607	− .013
42	47 Tauri,	5	4 8 20.311	3.2599	+ .0030	9 0 7.36	0.402	+ 9.388	− .080
43	41 Tauri,	5	0 17.228	3.6712	+ .0009	27 19 18.56	0.30	+10.006	− .061
44	δ^1 Tauri,	4	16 59.619	3.4477	+ .0066	17 18 2.96	0.065	+ 8.714	− .025
45	κ^1 Tauri,	5	19 13.717	3.5628	+ .0040	22 3 28.46	0.058	+ 8.538	− .054
46	υ^1 Tauri,	5	20 8.597	3.5766	+ .0068	22 34 47.92	0.114	+ 8.465	− .034
47	P. IV.69,	7	19 32.671	3.8061	...	31 12 25.35	0.35	+ 8.514	...
48	83 Tauri,	6	24 49.480	3.3664	+ .0100	13 29 59.65	0.259	+ 8.091	− .020
49	B. 625,	7	27 44.445	3.4279	+ .0020	16 6 21.16	0.336	+ 7.857	− .030
50	P. IV. 148,	6	34 52.864	3.7466	...	28 24 55.26	0.471	+ 7.280	...
51	90 Tauri,	4	32 23.977	3.3431	+ .0056	12 18 14.36	0.177	+ 7.481	− .006
52	P. IV. 185,	6	42 39.202	3.8734	...	32 24 25.73	0.465	+ 6.642	...
53	π^1 Orionis,	3	44 14.875	3.2230	+ .0298	6 46 52.24	0.137	+ 6.509	+ .016
54	4 Aurigæ,	5	52 15.795	4.0623	+ .0002	37 44 3.48	0.280	+ 5.842	− .099
55	μ Aurigæ,	5	5 6 22.709	4.1019	− .0047	38 21 44.01	0.070	+ 4.656	− .071
56	γ Orionis,	2	19 36.342	3.2169	− .0019	6 15 22 19	0.013	+ 3.516	− .015
57	22 Aurigæ,	7	16 51.467	3.7959	+ .0040	28 50 17.93	0.35	+ 3.839	− .020
58	116 Tauri,	6	21 50.512	3.4455	− .0004	15 47 12.66	0.261	+ 3.324	− .023
59	35 Orionis,	6	28 3.131	3.4086	...	14 13 59.65	0.35	+ 2.786	...
60	26 Aurigæ,	6	32 1.205	3.8520	− .0034	30 25 52.48	0.245	+ 2.444	+ .005
61	26 Aurigæ,	6	32 1.205	3.8520	− .0034	30 25 52.48	0.245	+ 2.444	+ .005
62	B. 823,	7	37 7.361	3.4076	...	14 7 43.35	0.35	+ 1.999	...
63	32 ν Aurigæ,	4	44 20.989	4.1572	− .0028	39 7 5.29	0.074	+ 1.371	+ .032
64	63 Orionis,	6	59 28.654	3.1996	...	5 25 31.51	0.238	+ 0.047	...
65	141 Tauri,	7	55 28.424	3.6235	− .0021	22 23 52.89	0.322	+ 0.398	− .012
66	P. V. 338,	7	6 3 19.840	3.6183	...	22 12 23.11	0.20	− 0.289	...
67	χ^4 Orionis,	5	5 57 48.162	3.5629	.0000	20 8 26.46	0.185	+ 0.195	+ .006
68	5 Geminorum,	6	6 5 13.327	3.6801	− .0007	24 36 33.50	0.204	− 0.455	− .046
69	9 Geminorum,	7	10 41.780	3.6611	+ .0020	23 46 32.66	0 267	− 0.936	+ .020
70	15 Geminorum,	7	21 38.251	3.5796	− .0035	20 51 9.10	0.157	− 1.889	− .031
71	49 Aurigæ,	5	28 42.866	3.7809	− .0007	28 6 9.09	0.168	− 2.505	− .014
72	γ Geminorum,	2	31 45.703	3.4645	+ .0023	16 29 13.52	0.055	− 2.769	− .035
73	25 Geminorum,	6	34 51.420	3.7839	− .0014	28 17 29.71	0.394	− 3.037	+ .004

Standard Catalogue of Hongkong Zenith Stars for 1897.00,—Continued.

No.	Name.	Mag.	R.A.	Prec.	P.M.	Decl.	P.E.	Prec.	P.M.
			h. m. s.	s.	s.	° ′ ″	″	″	″
74	33 Geminorum, ...	5	6 43 54.046	3.4570	− .0025	16 19 10.69	±0.35	− 3.816	+ .025
75	36 Geminorum, ...	5	45 22.691	3.5991	− .0015	21 52 57.23	0.072	− 3.943	− .038
76	44 Geminorum, ...	6	59 6.350	3.6158	− .0010	22 47 29.44	0.179	− 5.113	− .005
77	64 Aurigæ, ...	6	7 10 52.596	4.1823	+ .0005	41 3 57.74	0.153	− 6.102	+ .023
78	δ^2 Canis Min., ...	6	27 47.691	3.1488	− .0017	3 30 35.35	0.233	− 7.495	+ .045
79	ϕ Geminorum, ...	5	47 11.669	3.6815	− .0023	27 1 56.18	0.071	− 9.040	− .028
80	3 Cancri, ...	6	54 53.186	3.4443	− .0022	17 35 26.90	0.20	− 9.636	+ .010
81	B. 1158, ...	7	8 0 29.750	3.5576	− .0112	22 45 8.84	0.45	−10.064	− .050
82	μ^2 Cancri, ...	5	1 42.232	3.5356	+ .0012	21 52 50.74	0.134	−10.154	− .059
83	P. VIII.67, ...	5	20 23.321	3.2243	...	7 54 0.40	0.30	−11.530	...
84	32 Lyncis, ...	6	26 45.542	3.8742	− .0040	36 47 8.85	0.30	−11.944	+ .020
85	ρ^1 Cancri, ...	7	46 17.033	3.6189	− .0014	28 38 44.94	0.136	−13.305	+ .015
86	o^2 Cancri, ...	6	51 50.097	3.3528	+ .0031	15 58 36.51	0.30	−13.664	+ .036
87	66 Cancri, ...	6	55 5.221	3.6914	− .0018	32 39 17.47	0.132	−13.871	+ .032
88	P. IX. 35, ...	7	9 12 16.235	3.2614	..	11 55 57.37	0.45	−14.918	...
89	83 Cancri, ...	7	13 14.013	3.3640	− .0090	18 8 30.91	0.076	−14.974	− .139
90	B. 1319, ...	7	18 8.135	3.5026	− .0048	26 21 39.08	0.124	−15.257	− .016
91	ψ Leonis, ...	6	38 7.346	3.2732	− .0009	14 29 33.87	0.114	−16.331	− .002
92	P. IX. 221, ...	6	53 40.394	3.4792	+ .0160	30 8 17.32	0.437	−17.083	− .130
93	20 Leonis Min., ...	6	55 4.418	3.5131	− .0431	32 25 48.89	0.059	−17.147	− .427
94	P. IX. 237, ...	7	58 37.528	3.2178	...	12 7 34.53	0.35	−17.306	...
95	16 Sextantis, ...	7	10 3 51.068	3.1485	− .0018	6 40 32.38	0.017	−17.532	+ .011
96	G. 1619, ...	6	5 6.684	3.5729	...	37 54 33.49	0.45	−17.584	...
97	30 Leonis Min., ...	5	20 0.721	3.4584	− .0050	34 19 14.29	0.20	−18.174	− .080
98	45 Leonis, ...	6	22 12.579	3.1730	− .0011	10 17 14.92	0.12	−18.255	+ .015
99	46 ι Leonis, ...	6	26 41.903	3.2112	− .0040	14 39 57.00	0.038	−18.413	+ .024
100	43 Leonis Min., ...	6	43 16.550	3.3260	− .0030	29 57 38.84	0.089	−18.941	− .080
101	60 *b* Leonis, ...	5	56 49.873	3.2103	− .0029	20 43 56.40	0.080	−19.295	+ .047
102	64 Leonis, ...	6	11 2 8.940	3.2208	− .0024	23 52 50.17	0.264	−19.417	+ .016
103	54 ν Ursæ Maj., ...	4	12 55.087	3.2542	+ .0005	33 39 23.05	0.025	−19.631	+ .052
104	78 ι Leonis, ...	4	18 33.281	3.1198	+ .0085	11 5 47.87	0.088	−19.726	− .063
105	P. XI.111, ...	6	30 52.742	3.1641	...	28 21 1.86	0.051	−19.892	...
106	95 *o* Leonis, ...	5	50 22.727	3.0889	− .0004	16 13 11.97	0.235	−20.035	+ .018
107	1 Comæ, ...	7	56 27.755	3.0813	− .0051	22 40 5.23	0.080	−20.051	− .005
108	2 Comæ, ...	6	59 0.142	3.0745	+ .0016	22 1 58.20	0.142	−20.049	+ .004
109	6 Comæ, ...	5	12 10 46.397	3.0552	− .0067	15 28 20.83	0.107	−20.031	− .014
110	10 Comæ, ...	6	14 40.239	3.0252	+ .0130	29 2 9.56	0.300	−20.011	− .080
111	6 Canes Ven., ...	5	20 46.607	2.9725	− .0059	39 35 24.00	0.046	−19 970	− .026
112	P. XII. 95, ...	7	23 3.548	3.0610	...	4 58 1.63	0.448	−19.951	...
113	P. XII.122, ...	7	28 34.153	2.9613	− .0130	33 48 59.08	0.281	−19.897	− .070
114	ρ Virginis, ...	5	36 40.237	3.0319	+ .0033	10 48 11.42	0.114	−19.797	− .088
115	P. XII.180, ...	7	41 48.408	3.0450	...	6 30 53.55	0.45	−19.720	...
116	B. F. 1775, ...	6	45 17.234	2.8671	...	38 4 38.07	0.235	−19.563	...
117	P. XII.244, ...	7	55 30.575	2.8697	...	32 20 5.71	0.45	−19.488	...
118	P. XIII. 16, ...	6	13 7 25.427	2.9894	...	12 6 13.67	0.318	−19.192	...
119	59 Virginis, ...	5	11 39.762	3.0000	− .0238	9 57 44.58	0.038	−19.081	+ .201
120	P. XIII. 51, ...	6	13 41.562	2.7808	...	34 38 24.03	0.45	−19.025	...
121	P. XIII.136, ...	5	30 11 822	2.6762	+ .0043	37 42 36.06	0.063	−18.521	− .007
122	P. XIII. 194, ...	7	41 52.216	3.0014	− .0296	6 52 6.08	0 084	−18.104	− .122
123	η Bootis, ...	3	49 46.820	2.8615	− .0049	18 54 50.66	0.056	−17.797	− .344
124	12 *d* Bootis, ...	5	14 5 42.098	2.7390	− .0020	25 34 46.17	0.068	−17.112	− .081
125	P. XIV.45, ...	6	13 38.577	2.5382	− .0070	35 59 4.49	0.20	−16.740	.000
126	P. XIV. 75, ...	6	19 14.379	2.9579	...	8 33 18.39	0.404	−16.463	...
127	29 π^1 Bootis, ...	4	35 53.098	2.8178	− .0012	16 51 34.73	0.189	−15.591	− .020
128	36 ϵ^2 Bootis, ...	3	40 29.325	2.6239	− .0043	27 30 30.22	0.059	−15.335	+ .001
129	P. XIV.178, ...	7	41 14.854	2.8317	− .0026	15 33 51.27	0.45	−15.291	+ .005
130	P. XIV. 193, ...	6	45 32.596	2.5819	+ .0130	29 2 32.46	0.30	−15.046	− .020
131	49 δ Bootis, ...	4	15 11 21.031	2.4118	+ .0069	33 41 56.76	0.088	−13.461	− .105
132	13 δ Serpentis, ...	3	29 52.944	2.8688	− .0057	10 52 59.55	0.158	−12.217	+ .024
133	7 ζ Coronæ, ...	5	35 29.918	2.2597	− .0022	36 58 12.70	0.053	−11.823	− .001
134	27 λ Serpentis, ...	4	41 26.601	2.9244	− .0162	7 40 33.27	0.30	−11.399	− .057
135	P. XV.185, ...	5	44 19.845	2.4710	...	28 28 22.55	0.445	−11.190	...
136	41 γ Serpentis, ...	4	51 41.682	2.7477	+ .0194	15 59 52.05	0.085	−10.650	−1.286
137	13 ϵ Coronæ, ...	4	53 19.338	2.4885	− .0074	27 10 33.87	0.058	−10.529	− .062
138	7 κ Herculis, ...	5	16 3 25.476	2.7085	− .0061	17 19 16.38	0.050	− 9.766	− .011
139	B. 2060, ...	6	6 48 906	2.7143	− .0017	16 55 56.29	0.526	− 9.506	+ .005
140	P. XVI. 40, ...	7	11 35.327	2.4484	...	27 40 47.64	0.45	− 9.136	...
141	P. XVI.127, ...	7	30 6.024	2.0969	...	38 18 10.43	0.849	− 7.667	...
142	41 Herculis, ...	6	39 58.866	2.9342	− .0181	6 17 9.64	0.30	− 6.859	− .200
143	53 Herculis, ...	5	49 3.695	2.2809	− .0090	31 52 19.83	0.039	− 6.109	− .019
144	60 Herculis, ...	5	17 0 36.067	2.7773	+ .0030	12 52 56.28	0.075	− 5.139	− .002
145	63 Herculis, ...	6	6 47.406	2.4835	+ .0060	24 21 49.16	0.118	− 4.616	+ .066
146	P. XVII. 109, ...	5	22 22.386	2.5881	...	20 10 7.21	0.096	− 3.280	...

Standard Catalogue of Hongkong Zenith Stars for 1897.00,—Continued.

No.	Name.	Mag.	R.A.	Prec.	P.M.	Decl.	P.E.	Prec.	P.M.
			h. m. s.	s.	s.	° ′ ″	″	″	″
147	78 Herculis,	6	17 27 46.854	2.3545	+0.0003	28 28 55.57	±0.347	− 2.811	+0.039
148	P. XVII. 203,	6	37 21.276	2.6912	...	15 59 57.67	0.290	− 1.979	...
149	86 μ Herculis,	4	42 25.617	2.3703	− .0244	27 46 51.35	0.054	− 1.536	− .745
150	93 Herculis,	5	55 28.318	2.6702	− .0014	16 45 25.06	0.317	− 0.397	+ .009
151	70 Ophiuchi,	4	18 0 14.799	3.0136	+ .0131	2 31 24.48	0.240	+ 0.019	−1.109
152	G. 2533,	5	12 26.376	1.8654	− .0078	42 7 27.04	0.093	+ 1.087	+ .004
153	P. XVIII.133,	7	32 23.589	2.8074	...	11 20 6.21	0.35	+ 2.825	...
154	β¹ Lyræ,	4	46 16.629	2.2144	− .0007	33 14 35.46	0.072	+ 4.021	+ .017
155	β¹ Lyræ,	4	46 16.629	2.2144	− .0007	33 14 35.46	0.072	+ 4.021	+ .017
156	25 ω Aquilæ,	5	19 12 58.897	2.8165	− .0014	11 24 34.77	0.042	+ 6.277	+ .025
157	11 Aquilæ,	6	18 54 21.173	2.7611	− .0014	13 29 6.93	0.256	+ 4.712	− .113
158	19 Lyræ,	6	19 7 48.979	2.3009	− .0014	31 6 41.59	0.125	+ 5.847	+ .005
159	2 Sagittæ,	6	19 44.555	2.6947	− .0020	16 44 13.30	0.12	+ 6.836	+ .005
160	β Cygni,	3	26 34.038	2.4191	− .0017	27 44 35.71	0.096	+ 7.394	− .020
161	α Sagittæ,	4	35 29.560	2.6807	.0000	17 46 37.21	0.084	+ 8.114	− .012
162	B. 2510,	6	39 42.858	2.4580	+ .0020	26 53 20.46	0.202	+ 8.451	...
163	χ Cygni,	5	42 30.950	2.2750	− .0010	33 29 16.79	0.081	+ 8.672	− .434
164	φ Aquilæ,	6	51 21.700	2.8403	+ .0060	11 9 2.24	0.219	+ 9.365	+ .050
165	13 Sagittæ,	5	55 24.195	2.7094	− .0013	17 14 5.69	0.271	+ 9.675	− .011
166	15 Vulpeculæ,	5	56 51.510	2.4660	+ .0029	27 28 8.06	0.209	+ 9.786	+ .026
167	17 Vulpeculæ,	5	20 2 27.834	2.5767	.0000	23 19 3 22	0.057	+10.211	+ .004
168	18 Sagittæ,	6	11 48.165	2.6357	− .0009	21 16 57.83	0.145	+10.907	− .020
169	η Delphini,	5	29 4.738	2.8337	+ .0033	12 40 27.82	0.182	+12.143	+ .047
170	49 Cygni,	6	36 52.454	2.4269	+ .0006	31 56 27.21	0.086	+12.678	− .016
171	P. XX.393,	6	52 39.155	3.0080	...	3 47 54.27	0.35	+13.717	...
172	ν Cygni,	4	53 19.975	2.2342	.0000	40 46 13.94	0.135	+13.760	+ .001
173	P. XX.452,	6	58 23.950	2.2990	...	39 6 10.00	0.155	+14.080	...
174	4 Equulei,	6	21 0 20.571	2.9808	...	5 33 5.74	0.343	+14.201	...
175	τ Cygni,	4	10 40.731	2.3792	+ .0121	37 36 20.55	0.207	+14.824	+ .460
176	9 Equulei,	6	15 59.130	2.9663	+ .0040	6 55 4.64	0.416	+15.133	+ .010
177	P. XXI.120,	6	19 59.387	2.6586	− .0050	25 43 50.03	0.341	+15.361	− .110
178	5 Pegasi,	5	32 56.184	2.7994	+ .0053	18 51 18.39	0.12	+16.064	+ .026
179	κ Pegasi,	4	39 58.798	2.7122	.0000	25 10 17.46	0.039	+16.425	+ .013
180	P. XXI. 312,	6	46 43.990	2.8149	...	19 20 35.95	0.45	+16.757	...
181	G. 3571	7	44 2.698	2.4787	...	38 28 39.40	0.305	+16.627	...
182	18 Pegasi,	6	54 59.253	2.9971	+ .0030	6 13 26.00	0.192	+17.143	+ .040
183	P. XXII.36,	5	22 9 27.253	2.5668	...	39 12 13.51	0.061	+17.765	...
184	30 Pegasi,	5	15 16.595	3.0181	− .0010	5 16 18.18	0.105	+17.995	− .005
185	34 Pegasi,	5	21 22.770	3.0349	+ .0171	3 52 5.35	0.141	+18.225	+ .042
186	G. 3849,	7	35 29.961	2.6571	...	40 46 38.69	0.45	+18.705	...
187	13 Lacertæ,	5	39 29.778	2.6688	− .0029	41 16 42.88	0.060	+18.828	+ .012
188	B. F. 3143,	7	52 18.029	3.0505	...	3 15 30.11	0.274	+19.184	...
189	P. XXII.275,	7	55 28.023	3.0567	...	2 27 42.04	0.35	+19.263	...
190	2 Andromedæ,	6	57 51.806	2.7480	+ .0035	42 12 13.64	0.156	+19.320	− .014
191	β Pegasi,	2	58 46.795	2.8887	+ .0130	27 31 26.41	0.060	+19.341	+ .133
192	P. XXIII. 4,	6	23 5 35.551	2.9932	...	17 2 12.88	0.65	+19.491	...
193	P. XXIII.4,	6	5 35.551	2.9932	...	17 2 12.88	0.65	+19.491	...
194	61 Pegasi,	6	10 44.414	2.9230	.0000	27 41 10.34	0.243	+19.591	− .003
195	B. 3107,	7	17 38.572	2.9833	+ .0219	19 59 38.78	0.126	+19.711	− .020
196	69 Pegasi,	6	22 33.341	2.9731	+ .0040	24 36 4.59	0.35	+19.785	− .040
197	15 Andromedæ,	5	29 35.183	2.9258	− .0016	39 40 6.35	0.185	+19.876	− .038
198	ι Piscium,	4	34 39.114	3.0595	+ .0234	5 4 4.54	0.083	+19.930	− .443
199	76 Pegasi,	6	37 30.086	3.0356	+ .0044	15 45 49.99	0.257	+19.956	+ .012
200	78 Pegasi,	5	38 48.539	3.0047	+ .0053	28 47 27.52	0.039	+19.968	− .034
201	26 Piscium,	6	49 51.587	3.0659	+ .0005	6 29 53.44	0.151	+20.033	− .009
202	θ Andromedæ,	4	0 11 42.522	3.1260	− .0068	38 6 34.80	0.198	+20.027	− .007
203	α Orionis,	var.	5 49 35.698	3.2458	+ .0008	7 23 15.85	0.035	+ 0.911	+ .024
204	θ Aurigæ,	3	52 41.854	4.0871	+ .0037	37 12 18.81	0.024	+ 0.640	− .078

Table II.

Coefficients in Bessel's formulæ of reduction according to the notation of the Nautical Almanac.

No.	Log a'.	Log b'.	Log c'.	Log d'.	No.	Log a'.	Log b'.	Log c'.	Log d'.
1	+ 9 4815	+ 9.7825	+ 1.3012	− 8.8354	2	+ 9.6227	+ 9.0913	+ 1.3005	− 8.9485
3	+ 9.4602	+ 9.7338	+ 1.2981	− 9.1352	4	+ 9.5905	+ 9.2893	+ 1.2950	− 9.2570
5	+ 9.5465	+ 9.5468	+ 1.2973	− 9.1760	6	+ 9.5107	+ 9.5969	+ 1.2949	− 9.2594
7	+ 9.6117	+ 9.0614	+ 1.2945	− 9.2702	8	+ 9.3147	+ 9.7778	+ 1.2913	− 9.3441
9	+ 9.6004	+ 9.0921	+ 1.2883	− 9.3957	10	+ 9.2444	+ 9.7634	+ 1.2843	− 9.4493
11	+ 9.1482	+ 9.8043	+ 1.2848	− 9.4434	12	+ 9.6196	+ 8.7062	+ 1.2801	− 9.4928
13	+ 9.3895	+ 9.6299	+ 1.2793	− 9.5003	14	+ 9.4710	+ 9.4546	+ 1.2684	− 9.5794
15	+ 9.1597	+ 9.7558	+ 1.2767	− 9.5223	16	+ 9.5847	+ 9.0827	+ 1.2731	− 9.5492
17	+ 9.5829	+ 9.0581	+ 1.2673	− 9.5858	18	+ 8.9106	+ 9.7388	+ 1.2572	− 9.6362
19	+ 9.5148	+ 9.2547	+ 1.2462	− 9.6784	20	+ 9.0013	+ 9.6744	+ 1.2430	− 9.6888
21	+ 8.8267	+ 9.6868	+ 1.2359	− 9.7100	22	+ 9.5128	+ 9.1556	+ 1.2139	− 9.7619
23	+ 8.2341	+ 9.6503	+ 1.2023	− 9 7833	24	+ 9.4966	+ 9.1415	+ 1.1913	− 9.8010
25	+ 9.5003	+ 9.1337	+ 1.1920	− 9.8000	26	− 8.2588	+ 9.6305	+ 1.1781	− 9.8195
27	+ 9.3285	+ 9.3663	+ 1.1820	− 9.8142	28	+ 8.9593	+ 9.5325	+ 1.1801	− 9.8168
29	+ 8.9593	+ 9.5325	+ 1.1801	− 9.8168	30	+ 9.3189	+ 9.3475	+ 1.1688	− 9.8310
31	+ 9.3189	+ 9.3475	+ 1.1688	− 9.8310	32	+ 8.7707	+ 9.4927	+ 1.1398	− 9.8607
33	+ 9.3111	+ 9.3397	+ 1.1614	− 9.8393	34	+ 8.7707	+ 9.4927	+ 1.1398	− 9.8607
35	+ 9.1560	+ 9.3568	+ 1.1174	− 9.8791	36	+ 8.9094	+ 9.4276	+ 1.1143	− 9.8814
37	+ 9.4037	+ 9.1343	+ 1.0983	− 9.8923	38	− 8.7973	+ 9.4882	+ 1.0666	− 9.9105
39	+ 8.5840	+ 9.3775	+ 1.0494	− 9.9187	40	+ 9.0808	+ 9.2083	+ 0.9906	− 9.9409
41	− 9.1456	+ 9.4874	+ 1.0256	− 9.9288	42	+ 9.4627	+ 8.8647	+ 0.9726	− 9.9463
43	− 8.0835	+ 9.3597	+ 1.0002	− 9.9378	44	+ 9.1654	+ 9.1112	+ 0.9401	− 9.9546
45	+ 8.7954	+ 9.2036	+ 0.9313	− 9.9566	46	+ 8.7187	+ 9.2097	+ 0.9275	− 9.9574
47	− 8.9911	+ 9.3422	+ 0.9300	− 9.9569	48	+ 9.3185	+ 8 9740	+ 0.9080	− 9.9614
49	+ 9.2088	+ 9.0361	+ 0.8953	− 9.9638	50	− 8.7913	+ 9 2373	+ 0.8620	− 9.9693
51	+ 9.3543	+ 8.9001	+ 0.8739	− 9.9675	52	− 9.1445	+ 9.2490	+ 0.8222	− 9.9748
53	+ 9.5039	+ 8.5836	+ 0.8135	− 9.9758	54	− 9.3849	+ 9.2510	+ 0.7665	− 9.9808
55	− 9.4211	+ 9.1581	+ 0.6674	− 9.9880	56	+ 9.5106	+ 8.2808	+ 0.5461	− 9.9932
57	− 8.9728	+ 8.9554	+ 0.5743	− 9.9923	58	+ 9.1741	+ 8.6539	+ 0.5215	− 9.9940
59	+ 9.2478	+ 8.5336	+ 0.4451	− 9.9958	60	− 9.1104	+ 8.7902	+ 0.3878	− 9.9968
61	− 9.1104	+ 8.7902	+ 0.3878	− 9.9968	62	+ 9.2495	+ 8.3863	+ 0.3008	− 9.9978
63	− 9.4667	+ 8.6340	+ 0.1362	− 9.9990	64	+ 9.5279	+ 6.3276	+ 8.6535	− 0.0000
65	+ 8.3005	+ 7.8772	+ 9.5984	− 9.9999	66	+ 8.3763	− 7.7400	− 9.4649	− 0.0000
67	+ 8.7998	+ 7.5188	+ 9.2842	− 0 0000	68	− 8.2794	− 7.9740	− 9 6593	− 9.9999
69	− 7.7559	− 8.2746	− 9.9712	− 9.9995	70	+ 8.7088	− 8.5257	− 0.2765	− 9.9981
71	− 8.9276	− 8.7698	− 0.3990	− 9.9966	72	+ 9.1301	− 8.5933	− 0.4426	− 9.9958
73	− 8.9357	− 8.8559	− 0.4825	− 9.9950	74	+ 9.1475	− 8.7282	− 0.5818	− 9.9920
75	+ 8.5695	− 8.8653	− 0.5961	− 9.9914	76	+ 8.4080	− 8.9946	− 0.7088	− 9.9854
77	− 9.4754	− 9.3009	− 0.7856	− 9.9789	78	+ 9.5753	− 8.3603	− 0.8748	− 9.9673
79	− 8.2866	− 9.3116	− 0.9563	− 9.9506	80	+ 9.1720	− 9.1618	− 0.9839	− 9.9430
81	+ 8.8165	− 9.2880	− 1.0028	− 9.9370	82	+ 8.9088	− 9.2759	− 1.0067	− 9.9357
83	+ 9.5013	− 8.8977	− 1.0618	− 9.9129	84	− 9.1227	− 9.5536	− 1.0785	− 9.9041
85	+ 8.3402	− 9.5027	− 1.1241	− 9.8740	86	+ 9.3336	− 9.2733	− 1.1356	− 9.8644
87	− 8.3848	− 9.5720	− 1.1422	− 9.8586	88	+ 9.4568	− 9.1871	− 1.1738	− 9.8249
89	+ 9.3119	− 9.3667	− 1.1754	− 9.8229	90	+ 9.0023	− 9.5288	− 1.1835	− 9.8122
91	+ 9.4389	− 9.3094	− 1.2130	− 9.7636	92	+ 9.0502	− 9.6311	− 1.2326	− 9.7191
93	+ 8.9447	− 9.6614	− 1.2342	− 9.7148	94	+ 9.5023	− 9.2586	− 1.2382	− 9.7034
95	+ 9.5733	− 9.0076	− 1.2439	− 9.6861	96	+ 8.6707	− 9.7315	− 1.2452	− 9.6818
97	+ 9.0794	− 9.7084	− 1.2595	− 9.6259	98	+ 9.5477	− 9.2109	− 1.2614	− 9.6168
99	+ 9.5044	− 9.3665	− 1.2652	− 9.5976	100	+ 9.3258	− 9.6737	− 1.2774	− 9.5166
101	+ 9.4905	− 9.5323	− 1.2855	− 9.4348	102	+ 9.4706	− 9.5933	− 1.2882	− 9.3975
103	+ 9.3946	− 9.7344	− 1.2930	− 9.3096	104	+ 9.5922	− 9.2774	− 1.2951	− 9.2550
105	+ 9.5073	− 9.6731	− 1.2987	− 9.1028	106	+ 9.6073	− 9.4456	− 1.3018	− 8.6225
107	+ 9.5959	− 9.5858	− 1.3021	− 8.1879	108	+ 9.6025	− 9.5742	− 1.3022	− 7.6398
109	+ 9.6341	− 9.4255	− 1.3017	+ 8.6717	110	+ 9.6132	− 9.6851	− 1.3013	+ 8.8059
111	+ 9.5932	− 9.8025	− 1.3004	+ 8.9569	112	+ 9.6443	− 8.9352	− 1.3000	+ 9.0018
113	+ 9.6330	− 9.7421	− 1.2988	+ 9.0945	114	+ 9.6590	− 9.2671	− 1.2966	+ 9.2022
115	+ 9.6548	− 9.0477	− 1.2949	+ 9.2586	116	+ 9.6652	− 9.7816	− 1.2937	+ 9.2931
117	+ 9.6844	− 9.7153	− 1.2893	+ 9.3800	118	+ 9.6857	− 9.3023	− 1.2831	+ 9.4623
119	+ 9.6817	− 9.2166	− 1.2806	+ 9.4880	120	+ 9.7296	− 9.7320	− 1.2794	+ 9.4997
121	+ 9.7618	− 9.7521	− 1.2677	+ 9.5838	122	+ 9.6831	− 9.0332	− 1.2578	+ 9.6335
123	+ 9.7481	− 9.4589	− 1.2503	+ 9.6636	124	+ 9.7898	− 9.5664	− 1.2333	+ 9.7172
125	+ 9.8290	− 9.6905	− 1.2237	+ 9.7409	126	+ 9.7108	− 9.0866	− 1.2166	+ 9.7565
127	+ 9.7764	− 9.3531	− 1.1929	+ 9.7985	128	+ 9.8339	− 9.5485	− 1.1857	+ 9.8092
129	+ 9.7719	− 9.3110	− 1.1845	+ 9.8109	130	+ 9.8453	− 9.5615	− 1.1774	+ 9.8203
131	+ 9.8878	− 9.5711	− 1.1291	+ 9.8700	132	+ 9.7602	− 9.0608	− 1.0870	+ 9.8993
133	+ 9.9204	− 9.5496	− 1.0727	+ 9.9073	134	+ 9.7324	− 8.8807	− 1.0568	+ 9.9153
135	+ 9 8903	− 9.4248	− 1.0488	+ 9.9190	136	+ 9.8132	− 9.1654	− 1.0273	+ 9.9281
137	+ 9.8893	− 9.3800	− 1.0224	+ 9.9300	138	+ 9.8287	− 9.1613	− 0.9898	+ 9.9412
139	+ 9.8270	− 9.1401	− 0.9780	+ 9.9447	140	+ 9.9017	− 9.3253	− 0.9607	+ 9.9495
141	+ 9.9605	− 9.3746	− 0.8846	+ 9.9657	142	+ 9.7276	− 8.5733	− 0.8363	+ 9.9730
143	+ 9.9403	− 9.2063	− 0.7859	+ 9.9789	144	+ 9.8052	− 8.7569	− 0.7109	+ 9.9853
145	+ 9.9012	− 8.9775	− 0.6642	+ 9.9882	146	+ 9.8736	− 8.7509	− 0.5156	+ 9.9941
147	+ 9.9311	− 8.8249	− 0.4487	+ 9.9957	148	+ 9.8397	− 8.4342	− 0.2961	+ 9.9979

Table II,—*Continued.*

Coefficients in Bessel's formulæ of reduction according to the notation of the Nautical Almanac,—Continued.

No.	Log a′.	Log b′.	Log c′.	Log d′.	No.	Log a′.	Log b′.	Log c′.	Log d′.
149	+ 9.9286	− 8.5526	− 0.1863	+ 9.9987	150	+ 9.8474	− 7.7559	− 9.5934	+ 9.9999
151	+ 9.6788	+ 5.6548	+ 8.3144	+ 0.0000	152	+ 9.9963	+ 8.5607	+ 0.0364	+ 9.9994
153	+ 9.7923	+ 8.4423	+ 0.4511	+ 9.9956	154	+ 9.9542	+ 9.0413	+ 0.6045	+ 9.9911
155	+ 9.9542	+ 9.0413	+ 0.6045	+ 9.9911	156	+ 9.7876	+ 8.7922	+ 0.7979	+ 9.9776
157	+ 9.8119	+ 8.7386	+ 0.6731	+ 9.9877	158	+ 9.9373	+ 9.1781	+ 0.7670	+ 9.9807
159	+ 9.8365	+ 8.9920	+ 0.8349	+ 9.9732	160	+ 9.9121	+ 9.2348	+ 0.8690	+ 9.9683
161	+ 9.8403	+ 9.0921	+ 0.9094	+ 9.9612	162	+ 9.9015	+ 9.2801	+ 0.9270	+ 9.9575
163	+ 9.9341	+ 9.3777	+ 0.9382	+ 9.9550	164	+ 9.7757	+ 8.9557	+ 0.9715	+ 9.9466
165	+ 9.8286	+ 9.1552	+ 0.9857	+ 9.9425	166	+ 9.8962	+ 9.3524	+ 0.9907	+ 9.9409
167	+ 9.8687	+ 9.3045	+ 1.0092	+ 9.9348	168	+ 9.8505	+ 9.2954	+ 1.0377	+ 9.9238
169	+ 9.7765	+ 9.1232	+ 1.0844	+ 9.9008	170	+ 9.8909	+ 9.5243	+ 1.1031	+ 9.8892
171	+ 9.6823	+ 8.6564	+ 1.1373	+ 9.8630	172	+ 9.9050	+ 9.6514	+ 1.1387	+ 9.8618
173	+ 9.8953	+ 9.6462	+ 1.1486	+ 9.8525	174	+ 9.6990	+ 8.8357	+ 1.1524	+ 9.8488
175	+ 9.8777	+ 9.6542	+ 1.1710	+ 9.8283	176	+ 9.7073	+ 8.9585	+ 1.1800	+ 9.8170
177	+ 9.8260	+ 9.5219	+ 1.1864	+ 9.8081	178	+ 9.7790	+ 9.4130	+ 1.2059	+ 9.7710
179	+ 9.8038	+ 9.5419	+ 1.2155	+ 9.7586	180	+ 9.7719	+ 9.4423	+ 1.2242	+ 9.7398
181	+ 9.8372	+ 9.7126	+ 1.2208	+ 9.7474	182	+ 9.6879	+ 8.9665	+ 1.2341	+ 9.7150
183	+ 9.7988	+ 9.7481	+ 1.2496	+ 9.6664	184	+ 9.6744	+ 8.9158	+ 1.2552	+ 9.6446
185	+ 9.6636	+ 8.7874	+ 1.2607	+ 9.6203	186	+ 9.7512	+ 9.7847	+ 1.2720	+ 9.5568
187	+ 9.7428	+ 9.7920	+ 1.2748	+ 9.5366	188	+ 9.6529	+ 8.7365	+ 1.2830	+ 9.4641
189	+ 9.6487	+ 8.6165	+ 1.2848	+ 9.4438	190	+ 9.7000	+ 9.8110	+ 1.2860	+ 9.4278
191	+ 9.7047	+ 9.6489	+ 1.2865	+ 9.4215	192	+ 9.6845	+ 9.4545	+ 1.2899	+ 9.3713
193	+ 9.6845	+ 9.4545	+ 1.2899	+ 9.3713	194	+ 9.6842	+ 9.6570	+ 1.2921	+ 9.3290
195	+ 9.6725	+ 9.5266	+ 1.2947	+ 9.2642	196	+ 9.6648	+ 9.6136	+ 1.2964	+ 9.2113
197	+ 9.6216	+ 9.8012	+ 1.2984	+ 9.1217	198	+ 9.6453	+ 8.9433	+ 1.2995	+ 9.0429
199	+ 9.6475	+ 9.4320	+ 1.3001	+ 8.9913	200	+ 9.6280	+ 9.6807	+ 1.3003	+ 8.9652
201	+ 9.6395	+ 9.0535	+ 1.3018	+ 8.6454	202	+ 9.4910	+ 9.7899	+ 1.3016	− 8.7084
203	+ 9.4797	+ 7.7668	+ 9.9597	− 9.9996	204	− 9.4130	+ 8.2882	+ 9.8068	− 9.9997

Table III.

List of Authorities upon which the Catalogue of Hongkong Zenith Stars is based, together with relative Weights of the Declinations in the same, and Probable Errors of the Mean Declinations of Pairs of Stars.

No.	Authorities.	W.	No.	Authorities.	W.	P.E.	Square.
						″	
1	Gr. IX, Gr. X, Rom.,	6	2	Gr. X, Gl., Rad.,	5½	± 0.035	0.0012
3	Gr. IX, Gr. X, Rad., Auw., Romb., Nyr.,	13	4	Gr. X, Gr. 92, Gl.,	3½	.039	.0015
5	Gr. VII, Gl., Ber. I,	2	6	Gr. X, Auw., Romb., Nyr.,	12	.084	.0071
7	Gr. VII, Gl., Lpz., Romb.,	3	8	Gr. X, Gr. V, Gr. 92, Rad., Auw., Romb., Nyr.,	18	.082	.0066
9	Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	22	10	Gr. VII, Lu., Romb.,	2½	.083	.0069
11	Gr. VII, Bo.,	1½	12	Gr. IX, Gr. X, Gr. 92, Alb.,	6	.186	.0345
13	Gr. IX, Auw., Romb., Nyr.,	8	14	Gr. IX, Gr. X, Romb.,	4	.129	.0165
15	Gr. VII, Lu.,	1½	16	Gl., Lpz.,	1½	.248	.0613
17	Gr. IX, Gr. 92, Romb.,	3	18	Gr. IX, Gr. X, Romb.,	8	.056	.0031
19	Gr. IX, Gr. X, Gr. 92, Gl., Rad.,	7½	20	Gr. IX, Gr. X, Gl., Romb.,	8	.113	.0128
21	Gr. IX, Gr. X, Gr. 92, Auw., Romb., Nyr.,	12	22	Gr. IX, Gr. 92, Gl.,	2½	.121	.0147
23	Gr. IX, Gr. X, Gl., Romb.,	5½	24	Gr. IX, Gr. X, Gl.,	2½	.228	.0521
25	Gr. VII, Lpz.,	1½	26	Gr. IX, Gl., Leid.,	2½	.313	.0977
27	Gr. IX, Gr. X, Gr. 92, Gl., Rad.,	4½	28	Gr. IX, Gr. X, Rad., Auw., Romb., Nyr.,	14	.217	.0470
29	Same as No. 28,	14	30	Gr. IX, Gr. X, Gr. 92, Gl., Romb.,	5½	.093	.0087
31	Same as No. 30,	5½	32	Gr. X, Cam., Romb.,	3	.073	.0053
33	Gr. VII, Gl. Romb.,	2	34	Same as No. 32,	3	.023	.0005
35	Gr. IX, Gr. X, Gl., Ber. I,	3½	36	Gr. IX, Gr. X, Ber. 1,	6	.168	.0283
37	Gr. IX, Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	19½	38	Gr. IX, Gr. X, Auw., Romb., Nyr.,	10	.027	.0007
39	Gr. X, Gl., Ber. I, Romb.,	4½	40	Gr. IX, Gr. X, Gr. V, Gr. 92, Gl., Rad.,	11½	.156	.0242
41	Gr. IX, Gr. X, Rad., Auw., Romb., Nyr.,	11	42	Gr. VII, Gl., Lpz.,	2	.203	.0414
43	Gr. X, Cam.,	2	44	Gr. IX, Gr. X, Rad., Auw., Romb., Nyr.,	12	.154	.0236
45	Gr. IX, Gr. X, Ber. I,	4	46	Gr. IX, Gr. X, Rad., Ber. I,	5	.064	.0041
47	Gl., Leid.,	1½	48	Gr. VII, Gl., Lpz.,	2	.218	.0474
49	Gr. VII, Gl.,	1	50	Gr. IX, Gr. X, Gl.,	3½	.289	.0837
51	Gr. IX, Gr. X, Gr. 92,	3	52	Gr. IX, Gl., Leid.,	2½	.249	.0619
53	Gr. X, Gr. 92, Lpz., Romb. Nyr.,	7	54	Gr. X, Lu., Romb.,	4	.156	.0243
55	Gr. IX, Gr. X, Gr. 92, Auw., Romb.,	9	56	Gr. IX, Auw., Romb., Nyr.,	9	.036	.0013
57	Gr. VII, Cam.,	1½	58	Gr. IX, Ber. II,	3	.218	.0477
59	Gl., Lpz.,	1½	60	Gr. IX, Gr. X, Leid., Romb.,	4	.214	.0456
61	Same as No. 60,	4	62	Gl., Lpz.,	1½	.214	.0456
63	Gr. X, Auw., Romb., Nyr.,	11	64	Gr. X, Gl., Lpz.,	2½	·125	.0155
65	Gr. X, Gl., Ber. I,	3½	66	Gr. X, Ber. I,	3	.190	.0359
67	Gr. IX, Gr. X, Rad., Ber. I,	6	68	Gr. IX, Gr. X, Ber. I,	3	.138	.0190
69	Gr. VII, Gl., Ber. I,	2	70	Gr. IX, Gr. X, Ber. I, Romb.,	6	.155	.0240
71	Gr. IX, Gr. X, Gr. 92,	5	72	Gr. IX, Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	25	.088	.0078
73	Gr. IX, Gr. X, Gl.,	2½	74	Gr. X, Gl.,	1½	.264	.0694
75	Gr. X, Gr. 92, Ber. I,	4	76	Gr. X, Gl., Ber I, Nyr,	4½	.097	.0093
77	Gr. X, Auw., Romb.,	7	78	Gr. VII, Gl., Alb.,	2	.139	.0194
79	Gr. IX, Gr. X, Gr. 92,	5	80	Gr. IX, Gr. X,	3	.106	.0113
81	Ber. I,	1	82	Gr. IX, Gr. X, Gl., Ber. I, Romb.,	6½	.235	.0551
83	Gr. X, Lpz.,	2	84	Gr. IX, Lu.,	2	.212	.0450
85	Gr. IX, Gr. X, Gl.,	4½	86	Gr. X,	2	.165	.0271
87	Gr. IX, Gr. X, Gl., Romb.,	4½	88	Lpz.,	1	.235	.0550
89	Gr. IX, Gr. X, Gr. 92, Gl., Rad., Auw., Romb.,	19	90	Gr. VII, Gl., Cam., Romb.,	3	.073	.0053
91	Gr. IX, Gr. X, Gl., Rad.,	4½	92	Gr. IX, Lei, Cam.,	3	.226	.0510
93	Gr. IX, Gr. X, Romb.,	7	94	Gl., Lpz.,	1½	.178	.0315
95	Gr. X, Gl., Rad.,	4½	96	Lu.,	1	.225	.0507
97	Gr. IX, Lei.,	3	98	Gr. IX., Gl.,	4½	.117	.0136
99	Gr. IX, Gr. X, Gr. 92,	6	100	Gr. VII, Lei, Cam.,	2½	.048	.0023
101	Gr. IX, Gr. X, Gr. 92, Ber. I, Nyr.,	7	102	Gr. VII, Ber. I,	1½	.138	.0190
103	Gr. IX, Gr. X, Auw., Romb., Nyr.,	12	104	Gr. IX, Gr. X, Gl., Auw., Romb., Nyr.,	13½	.046	.0021
105	Gr. IX, Gr. X, Romb.,	6	106	Gr. IX, Gr. X, Ber. II,	3	.120	.0145
107	Gr. IX, Gr. X, Gr. 92, Ber. I, Romb.,	11	108	Gr. VII, Ber. I, Romb.,	2½	.082	.0066
109	Gr. IX, Gr. X, Gl., Romb.,	4½	110	Gr. VII, Gl., Cam.,	2	.159	.0254
111	Gr. X, Gl., Auw., Romb.,	7½	112	Gl., Lpz.,	1½	.225	.0507
113	Gr. VII, Gr. IX, Gl., Lei.,	3	114	Gr. IX, Gr. X, Gr. V, Gr. 92, Gl., Rad., Romb.,	15½	.152	.0230
115	Lpz.,	1	116	Gr. IX, Gr. V, Gl., Romb.,	4½	.254	.0644
117	Lei.,	1	118	Gr. X, Gl.,	2½	.276	.0759
119	Gr. X, Lpz., Romb.,	4	120	Lei.,	1	.226	.0510
121	Gr. IX, Gr. X, Rad., Auw., Romb.,	10	122	Gl., Lpz., Romb.,	2½	.053	.0028
123	Gr. IX, Gr. X, Gr. V, Gr. 92, Rad., Auw., Romb., Nyr.,	24	124	Gr. IX, Gr. X, Gr. 92, Auw., Romb.,	10	.044	.0019
125	Gr. IX, Gr. X,	3	126	Gl., Lpz.,	1½	.225	.0508
127	Gr. X, Gl., Auw., Romb., Nyr.,	11½	128	Gr. IX, Gr. X. Gr. V, Gr. 92, Gl., Rad., Romb., Nyr.,	25	.099	.0098
129	Ber. II,	1	130	Gr. IX, Cam.,	2	.270	.0731

TABLE III.,—*Continued.*

No.	Authorities.	W.	No.	Authorities.	W.	P.E.	Square.
						"	
131	Gr. IX, Gr. X, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	15½	132	Gr. X, Romb., Nyr.,	7	±0.090	.0082
133	Gr. IX, Gr. X, Gr. 92, Auw., Romb., Nyr.,	12	134	Gr. X, Lpz.,	2	.152	.0232
135	Gr. X, Gl.,	2½	136	Gr. X, Gr. V, Gr. 92, Rad., Auw., Romb., Nyr.,	20	.227	.0513
137	Gr. IX, Gr. X, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	17½	138	Gr. IX, Gr. X, Romb.,	6	.038	.0015
139	Gr. X, Ber. II,	2	140	Cam.,	1	.346	.1198
141	Gr. IX, Gr. X, Gl.,	2½	142	Lpz., Romb.,	2	.450	.2027
143	Gr. IX, Gr. X, Romb.,	9	144	Gr. VII, Gl., Rad., Auw., Romb.,	9½	.042	.0018
145	Gr. IX, Gr. X, Gl., Ber. I,	4½	146	Gr. IX, Gr. X, Gr. 92, Gl., Ber. I,	9½	.076	.0058
147	Gr. IX, Gr. X,	3	148	Gr. IX, Gr. X,	4	.226	.0511
149	Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	25	150	Gr. X, Gl., Ber. II,	2½	.161	.0259
151	Gr. IX, Gr. X, Gl., Alb., Romb.,	4½	152	Gr. IX, Gr. X, Auw., Romb., Nyr.,	9	.129	.0166
153	Gl., Lpz.,	1½	154	Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	24	.179	.0319
155	Same as No. 154,	24	156	Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb.,	21	.042	.0017
157	Gr. VII, Gl., Lpz., Romb.,	8	158	Gr. IX, Gr. X, Gl.,	7½	.142	.0203
159	Gr. X, Gl.,	4½	160	Gr. X, Gr. 92, Gl., Auw., Romb., Nyr.,	15½	.077	.0059
161	Gr. IX, Gr. X, Gr. 92, Gl., Nyr.,	7½	162	Gr. VII, Gl., Cam.,	2	.109	.0120
163	Gr. IX, Gr. X, Romb.,	6	164	Gr. VII, Gl., Lpz.,	2	.117	.0136
165	Gr. IX, Gr. X, Gl.,	4	166	Gr. IX, Gr. X,	4	.171	.0293
167	Gr. IX, Gr. X, Gl., Ber. I,	8½	168	Gr. VII, Gl., Ber. I,	2	.078	.0061
169	Gr. IX, Gr. X, Gr. 92, Gl.,	4½	170	Gr. IX, Gr. X, Gr. 92, Gl.,	6½	.101	.0101
171	Gl., Alb.,	1½	172	Gr. VII, Rad., Auw., Romb., Nyr.,	12	.188	.0352
173	Gr. IX, Gr. X, Gl.,	5½	174	Gl., Lpz.	1½	.188	.0352
175	Gr. IX, Gr. X, Gr. 92, Auw., Romb., Nyr.,	11	176	Gr. VII, Gl., Lpz.,	2	.232	.0540
177	Gr. VII, Gl., Cam.,	2	178	Gr. IX, Gr. X,	4	.181	.0327
179	Gr. IX, Gr. X, Rad., Auw., Romb., Nyr.,	15	180	Gr. X,	1	.226	.0510
181	Gr. IX, Gr. X, Gl.,	3½	182	Gr. VII, Gl., Lpz.,	2	.180	.0325
183	Gr. IX, Gr. X, Gl., Romb.,	5½	184	Gr. X, Gl., Alb., Romb.,	3½	.061	.0037
185	Gr. VII, Gl., Alb., Romb.,	3	186	Bo.,	1	.236	.0556
187	Gr. X, Gl., Auw., Romb.,	6½	188	Gl., Alb., Romb,	2½	.140	.0197
189	Gl., Alb.,	1½	190	Gr. VII, Gl., Bo., Romb.,	3	.192	.0367
191	Gr. IX, Gr. X, Gr. 92, Rad., Auw., Romb., Nyr.,	16	192	Gl.,	½	.326	.1065
193	Same as No. 192,	½	194	Gr. IX, Gr. X, Gl.,	6	.347	.1204
195	Gr. VII, Gl., Romb.,	2	196	Gr. VII, Ber. I,	1½	.186	.0346
197	Gr. IX, Gr. X, Gr. 92, Gl.,	3½	198	Gr. X, Gr. V, Gr. 92, Gl., Rad., Auw., Romb., Nyr.,	24	.101	.0103
199	Gr. IX, Gr. X, Gr. 92, Gl.,	4½	200	Gr. IX, Gr. X, Rad.,	7	.130	.0169
201	Gr. VII, Gr. X, Gl., Lpz.,	3	202	Gr. IX, Gr. X, Romb.,	4	.125	.0155
203	Gr. X, Gr. V, Nyr., Auw., Rad., Romb.,	20	204	Gr. X, Nyr., Auw., Romb.,	13	.021	.0005

Table I exhibits the co-ordinates, etc. of the stars for 1897.00. No new proper motions have been determined, as I am not in possession of a sufficient number of old catalogues. The P.E. of the declinations are computed from the differences between declinations given in the different catalogues, adopting the weights (W) as previously explained. When the star was found in only one or two catalogues, the P.E. was generally not calculated but adopted as follows:—W=4: P.E.=0.″12, W=3: P.E.= 0.″20, W=2: P.E.=0.″30, W=1½: P.E.=0.″35, W=1: P.E.=0.″45, W=½: P.E.=0.″65.

Table II exhibits the coefficients for calculating apparent places by aid of the Nautical Almanac.

Table III exhibits the authorities for the positions given in Table I and the consequent weights of the positions there given and also the P.E. of the mean of the declinations of pairs of stars, calculated from the P.E. of declinations given in Table I, and also the squares of those P.E.

I have also used Table I to calculate the P.E. of the declinations given in different catalogues from the differences between the declinations given in these catalogues and the declinations given in Table I and their P.E. I obtained thus:—Gr. IX±0.″206, Gr. X±0.″146, Gr. V±0.″157, Gl. ±0.″650, Auw. ±0.″122, Romb±0.″116, Nyr. ±0.″076, Rad±0.″223. It must be clearly understood that the value of these different catalogues is in no way gauged by the P.E. *e.g.* the small P.E. in Nyren's catalogue has been obtained by that observer only by confining himself to declinations solely during about a quarter of a century, and moreover to declinations of only about 450 stars, whereas other catalogues contain several thousand stars, some of which (here used) were observed only a few times. This of course increases their P.E., when it is obtained in the manner here adopted *i.e.* without taking the number of observations into account. The Glasgow catalogue was constructed by aid of a very old and defective transit-circle by Ertel.

Part II.—The Instrument and Method of Observation and Reduction.

The observations were made with the transit-instrument, constructed by Troughton and Simms in 1883. It is furnished with a level, revolving at right angles to the axis, and the part of the eyepiece carrying the moveable wire can be revolved a quarter circumference round its axis, according to the suggestion made many years ago by Professor C. S. Lyman of Yale College. As the same instrument at the same time served for observations of zenith-distances according to Talcott's method, for the determination of the value of a revolution of the screw by aid of transits, and for the time-service, I removed all the fixed wires and left only the moveable wire. For determining differences of zenith-distance this is used in the horizontal position, and when transits are to be observed it is revolved 90°. Transits of stars for time are obtained, using the chronograph, by observing over the same wire, advanced successively ten revolutions, instead of using different wires. Thus each transit gives a value of the revolution of the screw. The time is moreover determined as accurately in this way as by fixed wires, and the constants of the instrument, including the wire intervals, are determined with special ease and accuracy, so that this method can be recommended for similar use elsewhere, but of course not for forming star-catalogues.

It appears that the transits give the value of a screw revolution with very nearly the same accuracy, whatever is the declination of the star (transits of the sun were never used for anything but determination of time and close polar stars were not observed).

Value of one revolution of the micrometer-screw.

Period.	Value.	Th.	Period.	Value.	Th.
1896 Sep. 22 – 25	60″.532	80°	1896 Dec. 23-Jan. 4	60″.488	62°
„ „ 25 – 26	.500	81	1897 Jan. 4 – 18	.480	63
„ „ 26-Oct. 9	.505	80	„ „ 25-Feb. 11	.550	59
„ Oct. 10 – 20	.485	76	„ June. 3-Sept. 20	.510	83
„ „ 20-Nov. 10	.542	76	„ Sept. 20 – 23	.503	85
„ Nov. 16-Dec. 7	.525	68	„ „ 23 – 28	.518	86
„ Dec. 7 – 16	.541	69	„ „ 28-Oct. 1	.520	88
„ 22	.570	51	„ Oct. 1-Nov. 2	.536	83

The mean is 60″.5191±0″.0043, which has been adopted throughout. The temperature-coefficient due to the expansion of the steel-screw is counteracted by the expansion of the brass and amounts to nothing. It was thought that the observer's hand touching the head of the screw would in cold weather warm the eyepiece more than the tube nearer the object glass and thus possibly cause a change of scale-value with temperature but such has been found not to be the case.

Each of the values given in the table is the mean of ten transits over twenty revolutions of the screw. It follows that the probable error of a transit taken by Mr. J. I. Plummer over the wire is +0ˢ.051, which is very small. Possibly the P.E. obtained in case of transits, over fixed wires are increased owing to changes of wire-intervals caused by changes of humidity, which must escape the observers' attention.

The value of one division of the level was determined in parts of one revolution of the micrometer, by repetition, pointing the telescope on the north collimator and going through about 5 revolutions of the screw. Each day this was done 4 times and the mean taken. Then the value was converted into seconds of arc: September 25th 1″.189±0″.0022 (Th. 85°). December 22nd-23rd 1″.197±0″.004 (Th. 52°). The value 1″.193 has been adopted throughout.

In order to examine into the equality of the values of different revolutions of the screw (R), two black dots which appeared to be about four minutes of arc apart were fixed on paper vertically one above the other on the north collimator and their distance as under was measured on different parts of the screw *(r.)*

r.	*March* 16.	*March* 19.	*March* 22.	*March* 23.
18–22	3.9842	3.9972	3.9824	3.9850
22–26	.9790	.9948	.9822	.9854
26–30	(.9855)	4.0000	.9860	.9834
30–34	(.9860)	3.9964	.9876	.9914
34–38	.9832	.9940	.9822	.9870
38–42	.9812	.9960	.9832	.9914
42–46	.9764	.9986	.9812	.9844
46–50	.9774	.9972	.9814	.9814
50–54	.9764	.9966	.9794	.9812
54–58	.9808	.9958	.9772	.9812
58–62	.9762	.9956	.9782	.9794

In consequence of these measures we must now write: $R=60''.5191 \pm 0''.0043 + (0''.00201 + 0''.00055)\ (r-40.000)$.

With readings above $r=55$ the screw begins to move stiffly as the spring is at that time considerably compressed. That is not of serious moment but with readings below $r=30$ as at least $r=25$ an error is frequently introduced by the spring, which is then much relaxed, ceasing to act with the necessary force.

During the latter part of March and the beginning of April, 1897, the following observations were made on points marked on paper about 6″ asunder to determine the periodic errors of the micrometer-screw (the column marked .00 means from 0.00 to 0.10):—

r.	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90
25	.118	.124	.125	.120	.117	.120	.119	.112	.114	.123
26	.124	.119	.124	.109	.111	.126	.113	.109	.119	.123
27	.118	.118	.122	.117	.115	.124	.112	.112	.116	.124
28	.116	.113	.120	.115	.113	.124	.118	.119	.112	.117
29	.124	.118	.115	.118	.112	.120	.115	.114	.113	.125
30	.121	.116	.120	.119	.110	.122	.115	.113	.111	.121
31	.115	.117	.117	.117	.108	.121	.121	.116	.114	.124
32	.124	.116	.117	.113	.110	.120	.114	.111	.111	.116
33	.119	.112	.121	.118	.114	.119	.105	.101	.109	.123
34	.120	.113	.117	.109	.122	.123	.122	.110	.111	.118
35	.128	.113	.131	.120	.111	.129	.117	.119	.114	.125
36	.125	.115	.119	.119	.105	.133	.118	.114	.117	.120
37	.120	.117	.120	.113	.113	.128	.118	.112	.114	.122
38	.123	.114	.117	.115	.117	.125	.120	.118	.110	.130
39	.117	.113	.117	.118	.109	.121	.117	.113	.111	.126
40	.120	.119	.121	.116	.115	.132	.109	.114	.112	.126
41	.121	.115	.113	.109	.113	.127	.119	.116	.116	.127
42	.125	.120	.118	.114	.117	.126	.114	.113	.111	.123
43	.120	.118	.122	.119	.117	.125	.115	.117	.112	.126
44	.120	.111	.115	.118	.115	.130	.117	.113	.111	.122
45	.124	.121	.125	.122	.116	.121	.117	.117	.117	.127
46	.123	.116	.116	.121	.117	.123	.112	.115	.113	.125
47	.122	.114	.113	.116	.115	.122	.110	.119	.114	.118
48	.116	.119	.116	.114	.112	.127	.112	.112	.117	.119
49	.121	.114	.122	.111	.111	.124	.115	.114	.108	.121
50	.118	.111	.109	.112	.117	.122	.108	.115	.113	.123
51	.120	.119	.116	.111	.113	.124	.118	.115	.113	.127
52	.123	.118	.112	.114	.119	.124	.115	.117	.116	.122
53	.117	.116	.115	.119	.115	.123	.114	.113	.113	.125
54	.122	.109	.114	.118	.113	.126	.113	.116	.116	.124

From these measures (which serve only for the determination of periodic errors and are not suited for the determination of progressive errors) we obtain the following corrections for periodic errors:

r.	.00	.10	.20	.30	.40	.50	.60	.70	.80	.90
25–29	−.0020	−.0027	−.0060	−.0012	−.0002	−.0054	−.0032	+.0012	+.0042	−.0005
30–34	−.0038	−.0027	−.0052	−.0015	−.0014	−.0064	−.0057	.0000	+.0018	+.0003
35–39	−.0039	.0000	−.0025	−.0012	+.0061	−.0027	−.0023	+.0009	+.0061	.0000
40–44	−.0031	−.0016	−.0015	+.0015	+.0043	−.0056	−.0025	+.0010	+.0067	−.0002
45–49	−.0036	−.0028	−.0037	−.0030	+.0004	−.0055	−.0013	+.0011	+.0048	+.0003
50–54	−.0031	−.0009	+.0028	+.0017	+.0053	−.0005	+.0028	+.0044	+.0072	−.0002

Although it is no doubt certain that the periodic errors are somewhat different in different parts of the screw, it was thought to be sufficient to apply the mean of all the determinations, so much the

more as the observations were usually made on objects placed symmetrically on both sides of the middle reading ($r=40$). These values are rigorously represented by the following formula:— Correction$=-.0005-.0017 \sin(\theta\text{-}36°)-.0029 \cos(2\theta\text{-}114°)+.0018 \sin(3\theta\text{-}108°)-.0012 \cos(4\theta\text{-}126°)-.0006 \cos 5\theta$. A slight ellipticity of the ball bearings against which the screw acts seems to be the main cause of periodic error in this case. The greatest correction is +0.006 for. $r=0.900$.

Subsequently two points about 12″ asunder were marked on the paper and their distances measured between $r=30$ and $r=49$, and then points were marked about 36″ asunder and also measured. When the periodic errors were corrected according to the formula all the observations although made with different parts of the screw agreed far within the probable accidental errors of the measures, which is a necessary check on the accuracy of such formulæ.

From the total number of observations (1866) made by Talcott's method it is found that neither the zenith-distance nor the amount of the difference of zenith-distance, if within 10′, have any influence whatever on the error of the results, nor the difference of right ascension of the two stars, if within 20m, so that these limits might with advantage have been extended. Taking the average magnitude of each pair of stars, for the difference in magnitude between the individual stars in the pair is found to have no perceptible influence, the following are the probable errors of one observation: Mag. 3½: P.E.=0″.37, Mag. 4: 0″.38, Mag. 4½: 0″.40, Mag. 5: 0″.42, Mag. 5½: 0″.44, Mag. 6: 0″.45, Mag. 6½: 0″.47, Mag. 7: 0″.49. The mean of all the probable errors without regard to magnitude is 0″.441.

Tycho Brahe with the naked eye observed with a P.E. of 60″. Hevelius raised the accuracy so far that the P.E. of some of his observations has been found to be as low as 20″, an accuracy which has never been exceeded. The best double star observers, using a power of 1000, attain a P.E. of 0″.02=20″ : 1000. Therefore with a magnifying power of 45 we might hope to attain a P.E. of only 0″.444, which is in fact larger than the quantity given above.

The smallest angle visible to the naked eye is above 4″, with a power of 1000 it is 0″.004, in our instrument it is 0″.09. The P.E. of the finest measures amounts to 5 times the size of the minimum visibile.

From observations of dark spots on white paper, made in full daylight we find the P.E. of a single pointing made with the micrometer wire to be 0″.23. When the same method is applied to the level (and the error of pointing allowed for) we fined the P.E. of the level-reading to be 0″.22. Observing the half means of differences of zenith-distance of pairs of stars this gives a P.E. of 0″.23. At night this would no doubt amount to 0″.25. The remainder 0″.27 (in case of bright stars) is due to atmospheric disturbance. Defective light adds 0″.32 in case of the faintest objects observed.

There is no doubt that with a higher magnifying power the error of pointing could be somewhat reduced, and when observing only bright stars, and using only the most favourable weather (we have observed whenever the sky was sufficiently clear to see the stars) the atmospheric error might be reduced so that the total P.E. might come out as low as 0″.25, but then the number of observations would be much reduced, so that little or nothing would be gained in the end, seeing that the errors of declinations adopted have still more influence than the P.E. of the single observations. On the other hand the preposterously small probable errors of late occasionally assigned to such observations can have been obtained only by the exclusion of divergent observations, and the research is then of no value whatever. The general experience is that results obtained in such a manner are sure to be wrong.

The first column of the tables (Part III) containing the observations exhibits the date, the second the names of the preceding stars of the pairs, the third the apparent declinations of the stars, the fourth the names of the following stars of the pairs, the fifth the apparent declinations of the latter, the sixth m (half the difference in zenith-distance measured with the micrometer and corrected as explained above), the seventh l (the correction for change in level), the eighth r (half the difference of refraction), the ninth ϕ (the observed latitude), the tenth the initials of the observer.

The latitudes obtained from each pair of stars in each month are given in Part IV with their P.E. depending upon the P.E. of their declinations, upon the number of times they were observed and upon their brightness, as explained above. The latitude calculated for each month is also given and its P.E. The latter is calculated from the column marked "error," but the weights were attributed according to the P.E. assigned to each pair. The unity of weight attached to an observation of latitude whose P.E. was 1″, but calculating subsequently from all the observations the P.E. of an observation whose weight =1, we obtain 1″.54. The excess is due to the fact that on the whole too small probable errors have been attributed to the declinations adopted, and to the light-equation. The latter is large. Talcott's method is therefore available for great improvements in the accuracy of declinations only in case equally bright stars are observed north and south of the zenith, or in case the light-equation has been eliminated by observing in both of the two possible positions of the instrument. The observations here published have been all made in the same position, as this facilitates the determination of the changes in latitude and of the constant of aberration. The differences in declination are determined with great accuracy by aid of meridian circles (which must also serve for the determination of the equinox and the solstices) and with an instrument like ours half the sum of the declinations on a certain system (here the A. G. C.) can be determined with great accuracy, by the combination of which observations the catalogues of fixed stars could be improved, when the zenith-telescope has been used in different latitudes. But the utmost accuracy can be obtained only when the light-equation has been eliminated in using the latter instrument whose proportions and light-grasping and magnifying power are limited.

Part III.—Observations on the Latitude of Hongkong.

September, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
28	B. 3107,	19 59 45.72	69 Pegasi,	24 36 11.67	+ 5.11	+ 9.28	0.00	3.08	J.I.P.
	15 Andromedæ,	39 40 13.32	ι Piscium,	5 4 11.04	−246.58	+ 9.22	− 0.07	4.75	„
	26 Piscium,	6 30 0.30	θ Andromedæ,	38 6 41.11	− 8.53	+ 2.38	0.00	4.56	„
	ρ Andromedæ,	37 23 59.40	45 Piscium,	7 7 24.96	+137.92	+12.07	+ 0.04	2.21	„
29	G. 3571,	38 28 48.24	18 Pegasi,	6 13 30.35	−176.44	+ 1.63	− 0.05	4.43	„
	34 Pegasi,	3 52 9.84	G. 3849,	40 46 46.89	− 85.66	+ 9.63	− 0.03	2.31	„
	13 Lacertæ,	41 16 51.01	B. F. 3143,	3 15 35.31	+117.10	+ 2.24	+ 0.04	2.54	„
	β Pegasi,	27 31 33.82	P. XXIII, 4,	17 2 19.70	+ 73.68	+ 4.20	+ 0.02	4.66	„
	B. 3107,	19 59 45.88	69 Pegasi,	24 36 11.87	+ 1.42	+11.06	0.00	1.36	„
	15 Andromedæ,	39 40 13.60	ι Piscium,	5 4 11.14	−241.29	+ 1.31	− 0·07	2.32	„
	26 Piscium,	6 30 0.40	θ Andromedæ,	38 6 41.38	− 17.58	+ 9.01	0.00	2.32	„
	ρ Andromedæ,	37 23 59.66	45 Piscium,	7 7 25.06	+144.21	+ 5.92	+ 0.04	2.53	„
	π Andromedæ,	33 9 15.02	58 Piscium,	11 24 51.27	+ 69.20	+ 0.24	+ 0.02	2.61	„
30	G. 3571,	38 28 48.43	18 Pegasi,	6 13 30.41	−174.99	+ 1.25	− 0.05	5.63	„
	P. XXII, 36,	39 12 22.31	30 Pegasi,	5 16 22.85	+230.76	− 0.44	+ 0.07	2.97	„
	β Pegasi,	27 31 34.00	P. XXIII, 4,	17 2 19.84	+ 76.53	+ 0.59	+ 0.02	4.06	„
	B. 3107,	19 59 46.04	69 Pegasi,	24 36 12.06	+ 10.32	+ 4.61	0.00	3.98	„
	15 Andromedæ,	39 40 13.87	ι Piscium,	5 4 11.22	−234.12	− 5.47	− 0.07	2.88	„
	26 Piscium,	6 30 0.48	θ Andromedæ,	38 6 41.65	− 16.82	+ 9.67	0.00	3.92	„
	ρ Andromedæ,	37 23 59.93	45 Piscium,	7 7 25.15	+155.05	− 4.46	+ 0.04	3.17	„
	π Andromedæ,	33 9 15.27	58 Piscium,	11 24 51.39	+ 73.38	− 3.09	+ 0.02	3.64	„

October, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
1	B. 3107,	19 59 46.19	69 Pegasi,	24 36 12.24	+ 17.58	− 4.22	0.00	2.58	J.I.P.
	15 Andromedæ,	39 40 14.12	ι Piscium,	5 4 11.28	−231.97	− 7.08	− 0.07	3.58	„
	26 Piscium,	6 30 0.55	θ Andromedæ,	38 6 41.91	− 13.50	+ 4.99	0.00	2.72	„
	π Andromedæ,	33 9 15.52	58 Piscium,	11 24 51.52	+ 72.56	− 3.25	+ 0.02	2.85	„
2	χ Cygni,	33 29 26.23	φ Aquilæ,	11 9 6.27	− 62.58	+ 0.37	− 0.02	4.02	W.D.
	17 Vulpeculæ,	23 19 10.44	18 Sagittæ,	21 17 4.63	+ 5.17	+ 0.95	0.00	3.65	„
	τ Cygni,	37 36 30.05	9 Equulei,	6 55 8.59	+145.30	+ 1.19	+ 0.04	5.85	„
	κ Pegasi,	25 10 25.24	P. XXI, 312,	19 20 42.81	+156.02	+ 2.35	+ 0.04	2.43	„
	P. XXII, 36,	39 12 22.68	30 Pegasi,	5 16 22.95	+231.64	− 2.12	+ 0.07	2.41	J.I.P.
	34 Pegasi,	3 52 9.99	G. 3849,	40 46 47.58	− 82.52	+ 6.12	− 0.03	2.36	„
	13 Lacertæ,	41 16 51.74	B. F. 3143,	3 15 35.47	+118.92	+ 0.04	+ 0.04	2.61	„
	β Pegasi,	27 31 34.37	P. XXIII, 4,	17 2 20.10	+ 75.65	+ 1.94	+ 0.02	4.84	„
	B. 3107,	19 59 46.34	69 Pegasi,	24 36 12.41	+ 0.18	+12.13	0.00	1.69	„
	15 Andromedæ,	39 40 14.37	ι Piscium,	5 4 11.34	−236.42	− 3.21	− 0.07	3.15	„
	26 Piscium,	6 30 0.62	θ Andromedæ,	38 6 42.16	− 9.35	+ 1.19	0.00	3.23	„
	ρ Andromedæ,	37 24 0.44	45 Piscium,	7 7 25.31	+143.43	+ 5.98	+ 0.04	2.33	„
3	τ Cygni,	37 36 30.18	9 Equulei,	6 55 8.60	+142.04	+ 2.95	+ 0.04	4.42	W.D.
	P. XXI, 120,	25 43 58.00	5 Pegasi,	18 51 25.15	+ 32.92	− 2.85	+ 0.01	1.65	„
	P. XXII, 36,	39 12 22.86	30 Pegasi,	5 16 22.97	+230.97	− 0.75	+ 0.07	3.21	J.I.P.
	13 Lacertæ,	41 16 51.94	B. F. 3143,	3 15 35.49	+109.24	+ 9.73	+ 0.04	2.72	„
	β Pegasi,	27 31 34.52	P. XXIII, 4,	17 2 20.20	+ 73.02	+ 3.42	+ 0.02	3.82	„
	P XXIII, 4,	17 2 20.20	61 Pegasi,	27 41 18.47	−220.23	+ 4.52	− 0.07	3.56	„
	B. 3107,	19 59 46.46	69 Pegasi,	24 36 12.55	+ 12.86	0.00	0.00	2.37	„
	15 Andromedæ,	39 40 14.60	ι Piscium,	5 4 11.38	−233.54	− 6.58	− 0.07	2.80	„
	26 Piscium,	6 30 0.68	θ Andromedæ,	38 6 42.40	− 9.29	+ 0.39	0.00	2.64	„
	ρ Andromedæ,	37 24 0.67	45 Piscium,	7 7 25.37	+149.66	+ 0.63	+ 0.04	3.35	„
	π Andromedæ,	33 9 15.95	58 Piscium,	11 24 51.71	+ 65.12	+ 5.59	+ 0.02	4.56	„
4	P. XXII, 36,	39 12 23.02	30 Pegasi,	5 16 22.98	+233.94	− 2.76	+ 0.07	4.25	W.D.
10	34 Pegasi,	3 52 10.17	G. 3849,	40 46 49.21	− 73.02	− 2.76	− 0.03	3.88	J.I.P.
	13 Lacertæ,	41 16 53.40	B. F. 3143,	3 15 35.64	+117.92	− 0.33	+ 0.04	2.15	„
	β Pegasi,	27 31 35.59	P. XXIII, 4,	17 2 20.87	+ 80.19	− 3.45	+ 0.02	4.99	„
	P. XXIII, 4,	17 2 20.87	61 Pegasi,	27 41 19.54	−217.69	+ 1.46	− 0.07	3.90	„
	B. 3107,	19 59 47.23	69 Pegasi,	24 36 13.53	+ 9.17	+ 1.76	0.00	1.31	„
	15 Andromedæ,	39 40 16.13	ι Piscium,	5 4 11.57	−243.07	+ 2.56	− 0.07	3.27	„
	26 Piscium,	6 30 0.93	θ Andromedæ,	38 6 43.91	− 12.53	+ 4.82	0.00	4.71	„
	ρ Andromedæ,	37 24 2.16	45 Piscium,	7 7 25.64	+155.90	− 6.54	+ 0.04	3.30	„
	π Andromedæ,	33 9 17.27	58 Piscium,	11 24 52.12	+ 67.09	+ 1.49	+ 0.02	3.30	„
	ε Piscium,	7 20 17.29	45 Andromedæ,	37 10 42.47	+161.71	+ 2.59	+ 0.04	4.22	„
12	β Pegasi,	27 31 35.93	P. XXIII, 4,	17 2 21.12	+ 75.95	− 0.24	+ 0.02	4.26	„
	P. XXIII, 4,	17 2 21.12	61 Pegasi,	27 41 19.91	−222.86	+ 5.98	− 0.07	3.56	„
	B. 3107,	19 59 47.53	69 Pegasi,	24 36 13.87	+ 19.67	− 6.10	0.00	4.27	„
	15 Andromedæ,	39 40 16.63	ι Piscium,	5 4 11.70	−239.89	− 1.34	− 0.07	2.86	„
	26 Piscium,	6 30 1.08	θ Andromedæ,	38 6 44.41	− 10.17	+ 0.06	0.00	2.64	„
	π Andromedæ,	33 9 17.72	58 Piscium,	11 24 52.31	+ 65.84	+ 2.12	+ 0.02	3.00	„
	ε Piscium,	7 20 17.42	45 Andromedæ,	37 10 42.96	+163.43	− 1.04	+ 0.04	2.62	„
	90 Piscium,	26 43 30.57	P. I, 110,	17 56 12.84	−102.25	+ 3.60	− 0.03	3.02	„
13	2 Sagittæ,	16 44 18.83	β Cygni,	27 44 44.14	+224.28	− 4.22	+ 0.06	1.61	W.D.
	α Sagittæ,	17 46 43.21	B. 2510,	26 53 28.83	−111.81	− 0.83	− 0.03	3.35	„
	χ Cygni,	33 29 26.72	φ Aquilæ,	11 9 6.49	− 62.61	+ 0.36	− 0.02	4.33	„

October, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
13	13 Sagittæ,	17 14 11.76	15 Vulpeculæ,	27 28 16.73	−179.41	− 0.81	− 0.05	3.98	W.D.
	17 Vulpeculæ,	23 19 10.95	18 Sagittæ,	21 17 5.15	+ 5.36	+ 0.26	0.00	3.67	"
	η Delphini,	12 40 33.02	49 Cygni,	31 56 37.19	− 22.57	+ 0.36	− 0.01	2.89	"
	κ Pegasi,	25 10 26.48	P. XXI, 312,	19 20 43.84	+162.46	− 4.16	+ 0.04	3.50	"
	P. XXII, 36,	39 12 24.74	30 Pegasi,	5 16 23.37	+229.85	+ 0.95	+ 0.07	4.92	"
	34 Pegasi,	3 52 10.34	G. 3849,	40 46 49.89	− 78.28	+ 1.84	− 0.03	3.65	"
	13 Lacertæ,	41 16 54.09	B. F. 3143,	3 15 35.80	+116.05	+ 1.84	+ 0.04	2.87	J.I.P.
	β Pegasi,	27 31 36.11	P. XXIII, 4,	17 2 21.25	+ 77.50	− 2.12	+ 0.02	4.08	"
	P. XXIII, 4,	17 2 21.25	61 Pegasi,	27 41 20.09	−220.47	+ 3.84	− 0.07	3.97	"
	B. 3107,	19 59 47.67	69 Pegasi,	24 36 14.04	+ 3.42	+ 8.62	0.00	2.90	"
	15 Andromedæ,	39 40 16.87	ι Piscium,	5 4 11.76	−234.90	− 5.23	− 0.07	4.11	"
17	13 Sagittæ,	17 14 11.66	15 Vulpeculæ,	27 28 16.68	−181.28	+ 0.59	− 0.05	3.43	W.D.
	17 Vulpeculæ,	23 19 10.90	18 Sagittæ,	21 17 5.12	− 1.21	+ 7.02	0.00	3.82	"
	η Delphini,	12 40 32.97	49 Cygni,	31 56 37.32	− 30.08	+ 7.87	− 0.01	2.92	"
	15 Andromedæ,	39 40 17.69	ι Piscium,	5 4 11.85	−238.11	− 3.09	− 0.07	3.50	"
	26 Piscium,	6 30 1.29	θ Andromedæ,	38 6 45.52	− 16.70	+ 6.51	0.00	3.22	"
	ρ Andromedæ,	37 24 3.75	45 Piscium,	7 7 26.02	+145.82	+ 2.32	+ 0.04	3.07	"
18	α Sagittæ,	17 46 43.00	B. 2510,	26 53 28.63	−101.37	−10.74	− 0.03	3.67	"
	χ Cygni,	33 29 26.43	φ Aquilæ,	11 9 6.31	− 69.14	+ 6.46	− 0.02	3.67	"
	13 Sagittæ,	17 14 11.62	15 Vulpeculæ,	27 28 16.64	−176.41	− 4.82	− 0.05	2.85	"
	17 Vulpeculæ,	23 19 10.87	18 Sagittæ,	21 17 5.09	+ 10.80	− 4.26	0.00	4.52	"
	η Delphini,	12 40 32.94	49 Cygni,	31 56 37.33	− 17.34	− 3.75	− 0.01	4.03	"
20	η Delphini,	12 40 32.90	49 Cygni,	31 56 37.36	− 19.79	− 3.06	− 0.01	2.27	"
	β Pegasi,	27 31 36.88	P. XXIII, 4,	17 2 21.68	+ 73.32	+ 3.21	+ 0.02	5.83	"
	B. 3107,	19 59 48.23	69 Pegasi,	24 36 14.78	+ 16.88	− 5.47	0.00	2.92	"
	15 Andromedæ,	39 40 18.15	ι Piscium,	5 4 11.78	−238.51	− 4.04	− 0.07	2.35	"
	26 Piscium,	6 30 1.24	θ Andromedæ,	38 6 46.01	− 14.16	+ 2.95	0.00	2.41	"
	ρ Andromedæ,	37 24 4.23	45 Piscium,	7 7 25.99	+152.26	− 3.63	+ 0.04	3.78	"
	π Andromedæ,	33 9 19.14	58 Piscium,	11 24 52.73	+ 65.42	+ 2.83	+ 0.02	4.21	"
23	ε Piscium,	7 20 17.63	45 Andromedæ,	37 10 45.10	+160.31	+ 1.94	+ 0.04	3.65	"
	90 Piscium,	26 43 32.05	P. I, 110,	17 56 13.72	−103.03	+ 2.59	− 0.03	2.42	"
	P. I, 223,	11 47 53.59	ε Trianguli,	32 47 25.72	+ 36.13	− 2.67	+ 0.01	3.12	"
25	χ Cygni,	33 29 26.55	φ Aquilæ,	11 9 6.25	− 67.69	+ 5.17	− 0.02	3.86	"
	13 Sagittæ,	17 14 11.58	15 Vulpeculæ,	27 28 16.66	−175.17	− 5.29	− 0.05	3.61	"
	17 Vulpeculæ,	23 19 10.89	18 Sagittæ,	21 17 5.13	+ 3.63	+ 2.32	0.00	3.96	"
	η Delphini,	12 40 32.98	49 Cygni,	31 56 37.61	− 30.74	+ 7.43	− 0.01	1.98	"
	P. XX, 452,	39 6 22.17	4 Equulei,	5 33 9.31	− 90.60	− 0.89	− 0.03	4.22	"
	τ Cygni,	37 36 32.52	9 Equulei,	6 55 8.98	+139.92	+ 3.57	+ 0.04	4.28	"
	P. XXI, 120,	25 43 59.68	5 Pegasi,	18 51 26.50	+ 25.69	+ 2.67	+ 0.01	1.46	"
	13 Lacertæ,	41 16 56.02	B. F. 3143,	3 15 35.76	+110.54	+ 6.32	+ 0.04	2.79	"
	β Pegasi,	27 31 37.46	P. XXIII, 4,	17 2 21.92	+ 72.20	+ 2.79	+ 0.02	4.70	"
	B. 3107,	19 59 48.65	69 Pegasi,	24 36 15.32	+ 6.05	+ 2.97	0.00	1.00	"
	15 Andromedæ,	39 40 19.06	ι Piscium,	5 4 11.78	−238.87	− 0.33	− 0.07	[6.15]	"
	26 Piscium,	6 30 1.32	θ Andromedæ,	38 6 46.94	− 14.31	+ 2.67	0.00	2.49	"
	ρ Andromedæ,	37 24 5.15	45 Piscium,	7 7 26.06	+144.79	+ 3.24	+ 0.04	3.68	"
	π Andromedæ,	33 9 19.96	58 Piscium,	11 24 52.91	+ 67.69	− 1.04	+ 0.02	3.11	"
	ε Piscium,	7 20 17.69	45 Andromedæ,	37 10 45.51	+160.53	+ 0.68	+ 0.04	2.85	"
	90 Piscium,	26 43 32.34	P. I, 110,	17 56 13.90	−103.55	+ 3.36	− 0.03	2.90	"
	P. I, 223,	11 47 53.67	ε Trianguli,	32 47 26.05	+ 37.64	− 3.63	+ 0.01	3.88	"
28	η Delphini,	12 40 32.94	49 Cygni,	31 56 37.65	− 26.84	+ 3.45	− 0.01	1.90	"
	P. XX, 452,	39 6 22.32	4 Equulei,	5 33 9.29	− 71.44	−19.38	− 0.02	4.96	"
	τ Cygni,	37 36 32.70	9 Equulei,	6 55 8.98	+140.59	+ 2.61	+ 0.04	4.08	"
29	17 Vulpeculæ,	23 19 10.74	18 Sagittæ,	21 17 5.02	+ 0.94	+ 3.00	0.00	1.82	"
	η Delphini,	12 40 32.88	49 Cygni,	31 56 37.63	− 16.88	− 4.78	− 0.01	3.59	"
	P. XX, 452,	39 6 22.33	4 Equulei,	5 33 9.25	− 94.20	+ 2.05	− 0.03	3.61	"
	τ Cygni,	37 36 32.73	9 Equulei,	6 55 8.95	+135.44	+ 7.04	+ 0.04	3.36	"
	P. XXI, 120,	25 43 59.82	5 Pegasi,	18 51 26.61	+ 29.02	+ 0.03	+ 0.01	2.27	"
	P. XXII, 36,	39 12 26.79	30 Pegasi,	5 16 23.44	+226.31	+ 2.23	+ 0.06	3.72	"
	34 Pegasi,	3 52 10.33	G. 3849,	40 46 52.35	− 79.34	− 0.45	− 0.03	1.52	"
	13 Lacertæ,	41 16 56.63	B. F. 3143,	3 15 35.79	+120.98	− 4.55	+ 0.05	2.69	"
	β Pegasi,	27 31 37.91	P. XXIII, 4,	17 2 22.30	+ 72.90	+ 1.16	+ 0.02	4.18	"
	B. 3107,	19 59 49.00	69 Pegasi,	24 36 15.76	+ 19.88	−11.63	0.00	0.63	"
	15 Andromedæ,	39 40 19.81	ι Piscium,	5 4 11.90	−227.49	−13.58	− 0.07	4.72	"
	26 Piscium,	6 30 1.44	θ Andromedæ,	38 6 47.74	− 5.81	− 5.53	0.00	3.25	"
	ρ Andromedæ,	37 24 5 94	45 Piscium,	7 7 26.20	+142.07	+ 4.70	+ 0.04	2.88	"
	π Andromedæ,	33 9 20.69	58 Piscium,	11 24 53.15	+ 76.43	− 9.18	+ 0.02	4.19	"

November, 1896.

		° ′ ″		° ′ ″	″	″	″	″	
2	ρ Andromedæ,	37 24 6.51	45 Piscium,	7 7 26.14	+147.06	+ 1.01	+ 0.04	4.44	W.D.
	π Andromedæ,	33 9 21.20	58 Piscium,	11 24 53.19	+ 68.87	− 2.97	+ 0.02	3.11	"
	* ε Piscium,	7 20 17.79	45 Andromedæ,	37 10 46.99	+156.87	+ 2.44	+ 0.04	[1.74]	"
	47 Andromedæ,	37 10 51.21	P. I, 85,	7 25 48.97	− 4.27	− 2.02	0.00	3.80	"
	P. I, 123,	7 7 16.09	P. I, 170,	37 26 36.54	+ 86.78	− 9.42	+ 0.03	3.71	"

* Bad definition.

November, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
2	P. I, 223,	11 47 53.96	ε Trianguli,	32 47 27.37	+ 30.29	+ 3.98	+ 0.01	4.94	W.D.
	β Trianguli,	34 30 11.86	P. II, 85,	10 6 17.31	− 2.51	+ 1.40	0.00	3.48	„
	15 Trianguli,	34 14 28.74	85 Ceti,	10 18 20.77	+110.57	− 0.80	+ 0.03	4.55	„
	40 Arietis,	17 51 27.79	41 Arietis,	26 50 20.20	−163.22	+ 1.93	− 0.04	2.67	„
	τ^2 Arietis,	20 22 35.99	64 Arietis,	24 21 43.45	−230.85	− 5.05	− 0.06	3.76	„
	f Tauri,	12 35 12.42	o Persei,	31 57 51.94	+ 93.83	+ 7.94	+ 0.03	3.98	„
	ξ Persei,	35 29 53.43	*47 Tauri,	9 0 19.11	+190.79	− 0.62	+ 0.05	[6.49]	„
7	G. 3571,	38 28 52.74	18 Pegasi,	6 13 30.82	−179.83	+ 0.27	− 0.05	2.17	„
	P. XXII, 36,	39 12 27.45	30 Pegasi,	5 16 23.25	+228.12	+ 0.39	+ 0.07	3.93	„
	β Pegasi,	27 31 38.51	P. XXIII, 4,	17 2 22.55	+ 70.81	+ 3.42	+ 0.02	4.78	„
	B. 3107,	19 59 49.40	69 Pegasi,	24 36 16.35	+ 12.01	− 2.41	0.00	2.48	„
	15 Andromedæ,	39 40 21.00	ι Piscium,	5 4 11.72	−237.63	− 4.64	− 0.07	4.02	„
	26 Piscium,	6 30 1.32	θ Andromedæ,	38 6 49.06	− 11.14	+ 0.36	0.00	4.41	„
	ρ Andromedæ,	37 24 7.24	45 Piscium,	7 7 26.10	+147.06	− 0.24	+ 0.04	3.53	„
8	P. XX, 452,	39 6 22.41	4 Equulei,	5 33 8.96	− 94.02	+ 3.09	− 0.02	4.73	„
	τ Cygni,	37 36 32.92	9 Equulei,	6 55 8.70	+145.82	− 2.82	+ 0.04	3.85	„
	P. XXI, 120,	25 43 59.87	5 Pegasi,	18 51 26.62	+ 31.26	− 2.56	+ 0.01	2.01	„
	κ Pegasi,	25 10 27.61	P. XXI, 312,	19 20 44.60	+153.87	+ 1.99	+ 0.04	2.01	„
	P. XXII, 36,	39 12 27.54	30 Pegasi,	5 16 23.26	+224.65	+ 2.80	+ 0.06	2.91	„
	B. 3107,	19 59 49.57	69 Pegasi,	24 36 16.44	+ 11 83	− 1.69	0.00	3.14	„
	15 Andromedæ,	39 40 21.16	ι Piscium,	5 4 11.74	−247.77	+ 4.82	− 0.07	3.43	„
	26 Piscium,	6 30 1.35	θ Andromedæ,	38 6 49.24	− 18.94	+ 6.57	0.00	2.93	„
	ρ Andromedæ,	37 24 7.42	45 Piscium,	7 7 26.13	+147.21	− 0.56	+ 0.04	3.47	„
	π Andromedæ,	33 9 22.00	58 Piscium,	11 24 53.30	+ 68.05	− 1.78	+ 0.02	3.94	„
	62 Piscium,	6 44 24.08	μ Andromedæ,	37 56 40.57	−125.85	−12.07	− 0.04	4.37	„
	ε Piscium,	7 20 17.74	45 Andromedæ,	37 10 47.95	+168.21	− 8.47	+ 0.04	2.62	„
	47 Andromedæ,	37 10 52.17	P. I, 85,	7 25 48.89	− 9.74	+ 2.71	0.00	3.50	„
	P. I, 123,	7 7 15.99	P. I, 170,	37 26 37.50	+ 85.00	− 7.79	+ 0.03	3.99	„
	P. I, 223,	11 47 53.99	ε Trianguli,	32 47 28.16	+ 27.11	+ 4.82	+ 0.01	3.01	„
	β Trianguli,	34 30 12.71	P. II, 85,	10 6 17,24	− 5.20	+ 4.97	0.00	4.75	„
9	τ Cygni,	37 36 32.93	9 Equulei,	6 55 8.69	+135.32	+ 7.73	+ 0.04	3.90	„
	P. XXI, 120,	25 43 59.87	5 Pegasi,	18 51 26.63	+ 24.79	+ 3.86	+ 0.01	1.91	„
	κ Pegasi,	25 10 27.63	P. XXI, 312,	19 20 44.66	+158.14	− 2.68	+ 0.04	1.65	„
	P. XXII, 36,	39 12 27.62	30 Pegasi,	5 16 23.26	+227.98	− 0.68	+ 0.06	2.80	„
12	ε Piscium,	7 20 17.80	45 Andromedæ,	37 10 48.67	+165.67	− 4.94	+ 0.04	4.00	J.I.P.
	47 Andromedæ,	37 10 52.88	P. I, 85,	7 25 48.94	− 10.26	+ 3.33	0.00	3.98	„
	P. I, 123,	7 7 16.04	P. I, 170,	37 26 38.25	+ 80.91	− 3.48	+ 0.03	4.60	„
	P. I, 223,	11 47 54.14	ε Trianguli,	32 47 28.80	+ 30.74	+ 1.34	+ 0.01	3.56	„
15	62 Piscium,	6 44 23.97	μ Andromedæ,	37 56 41.55	−134.20	− 4.97	− 0.04	3.55	W.D.
	ε Piscium,	7 20 17.62	45 Andromedæ,	37 10 48.98	+160.25	− 0.15	+ 0.04	3.44	„
16	P. XXI, 120,	25 43 59.48	5 Pegasi,	18 51 26.26	+ 26.48	+ 2.08	+ 0.01	1.44	„
	κ Pegasi,	25 10 27.34	P. XXI, 312,	19 20 44.34	+154.42	+ 2.08	+ 0.04	2.38	„
	P. XXII, 36,	39 12 27.70	30 Pegasi,	5 16 22.88	+226.04	− 0.44	+ 0.06	0.95	„
	34 Pegasi,	3 52 9.74	G. 3849,	40 46 53.78	− 76.86	− 1.34	− 0.03	3.53	„
	15 Andromedæ,	39 40 21.93	ι Piscium,	5 4 11.46	−241.47	− 2.86	− 0.07	2.30	„
	26 Piscium,	6 30 1.14	θ Andromedæ,	38 6 50.20	− 5.48	− 7.05	0.00	3.14	„
	ρ Andromedæ,	37 24 8.37	45 Piscium,	7 7 25.96	+150.42	− 3.12	+ 0.04	4.50	„
	π Andromedæ,	33 9 22.85	58 Piscium,	11 24 53.31	+ 60.76	+ 4.46	+ 0.02	3.32	„
	ε Piscium,	7 20 17.60	45 Andromedæ,	37 10 49.08	+161.71	− 1.37	+ 0.04	3.72	J.I.P.
	47 Andromedæ,	37 10 53.34	P. I, 85.	7 25 48.75	− 4.21	− 3.72	0.00	3.12	„
	P. I, 123,	7 7 15.84	P. I, 170,	37 26 38.74	+ 79.31	− 1.96	+ 0.03	4.67	„
	† P. I, 223,	11 47 54.05	ε Trianguli,	32 47 39.21	+ 30.80	+ 3.72	+ 0.01	[6.16]	„
	β Trianguli,	34 30 13.84	P. II, 85,	10 6 17.20	− 5.20	+ 3.80	0.00	4.12	„
18	62 Piscium,	6 44 23.79	μ Andromedæ,	37 56 41.87	−127.42	−11.21	− 0.04	4.16	W.D.
	44 Andromedæ,	41 32 17.34	89 Piscium,	3 4 27.51	− 6.99	− 2.65	0.00	2.78	J.I.P.
	47 Andromedæ,	37 10 53.52	P. I, 85,	7 25 48.62	− 9.32	+ 1.10	0.00	2.85	„
	P. I, 123,	7 7 15.71	P. I, 170,	37 26 38.98	+ 82.91	− 6.31	+ 0.02	3.96	„
	P. I, 223,	11 47 53.95	ε Trianguli,	32 47 29.35	+ 32.38	− 0.84	+ 0.01	3.20	„
	β Trianguli,	34 30 14.01	P. II, 85,	10 6 17.07	+ 7.29	− 8.12	0.00	4.71	„
	15 Trianguli,	34 14 30.83	85 Ceti,	10 18 20.29	+110.11	− 2.23	+ 0.03	3.47	„
	50 Arietis,	17 35 57.28	56 Arietis,	26 52 18.15	+247.01	− 0.89	+ 0.07	3.91	„
	τ^2 Arietis,	20 22 36.55	64 Arietis,	24 21 44.40	−235.51	− 1.59	− 0.07	3.32	„
	f Tauri,	12 35 12.16	o Persei,	31 57 54.81	+105.91	− 5.47	+ 0.04	3.96	„
	κ^1 Tauri,	22 3 38.60	υ^1 Tauri,	22 34 58.00	− 72.47	+ 7.34	− 0.01	3.16	„
	μ Aurigæ,	38 21 50.71	γ Orionis,	6 15 32.78	− 33.41	+ 4.63	− 0.01	2.96	„
	35 Orionis,	14 14 8.97	26 Aurigæ,	30 25 59.12	−107.09	− 3.15	− 0.03	3.78	W.D.
	32 Aurigæ,	39 7 9.89	63 Orionis,	5 25 41.73	+109.27	− 0.99	+ 0.03	4.12	„
	9 Geminorum,	23 46 38.98	15 Geminorum,	20 51 15.66	− 39.70	− 4.21	− 0.01	3.95	„
	49 Aurigæ,	28 6 13.75	γ Geminorum,	16 29 20.73	+ 25.75	+ 1.13	+ 0.01	4.13	„
	† 25 Geminorum,	28 17 34.07	33 Geminorum,	16 19 17.57	− 20.00	+ 8.70	− 0.01	[4.51]	„
	64 Aurigæ,	41 3 57.26	δ^2 Canis Minoris,	3 30 44.52	+ 43.06	+ 8.23	+ 0.01	2.19	„
19	κ Pegasi,	25 10 27.23	P. XXI, 312,	19 20 44.23	+153.75	+ 2.53	+ 0.04	2.05	„
	13 Lacertæ,	41 16 58.25	B. F. 3143,	3 15 35.06	+114.65	+ 1.35	+ 0.04	2.69	„
	β Pegasi,	27 31 38.87	P. XXIII, 4,	17 2 22.55	+ 71.69	+ 2.50	+ 0.02	4.92	„
	44 Andromedæ,	41 32 17.48	89 Piscium,	3 4 27.45	− 9.53	− 0.24	0.00	2.69	J.I.P.
	47 Andromedæ,	37 10 53.64	P. I, 85,	7 25 48.59	− 10.44	+ 2.53	0.00	3.21	„

* Bad definition. † Cloudy.

November, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
19	P. I, 123,	7 7 15.67	P. I, 170,	37 26 39.09	+ 77.31	− 1.19	+ 0.03	3.53	J.I.P.
	β Trianguli,	34 30 14.12	P. II, 85,	10 6 17.04	− 7.56	+ 5.29	0.00	3.31	„
	15 Trianguli,	34 14 30.94	85 Ceti,	10 18 20.26	+110.17	− 1.47	+ 0.03	4.33	„
	40 Arietis,	17 51 28.23	41 Arietis,	26 50 21.57	−150.48	−11.01	− 0.04	3.37	„
	41 Arietis,	26 50 21.57	ρ³ Arietis,	17 36 56.21	+286.08	−11.47	+ 0.08	3.58	„
	f Tauri,	12 35 12.13	o Persei,	31 57 54.86	+107.96	− 7.71	+ 0.03	3.73	„
	ξ Persei,	35 29 51.37	47 Tauri,	9 0 18.19	+184.94	+ 1.84	+ 0.05	1.61	„
	90 Tauri,	12 18 24.79	P. IV, 185,	32 24 34.26	−198.41	+ 1.54	− 0.05	2.60	„
20	κ Pegasi,	25 10 27.22	P. XXI, 312,	19 20 44.22	+163.34	− 6.12	+ 0.04	2.98	W.D.
	P. XXII, 36,	39 12 27.73	30 Pegasi,	5 16 22.71	+229.55	− 1.93	+ 0.06	2.90	„
	34 Pegasi,	3 52 9.57	G. 3849,	40 46 53.90	− 73.92	− 3.45	− 0.03	4.33	„
	13 Lacertæ,	41 16 58.30	B. F. 3143,	3 15 35.04	+119.83	− 3.69	+ 0.04	2.85	„
	β Pegasi,	27 31 38.91	P. XXIII, 4,	17 2 22.57	+ 69.60	+ 3.36	+ 0.02	3.72	„
	P. XXIII, 4,	17 2 22.57	61 Pegasi,	27 41 23.12	−210.39	− 8.32	− 0.07	4.06	„
	B. 3107,	19 59 49.58	69 Pegasi,	24 36 16.76	+ 13.65	− 5.26	0.00	2.08	„
	15 Andromedæ,	39 40 22.19	ι Piscium,	5 4 11.28	−237.63	− 6.13	− 0.07	2.90	„
	ρ Andromedæ,	37 24 8.71	45 Piscium,	7 7 25.79	+150.05	− 3.48	+ 0.04	3.86	„
	π Andromedæ,	33 9 23.14	58 Piscium,	11 24 53.21	+ 66.42	− 1.24	+ 0.02	3.37	„
	ε Piscium,	7 20 17.41	45 Andromedæ,	37 10 49.49	+168.42	− 7.85	+ 0.04	4.06	„
	47 Andromedæ,	37 10 53.76	P. I, 85,	7 25 48.56	− 6.14	− 1.37	0.00	3.65	J.I.P.
	P. I, 123,	7 7 15.64	P. I, 170,	37 26 39 20	+ 77.92	− 1.13	+ 0.02	4.23	„
	P. I, 223,	11 47 53.93	ε Trianguli,	32 47 29.55	+ 33.50	− 2.85	+ 0.01	2.40	„
	β Trianguli,	34 30 14.23	P. II, 85,	10 6 17.01	+ 4.30	− 5.59	0.00	4.33	„
	15 Trianguli,	34 14 31.06	85 Ceti,	10 18 20.23	+111.78	− 4.43	+ 0.03	3.02	„
	ρ³ Arietis,	17 36 56.23	56 Arietis,	26 52 18.28	+216.39	+ 0.06	+ 0.06	3.76	„
	50 Arietis,	17 35 57.30	56 Arietis,	26 52 18.28	+246.25	+ 0.06	+ 0.07	4.17	„
	τ³ Arietis,	20 22 36.59	64 Arietis,	24 21 44.49	−240.44	+ 2.20	− 0.07	2.23	„
	f Tauri,	12 35 12.10	o Persei,	31 57 54.91	+ 96.32	+ 4.19	+ 0.04	4.05	„
	P. III, 170,	25 16 19.31	ω¹ Tauri,	19 20 22.72	− 13.25	+ 6.39	0.00	4.15	„
	κ¹ Tauri,	22 3 38.60	υ¹ Tauri,	22 34 58.00	− 63.03	− 1.49	− 0.01	3.77	„
	90 Tauri,	12 18 24.72	P. IV, 185,	32 24 34.31	−199.53	+ 2.67	− 0.06	2.60	„
	μ Aurigæ,	38 21 50.85	γ Orionis,	6 15 32.51	− 29.99	+ 1.16	− 0.01	2.84	„
	35 Orionis,	14 14 8.79	26 Aurigæ,	30 25 59.13	−111.75	+ 1.60	− 0.03	3.78	„
	26 Aurigæ,	30 25 59.13	B. 823,	14 7 52.29	+ 86.03	− 7.34	+ 0.03	4.43	„
	32 Aurigæ,	39 7 9.98	63 Orionis,	5 25 41.44	+103.09	+ 5.11	+ 0.03	3.94	„
	9 Geminorum,	23 46 38.86	15 Geminorum,	20 51 15.49	− 45.33	+ 2.20	− 0.01	4.03	„
	49 Aurigæ,	28 6 13.65	γ Geminorum,	16 29 20.51	+ 19.58	+ 6.51	+ 0.01	3.18	W.D.
	36 Geminorum,	21 53 2.54	44 Geminorum,	22 47 34.00	−131.66	+ 7.37	− 0.03	3.95	„
	64 Aurigæ,	41 3 57.20	δ² Canis Minoris,	3 30 44.14	+ 50.23	+ 2.59	+ 0.01	3.50	„
	φ Geminorum,	27 1 57.63	3 Cancri,	17 35 30.84	− 31.50	+ 0.15	− 0.01	2.88	„
	B. 1158,	22 45 11.01	μ² Cancri,	21 52 53.13	− 55.04	+ 7.10	− 0.02	4.11	„
	ρ¹ Cancri,	28 38 43.46	o² Cancri,	15 58 39.05	− 39.49	+10.88	− 0.01	2.64	„
	66 Cancri,	32 39 14.35	P. IX, 35,	11 56 0.65	+ 24.78	+10.22	+ 0.01	2.51	„
	ψ Leonis,	14 29 35.46	P. IX, 221,	30 8 13.00	− 29.44	−12.03	− 0.01	2.75	„
21	13 Lacertæ,	41 16 58.35	B. F. 3143,	3 15 35.03	+112.54	+ 3.45	+ 0.04	2.72	„
	β Pegasi,	27 31 38.95	P. XXIII, 4,	17 2 22.58	+ 82.49	− 8.23	+ 0.02	5.05	„
	P. XXIII, 4,	17 2 22.58	61 Pegasi,	27 41 23.16	−206.70	−11.30	− 0.07	4.80	„
	B. 3107,	19 59 49.61	69 Pegasi,	24 36 16.81	+ 18.19	− 8.38	0.00	3.02	„
	15 Andromedæ,	39 40 22.28	ι Piscium,	5 4 11.26	−244.74	+ 0.51	− 0.07	2.47	„
	π Andromedæ,	33 9 23.23	58 Piscium,	11 24 53.21	+ 61.15	+ 4.13	+ 0.02	3.52	„
	ε Piscium,	7 20 17.40	45 Andromedæ,	37 10 49.61	+157.92	+ 1.87	+ 0.04	3.33	„
	47 Andromedæ,	37 10 53.88	P. I, 85,	7 25 48.53	− 8.29	+ 0.39	0.00	4.30	J.I.P.
	P. I, 123,	7 7 15.60	P. I, 170,	37 26 39.31	+ 78.64	− 1.57	+ 0.02	4.55	„
	P. I, 223,	11 47 53.91	ε Trianguli,	32 47 29.65	+ 30.99	+ 1.43	+ 0.01	4.21	„
	β Trianguli,	34 30 14.34	P. II, 85,	10 6 16.97	− 5.45	+ 4.01	0.00	4.21	„
	15 Trianguli,	34 14 31.17	85 Ceti,	10 18 20.20	+105.97	+ 1.55	+ 0.03	3.23	„
	41 Arietis,	26 50 21.73	ρ³ Arietis,	17 36 56.25	+275.87	− 1.04	+ 0.08	3.90	„
	ρ³ Arietis,	17 36 56.25	56 Arietis,	26 52 18.35	+219.20	− 2.47	+ 0.06	4.09	„
	50 Arietis,	17 35 57.31	56 Arietis,	26 52 18.35	+248.91	− 2.64	+ 0.07	4.17	„
	τ³ Arietis,	20 22 36.61	64 Arietis,	24 21 44.53	−239.54	+ 2.38	− 0.07	3.34	„
	f Tauri,	12 35 12.07	o Persei,	31 57 54.96	+101.79	− 0.56	+ 0.04	4.78	„
	P. III, 170,	25 16 19.36	ω¹ Tauri,	19 20 22.72	− 6.02	− 0.18	0.00	4.84	„
	κ¹ Tauri,	22 3 38.60	υ¹ Tauri,	22 34 58.00	− 60.76	− 4.55	− 0.01	2.98	„
	B. 625,	16 6 31.36	P. IV, 148,	28 25 4.52	+145.79	− 0.77	+ 0.04	3.00	„
	π¹ Orionis,	6 47 2.72	4 Aurigæ,	37 44 11.20	+154.35	+ 1.55	+ 0.04	2.90	„
	μ Aurigæ,	38 21 50.92	γ Orionis,	6 15 32.38	− 27.08	− 1.10	− 0.01	3.46	„
	35 Orionis,	14 14 8.70	26 Aurigæ,	30 25 59.14	−108.06	− 3.21	− 0.03	2.62	„
	26 Aurigæ,	30 25 59.14	B. 823,	14 7 52.20	+ 77.71	− 0.56	+ 0.03	2.85	„
	32 Aurigæ,	39 7 10.02	63 Orionis,	5 25 41.29	+103.61	+ 3.81	+ 0.03	3.11	„
	9 Geminorum,	23 46 38.80	15 Geminorum,	20 51 15.41	− 41.12	− 2.20	− 0.01	3.77	„
	49 Aurigæ,	28 6 13.60	γ Geminorum,	16 29 20.40	+ 22.30	+ 3.78	+ 0.01	3.09	„
	25 Geminorum,	28 17 33.90	33 Geminorum,	16 19 17.22	− 12.86	− 0.30	0.00	2.40	„
	36 Geminorum,	21 53 2.42	44 Geminorum,	22 47 33.89	−123.43	− 0.53	− 0.03	4.17	„
	P. VIII, 67,	7 54 6.38	32 Lyncis,	36 47 7.49	−143.73	+ 0 95	− 0.04	4.11	W.D.
	ρ¹ Cancri,	28 38 43.30	o² Cancri,	15 58 38.86	− 23.09	− 4.49	− 0.01	1.99	„
	66 Cancri,	32 39 14.20	P. IX, 35,	11 56 0.45	+ 27.20	+ 9.30	+ 0.01	3.84	„

November, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
22	κ Pegasi, ...	25 10 27.19	P. XXI, 312,.....	19 20 44.19	+162.28	− 5.47	+ 0.04	2.54	W.D.
	P. XXII, 36,.....	39 12 27.79	30 Pegasi, ...	5 16 22.68	+230.91	− 3.66	+ 0.06	2.54	„
	34 Pegasi, ...	3 52 9.55	G. 3849,.....	40 46 54.02	− 77.74	− 1.87	− 0.03	2.13	„
	13 Lacertæ, ...	41 16 58.41	B. F. 3143, ...	3 15 35.01	+120.46	− 3.95	+ 0.04	3.26	„
	β Pegasi, ...	27 31 38.98	P. XXIII, 4,.....	17 2 22.59	+ 74.92	− 1.19	+ 0.02	4.53	„
	P. XXIII, 4,.....	17 2 22.59	61 Pegasi, ...	27 41 23.21	−221.68	+ 3.57	− 0.07	4.72	„
	15 Trianguli,.....	34 14 31.29	85 Ceti, ...	10 18 20.17	+116.20	− 6.90	+ 0.03	5.06	„
	40 Arietis,.....	17 51 28.30	41 Arietis,.....	26 50 21.81	−171.00	+ 7.82	− 0.05	1.82	„
	41 Arietis, ...	26 50 21.81	ρ^3 Arietis, ...	17 36 56.26	+265.56	+ 8.91	+ 0.08	3.58	„
	ρ^3 Arietis, ...	17 36 56.26	56 Arietis,.....	26 52 18.41	+219.23	− 2.53	+ 0.06	4.10	„
	50 Arietis,.....	17 35 57.32	56 Arietis,.....	26 52 18.41	+248.85	− 2.14	+ 0.07	4.65	„
	τ^2 Arietis, ...	20 22 36.63	64 Arietis,.....	24 21 44.58	−229.85	− 8.35	− 0.07	2.33	„
	f Tauri, ...	12 35 12.04	o Persei,.....	31 57 55.01	+106.27	− 6.38	+ 0.03	3.50	„
	P. III, 170, ...	25 16 19.42	ω^1 Tauri, ...	19 20 22.73	− 8.02	− 1.43	0.00	[1.63]	„

December, 1896.

		° ′ ″		° ′ ″	″	″	″	″	
3	B. 625, ...	16 6 31.13	P. IV, 148, ...	28 25 5.19	+148.24	− 2.29	+ 0.04	4.15	J.I.P.
	π^1 Orionis,.....	6 47 1.74	4 Aurigæ, ...	37 44 12.46	+156.50	+ 0.62	+ 0.05	4.27	„
	μ Aurigæ, ...	38 21 52.15	γ Orionis, ...	6 15 31.22	− 29.47	+ 1.10	− 0.01	3.30	„
	35 Orionis,.....	14 14 8.06	26 Aurigæ,.....	30 25 59.63	−107.45	− 2.70	− 0.03	3.67	„
	26 Aurigæ,.....	30 25 59.63	B. 823, ...	14 7 51.50	+ 77.83	− 0.27	+ 0.02	3.14	„
	32 Aurigæ,.....	39 7 11.03	63 Orionis,.....	5 25 39.89	+105.88	+ 1.84	+ 0.03	3.21	„
	9 Geminorum, ...	23 46 38.57	15 Geminorum,...	20 51 14.91	− 41.70	− 1.04	− 0.01	3.98	„
	49 Aurigæ,.....	28 6 13.51	γ Geminorum, ...	16 29 19.54	+ 28.75	− 0.92	+ 0.01	4.37	„
	25 Geminorum,...	28 17 33.78	33 Geminorum,...	16 19 16.27	− 14.37	+ 1.72	0.00	2.37	„
	36 Geminorum,...	21 53 1.81	44 Geminorum,...	22 47 33.22	−123.70	+ 1.75	− 0.03	5.54	„
	64 Aurigæ,.....	41 3 57.47	δ^2 Canis Min., ...	3 30 42.06	+ 55.04	− 1.25	+ 0.02	3.57	„
	φ Geminorum, ...	27 1 56.68	3 Cancri, ...	17 35 29.33	− 26.05	− 2.88	− 0.01	4.07	W.D.
4	β Pegasi, ...	27 31 38.78	P. XXIII, 4,.....	17 2 22.19	+ 71.96	+ 2.68	+ 0.02	5.14	„
	P. XXIII, 4,.....	17 2 22.19	61 Pegasi, ...	27 41 23.11	−218.23	− 0.15	− 0.07	4.20	„
	B. 3107,.....	19 59 49.38	69 Pegasi, ...	24 36 16.75	− 16.73	− 7.10	0.00	2.83	„
	15 Andromedæ,...	39 40 22.81	ι Piscium, ...	5 4 10.66	−241.99	− 0.62	− 0.07	4.06	„
	26 Piscium, ...	6 30 0 43	θ Andromedæ, ...	38 6 51.53	− 12.13	− 0.54	0.00	3.31	„
	π Andromedæ, ...	33 9 24.03	58 Piscium, ...	11 24 52.95	+ 57.43	+ 6.45	+ 0.02	2.39	„
	ε Piscium, ...	7 20 16.94	45 Andromedæ,...	37 10 50.86	+163.73	− 3.78	+ 0.04	3.89	„
	90 Piscium, ...	26 43 35.62	P. I, 110, ...	17 56 15.33	− 98.13	− 4.81	− 0.03	2.51	„
	P. I, 223, ...	11 47 53.69	ε Trianguli, ...	32 47 30.86	+ 35.40	− 3.36	+ 0.01	4.32	„
	15 Trianguli,.....	34 14 32.53	85 Ceti, ...	10 18 19.80	+106.06	+ 2.02	+ 0.03	4.28	J.I.P.
	41 Arietis,.....	26 50 22.56	ρ^3 Arietis, ...	17 36 56.36	+271.24	+ 3.18	+ 0.08	3.96	„
	ρ^3 Arietis, ...	17 36 56.36	56 Arietis,.....	26 52 19.16	+214.36	+ 1.90	+ 0.06	4.08	„
	50 Arietis,.....	17 35 57.42	56 Arietis,.....	26 52 19.16	+244.65	+ 1.93	+ 0.07	4.94	„
	τ^2 Arietis, ...	20 22 36.90	64 Arietis,.....	24 21 45.13	−233.51	− 3.57	− 0.07	3.87	„
	f Tauri, ...	12 35 11.72	o Persei,.....	31 57 54.95	+100.19	+ 0.18	+ 0.03	3.73	„
	P. III, 170, ...	25 16 19.99	ω^1 Tauri, ...	19 20 22.80	− 4.75	− 1.40	0.00	5.25	„
	P. IV, 69, ...	31 12 36.02	83 Tauri, ...	13 30 9.55	−193.33	+ 4.66	− 0.05	4.06	„
	B. 625, ...	16 6 31.08	P. IV, 148, ...	28 25 5.21	+143.40	+ 1.19	+ 0.04	2.78	„
	π^1 Orionis, ...	6 47 1.63	4 Aurigæ, ...	37 44 12.53	+159.74	− 3.57	+ 0.04	3.29	„
	22 Aurigæ,.....	28 50 25.86	116 Tauri, ...	15 47 21.09	− 40.70	+ 0.09	− 0.01	2.85	„
	35 Orionis,.....	14 14 7.96	26 Aurigæ,.....	30 25 59.64	−105.64	− 4.10	− 0.03	4.03	„
	26 Aurigæ,.....	30 25 59.64	B. 823, ...	14 7 51.40	+ 79.73	− 1.13	+ 0.03	4.15	„
	32 Aurigæ, „.....	39 7 11.08	63 Orionis, ...	5 25 39.72	+108.09	+ 0.54	+ 0.03	4.06	„
	9 Geminorum, ...	23 46 38.51	15 Geminorum,...	20 51 14.82	− 42.64	− 0.80	− 0.01	3.22	„
	25 Geminorum,...	28 17 33.73	33 Geminorum,...	16 19 16.15	− 5.90	− 5.14	0.00	3.90	„
	64 Aurigæ, ...	41 3 57.46	δ^2 Canis Min., ...	3 30 41.83	+ 53.59	+ 0.62	+ 0.02	3.87	W.D.
	φ Geminorum, ...	27 1 56.56	3 Cancri, ...	17 35 29.16	− 37.04	+ 7.85	− 0.01	3.66	„
	P. VIII, 67, ...	7 54 4.24	32 Lyncis, ...	36 47 4.59	−140.43	− 1.37	− 0.04	2.58	„
	ρ^1 Cancri, ...	28 38 41.81	o^2 Cancri, ...	15 58 36.83	− 14.65	−11.56	− 0.01	3.10	„
	66 Cancri, ...	32 39 12.77	P. IX, 35, ...	11 55 58.16	+ 43.06	− 2.94	+ 0.01	[5.60]	„
	ψ Leonis, ...	14 29 32.85	P. IX, 221, ...	30 8 10.59	− 46.05	+ 6.93	− 0.01	2.59	„
	16 Sextantis,.....	6 40 33.13	G. 1619,.....	37 54 23.88	+ 43.79	+ 0.86	+ 0.01	3.16	„
	30 Leonis Min.,...	34 19 5.18	45 Leonis, ...	10 17 13.82	+ 2.15	+ 2.85	0.00	4.50	„
	46 Leonis, ...	14 39 54.21	43 Leonis Min.,...	29 57 30.29	− 33.50	+ 4.52	− 0.01	3.26	„
	60 Leonis, ...	20 43 50.53	64 Leonis, ...	23 52 43.06	− 1.24	− 2.97	0.00	2.58	„
	ν Ursæ Maj., ...	33 39 12.42	ι Leonis, ...	11 5 44.76	−251.94	− 3.27	− 0.07	3.31	„
5	34 Pegasi, ...	3 52 8.81	G. 3849,.....	40 46 53.87	− 84.87	+ 6.02	− 0.03	2.46	„
	13 Lacertæ, ...	41 16 58.33	B. F. 3143, ...	3 15 34.32	+111.11	+ 5.75	+ 0.04	3.23	„
6	13 Lacertæ, ...	41 16 58.32	B. F. 3143, ...	3 15 34.29	+119.83	− 3.04	+ 0.04	3.13	„
	β Pegasi, ...	27 31 38.77	P. XXIII, 4,.....	17 2 22.16	+ 80.10	− 4.05	+ 0.02	6.54	„
	P. XXIII, 4,.....	17 2 22.16	61 Pegasi, ...	27 41 23.11	−208.64	− 8.73	− 0.07	5.19	„
	B. 3107,.....	19 59 49.37	69 Pegasi, ...	24 36 16.75	+ 13.98	− 4.89	0.00	2.15	„
	15 Andromedæ,...	39 40 22.88	ι Piscium, ...	5 4 10.61	−238.72	− 4.20	− 0.07	3.76	„
	26 Piscium, ...	6 30 0.39	θ Andromedæ, ...	38 6 51.66	− 23.94	+ 9.51	0.00	1.59	„
	90 Piscium, ...	26 43 35.73	P. I, 110, ...	17 56 15.37	− 92.47	− 9.66	− 0.03	3.39	„

December, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
6	P. I, 123, ...	7 7 15.06	P. I, 170, ...	37 26 41.01	+ 80.28	− 5.51	+ 0.02	2.83	W.D.
	P. I, 223, ...	11 47 53.68	ε Trianguli, ...	32 47 31.05	+ 27.05	+ 3.91	+ 0.01	3.33	„
	β Trianguli, ...	34 30 15.89	P. II, 85, ...	10 6 16.57	− 6.32	+ 3.76	0.00	3.67	„
	15 Trianguli, ...	34 14 32.75	85 Ceti, ...	10 18 19.75	+112.38	− 4.08	+ 0.03	4.58	„
	40 Arietis, ...	17 51 28.47	41 Arietis, ...	26 50 22.69	−129.12	− 4.56	− 0.04	1.86	„
	41 Arietis, ...	26 50 22.69	ρ^3 Arietis, ...	17 36 56.40	+281.41	− 6.80	+ 0.08	4.24	„
	ρ^3 Arietis, ...	17 36 56.40	56 Arietis, ...	26 52 19.29	+223.77	− 7.13	+ 0.06	4.54	„
	50 Arietis, ...	17 35 57.45	56 Arietis, ...	26 52 19.29	+253.61	− 7.13	+ 0.07	4.92	„
	τ^2 Arietis, ...	20 22 36.95	64 Arietis, ...	24 21 45.23	−237.20	− 0.21	− 0.07	3.61	„
	f Tauri, ...	12 35 11.67	o Persei, ...	31 57 55.13	+103.76	− 4.71	+ 0.03	2.48	„
	16 Sextantis, ...	6 40 32.65	G. 1619, ...	37 54 23.53	+ 58.92	−13.62	+ 0.01	3.40	J.I.P.
	30 Leonis Min., ...	34 19 4.78	45 Leonis, ...	10 17 13.34	+ 11.01	− 6.29	0.00	3.78	„
	46 Leonis, ...	14 39 53.74	43 Leonis Min., ...	29 57 29.84	− 31.23	+ 2.00	− 0.01	2.55	„
	60 Leonis, ...	20 43 50.04	64 Leonis, ...	23 52 42.57	− 1.45	0.00	0.00	4.86	„
	ν Ursæ Maj., ...	33 39 11.92	ι Leonis, ...	11 5 44.25	−250.03	− 3.91	− 0.07	4.07	„
7	13 Lacertæ, ...	41 16 58.31	B. F. 3143, ...	3 15 34.26	+120.10	− 1.26	+ 0.04	[5.15]	W.D.
	β Pegasi, ...	27 31 38.76	P. XXIII, 4, ...	17 2 22.15	+ 74.53	+ 0.21	+ 0.02	5.21	„
	P. XXIII, 4, ...	17 2 22.15	61 Pegasi, ...	27 41 23.11	−225.86	+ 6.83	− 0.07	3.53	„
	B. 3107, ...	19 59 49.36	69 Pegasi, ...	24 36 16.76	+ 7.93	+ 0.57	0.00	1.56	„
	15 Andromedæ, ...	39 40 22.93	ι Piscium, ...	5 4 10.59	−243.83	+ 1.40	− 0.07	4.26	„
	26 Piscium, ...	6 30 0.38	θ Andromedæ, ...	38 6 51.74	− 15.49	+ 1.82	0.00	2.39	„
	47 Andromedæ, ...	37 10 55.52	P. I, 85, ...	7 25 48.02	− 4.12	− 5.78	0.00	1.87	„
	P. I, 123, ...	7 7 15.06	P. I, 170, ...	37 26 41.13	+ 77.92	− 3.99	+ 0.02	2.04	„
	P. I, 223, ...	11 47 53.69	ε Trianguli, ...	32 47 31.16	+ 33.13	− 3.34	+ 0.01	2.23	„
	β Trianguli, ...	34 30 16.01	P. II, 85, ...	10 6 16.57	+ 1.39	− 3.04	0.00	4.64	„
	15 Trianguli, ...	34 14 32.87	85 Ceti, ...	10 18 19.75	+114.44	− 6.05	+ 0.03	4.73	„
	40 Arietis, ...	17 51 28.50	41 Arietis, ...	26 50 22.78	−166.67	+ 3.94	− 0.04	2.87	„
	41 Arietis, ...	26 50 22.78	ρ^3 Arietis, ...	17 36 56.43	+273.70	+ 0.48	+ 0.08	3.87	„
	ρ^3 Arietis, ...	17 36 56.43	56 Arietis, ...	26 52 19.38	+217.63	− 1.82	+ 0.06	3.77	„
	50 Arietis, ...	17 35 57.49	56 Arietis, ...	26 52 19.38	+246.98	− 1.82	+ 0.07	3.67	„
	τ^2 Arietis, ...	20 22 37.00	64 Arietis, ...	24 21 45.30	−242.14	+ 3.91	− 0.07	2.85	„
	f Tauri, ...	12 35 11.68	o Persei, ...	31 57 55.24	+102.76	− 3.99	+ 0.03	2.26	„
	41 Tauri, ...	27 19 30.03	δ^1 Tauri, ...	17 18 13.18	− 35.95	− 3.49	− 0.01	2.15	„
	κ^1 Tauri, ...	22 3 38.92	υ^1 Tauri, ...	22 34 58.37	− 73.11	+ 7.18	− 0.02	2.72	„
	90 Tauri, ...	12 18 23.94	P. IV, 185, ...	32 24 35.58	−200.62	+ 3.28	− 0.06	2.36	„
	16 Sextantis, ...	6 40 32.44	G. 1619, ...	37 54 23.38	+ 50.11	− 5.75	+ 0.01	2.28	J.I.P.
	30 Leonis Min., ...	34 19 4.60	45 Leonis, ...	10 17 13.12	+ 10.47	− 4.92	0.00	4.41	„
	46 Leonis, ...	14 39 53.52	43 Leonis Min., ...	29 57 29.64	− 28.17	− 1.61	− 0.01	1.79	„
	60 Leonis, ...	20 43 49.81	64 Leonis, ...	23 52 42.34	− 8.44	+ 4.53	0.00	2.17	„
	ν Ursæ Maj., ...	33 39 11.70	ι Leonis, ...	11 5 44.00	−252.97	− 1.02	− 0.07	3.79	„
	P. XI, 111, ...	28 20 51.71	95 Leonis, ...	16 13 5.45	+ 73.86	+ 1.64	+ 0.02	4.11	„
8	20 Leonis Min., ...	32 25 40.74	P. IX, 237, ...	12 7 32.72	+ 95.98	0.00	+ 0.03	2.74	„
	16 Sextantis, ...	6 40 32.22	G. 1619, ...	37 54 23.23	+ 54.20	− 8.76	+ 0.01	3.18	„
	30 Leonis Min., ...	34 19 4.43	45 Leonis, ...	10 17 12.90	+ 9.89	− 4.02	0.00	4.53	„
	46 Leonis, ...	14 39 53.30	43 Leonis Min., ...	29 57 29.43	− 28.53	+ 0.03	− 0.01	2.86	„
	60 Leonis, ...	20 43 49.58	64 Leonis, ...	23 52 42.11	+ 1.18	− 3.99	0.00	3.04	„
	ν Ursæ Maj., ...	33 39 11.47	ι Leonis, ...	11 5 43.76	−249.55	− 4.71	− 0.07	3.28	„
11	141 Tauri, ...	22 23 59.57	P. V, 338, ...	22 12 29.43	+ 6.90	− 7.10	0.00	4.30	„
	9 Geminorum, ...	23 46 38.51	15 Geminorum, ...	20 51 14.65	− 36.19	− 5.96	− 0.01	4.42	„
	49 Aurigæ, ...	28 6 13.58	γ Geminorum, ...	16 29 19.04	+ 31.77	− 4.50	+ 0.01	3.59	„
	25 Geminorum, ...	28 17 33.82	33 Geminorum, ...	16 19 15.71	+ 0.85	−10.94	0.00	4.68	„
	36 Geminorum, ...	21 53 1.50	44 Geminorum, ...	22 47 32.88	−129.69	+ 5.24	− 0.03	2.71	„
	64 Aurigæ, ...	41 3 57.86	δ^2 Canis Min., ...	3 30 40.78	+ 61.22	− 7.18	+ 0.02	3.38	„
	φ Geminorum, ...	27 1 56.24	3 Cancri, ...	17 35 28.47	− 26.33	− 2.47	− 0.01	3.54	„
	P. VIII, 67, ...	7 54 3.15	32 Lyncis, ...	36 47 4.34	−144.01	+ 3.58	− 0.04	3.28	„
	ρ^1 Cancri, ...	28 38 41.19	o^2 Cancri, ...	15 58 35.84	− 19.25	− 4.71	− 0.01	4.55	„
12	τ^2 Arietis, ...	20 22 37.14	64 Arietis, ...	24 21 45.56	−243.34	+ 5.27	− 0.07	3.21	W.D.
	f Tauri, ...	12 35 11.60	o Persei, ...	31 57 55.73	+ 98.28	+ 1.19	+ 0.03	3.16	„
	ξ Persei, ...	35 29 53.94	47 Tauri, ...	9 0 16.91	+194.42	− 6.50	+ 0.05	3.40	„
	κ^1 Tauri, ...	22 3 39.10	υ^1 Tauri, ...	22 34 58.57	− 69.33	+ 2.12	− 0.02	1.60	„
	90 Tauri, ...	12 18 23.81	P. IV, 185, ...	32 24 36.07	−193.12	− 3.85	− 0.06	2.91	„
	π^1 Orionis, ...	6 47 1.08	4 Aurigæ, ...	37 44 13.50	+156.83	− 1.70	+ 0.04	2.46	„
	μ Aurigæ, ...	38 21 53.18	γ Orionis, ...	6 15 30.40	− 25.18	− 3.01	− 0.01	3.59	„
	35 Orionis, ...	14 14 7.66	26 Aurigæ, ...	30 26 0.13	−113.84	+ 3.43	− 0.03	3.46	J.I.P.
	26 Aurigæ, ...	30 26 0.13	* B. 823, ...	14 7 51.06	+ 81.19	− 1.05	+ 0.03	[5.76]	„
	32 Aurigæ, ...	39 7 11.95	63 Orionis, ...	5 25 38.89	+111.11	− 2.83	+ 0.03	3.73	„
	9 Geminorum, ...	23 46 38.52	15 Geminorum, ...	20 51 14.64	− 40.58	− 1.11	− 0.01	4.88	„
	49 Aurigæ, ...	28 6 13.60	γ Geminorum, ...	16 29 18.99	+ 30.50	− 3.64	+ 0.01	3.16	„
	25 Geminorum, ...	28 17 33.84	33 Geminorum, ...	16 19 15.66	− 7.63	− 4.41	0.00	2.71	„
	36 Geminorum, ...	21 53 1.48	44 Geminorum, ...	22 47 32.86	−118.74	− 5.15	− 0.03	3.25	„
	64 Aurigæ, ...	41 3 57.94	δ^2 Canis Min., ...	3 30 40.64	+ 54.65	+ 0.93	+ 0.02	4.89	„
	φ Geminorum, ...	27 1 56.22	3 Cancri, ...	17 35 28.40	− 26.87	− 2.15	− 0.01	3.28	„
	P. VIII, 67, ...	7 54 3.02	32 Lyncis, ...	36 47 4.34	−142.85	+ 2.50	− 0.04	3.29	„
20	15 Andromedæ, ...	39 40 22.46	ι Piscium, ...	5 4 9.67	−243.49	+ 2.09	− 0.07	4.60	W.D.
	26 Piscium, ...	6 29 59.51	θ Andromedæ, ...	38 6 51.71	− 14.34	+ 1.67	0.00	2.94	„
	ρ Andromedæ, ...	37 24 9.89	45 Piscium, ...	7 7 24.44	+149.45	− 4.26	+ 0.04	2.39	„

* Star faint, probably from haze.

December, 1896.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
20	π Andromedæ, ...	33 9 24.23	58 Piscium, ...	11 24 52.28	+ 65.91	− 0.75	+ 0.02	3.43	W.D.
	ε Piscium, ...	7 20 16.13	45 Andromedæ,...	37 10 51.62	+159.80	− 0.48	+ 0.04	3.24	"
	15 Trianguli, ...	34 14 33.73	85 Ceti, ...	10 18 19.12	+111.87	− 4.86	+ 0.03	3.47	"
	40 Arietis, ...	17 51 28.34	41 Arietis, ...	26 50 23.20	−160.25	− 1.19	− 0.04	4.29	"
	41 Arietis, ...	26 50 23.20	ρ^3 Arietis, ...	17 36 56.25	+276.03	− 1.46	+ 0.08	4.37	"
	ρ^3 Arietis, ...	17 36 56.25	56 Arietis, ...	26 52 19.85	+223.25	− 7.87	+ 0.06	3.49	"
	50 Arietis, ...	17 35 57.32	56 Arietis, ...	26 52 19.85	+252.57	− 7.87	+ 0.07	3.36	"
	τ^2 Arietis, ...	20 22 37.02	64 Arietis, ...	24 21 45.61	−228.64	− 9.27	− 0.07	3.33	"
	f Tauri, ...	12 35 11.14	o Persei, ...	31 57 56.12	+ 98.34	+ 0.15	+ 0.03	2.15	"
	P. III, 170, ...	25 16 20.54	ω^1 Tauri, ...	19 20 22.75	− 14.22	+ 5.01	0.00	2.43	"
22	φ Geminorum, ...	27 1 55.70	3 Cancri, ...	17 35 27.33	− 28.08	+ 1.46	− 0.01	4.89	J.I.P.
	B. 1158, ...	22 45 8.14	μ^2 Cancri, ...	21 52 50.10	− 47.02	+ 2.47	− 0.02	4.35	"
	P. VIII, 67, ...	7 54 1.34	32 Lyncis, ...	36 47 4.07	−139.37	− 1.19	− 0.04	2.10	"
	ρ^1 Cancri, ...	28 38 40.32	o^2 Cancri, ...	15 58 34.30	− 23.63	− 0.78	− 0.01	2.89	"
	66 Cancri, ...	32 39 11.47	P. IX, 35, ...	11 55 55.16	+ 38.88	+ 1.91	+ 0.01	4.12	"
23	26 Piscium, ...	6 29 59.39	θ Andromedæ, ...	36 6 51.71	− 9.55	− 4.11	0.00	1.91	W.D.
	ρ Andromedæ, ...	37 24 9.90	45 Piscium, ...	7 7 24.34	+145.24	+ 1.08	+ 0.04	3.48	"
	π Andromedæ, ...	33 9 24.25	58 Piscium, ...	11 24 52.21	+ 64.88	+ 0.36	+ 0.02	3.59	"
	62 Piscium, ...	6 44 22.29	μ Andromedæ, ...	37 56 44.16	−141.16	+ 1.28	− 0.04	3.30	"
	44 Andromedæ,...	41 32 20.40	89 Piscium, ...	3 4 25.56	− 17.49	+ 8.37	0.00	3.86	"
	47 Andromedæ,...	37 10 56.24	P. I, 85, ...	7 25 47.19	− 11.44	+ 3.99	0.00	4.27	"
	P. I, 123, ...	7 7 14.22	P. I, 170, ...	37 26 42.10	+ 74.62	+ 1.31	+ 0.02	4.11	"
	15 Trianguli, ...	34 14 33.98	85 Ceti, ...	10 18 19.09	+105.79	+ 0.90	+ 0.03	3.26	"
	40 Arietis, ...	17 51 28.40	41 Arietis, ...	26 50 23.37	−159.59	− 3.25	− 0.04	3.01	"
	41 Arietis, ...	26 50 23.37	ρ^3 Arietis, ...	17 36 56.31	+271.37	+ 1.70	+ 0.08	2.99	"
	ρ^3 Arietis, ...	17 36 56.31	56 Arietis, ...	26 52 20.04	+212.91	+ 2.35	+ 0.06	3.50	"
	50 Arietis, ...	17 35 57.38	56 Arietis, ...	26 52 20.04	+242.47	+ 2.35	+ 0.07	3.60	"
	τ^2 Arietis, ...	20 22 37.13	64 Arietis, ...	24 21 45.77	−236.75	− 2.12	− 0.07	2.51	"
	f Tauri, ...	12 35 11.14	o Persei, ...	31 57 56.40	+102.49	− 3.43	+ 0.03	2.86	J.I.P.
	ξ Persei, ...	35 29 54.84	47 Tauri, ...	9 0 16.14	+188.55	− 0.51	+ 0.05	3.58	"
	P. IV, 69, ...	31 12 37.37	83 Tauri, ...	13 30 8.84	−184.94	− 2.98	− 0.05	5.13	"
	B. 625, ...	16 6 30.66	P. IV, 148, ...	28 25 6.19	+140.68	+ 4.11	+ 0.04	3.26	"
	π^1 Orionis, ...	6 47 0.06	4 Aurigæ, ...	37 44 14.52	+152.87	+ 2.68	+ 0.04	2.88	"
	22 Aurigæ, ...	28 50 26.69	116 Tauri, ...	15 47 20.33	− 36.46	− 3.76	− 0.01	3.28	"
	35 Orionis, ...	14 14 6.99	26 Aurigæ, ...	30 26 0.55	−115.14	+ 6.56	− 0.03	5.16	"
	26 Aurigæ, ...	30 26 0.55	B. 823, ...	14 7 50.35	+ 80.94	− 1.97	+ 0.03	4.45	"
	32 Aurigæ, ...	39 7 12.92	63 Orionis, ...	5 25 37.51	+113.62	− 5.07	+ 0.03	3.79	"
	9 Geminorum, ...	23 46 38.33	15 Geminorum, ...	20 51 14.20	− 40.49	− 2.20	− 0.01	3.57	"
	49 Aurigæ, ...	28 6 13.63	γ Geminorum, ...	16 29 18.22	+ 33.50	− 5.39	+ 0.01	4.04	"
	25 Geminorum, ...	28 17 33.85	33 Geminorum, ...	16 19 14.82	− 7.44	− 2.77	0.00	4.13	"
	36 Geminorum, ...	21 53 1.00	44 Geminorum, ...	22 47 32.37	−125.27	+ 3.46	− 0.03	4.84	"
	64 Aurigæ, ...	41 3 58.56	δ^2 Canis Min., ...	3 30 38.80	+ 56.01	− 0.66	+ 0.02	4.05	"
	φ Geminorum, ...	27 1 55.70	3 Cancri, ...	17 35 27.27	− 25.36	− 2.03	− 0.01	4.09	W.D.
	P. VIII, 67, ...	7 54 1.22	32 Lyncis, ...	36 47 4.09	−136.53	− 3.91	− 0.04	2.18	"
	ρ^1 Cancri, ...	28 38 40.29	o^2 Cancri, ...	15 58 34.19	− 26.87	+ 3.22	− 0.01	3.58	"
	66 Cancri, ...	32 39 11.45	P. IX, 35, ...	11 55 55.01	− 38.76	+ 0.75	+ 0.01	2.75	"
	ψ Leonis, ...	14 29 29.65	P. IX, 221, ...	30 8 8.15	− 37.40	− 0.42	− 0.01	1.07	"
	16 Sextantis, ...	6 40 29.32	G. 1619, ...	37 54 21.72	+ 49.56	− 3.28	+ 0.02	1.82	"
	30 Leonis Min.,...	34 19 2.55	45 Leonis, ...	10 17 10.03	− 0.76	+ 8.49	0.00	4.02	"
	46 Leonis, ...	14 39 50.55	43 Leonis Min.,...	29 57 27.06	− 24.15	− 1.88	− 0.01	2.77	"
	60 Leonis, ...	20 43 46.79	64 Leonis, ...	23 52 39.35	− 1.69	+ 0.84	0.00	2.22	"
	ν Ursæ Maj., ...	33 39 8.87	ι Leonis, ...	11 5 40.61	−257.69	+ 6.65	− 0.07	3.63	"
	P. XI, 111, ...	28 20 48.54	95 Leonis, ...	16 13 1.94	+ 73.20	+ 5.66	+ 0.02	4.12	"
	6 Comæ, ...	15 28 10.48	10 Comæ, ...	29 1 54.67	+190.94	− 2.23	+ 0.05	1.33	"
	6 Canes Ven, ...	39 35 5.90	P. XII, 95, ...	4 57 54.63	+100.10	+ 4.62	+ 0.03	5.02	"
31	90 Tauri, ...	12 18 22.69	P. IV, 185, ...	32 24 37.18	−193.21	− 3.04	− 0.06	3.62	J.I.P.
	π^1 Orionis, ...	6 46 59.31	4 Aurigæ, ...	37 44 15.20	+159.32	− 3.76	+ 0.04	2.86	"
	22 Aurigæ, ...	28 50 26.94	116 Tauri, ...	15 47 19.94	− 38.76	− 1.55	− 0.01	3.12	"
	35 Orionis, ...	14 14 6.51	26 Aurigæ, ...	30 26 0.88	−109.78	− 0.18	− 0.03	3.71	"
	26 Aurigæ, ...	30 26 0.88	B 823, ...	14 7 49.86	+ 79.98	− 1.22	+ 0.03	4.16	"
	χ^1 Orionis, ...	20 8 32.54	5 Geminorum, ...	24 26 39.45	+ 37.28	− 0.51	+ 0.01	2.78	"
	9 Geminorum, ...	23 46 38.26	15 Geminorum, ...	20 51 13.96	− 41.70	− 0.72	− 0.01	3.68	"
	49 Aurigæ, ...	28 6 13.74	γ Geminorum, ...	16 29 17.73	+ 33.38	− 5.93	+ 0.01	3.19	"
	25 Geminorum, ...	28 17 32.95	33 Geminorum, ...	16 19 14.29	− 12.10	+ 1.43	0.00	2.95	"
	36 Geminorum, ...	21 53 0.75	44 Geminorum, ...	22 47 32.13	−125.03	+ 2.50	− 0.03	3.88	"
	64 Aurigæ, ...	41 3 59.19	δ^2 Canis Minoris, .	3 30 37.55	+ 55.07	− 0.54	+ 0.02	2.92	"
	φ Geminorum, ...	27 1 55.52	3 Cancri, ...	17 35 26.61	− 27.20	+ 0.60	− 0.01	4.46	"
	B. 1158, ...	22 45 7.67	μ^2 Cancri, ...	21 52 49.58	− 36.46	− 8.52	− 0.01	3.63	"
	P. VIII, 67, ...	7 54 0.03	32 Lyncis, ...	36 47 4.19	−134.62	− 3.49	− 0.04	3.96	W.D.
	ρ^1 Cancri, ...	28 38 39.93	o^2 Cancri, ...	15 58 33.27	− 26.81	+ 3.43	− 0.01	3.21	"
	83 Cancri, ...	18 8 26.07	B. 1319, ...	26 21 32.32	+194.12	+ 0.84	+ 0.05	4.20	"
	ψ Leonis, ...	14 29 28.52	P. IX, 221, ...	30 8 7.51	− 33.89	− 1.34	− 0.01	2.77	"
	20 Leonis Min, ...	32 25 38.49	P. IX, 237, ...	12 7 28.79	+100.73	− 2.71	+ 0.03	1.69	"
	16 Sextantis, ...	6 40 27.86	G 1619, ...	37 54 21.28	+ 45.63	+ 3.52	+ 0.01	3.73	"
	30 Leonis Min, ...	34 19 1.88	45 Leonis, ...	10 17 8.63	+ 4.84	+ 3.40	0.00	3.50	"
	46 Leonis, ...	14 39 49.27	43 Leonis Min, ...	29 57 26.14	− 19.82	− 5.07	− 0.01	2.81	"
	60 Leonis, ...	20 43 45.56	64 Leonis, ...	23 52 38.18	+ 2.42	− 1.22	0.00	3.07	"

January, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″		″	″	″	
3	90 Piscium, ...	26 43 35.59	P. I, 110, ...	17 56 14.67	− 98.56	− 4.44	− 0.03	2.10	W.D.
	P. I, 123, ...	7 7 13.53	P. I, 170, ...	37 26 42.26	+ 71.08	+ 4.71	+ 0.02	3.71	„
	P. I, 223, ...	11 47 52.57	ε Trianguli, ...	32 47 32.05	+ 33.47	− 2.95	+ 0.01	2.84	„
	τ^2 Arietis, ...	20 22 37.00	64 Arietis, ...	24 21 45,83	−237.48	− 0.75	− 0.07	3.11	„
	f Tauri, ...	12 35 10.62	o Persei,.....	31 57 56.89	+100.67	− 0.78	+ 0.03	3.68	„
	P. III, 170, ...	25 16 20.88	ω^1 Tauri,.....	19 20 22.67	− 6.51	− 1.05	0.00	4.22	„
	κ^1 Tauri,.....	22 3 39.11	υ^1 Tauri,.....	22 34 58.65	− 60.79	− 4.53	− 0.02	3.54	„
	90 Tauri, ...	12 18 22.57	P. IV, 185, ...	32 24 37.37	−194.99	− 0.99	− 0.05	3.94	„
	μ Aurigæ, ...	38 21 55.20	γ Orionis, ...	6 15 28.11	− 31.29	+ 3.13	− 0.01	3.49	„
	35 Orionis,.....	14 14 6.36	26 Aurigæ,.....	30 26 1.01	−109.72	− 0.60	− 0.03	3.34	„
	α Orionis, ...	7 23 21.03	θ Aurigæ, ...	37 12 26.65	+ 19.18	− 0.15	+ 0.01	2.88	„
4	P. IV, 69, ...	31 12 38.00	83 Tauri, ...	13 30 8.32	−189.88	+ 1.25	− 0.05	4.48	J.I.P.
	B 625, ...	16 6 30.30	P. IV, 148,.....	28 25 6.65	+146.82	− 1.40	+ 0.04	3.94	„
	μ Aurigæ, ...	38 21 55.35	γ Orionis, ...	6 15 28.07	− 27.32	− 1.49	− 0.01	2.89	„
	35 Orionis, ...	14 14 6.36	26 Aurigæ,.....	30 26 1.11	−108.87	− 0.48	− 0.03	4.35	„
	26 Aurigæ,.....	30 26 1.11	B 823, ...	14 7 49.69	+ 80.55	− 1.70	+ 0.03	4.28	„
	α Orionis, ...	7 23 20.98	θ Aurigæ, ...	37 12 26.78	+ 21.73	− 0.54	+ 0.01	5.08	„
	χ^4 Orionis, ...	20 8 32.48	5 Geminorum, ...	24 26 39.49	+ 36.92	+ 0.81	− 0.01	3.72	„
	9 Geminorum, ...	23 46 38.27	15 Geminorum, ...	20 51 13.88	− 39.79	− 2.03	− 0.01	4.25	„
	49 Aurigæ, ...	28 6 13.83	γ Geminorum, ...	16 29 17.53	+ 37.31	− 9.12	+ 0.01	3.88	„
	25 Geminorum, ...	28 17 34.04	33 Geminorum, ...	16 19 14.07	− 7.69	− 2.71	0.00	3.65	„
	36 Geminorum, ...	21 53 0.67	44 Geminorum, ...	22 47 32.04	−121.22	− 1.1[illegible]	− 0.03	3.94	„
	φ Geminorum, ...	27 1 55.41	3 Cancri, ...	17 35 26.26	− 27.08	− 0.1[illegible]	− 0.01	3.57	„
	B. 1158,.....	22 45 7.44	μ^2 Cancri, ...	21 52 49.33	− 49.81	+ 5.18	− 0.01	3.74	„
	P. VIII, 67, ...	7 53 59.41	32 Lyncis, ...	36 47 4.26	−132.50	− 4.38	− 0.04	4.92	„
6	44 Andromedæ,...	41 32 20.32	89 Piscium, ...	3 4 24.66	− 6.63	− 2.12	0.00	3.74	W.D.
	47 Andromedæ,...	37 10 56.18	P. I, 85,.....	7 25 46.40	− 8.11	− 0.66	0.00	2.52	„
	P. I, 123, ...	7 7 13.42	P. I, 170, ...	37 26 42.32	+ 75.80	+ 1.05	+ 0.02	4.74	„
	P. I, 223, ...	11 47 52.49	ε Trianguli, ...	32 47 32.11	+ 33.19	− 2.44	+ 0.01	3.06	„
	β Trianguli, ...	34 30 17.24	P. II, 85, ...	10 6 15.24	− 3.87	+ 1.19	0.00	3.56	„
	ξ Persei,.....	35 29 55.94	47 Tauri, ...	9 0 15.31	+187.40	− 0.96	+ 0.05	2.12	„
	90 Tauri, ...	12 18 22.54	P. IV, 185, ...	32 24 37.67	−194.02	− 0.87	− 0.05	5.17	„
	22 Aurigæ,.....	28 50 27.39	116 Tauri, ...	15 47 19.65	− 41.09	+ 0.33	− 0.01	2.75	„
	35 Orionis,.....	14 14 6.35	26 Aurigæ,.....	30 26 1.28	−105.24	− 4.05	− 0.03	4.50	„
	26 Aurigæ, ...	30 26 1.28	B. 823, ...	14 7 49.67	+ 79.22	− 1.19	+ 0.03	3.53	„
	32 Aurigæ, ...	39 7 14.35	63 Orionis,.....	5 25 36.01	+103.00	+ 4.23	+ 0.03	2.44	„
	9 Geminorum, ...	23 46 38.36	15 Geminorum, ...	20 51 13.93	− 44.90	+ 2.00	− 0.01	3.24	„
	49 Aurigæ, ...	28 6 13.97	γ Geminorum, ...	16 29 17.52	+ 27.96	+ 0.78	+ 0.01	4.50	„
7	44 Andromedæ,...	41 32 20.27	89 Piscium, ...	3 4 24.60	− 11.35	+ 1.22	0.00	2.31	„
	47 Andromedæ,...	37 10 56.13	P. I, 85,.....	7 25 46.32	− 14.46	+ 5.63	0.00	2.39	„
	P. I, 123,.....	7 7 13.34	P. I, 170, ...	37 26 42.30	+ 77.95	− 0.12	+ 0.02	5.67	„
	P. I, 223, ...	11 47 52.43	ε Trianguli, ...	32 47 32.09	+ 35.95	− 2.62	+ 0.01	5.60	„
	β Trianguli, ...	34 30 17.23	P. II, 85, ...	10 6 15.18	− 2.72	+ 0.24	0.00	3.73	„
	15 Trianguli,.....	34 14 34.46	85 Ceti, ...	10 18 18.38	+103.97	+ 2.62	+ 0.03	3.04	„
	40 Arietis,.....	17 51 28.09	41 Arietis,.....	26 50 23.55	−162.49	+ 0.78	− 0.04	4.07	„
	41 Arietis,.....	26 50 23.53	ρ^3 Arietis, ...	17 36 55.99	+274.06	− 0.06	+ 0.08	3.85	„
	ρ^3 Arietis, ...	17 36 55.99	56 Arietis,.....	26 52 20.33	+217.39	− 2.03	+ 0.06	3.58	„
	α Orionis, ...	7 23 20.82	θ Aurigæ,.....	37 12 27.16	+ 18.85	+ 1.08	+ 0.01	3.93	J.I.P.
	χ^4 Orionis, ...	20 8 32.55	5 Geminorum, ...	24 26 39.64	+ 33.98	+ 2.59	+ 0.01	2.68	„
14	26 Aurigæ,.....	30 26 1.54	B. 823,.....	14 7 49.19	+ 80.55	− 2.15	+ 0.03	3.80	„
	α Orionis, ...	7 23 20.08	θ Aurigæ, ...	37 12 27.63	+ 22.63	− 2.68	+ 0.01	3.81	„
	χ^4 Orionis, ...	20 8 32.32	5 Geminorum, ...	24 26 39.58	+ 38.28	− 1.67	+ 0.01	2.57	„
	9 Geminorum, ...	23 46 38.32	15 Geminorum, ...	20 51 13.74	− 41.49	− 0.45	− 0.01	4.08	„
	49 Aurigæ, ...	28 6 14.13	γ Geminorum, ...	16 29 17.11	+ 36.61	− 8.40	+ 0.01	3.84	„
	25 Geminorum, ...	28 17 34.35	33 Geminorum, ...	16 19 13.62	− 12.80	+ 1.40	0.00	2.59	„
	36 Geminorum, ...	21 53 0.56	44 Geminorum, ...	22 47 31.97	−117.68	− 5.30	− 0.03	3.25	„
	64 Aurigæ,.....	41 4 0.57	δ^2 Canis Minoris,.	3 30 35.59	+ 56.01	− 0.96	+ 0.02	3.15	„
	φ Geminorum, ...	27 1 55.49	3 Cancri, ...	17 35 25.72	− 22.30	− 4.62	− 0.01	3.68	„
	B. 1158,.....	22 45 7.21	μ^2 Cancri, ...	21 52 49.04	− 45.27	+ 0.15	− 0.01	2.99	„
	P. VIII, 67, ...	7 53 58.21	32 Lyncis, ...	36 47 4.80	−140.89	+ 2.47	− 0·04	3.05	„
	ρ^1 Cancri, ...	28 38 39.69	o^2 Cancri, ...	15 58 31.95	− 21.03	− 1.08	− 0.01	3.70	„
	66 Cancri, ...	32 39 11.24	P. IX, 35, ...	11 55 52.11	+ 43.51	− 0.90	+ 0.01	4.30	„
	83 Cancri, ...	18 8 24.79	B. 1319,.....	26 21 31.66	+198.74	− 4.68	+ 0.05	2.33	„
	ψ Leonis, ...	14 29 26.82	P. IX, 221, ...	30 8 6.83	− 31.77	− 3.49	− 0.01	3.56	„
	20 Leonis Minoris,	32 25 37.95	P. IX, 237, ...	12 7 26.80	+108.93	− 7.69	+ 0.03	3.64	„
	16 Sextantis,.. ...	6 40 25.49	G. 1619,.....	37 54 21.04	+ 60.58	−10.28	+ 0.01	3.58	„
	30 Leonis Minoris,	34 19 1.25	45 Leonis, ...	10 17 6.41	+ 9.47	+ 0.39	0.00	3.69	„
	46 Leonis, ...	14 39 47.31	43 Leonis Minoris,	29 57 24.99	− 22.60	− 0.24	− 0.01	3.30	„
25	15 Trianguli,.....	34 14 34.03	85 Ceti, ...	10 18 17.24	+112.90	− 4.29	+ 0.03	4.28	W.D.
	40 Arietis,.....	17 51 27.20	41 Arietis,.....	26 50 22.99	−158.53	− 3.70	− 0.04	2.82	„
	41 Arietis,.....	26 50 22.99	ρ^3 Arietis, ...	17 36 55.13	+282.23	− 6.89	+ 0.08	4.48	„
	ρ^3 Arietis, ...	17 36 55.13	56 Arietis,.....	26 52 19.97	+214.78	+ 1.61	+ 0.06	4.00	„
	50 Arietis,..... ...	17 35 56.24	56 Arietis,.....	26 52 19.97	+244.50	+ 1.61	+ 0.07	4.29	„
	τ^2 Arietis, ...	20 22 36.44	64 Arietis,.....	24 21 45.55	−230.58	− 7.27	− 0.07	3.08	„
	26 Aurigæ,.....	30 26 2.13	B. 823, ...	14 7 48.87	+ 85.15	− 6.86	+ 0.03	3.82	J.I.P.
	α Orionis, ...	7 23 19.37	θ Aurigæ, ...	37 12 28.64	+ 20.82	− 0.75	+ 0.01	4.08	„

January, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
25	141 Tauri,	22 23 59.38	P. V, 338,	22 12 29.12	+ 1.79	− 2.35	0.00	3.69	J.I.P.
	49 Aurigæ,	28 6 14.64	γ Geminorum,	16 29 16.88	+ 27.45	+ 1.19	+ 0.01	4.41	„
	36 Geminorum,	21 53 0.66	44 Geminorum,	22 47 32.10	−123.43	+ 1.58	− 0.03	4.50	„
	64 Aurigæ,	41 4 1.89	δ^2 Canis Minoris,	3 30 34.39	+ 63.85	− 7.57	+ 0.02	4.44	„
	φ Geminorum,	27 1 55.83	3 Cancri,	17 35 25.39	− 26.20	− 0.60	− 0.01	3.80	„
	B. 1158,	22 45 7.22	μ^2 Cancri,	21 52 48.99	− 49.20	+ 4.92	− 0.01	3 81	„
	ρ^1 Cancri,	28 38 39.94	o^2 Cancri,	15 58 31.31	− 18.49	− 3.01	− 0.01	4.12	„
	83 Cancri,	18 8 24.22	B. 1319,	26 21 31.61	+195.41	+ 1.46	+ 0.05	5.84	„
	ψ Leonis.	14 29 25.90	P. IX, 221,	30 8 6.83	− 36.34	+ 2.00	− 0.01	2.01	„
	16 Sextantis,	6 40 23.99	G. 1619,	37 54 21.45	+ 49.44	+ 1.14	+ 0.01	3.31	„
	46 Leonis,	14 39 46.19	43 Leonis Minoris,	29 57 24.66	− 31.98	+ 8.97	− 0.01	2.41	„
	60 Leonis,	20 43 42.83	64 Leonis,	23 52 35.72	+ 4.51	+ 0.06	0.00	3.85	„
	ν Ursæ Majoris,	33 39 6.28	ι Leonis,	11 5 35.16	−247.49	+ 1.22	− 0.07	4.38	„
26	15 Trianguli,	34 14 33.96	85 Ceti,	10 18 17.16	+106.97	+ 0.39	+ 0.03	2.95	W.D.
	40 Arietis,	17 51 27.13	41 Arietis,	26 50 22.92	−160.22	− 1.19	− 0.04	3.57	„
	41 Arietis,	26 50 22.92	ρ^3 Arietis,	17 36 55.05	+275.24	− 0.66	+ 0.08	3.65	„
	ρ^3 Arietis,	17 36 55.05	56 Arietis,	26 52 19.90	+217.90	− 1.52	+ 0.06	3.91	„
	50 Arietis,	17 35 56.16	56 Arietis,	26 52 19.90	+247.91	− 1.52	+ 0.07	4.49	„
	τ^2 Arietis,	20 22 36.37	64 Arietis,	24 21 45.48	−236.48	− 0.36	− 0.07	4.02	„
	f Tauri,	12 35 9.53	o Persei,	31 57 57.32	+101.43	− 0.87	+ 0.03	4.02	„
	κ^1 Tauri,	22 3 38.99	v^1 Tauri,	22 34 58.59	− 61.31	− 4.08	− 0.02	3.38	„
	90 Tauri,	12 18 21.53	P. IV, 185,	32 24 38.45	−199.59	+ 3.28	− 0.05	3.63	„
	α Orionis,	7 23 19.27	θ Aurigæ,	37 12 28.67	+ 20.91	− 0.72	+ 0.01	4.17	J.I.P.
	141 Tauri,	22 23 59.35	P. V, 338,	22 12 29.09	+ 7.41	− 9.24	0.00	2.39	„
	49 Aurigæ,	28 6 14.64	γ Geminorum,	16 29 16.82	+ 31.35	− 3.61	+ 0.01	3.48	„

February, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
11	f Tauri,	12 35 8.77	o Persei,	31 57 57.00	+104.64	− 3.79	+ 0.03	3.77	W.D
	ξ Persei,	35 29 56.38	47 Tauri,	9 0 13.26	+184.46	+ 3.22	+ 0.05	2.55	„
	κ^1 Tauri,	22 3 38.66	v^1 Tauri,	22 34 58.29	− 59.37	− 5.33	− 0.02	3.75	„
	90 Tauri,	12 18 20.88	P. IV, 185,	32 24 38.72	−189.09	− 6.56	− 0.05	4.10	„
	π^1 Orionis,	6 46 56.61	4 Aurigæ,	37 44 17.80	+158.26	− 2.41	+ 0.04	3.10	„
	μ Aurigæ,	38 21 57.88	γ Orionis,	6 15 25.37	− 25.57	− 3.58	− 0.01	2.46	„
	26 Aurigæ,	30 26 2.63	B. 823,	14 7 48.28	+ 74.23	+ 3.43	+ 0.03	3.15	„
	α Orionis,	7 23 18.31	θ Aurigæ,	37 12 29.74	+ 24.90	− 4.65	+ 0.01	4.29	„
	χ^4 Orionis,	20 8 32.21	5 Geminorum,	24 26 40.07	+ 46.69	− 8.76	+ 0.01	4.08	„
	9 Geminorum,	23 46 38.73	15 Geminorum,	20 51 13.75	− 44.81	+ 2.06	− 0.01	3.48	„
	49 Aurigæ,	28 6 15.22	γ Geminorum,	16 29 16.48	+ 22.00	+ 5.48	+ 0.01	3.34	„
	64 Aurigæ,	41 4 3.73	δ^2 Canis Minoris,	3 30 32.69	+ 60.00	− 4.50	+ 0.02	3.73	J.I.P.
	φ Geminorum,	27 1 56.41	3 Cancri,	17 35 25.01	− 30.68	+ 3.01	− 0.01	3 03	„
	B. 1158,	22 45 7.35	μ^2 Cancri,	21 52 49.03	− 45.93	− 0.24	− 0.01	2.01	„
	P. VIII, 67,	7 53 55.69	32 Lyncis,	36 47 7.21	−133.78	− 3.91	− 0.04	3.72	„
	ρ^1 Cancri,	28 38 40.60	o^2 Cancri,	15 58 30.62	− 22.54	− 0.27	− 0.01	2.79	„
	66 Cancri,	32 39 12.77	P. IX, 35,	11 55 49.93	+ 48.32	− 5.30	+ 0.01	4.38	„
	83 Cancri,	18 8 23.67	B. 1319,	26 21 31.92	+197.83	− 2.35	+ 0.05	3.33	„
	ψ Leonis,	14 29 24.88	P. IX, 221,	30 8 7.37	− 34.04	+ 0.60	− 0.01	2.68	„
	20 Leonis Minoris,	32 25 38.83	P. IX, 237,	12 7 24.30	+104.36	− 4.08	+ 0.03	1.87	„
	16 Sextantis,	6 40 22.05	G. 1619,	37 54 22.70	+ 56.55	− 5.96	+ 0.02	2.99	„
	30 Leonis Minoris,	34 19 2.13	45 Leonis,	10 17 3.43	+ 5.08	+ 5.75	0.00	3.61	„
	46 Leonis,	14 39 44.98	43 Leonis Minoris,	29 57 24.87	− 19.03	− 2.80	− 0.01	3.09	„
	60 Leonis,	20 43 42.07	64 Leonis,	23 52 35.22	+ 2.90	+ 2.20	0.00	3.74	„
	ν Ursæ Majoris,	33 39 6.60	ι Leonis,	11 5 33.37	−238.05	− 8.64	− 0.07	3.23	„
	* P. XI. 111,	28 20 44.56	95 Leonis,	16 12 57.67	+ 98.37	−13.53	+ 0.03	[5.99]	„
	* 1 Comæ,	22 39 47.10	2 Comæ,	22 1 40.02	−132.93	−12.28	− 0.04	[8.31]	„
	6 Comæ,	15 28 3.20	10 Comæ,	29 1 49.46	+197.90	− 1.55	+ 0.06	2.74	„
	6 Canum Venat.,	39 35 2.19	P. XII, 95,	4 57 45.72	+108.75	+ 1.25	+ 0.03	3.98	„
12	f Tauri,	12 35 8.74	o Persei,	31 57 56.98	+103.88	− 4.20	+ 0.03	2.57	W.D.
	ξ Persei,	35 29 56.37	47 Tauri,	9 0 13.23	+182.59	+ 3.61	+ 0.05	1.05	„
	κ^1 Tauri,	22 3 38.65	v^1 Tauri,	22 34 58.27	− 51.29	−12.49	− 0.02	4.66	„
	90 Tauri,	12 18 20.85	P. IV, 185,	32 24 38.73	−197.26	+ 0.33	− 0.05	2.81	„
	π^1 Orionis,	6 46 56.57	4 Aurigæ,	37 44 17.83	+159.71	− 3.70	+ 0.04	3.25	„
	μ Aurigæ,	38 21 57.91	γ Orionis,	6 15 25.32	− 29.59	+ 0.03	− 0.01	2.03	„
	26 Aurigæ,	30 26 2.65	B. 823,	14 7 48.26	+ 72.99	+ 4.59	+ 0.03	3.06	„
	α Orionis,	7 23 18.27	θ Aurigæ,	37 12 29.79	+ 19.31	+ 0.33	+ 0.01	3.68	„
	χ^4 Orionis,	20 8 32.20	5 Geminorum,	24 26 40.08	+ 30.90	+ 5.78	+ 0.01	2.83	„
	9 Geminorum,	23 46 38.74	15 Geminorum,	20 51 13.75	− 47.72	+ 5.13	− 0.01	3.65	„
	49 Aurigæ,	28 6 15.25	γ Geminorum,	16 29 16.45	+ 32.23	− 4.74	+ 0.01	3.35	„
	φ Geminorum,	27 1 56.43	3 Cancri,	17 35 24.99	− 27.51	+ 0.21	− 0.01	3.40	„
	P. VIII, 67,	7 53 55.60	32 Lyncis,	36 47 7.28	−135.17	− 2.41	− 0.04	3.82	„
	ρ^1 Cancri,	28 38 40.63	o^2 Cancri,	15 58 30.58	− 28.02	+ 5.93	− 0.01	3.51	„
15	ξ Persei,	35 29 56.40	47 Tauri,	9 0 13.22	+184.94	+ 2.95	+ 0.05	2.75	„
	κ^1 Tauri,	22 3 38.68	v^1 Tauri,	22 34 58.30	− 57.89	− 6.59	− 0.02	3.99	„
	90 Tauri,	12 18 20.85	P. IV, 185,	32 24 38.84	−192.99	− 3.16	− 0.05	3.64	„
	π^1 Orionis,	6 46 56.55	4 Aurigæ,	37 44 17.99	+157.86	− 2.50	+ 0.04	2.67	„

* The level readings indicate a slip of the clamp during the observation of the following star.

February, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
15	μ Aurigæ, ...	38 21 58.11	γ Orionis, ...	6 15 25.28	− 29.99	+ 0.03	− 0.01	1.73	W.D.
	26 Aurigæ, ...	30 26 2.81	B. 823, ...	14 7 48.28	+ 69.02	− 2.35	+ 0.03	[−7.75]	„
	α Orionis, ...	7 23 18.22	θ Aurigæ, ...	37 12 30.05	+ 15.89	+ 3.13	+ 0.01	3.17	„
	χ^4 Orionis, ...	20 8 32.29	5 Geminorum, ...	24 26 40.21	+ 40.22	− 3.16	+ 0.01	3.32	„
	9 Geminorum, ...	23 46 38.87	15 Geminorum, ...	20 51 13.85	− 42.24	− 0.84	− 0.01	3.27	„
	49 Aurigæ,.....	28 6 15.44	γ Geminorum, ...	16 29 16.51	+ 22.27	+ 4.71	+ 0.01	2.97	„
	25 Geminorum, ...	28 17 35.71	33 Geminorum, ...	16 19 12.97	− 11.44	− 1.05	0.00	2.85	„
	36 Geminorum, ...	21 53 0.85	44 Geminorum, ...	22 47 32.41	−117.01	− 6.44	− 0.03	3.15	„
	64 Aurigæ,.....	41 4 4.22	δ^2 Canis Minoris,.	3 30 32.44	+ 49.38	+ 4.47	+ 0.02	2.20	„
	φ Geminorum, ...	27 1 56.64	3 Cancri, ...	17 35 25.03	− 27.69	+ 0.66	− 0.01	3.79	„
	P. VIII, 67, ...	7 53 55.46	32 Lyncis, ...	36 47 7.64	−134.56	− 4.26	− 0.04	2.69	„
	ρ^1 Cancri, ...	28 38 40.85	o^2 Cancri, ...	15 58 30.56	− 22.45	− 1.05	− 0.01	2.20	„
	66 Cancri, ...	32 39 13.10	P. IX, 35, ...	11 55 49.75	+ 40.24	+ 1.85	+ 0.01	3.53	„
	ψ Leonis, ...	14 29 24.73	P. IX, 221, ...	30 8 7.57	− 29.26	− 5.21	− 0.01	1.67	„

March, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
7	30 Leonis Min.,...	34 19 4.79	45 Leonis, ...	10 17 2.63	+ 8.47	+ 0.54	0.00	2.72	W.D.
	46 Leonis, ...	14 39 43.82	43 Leonis Minoris,	29 57 26.85	− 23.54	− 0.93	− 0.01	0.85	„
	60 Leonis, ...	20 43 42.69	64 Leonis, ...	23 52 36.27	+ 2.54	+ 0.69	0.00	2.71	„
	ν Ursæ Majoris,...	33 39 8.95	ι Leonis,.....	11 5 32.50	−243.86	− 2.77	− 0.07	4.03	„
	P. XI, 111, ...	28 20 46.08	95 Leonis, ...	16 12 54.88	+ 81.22	+ 2.50	+ 0.03	4.23	„
8	26 Aurigæ,.....	30 26 2.98	B. 823, ...	14 7 47.86	+ 80.40	− 2.65	+ 0.03	3.20	„
	α Orionis, ...	7 23 17.58	θ Aurigæ, ...	37 12 30.76	+ 18.64	− 1.08	+ 0.01	1.74	„

April, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
1	B. 2060,.....	16 55 33.93	P. XVI, 40, ...	27 40 23.41	+ 21.30	− 6.08	+ 0.01	3.90	J.I.P.
	P. XVI, 127,.....	38 17 44.69	41 Herculis, ...	6 16 50.20	+ 58.64	− 1.70	+ 0.02	4.40	„
	53 Herculis, ...	31 51 55.08	60 Herculis, ...	12 52 35.73	−245.53	+ 2.20	− 0.07	2.00	„
	63 Herculis, ...	24 21 26.11	P. XVII, 109, ...	20 9 45.44	+170.30	−11.98	+ 0.04	4.14	„
	78 Herculis, ...	28 28 32.12	P. XVII, 203, ...	15 59 37.38	+250.61	− 2.92	+ 0.07	2.51	„
	μ Herculis,.....	27 46 28.25	93 Herculis, ...	16 45 5.20	+156.87	− 9.54	+ 0.04	4.09	„
	70 Ophiuchi, ...	2 31 8.67	G. 2533,.....	42 7 2.46	− 53.44	+ 0.21	− 0.02	2.32	„
19	P. VIII, 67, ...	7 53 55.11	32 Lyncis, ...	36 47 13.37	−137.59	− 4.50	− 0.04	2.11	W.D.
	ρ^1 Cancri, ...	28 38 45.50	o^2 Cancri, ...	15 58 32.30	− 24.00	− 2.20	− 0.04	2.66	„
	66 Cancri, ...	32 39 18.88	P. IX, 35, ...	11 55 50.59	+ 38.52	+ 0.06	+ 0.01	3.32	„
	20 Leonis Minoris,	32 25 46.17	P. IX, 237, ...	12 7 25.21	+ 99.95	− 3.01	+ 0.03	2.66	„
	16 Sextantis,.....	6 40 21.10	G. 1619,.....	37 54 31.90	+ 49.41	− 1.79	+ 0.02	4.14	„
	30 Leonis Minoris,	34 19 10.52	45 Leonis, ...	10 17 3.76	+ 5.96	− 1.40	0.00	1.70	„
	46 Leonis, ...	14 39 46.90	43 Leonis Minoris,	29 57 32.19	− 25.42	− 1.22	− 0.01	2.89	„
	60 Leonis, ...	20 43 46.32	64 Leonis, ...	23 52 40.62	+ 6.57	− 6.29	0.00	3.75	„
	ν Ursæ Majoris,...	33 39 15.41	ι Leonis,.....	11 5 34.08	−251.94	+ 0.96	− 0.07	3.69	„
	P. XI, 111, ...	28 20 51.65	95 Leonis, ...	16 12 57.85	+ 75.92	+ 2.44	+ 0.03	3.14	„
	1 Comæ,.....	22 39 52.18	2 Comæ,.....	22 1 44.88	−160.92	+ 5.57	− 0.04	3.14	„
	6 Comæ,.....	15 28 5.59	10 Comæ,.....	29 1 56.74	+190.94	− 0.42	+ 0.05	1.74	„
	6 Canum Venat, .	39 35 12.89	P. XII, 95,.....	4 57 44.11	+101.67	+ 3.16	+ 0.03	3.36	„
	P. XII, 122, ...	33 48 46.33	ρ Virginis, ...	10 47 54.34	− 9.99	+ 1.14	0.00	1.48	„
	P. XII, 180, ...	6 30 35.72	B. F. 1775,.....	38 4 25.01	+ 46.90	− 3.73	+ 0.01	3.54	„
	P. XII, 244, ...	32 19 51.27	P. XIII, 16, ...	12 5 55.80	+321.63	− 2.71	+ 0.09	2.54	„
21	ρ^1 Cancri, ...	28 38 45.50	o^2 Cancri, ...	15 58 32.28	− 24.87	+ 0.09	− 0.01	4.10	„
	66 Cancri, ...	32 39 18.89	P. IX, 35, ...	11 55 50.57	+ 40.61	− 1.52	+ 0.01	3.83	„
	20 Leonis Minoris,	32 25 46.25	P. IX, 237, ...	12 7 25.21	+ 94.53	+ 1.94	+ 0.03	2.23	„
	16 Sextantis,.....	6 40 21.06	G. 1619,.....	37 54 32.03	+ 53.47	− 6.26	+ 0 02	3.77	„
	30 Leonis Minoris,	34 19 10.66	45 Leonis, ...	10 17 3.76	+ 8.68	− 2.71	0.00	3.18	„
	46 Leonis, ...	14 39 46.93	43 Leonis Minoris,	29 57 32.33	− 23.63	− 3.52	− 0.01	2.47	„
	60 Leonis, ...	20 43 46.41	64 Leonis, ...	23 52 40.74	+ 0.39	− 0.78	0.00	3.19	„
	*ν Ursæ Majoris,...	33 39 15.60	ι Leonis,.....	11 5 34.11	−248.89	− 2.15	− 0.07	3.75	J.I.P.
	P. XI, 111, ...	28 20 51.84	95 Leonis, ...	16 12 57.95	+ 78.95	− 0.42	+ 0.03	3.45	„
	6 Comæ,.....	15 28 5.71	* 10 Comæ, ...	29 1 56.98	+204.37	−16.27	+ 0.05	[−0.51]	„
	6 Canum Venat.,.	39 35 13.20	P. XII, 95, ...	4 57 44.12	+109.57	− 3.43	+ 0.03	4.83	„
24	ρ^1 Cancri, ...	28 38 45.64	o^2 Cancri, ...	15 58 32.41	− 24.63	− 2.41	− 0.04	1.95	W.D.
	66 Cancri, ...	32 39 19.05	P. IX, 35, ...	11 55 50.68	+ 35.71	+ 2.86	+ 0.01	3.45	„
	20 Leonis Minoris,	32 25 46.49	P. IX, 237, ...	12 7 25.33	+ 96.35	+ 1.14	+ 0.03	3.43	„
	16 Sextantis,.....	6 40 21.14	G. 1619,.....	37 54 32.31	+ 57.70	−10.91	+ 0.02	3.54	„
	30 Leonis Minoris,	34 19 10.94	45 Leonis, ...	10 17 3.87	+ 5.81	− 0.99	0.00	2.22	„
	46 Leonis, ...	14 39 47.08	43 Leonis Minoris,	29 57 32.61	− 24.90	− 1.73	− 0.01	3.20	„
	60 Leonis, ...	20 43 46.63	64 Leonis, ...	23 52 41.00	+ 7.17	− 7.39	0.00	3.60	„
	ν Ursæ Majoris,...	33 39 15 97	ι Leonis,.....	11 5 34.24	−252.48	+ 1.05	− 0.07	3.60	„
	P. XI, 111, ...	28 20 52.17	95 Leonis, ...	16 12 58.15	+ 79.07	− 1.61	+ 0.03	2.65	„
	1 Comæ,.....	22 39 52.63	2 Comæ,.....	22 1 45.32	−158.29	+ 2.89	− 0.04	3.54	„
	6 Comæ,.....	15 28 5.91	10 Comæ,.....	29 1 57.36	+196.84	− 6.74	+ 0.05	1.78	„
	6 Canum Venat.,.	39 35 13.70	P. XII, 95,.....	4 57 44.17	+104.58	0.00	+ 0.03	3.55	„

* The level readings indicate a slip of the clamp during the observation of the following star.

April, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″		″	″	″	
24	P. XII, 122, ...	33 48 47.06	ρ Virginis, ...	10 47 54.56	− 13.37	+ 4.83	0.00	2.27	W.D.
	P. XII, 180, ...	6 30 35.84	B. F. 1775, ...	38 4 25.85	+ 48.78	− 5.57	+ 0.02	4.07	„
25	ρ^1 Cancri, ...	28 38 45.70	o^2 Cancri, ...	15 58 32.47	− 24.78	− 0.51	− 0.04	3.76	„
	83 Cancri, ...	18 8 26.37	B. 1319, ...	26 21 37.16	+186.46	+ 6.08	+ 0.05	4.35	„
	ψ Leonis, ...	14 29 26.68	P. IX, 221, ...	30 8 14.45	− 34.25	− 4.14	− 0.01	2.16	„

May, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
1	ψ Leonis, ...	14 29 27.13	P IX, 221, ...	30 8 15.08	− 37.52	− 1.08	− 0.01	2.49	W.D.
	20 Leonis Minoris,	32 25 47.24	P. IX, 237, ...	12 7 25.87	+100.61	− 2.89	+ 0.03	4.31	„
	59 Virginis, ...	9 57 27.52	P. XIII, 51, ...	34 38 11.16	+ 24.12	− 0.87	+ 0.01	2.60	„
	P. XIII, 136, ...	37 42 22.83	P. XIII, 194, ...	6 51 47.92	+ 71.08	− 4.26	+ 0.02	2.21	„
	η Bootis, ...	18 54 33.75	12 Bootis, ...	25 34 29.66	+215.93	+ 4.86	+ 0.06	2.57	„
	P. XIV, 45, ...	35 58 48.87	P. XIV, 75, ...	8 33 0.07	+144.52	− 4.47	+ 0.04	4.56	„
	π^1 Bootis, ...	16 51 16.77	ϵ^2 Bootis, ...	27 30 12.87	+446.93	− 0.12	+ 0.13	1.76	„
	δ Bootis, ...	33 41 38.83	δ Serpentis, ...	10 52 41.31	+ 61.06	+ 1.88	+ 0.02	3.03	„
	ζ Coronæ, ...	36 57 54 23	λ Serpentis, ...	7 40 15.25	− 54.41	+ 2.32	− 0.02	2.63	„
	ε Coronæ, ...	27 10 15.09	κ Herculis, ...	17 18 58.04	+214.81	+ 0.39	+ 0.06	1.82	„
2	6 Comæ, ...	15 28 6.94	10 Comæ, ...	29 1 58.84	+191.15	− 1.40	+ 0.05	2.69	„
	6 Canum Venat.,	39 35 15.49	P. XII, 95, ...	4 57 44.84	+104.43	− 1.85	+ 0.03	2.78	„
	P. XII, 122, ...	33 48 48.73	ρ Virginis, ...	10 47 55.48	− 7.59	− 3.04	0.00	1.47	„
	P. XII, 180, ...	6 30 36.60	B. F. 1775, ...	38 4 27.71	+ 48.35	− 7.36	+ 0.01	3.16	„
	P. XII, 244, ...	32 19 53.73	P. XIII, 16, ...	12 5 57.13	+316.06	+ 1.55	+ 0.09	3.13	„
	59 Virginis, ...	9 57 27.62	P. XIII, 51, ...	34 38 11.38	+ 26.11	− 3.58	+ 0.01	2.04	„
	P. XIII, 136, ...	37 42 23.07	P. XIII, 194, ...	6 51 48.02	+ 68.17	− 2.17	+ 0.02	1.57	„
	η Bootis, ...	18 54 33.92	12 Bootis, ...	25 34 29.87	+230.97	− 9.09	+ 0.06	3.83	„
	P. XIV, 45, ...	35 58 49.12	P. XIV, 75, ...	8 33 0.20	+145.21	− 6.71	+ 0.04	3.20	„
	78 Herculis, ...	28 28 37.16	P. XVII, 203, ...	15 59 41.37	+245.37	− 1.64	+ 0.07	3.07	J.I.P.
	μ Herculis, ...	27 46 32.99	93 Herculis, ...	16 45 9.16	+139.41	+ 2.71	+ 0.04	3.23	„
	70 Ophiuchi, ...	2 31 11.49	G. 2533, ...	42 7 7.43	− 61.76	+ 5.27	− 0.02	2.95	„
	P. XVII, 133, ...	11 19 52.88	β^1 Lyræ, ...	33 14 17.88	+ 69.69	− 0.69	+ 0.02	4.40	„
	11 Aquilæ, ...	13 28 53.97	19 Lyræ, ...	31 6 25.09	+ 35.37	− 1.40	+ 0.01	3.51	„
	2 Sagittæ, ...	16 44 0.66	β Cygni, ...	27 44 20.62	+247.77	− 5.69	+ 0.07	2.79	„
12	δ Bootis, ...	33 41 41.40	δ Serpentis, ...	10 52 42.78	+ 64.85	− 2.95	+ 0.02	4.01	„
	ζ Coronæ, ...	36 57 56.99	λ Serpentis, ...	7 40 16.56	− 52.59	− 0.75	− 0.02	3.41	„
	P. XV, 185, ...	28 28 6.29	γ Serpentis, ...	16 59 35.06	+268.40	− 3.91	+ 0.08	5.25	„
	ε Coronæ, ...	27 10 17.46	κ Herculis, ...	17 18 59.94	+220.47	− 6.83	+ 0.06	2.40	„
	B. 2060, ...	16 55 39.89	P. XVI, 40, ...	27 40 31.13	+ 9.99	− 1.64	0.00	3.86	„
13	P. XII, 180, ...	6 30 37.41	B. F. 1775, ...	38 4 29.81	+ 45.96	− 5.78	+ 0.01	3.80	„
	P. XII, 244, ...	32 19 55.68	P. XIII, 16, ...	12 5 58.29	+321.45	− 4.29	+ 0.09	4.24	„
	59 Virginis, ...	9 57 28.70	P. XIII, 51, ...	34 38 13.55	+ 23.97	− 2.00	+ 0.01	3.10	„
	P. XIII, 136, ...	37 42 25.43	P. XIII, 194, ...	6 51 48.99	+ 67.57	− 1.88	+ 0.02	2.92	„
	η Bootis, ...	18 54 35.56	12 Bootis, ...	25 34 31.90	+237.20	−16.75	+ 0.06	4.24	„
	P. XIV, 45, ...	35 58 51.63	P. XIV, 75, ...	8 33 1.37	+137.04	+ 0.66	+ 0.04	4.24	„
	π^1 Bootis, ...	16 51 18.63	ϵ^2 Bootis, ...	27 30 15.33	+443.60	+ 2.00	+ 0.13	2.71	„
	δ Bootis, ...	33 41 41.68	δ Serpentis, ...	10 52 42.98	+ 63.51	− 2.00	+ 0.02	3.86	„
	ζ Coronæ, ...	36 57 57.30	λ Serpentis, ...	7 40 16.74	− 49.14	− 3.97	− 0.02	3.89	„
	ε Coronæ, ...	27 10 17.74	κ Herculis, ...	17 19 0.18	+222.53	− 8.19	+ 0.06	3.36	„
	B. 2060, ...	16 55 40.12	P. XVI, 40, ...	27 40 31.42	+ 12.26	− 4.92	0.00	3.11	„
	P. XVI, 127, ...	38 17 54.01	41 Herculis, ...	6 16 54.53	+ 44.87	+ 3.67	+ 0.02	2.83	„
	53 Herculis, ...	31 52 3.39	60 Herculis, ...	12 52 41.26	−249.18	+ 0.30	− 0.07	3.37	„
	63 Herculis, ...	24 21 33.29	P. XVII, 109, ...	20 9 51.95	+149.88	+ 0.69	+ 0 04	3.23	„
	78 Herculis, ...	28 28 39.57	P. XVII, 203, ...	15 59 43.30	+245.16	− 3.91	+ 0.07	2.76	„
14	P. XII, 180, ...	6 30 37.53	B. F. 1775, ...	38 4 30.03	+ 38.97	− 0.42	+ 0.01	2.34	„
	P. XII, 244, ...	32 19 55.88	P. XIII, 16, ...	12 5 58.43	+312.67	+ 3.10	+ 0.09	3.01	„
	59 Virginis, ...	9 57 28.83	P. XIII, 51, ...	34 38 13.77	+ 23.91	− 2.44	+ 0.01	2.78	„
	P. XIII, 136, ...	37 42 25.68	P. XIII, 194, ...	6 51 49.12	+ 64.66	+ 0.03	+ 0.02	2.11	„
	η Bootis, ...	18 54 35.75	12 Bootis, ...	25 34 32.13	+218.66	− 0.21	+ 0.06	2.45	„
	P. XIV, 45, ...	35 58 51.90	P. XIV, 75, ...	8 33 1.52	+137.56	− 0.39	+ 0.04	3.92	„
	π^1 Bootis, ...	16 51 18.84	ϵ^2 Bootis, ...	27 30 15.59	+445.42	− 0.93	+ 0.13	1.84	„
	δ Bootis, ...	33 41 41.97	δ Serpentis, ...	10 52 43.17	+ 62.00	− 0.27	+ 0.02	4.32	„
	ζ Coronæ, ...	36 57 57.61	λ Serpentis, ...	7 40 16.93	− 58.28	+ 3.88	− 0.02	2.85	„
	P. XV, 185, ...	28 28 6.86	γ Serpentis, ...	15 59 35.51	+260.75	+ 1 52	+ 0.08	3.53	„
	ε Coronæ, ...	27 10 18.01	κ Herculis, ...	17 19 0.41	+212.94	+ 1.08	+ 0.06	3.29	„
	B. 2060, ...	16 55 40.36	P. XVI, 40, ...	27 40 31.70	+ 5.39	+ 2.41	0.00	3.83	„
	P. XVI, 127, ...	38 17 54.33	41 Herculis, ...	6 16 54.72	+ 45.87	+ 0.90	+ 0.02	1.32	„
	53 Herculis, ...	31 52 3.70	60 Herculis, ...	12 52 41.50	−247.67	− 1.46	− 0.07	3.40	„
	*63 Herculis, ...	24 21 33.57	P. XVII, 109, ...	20 9 52.22	+166.25	−12.82	+ 0.04	[6.36]	„
	78 Herculis, ...	28 28 39.87	P. XVII, 203, ...	15 59 43.55	+238.41	+ 2.65	+ 0.07	2.84	„
	μ Herculis, ...	27 46 35.62	93 Herculis, ...	16 45 11.37	+138.41	+ 2.06	+ 0.04	4.01	„
	70 Ophiuchi, ...	2 31 13.01	G. 2533, ...	42 7 10.39	− 56.74	− 1.91	− 0.02	3.03	„
15	P. XII, 244, ...	32 19 56.08	P. XIII, 16, ...	12 5 58.57	+311.43	+ 3.58	+ 0.09	2.43	„
	59 Virginis, ...	9 57 28.96	P. XIII, 51, ...	34 38 13.99	+ 24.00	− 3.19	+ 0.01	2.29	„
	P. XIII, 136, ...	37 42 25.92	P. XIII, 194, ...	6 51 49.26	+ 59.49	+ 5.10	+ 0.02	2.20	„

* Insufficient illumination of field.

May, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
15	η Bootis,	18 54 35.94	12 Bootis,	25 24 32.35	+222.77	− 4.02	+ 0.06	2.96	J.I.P.
	P. XIV, 45,	35 58 52.18	P. XIV, 75,	8 33 1.68	+136.02	+ 1.40	+ 0.04	4.39	„
	P. XIV, 178,	15 33 35.38	P. XIV, 193,	29 2 18.13	+ 19.43	+ 4.17	+ 0.01	2.03	„
	δ Bootis,	33 41 42.25	δ Serpentis,	10 52 43.37	+ 63.97	− 2.26	+ 0.02	4.54	„
	ζ Coronæ,	36 57 57.92	λ Serpentis,	7 40 17.11	− 54.01	− 0.78	− 0.02	2.71	„
	ε Coronæ,	27 10 18.29	κ Herculis,	17 19 0.65	+211.60	+ 1.58	+ 0.06	2.71	„
	B. 2060,	16 55 40.59	P. XVI, 40,	27 40 31.99	− 0.54	+ 6.50	0.00	2.25	„
	P. XVI, 127,	38 17 54.65	41 Herculis,	6 16 54.91	+ 41.40	+ 5.54	+ 0.02	1.74	„
	53 Herculis,	31 52 4.01	60 Herculis,	12 52 41.73	−251.00	+ 1.02	− 0.07	2.82	„
	63 Herculis,	24 21 33.85	P. XVII, 109,	20 9 52.49	+151.84	− 2.09	+ 0.04	2.96	„
	78 Herculis,	28 28 40.16	P. XVII, 203,	15 59 43.79	+238.96	+ 1.37	+ 0.07	2.38	„
	μ Herculis,	27 46 35.92	93 Herculis,	16 45 11.62	+141.10	− 1.79	+ 0.04	3.12	„
	70 Ophiuchi,	2 31 13.21	G. 2533,	42 7 10.71	− 48.08	−10.85	− 0.02	0.91	„
17	η Bootis,	18 54 36.23	12 Bootis,	25 34 32.72	+221.56	− 2.44	+ 0.06	3.66	„
22	P. XIII, 136,	37 42 27.14	P. XIII, 194,	6 51 49.74	+ 57.74	+ 6.89	+ 0.02	3.09	„
	η Bootis,	18 54 36.80	12 Bootis,	25 34 33.46	+217.87	+ 0.51	+ 0.06	3.57	„
	P. XIV, 45,	35 58 53.56	P. XIV, 75,	8 33 2.32	+140.98	− 4.95	+ 0.04	4.01	„
	P. XIV, 178,	15 33 36.32	P. XIV, 193,	29 2 19.48	+ 13.50	+ 0.57	0.00	1.97	„
	δ Bootis,	33 41 43.81	δ Serpentis,	10 52 44.26	+ 61.79	− 2.20	+ 0.02	3.64	„
	ζ Coronæ,	36 57 59.62	λ Serpentis,	7 40 17.93	− 54.23	− 1.40	− 0.02	3.13	„
	P. XV, 185,	28 28 8.65	γ Serpentis,	15 59 36.86	+260.44	+ 0.06	+ 0.07	3.32	„
	ε Coronæ,	27 10 19.79	κ Herculis,	17 19 1.87	+211.18	+ 0.78	+ 0.06	2.85	„
	B. 2060,	16 55 41.81	P. XVI, 40,	27 40 33.54	+ 11.04	− 4.56	0.00	4.16	„
	P. XVI, 127,	38 17 56.51	41 Herculis,	6 16 55.83	+ 45.66	− 0.45	+ 0.02	1.40	„
	53 Herculis,	31 52 5.73	60 Herculis,	12 52 42.92	−250.73	− 0.60	− 0.07	2.92	„
	63 Herculis,	24 21 35.41	P. XVII, 109,	20 9 53.96	+155.26	− 5.69	+ 0.04	4.30	„
	78 Herculis,	28 28 41.87	P. XVII, 203,	15 59 45.17	+243.56	− 4.38	+ 0.07	2.77	„
	μ Herculis,	27 46 37.89	93 Herculis,	16 45 13.05	+135.20	+ 2.77	+ 0.04	3.48	„
	70 Ophiuchi,	2 31 14.20	G. 2533,	42 7 12.68	− 58.67	− 1.94	− 0.02	2.81	„
	P. XVIII, 133,	11 19 56.44	β^1 Lyræ,	33 14 22.56	+ 69.23	− 4.92	+ 0.02	3.83	„
27	ν Ursæ Majoris,	33 39 19.84	ι Leonis,	11 5 36.72	−248.37	− 6.89	− 0.07	2.95	„
	P. XI, 111,	28 20 56.14	95 Leonis,	16 13 1.46	+ 67.84	+ 5.66	+ 0.02	2.32	„
	1 Comæ,	22 39 56.63	2 Comæ,	22 1 49.30	−156.20	− 3.04	− 0.04	3.68	„
	6 Comæ,	15 28 9.39	10 Comæ,	29 2 2.25	+187.21	− 1.58	+ 0.05	1.50	„
	6 Canum Venat.,	39 35 19.54	P. XII, 95,	4 57 46.50	+106.94	− 4.80	+ 0.03	5.19	„
	P. XII, 122,	33 48 52.64	ρ Virginis,	10 47 57.76	− 12.56	0.00	0.00	2.64	„
	P. XII, 180,	6 30 38.49	B. F. 1775,	38 4 32.14	+ 38.73	− 0.99	+ 0.01	3.07	„
	2 Sagittæ,	16 44 5.58	β Cygni,	27 44 26.05	+235.69	+ 2.68	+ 0.07	4.26	„
	α Sagittæ,	17 46 29.94	B. 2510,	26 53 11.41	− 92.69	− 5.04	− 0.03	2.92	„
	13 Sagittæ,	17 13 59.40	15 Vulpeculæ,	27 27 59.49	−166.46	+ 0.27	− 0.05	3.20	„
	17 Vulpeculæ,	23 18 55.79	18 Sagittæ,	21 16 51.25	+ 27.42	− 6.20	+ 0.01	4.75	„
	η Delphini,	12 40 24.35	49 Cygni,	31 56 19.06	− 5.17	− 4.38	0.00	2.16	„
	P. XX, 393,	3 47 54.67	ν Cygni,	40 46 4.43	+ 76.59	− 3.25	+ 0.02	2.91	„
	P. XX, 452,	39 6 1.01	4 Equulei,	5 33 6.01	− 86.18	+ 8.25	− 0.03	5.55	„
	τ Cygni,	37 36 12.52	9 Equulei,	6 55 5.30	+154.02	+ 0.12	+ 0.04	3.09	„
	P. XXI, 120,	25 43 45.14	5 Pegasi,	18 51 16.19	+ 38.64	+ 2.06	+ 0.01	1.38	„
28	ν Ursæ Majoris,	33 39 19.92	ι Leonis,	11 5 36.81	−249.34	− 6.65	− 0.07	2.30	„
	P. XI, 111,	28 20 56.24	95 Leonis,	16 13 1.57	+ 71.23	+ 2.56	+ 0.02	2.71	„
	6 Comæ,	15 28 9.51	10 Comæ,	29 2 2.39	+178.38	+ 6.02	+ 0.05	0.40	„
	6 Canum Venat.,	39 35 19.70	P. XII, 95,	4 57 46.60	+ 97.40	+ 3.04	+ 0.03	3.62	„
	P. XII, 122,	33 48 52.80	ρ Virginis,	10 47 57.88	− 13.01	+ 0.24	0.00	2.57	„
	P. XII, 180,	6 30 38.63	B. F. 1775,	38 4 32.33	+ 37.55	+ 0.36	+ 0.01	3.40	„
	2 Sagittæ,	16 44 5.84	β Cygni,	27 44 26.34	+236.54	− 0.39	+ 0.07	2.31	„
	α Sagittæ,	17 46 30.19	B. 2510,	26 53 11.70	− 98.52	+ 0.69	+ 0.03	3.09	„
	χ Cygni,	33 29 6.67	φ Aquilæ,	11 8 57.53	− 48.96	− 0.42	− 0.02	2.70	„
	13 Sagittæ,	17 13 59.66	15 Vulpeculæ,	27 27 59.78	−164.85	− 2.32	− 0.04	2.51	„
	17 Vulpeculæ,	23 18 56.06	18 Sagittæ,	21 16 51.52	+ 21.00	− 1.67	+ 0.01	3.13	„
	η Delphini,	12 40 24.59	49 Cygni,	31 56 19.32	− 5.81	− 3.07	0.00	3.07	„
	P. XX, 393,	3 47 54.89	ν Cygni,	40 46 4.69	+ 76.16	− 2.23	+ 0.02	3.74	„
	P. XX, 452,	39 6 1.27	4 Equulei,	5 33 6.23	− 88.18	+ 7.42	− 0.03	2.96	„
	τ Cygni,	37 36 12.76	9 Equulei,	6 55 5.52	+152.96	− 1.73	+ 0.04	0.41	„
	P. XXI, 120,	25 43 45.37	5 Pegasi,	18 51 16.42	+ 47.39	− 5.60	+ 0.01	2.70	„
29	ν Ursæ Majoris,	33 39 20.00	ι Leonis,	11 5 36.88	−254.21	− 1.22	− 0.07	2.94	„
	P. XI, 111,	28 20 56.33	95 Leonis,	16 13 1.67	+ 73.95	− 0.45	+ 0.02	2.52	„
	1 Comæ,	22 39 56.86	2 Comæ,	22 1 49.53	−159.07	− 1.02	− 0.04	3.04	„
	6 Comæ,	15 28 9.61	10 Comæ,	29 2 2.52	+185.82	− 1.14	+ 0.05	0.80	„
	6 Canum Venat.,	39 35 19.84	P. XII, 95,	4 57 46.68	+ 97.65	+ 2.59	+ 0.03	3.53	„
	P. XII, 122,	33 48 52.95	ρ Virginis,	10 47 57.99	− 12.44	− 1.40	0.00	1.63	„

June, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
1	δ Bootis,	33 41 46.39	δ Serpentis,	10 52 45.98	+ 60.00	− 1.17	+ 0.02	5.04	J.I.P.
3	ζ Coronæ,	36 58 2.87	λ Serpentis,	7 40 19.75	− 58.73	+ 1.25	− 0.02	3.81	„
9	P. XII, 122,	33 48 54.14	ρ Virginis,	10 47 58.89	− 15.13	+ 0.51	0.00	1.90	„

June, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
9	P. XII, 244, ...	32 19 59.62	P. XIII, 16, ...	12 6 1.10	+320.54	− 7.39	+ 0.09	3.60	J.I.P.
10	δ Bootis,.....	33 41 48.39	δ Serpentis, ...	10 52 47.28	+ 57.89	− 1.67	+ 0.02	4.07	"
	ζ Coronæ, ...	36 58 4.60	λ Serpentis, ...	7 40 20.71	− 56.25	− 2.35	− 0.02	4.04	"
	P. XV, 185, ...	28 28 13.17	γ Serpentis, ...	15 59 40.39	+262.41	− 5.21	+ 0.08	4.06	"
	ε Coronæ, ...	27 10 24.29	κ Herculis,.....	17 19 5.65	+208.73	− 0.27	+ 0.06	3.49	"
	B. 2060,.....	16 55 45.58	P. XVI, 40, ...	27 40 38.20	+ 7.56	− 5.66	0.00	3.79	"
	P. XVI, 127,.....	38 18 1.96	41 Herculis, ...	6 16 58.78	+ 41.00	+ 1.05	+ 0.01	2.43	"
	53 Herculis, ...	31 52 10.90	60 Herculis, ...	12 52 46.63	−252.67	− 3.25	− 0.07	2.78	"
	μ Herculis,.....	27 46 42.59	93 Herculis, ...	16 45 17.28	+143.04	− 7.27	+ 0.04	5.74	"
	70 Ophiuchi, ...	2 31 17.12	G. 2533,.....	42 7 18.51	− 67.39	+ 2.32	− 0.02	2.72	"
17	δ Bootis,.....	33 41 49.76	δ Serpentis, ...	10 52 48.21	+ 54.95	− 0.06	+ 0.02	3.90	"
	ζ Coronæ, ...	36 58 6.16	λ Serpentis, ...	7 40 21.58	− 59.37	− 1.46	− 0.02	3.02	"
	P. XV, 185, ...	28 28 14.61	γ Serpentis, ...	15 59 41.52	+257.51	− 1.64	+ 0.08	4.01	"
	ε Coronæ, ...	27 10 25.74	κ Herculis,.....	17 19 6.89	+208.55	− 1.70	+ 0.06	3.28	"
	B. 2060,.....	16 55 46.82	P. XVI, 40, ...	27 40 39.75	+ 1.00	− 0.93	0.00	3.35	"
	P. XVI, 127,.....	38 18 3.83	41 Herculis, ...	6 16 59.80	+ 41.27	− 0.54	+ 0.01	2.56	"
	53 Herculis, ...	31 52 12.70	60 Herculis, ...	12 52 47.93	−256.45	− 0.93	− 0.07	2.86	"
	63 Herculis, ...	24 21 41.81	P. XVII, 109, ...	20 10 0.00	+142.97	− 0.99	+ 0.04	2.93	"
	78 Herculis, ...	28 28 48.80	P. XVII, 203, ..	15 59 50.83	+232.66	+ 0.21	+ 0.07	2.76	"
	μ Herculis,.....	27 46 44.48	93 Herculis, ...	16 45 18.90	+142.43	− 9.66	+ 0.03	4.49	"
	70 Ophiuchi, ...	2 31 18.24	G. 2533,.....	42 7 20.80	− 70.26	+ 2.95	− 0.02	2.19	"
	P. XVIII, 133,...	11 20 1.86	β^1 Lyræ,.....	33 14 30.06	+ 54.86	+ 2.65	+ 0.02	3.49	"
	11 Aquilæ,.....	13 29 3.41	19 Lyræ, ...	31 6 36.84	+ 25.15	− 3.01	+ 0.01	2.28	"

July, 1897.

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8	P. XVI, 127,.....	38 18 9 09	41 Herculis, ...	6 17 2.82	+ 33.65	+ 4.17	+ 0.01	3.78	J.I.P.
	53 Herculis, ...	31 52 17.86	60 Herculis, ...	12 52 51.74	−262.56	+ 1.37	− 0.08	3.53	"
	63 Herculis, ...	24 21 46.62	P. XVII, 109,....	20 10 4.62	+139.01	− 0.57	+ 0.04	4.10	"
	78 Herculis, ...	28 28 54.12	P. XVII, 203,....	15 59 55.19	+231.76	− 3.79	+ 0.07	2.70	"
	μ Herculis,.....	27 46 49.84	93 Herculis, ...	16 45 23.47	+129.12	− 1.64	+ 0.03	4.16	"
13	53 Herculis, ...	31 52 18.99	60 Herculis, ...	12 52 52.60	−259.05	− 3.04	− 0.07	3.63	"
	*63 Herculis,.....	24 21 47.72	P. XVII, 109,....	20 10 5.69	+151.60	−11.20	+ 0.04	[7.14]	"
	78 Herculis, ...	28 28 55.36	P. XVII, 203, ...	15 59 56.24	+234.39	− 7.81	+ 0.07	2.45	"
	μ Herculis,.....	27 46 51.11	93 Herculis, ...	16 45 24.58	+128.63	− 3.25	+ 0.03	3.26	"
	P. XVIII, 133,...	11 20 7.22	β^1 Lyræ,.....	33 14 37.86	+ 50.50	+ 1.28	+ 0.02	4.34	"
	11 Aquilæ, ...	13 29 9.22	19 Lyræ, ...	31 6 44.62	+ 19.00	− 2.92	+ 0.01	3.01	"
	2 Sagittæ, ...	16 44 17.00	β Cygni,.....	27 44 39.40	+224.68	+ 0.75	+ 0.06	3.69	"
	α Sagittæ, ...	17 46 41.64	B. 2510,.....	26 53 24.65	−105.39	− 4.47	− 0.03	3.25	"
	χ Cygni,.....	33 29 20.48	φ Aquilæ, ...	11 9 7.86	− 60.79	+ 0.39	− 0.02	3.75	"
	13 Sagittæ, ...	17 14 11.10	15 Vulpeculæ, ...	27 28 12.82	−182.62	+ 2.77	− 0.05	2.06	"
	17 Vulpeculæ, ...	23 19 8.49	18 Sagittæ, ...	21 17 3.64	+ 6.20	+ 1.05	0.00	3.31	"
	η Delphini,.....	12 40 35.37	49 Cygni, ...	31 56 32.67	− 15.83	− 5.45	− 0.01	2.73	"
	P. XX, 393, ...	3 48 4.30	ν Cygni,.....	40 46 18.58	+ 64.21	− 2.06	+ 0.02	3.61	"
	P. XX, 452, ...	39 6 14.96	4 Equulei, ...	5 33 15.98	− 98.89	+ 5.96	− 0.03	2.51	"
	τ Cygni,.....	37 36 26.20	9 Equulei, ...	6 55 15.55	+142.85	0.00	+ 0.04	3.77	"
	P. XXI, 120,.....	25 43 57.63	5 Pegasi, ...	18 51 27.85	+ 32.29	− 3.31	+ 0.01	1.73	"
	κ Pegasi, ...	25 10 25.83	P. XXI, 312,.....	19 20 45.76	+168.30	−10.31	+ 0.04	3.81	"
	P. XXII, 36,.....	39 12 19.46	30 Pegasi, ...	5 16 32.43	+221.68	+ 5.13	+ 0.07	2.82	"
14	63 Herculis, ...	24 21 47.86	P. XVII, 109, ...	20 10 5.83	+141.37	− 4.53	+ 0.04	3.73	"
	78 Herculis, ...	28 28 55.53	P. XVII, 203, ...	15 59 56.37	+226.82	+ 0.45	+ 0.06	3.28	"
	μ Herculis,..... ...	27 46 51.29	93 Herculis, ...	16 45 24.73	+125.31	− 0.30	+ 0.03	3.05	"
	70 Ophiuchi, ...	2 31 22.19	G. 2533,.....	42 7 29.22	− 78.04	+ 4.95	− 0.02	2.59	"
	P. XVIII, 133,...	11 20 7.37	β^1 Lyræ,.....	33 14 38.12	+ 53.53	− 2.95	+ 0.02	3.35	"
	β^1 Lyræ,.....	33 14 38.12	ω Aquilæ, ...	11 24 38.32	− 81.91	− 3.31	− 0.03	2.97	"
	2 Sagittæ, ...	16 44 17.20	β Cygni,.....	27 44 39.64	+226.31	− 2.18	+ 0.06	2.61	"
	α Sagittæ, ...	17 46 41.85	B. 2510,.....	26 53 24.90	−107.03	− 3.31	− 0.03	3.00	"
	χ Cygni,.....	33 29 20.75	φ Aquilæ, ...	11 9 8.05	− 56.61	− 4.65	− 0.02	3.12	"
	13 Sagittæ, ...	17 14 11.32	15 Vulpeculæ, ...	27 28 13.08	−184.64	+ 3.88	− 0.05	1.39	"
	17 Vulpeculæ, ...	23 19 8.74	18 Sagittæ,.....	21 17 3.88	+ 15.01	− 8.08	0.00	3.24	"
	η Delphini,.....	12 40 35.59	49 Cygni, ...	31 56 32.97	− 27.35	+ 5.24	− 0.01	2.16	"
	P. XX, 393, ...	3 48 4.48	ν Cygni,.....	40 46 18.90	+ 59.28	+ 2.95	+ 0.02	3.94	"
	τ Cygni,.....	37 36 26.53	9 Equulei, ...	6 55 15.75	+143.61	− 1.67	+ 0.04	3.12	"
	P. XXI, 120,.....	25 43 57.90	5 Pegasi, ...	18 51 28.10	+ 34.98	− 6.14	+ 0.01	1.85	"
	κ Pegasi, ...	25 10 26.11	P. XXI, 312,.....	19 20 46.02	+159.07	− 2.26	+ 0.04	2.92	"
	P. XXII, 36,.....	39 12 19.78	30 Pegasi, ...	5 16 32.64	+230.52	− 3.99	+ 0.07	2.81	"
	34 Pegasi, ...	3 52 20.48	G. 3849,.....	40 46 44.89	− 69.29	−10.82	− 0.03	2.54	"
15	53 Herculis, ...	31 52 19.29	60 Herculis, ...	12 52 52.81	−259.93	− 3.13	− 0.08	2.91	"
	63 Herculis, ...	24 21 48.00	P. XVII, 109,....	20 10 5.97	+148.03	−11.95	+ 0.04	3.08	"
	78 Herculis, ...	28 28 55.71	P. XVII, 203,....	15 59 56.51	+231.45	− 5.45	+ 0.06	2.17	"
	μ Herculis,.....	27 46 51.47	93 Herculis, ...	16 45 24.88	+131.84	− 7.30	+ 0.03	2.75	"
	70 Ophiuchi, ...	2 31 22.26	G. 2533,.....	42 7 29.44	− 74.07	+ 0.57	− 0.02	2.33	"
	P. XVIII, 133,...	11 20 7.52	β^1 Lyræ,.....	33 14 38.37	+ 51.17	− 1.82	+ 0.02	2.31	"
	β^1 Lyræ,.....	33 14 38.37	ω Aquilæ, ...	11 24 38.49	− 78.40	− 7.01	− 0.02	3.00	"
	2 Sagittæ, ...	16 44 17.39	β Cygni,.....	27 44 39.89	+228.03	− 3.73	+ 0.06	3.00	"

* The level readings indicate a slip of the clamp during the observation of the following star.

July, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
15	α Sagittæ, ...	17 46 42.05	B. 2510,.....	26 53 25.15	−118.16	+ 7.10	− 0.03	2.51	J.I.P.
	χ Cygni,.....	33 29 21.02	φ Aquilæ, ...	11 9 8.23	− 61.18	+ 1.34	− 0.02	4.76	„
	13 Sagittæ, ...	17 14 11.53	15 Vulpeculæ, ...	27 28 13.33	−179.68	+ 0.66	− 0.05	3.36	„
	17 Vulpeculæ, ...	23 19 8.98	18 Sagittæ, ...	21 17 4.12	+ 7.23	− 1.64	0.00	2.14	„
	η Delphini,.....	12 40 35.81	49 Cygni, ...	31 56 33.28	− 23.97	+ 1.88	− 0.01	2.44	„
	P. XX, 393, ...	3 48 4.66	ν Cygni,.....	40 46 19.22	+ 60.31	+ 0.78	+ 0.02	3.05	„
	P. XX, 452, ...	39 6 15.60	4 Equulei, ...	5 33 16.36	− 93.23	+ 0.78	− 0.03	3.50	„
	τ Cygni,.....	37 36 26.86	9 Equulei, ...	6 55 15.95	+143.91	− 2.06	+ 0.04	3.30	„
	P. XXI, 120,.....	25 43 58.17	5 Pegasi, ...	18 51 28.36	+ 25.66	+ 2.20	+ 0.01	1.14	„
	κ Pegasi, ...	25 10 26.39	P. XXI, 312,.....	19 20 46.28	+163.67	− 8.34	+ 0.04	1.70	„
	P. XXII, 36,.....	39 12 20.10	30 Pegasi, ...	5 16 32.86	+224.77	+ 0.18	+ 0.07	1.50	„
	34 Pegasi, ...	3 52 20.68	G. 3849,.....	40 46 45.18	− 79.01	− 1.19	− 0.03	2.70	„
16	53 Herculis, ...	31 52 19.46	60 Herculis, ...	12 52 52.92	−261.14	− 1.88	− 0.08	3.09	„
	63 Herculis, ...	24 21 48.16	P. XVII, 109, ...	20 10 6.12	+138.74	− 3.43	+ 0.04	2.49	„
	78 Herculis, ...	28 28 55.89	P. XVII, 203, ...	15 59 56.65	+237.36	−10.31	+ 0.06	3.38	„
	μ Herculis,.....	27 46 51.66	93 Herculis, ...	16 45 25.04	+127.57	− 2.06	+ 0.03	3.89	„
	70 Ophiuchi, ...	2 31 22.35	G. 2533,...	42 7 29.69	− 71.38	− 1.61	− 0.02	3.01	„
	P. XVIII, 133,...	11 20 7.67	β¹ Lyræ,.....	33 14 38.61	+ 46.05	+ 3.73	+ 0.02	2.94	„
	β¹ Lyræ,.....	33 14 38.61	ω Aquilæ, ...	11 24 38.65	− 85.88	+ 0.81	− 0.03	3.53	„
	2 Sagittæ, ...	16 44 17.57	β Cygni,.....	27 44 40.12	+229.42	− 5.69	+ 0.06	2.64	„
	χ Cygni,.....	33 29 21.28	φ Aquilæ, ...	11 9 8.39	− 62.70	+ 1.76	− 0.02	3.87	„
	17 Vulpeculæ, ...	23 19 9.22	18 Sagittæ, ...	21 17 4.35	+ 4.27	+ 2.74	0.00	3.80	„
	η Delphini,.....	12 40 35.98	49 Cygni, ...	31 56 33.53	− 19.12	− 1.64	− 0.01	3.98	„
17	53 Herculis, ...	31 52 19.63	60 Herculis, ...	12 52 53.04	−266.34	+ 4.05	− 0.08	3.97	„
	63 Herculis, ...	24 21 48.32	P. XVII, 109, ...	20 10 6.28	+131.99	+ 3.40	+ 0.04	2.73	„
	78 Herculis, ...	28 28 56.07	P. XVII, 203, ..	15 59 56.80	+223.89	+ 1.88	+ 0.06	2.26	„
	μ Herculis,.....	27 46 51.84	93 Herculis, ...	16 45 25.19	+122.04	+ 2.56	+ 0.03	3.15	„
	70 Ophiuchi, ...	2 31 22.44	G. 2533,.....	42 7 29.94	− 69.35	− 4.29	− 0.02	2.53	„
	P. XVIII, 133,...	11 20 7.81	β¹ Lyræ,.....	33 14 38.84	+ 52.14	− 1.76	+ 0.02	3.73	„
	β¹ Lyræ,.....	33 14 38.84	ω Aquilæ, ...	11 24 38.80	− 88.27	+ 2.95	− 0.03	3.47	„
	2 Sagittæ, ...	16 44 17.75	β Cygni,.....	27 44 40.35	+224.25	− 0.99	+ 0.06	2.37	„
	α Sagittæ, ...	17 46 42.43	B. 2510,.....	26 53 25.61	−113.38	+ 1.28	− 0.03	1.89	„
	χ Cygni,.....	33 29 21.54	φ Aquilæ, ...	11 9 8.55	− 67.15	+ 6.05	− 0.02	3.93	„
19	α Sagittæ, ...	17 46 42.91	B. 2510,.....	26 53 26.17	−110.33	− 2.23	− 0.03	1.95	„
20	11 Aquilæ,.....	13 29 10.44	19 Lyræ, ...	31 6 46.39	+ 14.83	− 0.75	0.00	2.49	„
	2 Sagittæ, ...	16 44 18.39	β Cygni,.....	27 44 40.13	+223.92	− 1.19	+ 0.06	2.05	„
	α Sagittæ, ...	17 46 43.09	B. 2510,.....	26 53 26.39	−113.38	+ 0.81	− 0.03	2.14	„
	χ Cygni,.....	33 29 22.38	φ Aquilæ, ...	11 9 9.12	− 63.48	+ 1.43	− 0.02	3.68	„
	*13 Sagittæ, ...	17 14 12.58	15 Vulpeculæ, ...	27 28 14.60	−177.20	− 5.39	− 0.05	[0.95]	„
	17 Vulpeculæ, ...	23 19 10.17	18 Sagittæ,.....	21 17 5.27	+ 5.84	− 1.55	0.00	2.01	„
	η Delphini,.....	12 40 36.77	49 Cygni, ...	31 56 34.65	− 19.91	− 3.10	− 0.01	2.69	„
	P. XX, 393, ...	3 48 5.41	ν Cygni,.....	40 46 20.73	+ 56.83	+ 1.73	+ 0.02	1.65	„
	P. XX, 452, ...	39 6 17.08	4 Equulei, ...	5 33 17.16	− 96.01	+ 1.82	− 0.03	2.90	„
	τ Cygni,.....	37 36 28.28	9 Equulei, ...	6 55 16.80	+139.22	+ 0.84	+ 0.04	2.64	„
	P. XXI, 120,.....	25 43 59.45	5 Pegasi, ...	18 51 29.47	+ 24.66	+ 2.47	+ 0.01	1.60	„
	κ Pegasi, ...	25 10 27.63	P. XXI, 312,.....	19 20 47.41	+157.35	− 1.79	+ 0.04	3.12	„
	P. XXII, 36,.....	39 12 21.50	30 Pegasi, ...	5 16 33.70	+224.86	+ 0.87	+ 0.07	3.40	„
21	π¹ Bootis, ...	16 51 27.72	ε² Bootis, ...	27 30 26.42	+431.93	+ 2.26	+ 0.13	1.39	„
	δ Bootis,.....	33 41 55.12	δ Serpentis, ...	10 52 52.34	+ 49.23	− 0.81	+ 0.02	2.18	„
	ζ Coronæ, ...	36 58 12.38	λ Serpentis, ...	7 40 25.56	− 69.38	+ 3.04	− 0.02	2.61	„
	P. XV, 185, ...	28 28 20.56	γ Serpentis, ...	15 59 46.40	+251.21	− 1.64	+ 0.07	3.12	„
	ε Coronæ, ...	27 10 31.80	κ Herculis,.....	17 19 12.25	+200.68	− 0.60	+ 0.06	2.16	„
	B. 2060, ...	16 55 52.21	P. XVI, 40, ...	27 40 46.27	− 2.81	− 2.83	0.00	3.60	„
	P. XVI, 127,.....	38 18 11.62	41 Herculis, ...	6 17 4.31	+ 30.26	+ 4.20	+ 0.01	2.44	„
	β Pegasi, ...	27 31 38.11	P. XXIII, 4, ...	17 2 27.45	+ 70.38	+ 0.99	+ 0.02	4.17	„
	P. XXIII, 4,.....	17 2 27.45	61 Pegasi, ...	27 41 22.08	−219.47	− 1.49	− 0.06	3.74	„
	15 Andromedæ,...	39 40 14.96	ι Piscium, ...	5 4 23.01	−250.61	+ 3.40	− 0.08	1.70	„
	† ρ Andromedæ,...	37 24 2.29	45 Piscium, ...	7 7 36.30	+147.64	− 2.29	+ 0.04	[4 68]	„
	π Andromedæ, ...	33 9 18.82	58 Piscium, ...	11 25 0.91	+ 68 90	− 4.86	+ 0.02	3.93	„
	ε Piscium, ...	7 20 27.33	45 Andromedæ,...	37 10 43.21	+158.74	− 1.17	+ 0.04	2.88	„
22	π¹ Bootis, ...	16 51 27.81	ε² Bootis, ...	27 30 26.51	+432.74	+ 1.31	+ 0.13	1.34	„
	δ Bootis,.....	33 41 55.25	δ Serpentis, ...	10 52 52.49	+ 47.11	+ 2.35	+ 0.02	3.35	„
	ζ Coronæ, ...	36 58 12.52	λ Serpentis, ...	7 40 25.68	− 70.23	+ 3.91	− 0.02	2.76	„
	P. XV, 185, ...	28 28 20.71	γ Serpentis, ...	15 59 46.55	+246.73	+ 4.02	+ 0.07	4.45	„
	ε Coronæ, ...	27 10 31.96	κ Herculis,.....	17 19 12.40	+197.11	+ 3.40	+ 0.06	2.75	„
	B. 2060,.....	16 55 52.36	P. XVI, 40, ...	27 40 46.44	− 1.79	− 3.49	0.00	4.12	„
	P. XVI, 127,.....	38 18 11.83	41 Herculis, ...	6 17 4.45	+ 38.40	− 3.82	+ 0.01	2.73	„
	β Pegasi, ...	27 31 38.41	P. XXIII, 4,.....	17 2 27.69	+ 67.96	+ 4.23	+ 0.02	5.26	„
	P. XXIII, 4,.....	17 2 27.69	61 Pegasi, ...	27 41 22.35	−225.46	+ 4.29	− 0.06	3.83	„
	B. 3107,.....	19 59 52.99	69 Pegasi, ...	24 36 17.57	+ 5.63	+ 1.17	0.00	2.08	„
	15 Andromedæ,...	39 40 15.24	ι Piscium, ...	5 4 23.21	−243.74	− 1.64	− 0.08	3.77	„
	76 Pegasi, ...	15 46 5.80	78 Pegasi, ...	28 47 39.46	+ 90.02	− 9.42	+ 0.03	3.26	„
	26 Piscium, ...	6 30 12.28	θ Andromedæ, ...	38 6 44.05	− 12.98	− 2.00	0.00	3.18	„
	ρ Andromedæ, ...	37 24 2.53	45 Piscium, ...	7 7 36.49	+147.30	− 4.35	+ 0.04	2.50	„
	π Andromedæ, ...	33 9 19.04	58 Piscium, ...	11 25 1.10	+ 69.57	− 5.10	+ 0.02	4.56	„
	62 Piscium, ...	6 44 34.40	μ Andromedæ, ...	37 56 35.66	−141.98	+ 0.78	− 0.04	3.79	„

* Cloudy. † Faint, cloudy. Bisection of following star doubtful.

July, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
22	ε Piscium,	7 20 27.51	45 Andromedæ,	37 10 43.40	+153.08	+ 4.17	+ 0.04	2.75	J.I.P.
23	P. XXII, 36,	39 12 22.50	30 Pegasi,	5 16 34.32	+222.41	+ 2.59	+ 0.07	3.48	"
	34 Pegasi,	3 52 22.09	G. 3849,	40 46 47.52	− 79.58	− 3.25	− 0.03	1.95	"
	13 Lacertæ,	41 16 51.62	B. F. 3143,	3 15 48.31	+117.28	− 4.89	+ 0.04	2.40	"
	β Pegasi,	27 31 38 67	P. XXIII, 4,	17 2 27.93	+ 68.27	+ 2.53	+ 0.02	4.12	"
	P. XXIII, 4,	17 2 27.93	61 Pegasi,	27 41 22.63	−225.80	+ 3.55	− 0.06	2.97	"
	B. 3107,	19 59 53.24	69 Pegasi,	24 36 17.83	+ 11.68	− 3.40	− 0.00	3.82	"
	15 Andromedæ,	39 40 15.52	ι Piscium,	5 4 23.40	−247.22	+ 1.05	− 0.08	3.21	"
	76 Pegasi,	15 46 6.02	78 Pegasi,	28 47 39.72	+ 81.58	− 1.43	+ 0.03	3.05	"
	26 Piscium,	6 30 12.49	θ Andromedæ,	38 6 44.31	− 13.37	− 1.82	0.00	3.21	"
	ρ Andromedæ,	37 24 2.79	45 Piscium,	7 7 36.69	+141.37	+ 1.37	+ 0.04	2.52	"
	π Andromedæ,	33 9 19.29	58 Piscium,	11 25 1.31	+ 61.55	+ 1.28	+ 0.02	3.15	"
	ε Piscium,	7 20 27.71	45 Andromedæ,	37 10 43.61	+152.17	+ 4.59	+ 0.04	2.46	"
29	δ Bootis,	33 41 55.76	δ Serpentis,	10 52 53.01	+ 54.56	− 4.92	+ 0.02	4.04	"
	ζ Coronæ,	36 58 13.22	λ Serpentis,	7 40 26.21	− 67.93	+ 0.99	− 0.02	2.76	"
	P. XV, 185,	28 28 21.43	γ Serpentis,	15 59 47.19	+251.82	− 2.26	+ 0.07	3.94	"
	ε Coronæ,	27 10 32.73	κ Herculis,	17 19 13.13	+201.16	− 2.26	+ 0.06	1.89	"
	B. 2060,	16 55 53.10	P. XVI, 40,	27 40 47.33	− 3.15	− 2.32	0.00	4.75	"
	P. XVI, 127,	38 18 12.94	41 Herculis,	6 17 5.14	+ 34.22	− 0.66	+ 0.01	2.61	"

August, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
5	P. XVIII, 133,	11 20 10.98	β¹ Lyræ,	33 14 43.74	+ 52.05	− 4.71	+ 0.02	4.72	J.I.P.
	11 Aquilæ,	13 29 13.37	19 Lyræ,	31 6 50.56	+ 4.84	+ 5.24	0.00	2.05	"
	2 Sagittæ,	16 44 21.71	β Cygni,	27 44 45.25	+219.02	− 0.09	+ 0.06	2.47	"
6	P. XVIII, 133,	11 20 11.16	β¹ Lyræ,	33 14 44.02	+ 49.93	− 3.28	+ 0.02	4.26	"
	11 Aquilæ,	13 29 13.57	19 Lyræ,	31 6 50.84	+ 11.56	− 0.75	0.00	3.01	"
	2 Sagittæ,	16 44 21.94	β Cygni,	27 44 45.53	+223.74	− 3.10	+ 0.06	4.44	"
	α Sagittæ,	17 46 46.83	B. 2510,	26 53 30.82	−114.41	− 1.64	− 0.03	2.74	"
	χ Cygni,	33 29 27.23	φ Aquilæ,	11 9 12.41	− 65.66	− 0.18	− 0.02	3.96	"
	13 Sagittæ,	17 14 16.38	15 Vulpeculæ,	27 28 19.18	−182.49	− 2.77	− 0.05	2.47	"
	17 Vulpeculæ,	23 19 14.48	18 Sagittæ,	21 17 9.47	+ 1.33	+ 0.48	0.00	3.78	"
	η Delphini,	12 40 40.34	49 Cygni,	31 56 39.70	− 22.60	− 4.05	− 0.01	3.36	"
	P. XX, 393,	3 48 8.27	ν Cygni,	40 46 26.34	+ 57.13	− 2.00	+ 0.02	2.45	"
	P. XX, 452,	39 6 22.61	4 Equulei,	5 33 20.21	− 94.08	− 2.89	− 0.03	4.41	"
	τ Cygni,	37 36 33.78	9 Equulei,	6 55 20.01	+137.02	− 0.78	+ 0.04	3.18	"
	P. XXI, 120,	25 44 4.18	5 Pegasi,	18 51 33.70	+ 29.08	− 4.65	+ 0.01	3.38	"
	* κ Pegasi,	25 10 32.33	P. XXI, 312,	19 20 51.69	+168.09	−14.48	+ 0.04	[5.66]	"
	P. XXII, 36,	39 12 26.99	30 Pegasi,	5 16 36.90	+220.83	+ 0.15	+ 0.07	2.99	"
	34 Pegasi,	3 52 24.58	G. 3849,	40 46 51.99	− 85.66	0.00	− 0.03	2.60	"
	13 Lacertæ,	41 16 56.09	B. F. 3143,	3 15 50.80	+119.89	− 8.88	+ 0.03	4.49	"
	β Pegasi,	27 31 42.51	P. XXIII, 4,	17 2 31.23	+ 66.03	+ 1.14	+ 0.02	4.06	"
	P. XXIII, 4,	17 2 31.23	61 Pegasi,	27 41 26.42	−225.07	+ 0.54	− 0.06	4.23	"
	B. 3107,	19 59 56.66	69 Pegasi,	24 36 21.44	+ 3.48	+ 0.36	0.00	2.89	"
	15 Andromedæ,	39 40 19.63	ι Piscium,	5 4 26.00	−250.52	+ 1.49	− 0.08	3.70	"
	76 Pegasi,	15 46 9.18	78 Pegasi,	28 47 43.42	+ 82.88	− 6.17	+ 0.03	3.04	"
20	53 Herculis,	31 52 24.48	60 Herculis,	12 52 56.94	−261.11	− 6.32	− 0.08	3.20	"
	63 Herculis,	24 21 53.23	P. XVII, 109,	20 10 11.21	+137.89	− 5.04	+ 0.04	5.11	"
	78 Herculis,	28 29 1.80	P. XVII, 203,	16 0 1.62	+224.73	− 4.56	+ 0.06	1.94	"
	μ Herculis,	27 46 57.81	93 Herculis,	16 45 30.43	+117.68	+ 1.82	+ 0.03	3.65	"
	α Sagittæ,	17 46 49.38	B. 2510,	26 53 33.93	−114.74	− 5.04	− 0.03	1.84	"
	χ Cygni,	33 29 30.68	φ Aquilæ,	11 9 14.62	− 65.36	− 2.98	− 0.02	4.29	"
	13 Sagittæ,	17 14 19.02	15 Vulpeculæ,	27 28 22.45	−182.01	− 6.05	− 0.05	2.62	"
	17 Vulpeculæ,	23 19 17.54	18 Sagittæ,	21 17 12.47	+ 11.20	−12.88	− 0.00	3.33	"
	† η Delphini,	12 40 42 83	49 Cygni,	31 56 43.45	− 28.23	+ 0.51	− 0.01	[5.41]	"
	P. XX, 393,	3 48 10.18	ν Cygni,	40 46 30.63	+ 51.23	+ 2.89	+ 0.02	4.54	"
	P. XX, 452,	39 6 26.85	4 Equulei,	5 33 22.28	−103.55	+ 3.19	− 0.03	4.18	"
	τ Cygni,	37 36 38.01	9 Equulei,	6 55 22.24	+131.08	+ 2.62	+ 0.04	3.86	"
	P. XXI, 120,	25 44 7.76	5 Pegasi,	18 51 36.87	+ 21.51	− 1.46	+ 0.01	2.38	"
	‡ κ Pegasi,	25 10 35.94	P. XXI, 312,	19 20 54.93	+146.24	− 1.08	+ 0.04	[0.63]	"
	P. XXII, 36,	39 12 31.42	30 Pegasi,	5 16 39.13	+219.72	− 1.55	+ 0.07	3.51	"
	34 Pegasi,	3 52 26.72	G. 3849,	40 46 56.47	− 91.93	+ 0.54	− 0.03	0.18	"
	13 Lacertæ,	41 17 0.58	B. F. 3143,	3 15 52.93	+111.26	− 5.33	+ 0.03	2.72	"
	β Pegasi,	27 31 46.28	P. XXIII, 4,	17 2 34.35	+ 62.18	+ 2.29	+ 0.02	4.80	"
	P. XXIII, 4,	17 2 34.35	61 Pegasi,	27 41 30.17	−228.82	+ 0.81	− 0.06	4.19	"
	B. 3107,	19 59 59.95	69 Pegasi,	24 36 24.99	− 2.24	+ 0.99	0.00	1.22	"
	26 Piscium,	6 30 17.56	θ Andromedæ,	38 6 51.96	− 21.94	+ 0.51	− 0.01	3.32	"
	ρ Andromedæ,	37 24 10.33	45 Piscium,	7 7 41.75	+134.17	+ 3.40	+ 0.04	3.65	"
21	χ Cygni,	33 29 30.93	φ Aquilæ,	11 9 14.79	− 66.00	− 2.50	− 0.02	4.34	"
	13 Sagittæ,	17 14 19.22	15 Vulpeculæ,	27 28 22.69	−187.43	− 1.85	− 0.05	1 62	"
	η Delphini,	12 40 43.02	49 Cygni,	31 56 43.74	− 22.79	− 5.96	− 0.01	4.62	"
24	17 Vulpeculæ,	23 19 18.38	18 Sagittæ,	21 17 13.29	− 2.36	− 0.48	0.00	2.99	"
25	α Sagittæ,	17 46 50.18	B. 2510,	26 53 34.92	−117.44	− 2.65	− 0.03	2.43	"
	17 Vulpeculæ,	23 19 18.54	18 Sagittæ,	21 17 13.45	+ 2.03	− 4.80	0.00	3.23	"
	η Delphini,	12 40 43.66	49 Cygni,	31 56 44.73	− 30.93	− 0.15	− 0.01	3.10	"

* The level readings indicate a slip of the clamp during the observation of the following star.
† Cloudy. Bisection of following star is doubtful.
‡ Cloudy. Bisection of preceding star is doubtful.

August, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
25	P. XX, 393, ...	3 48 10.82	ν Cygni, ...	40 46 32.12	+ 51.20	− 0.09	+ 0.02	2.60	J.I.P.
	P. XX, 452, ...	39 6 28.33	4 Equulei, ...	5 33 22.98	−102.19	+ 1.58	− 0.03	5.02	"
	τ Cygni, ...	37 36 39.50	9 Equulei, ...	6 55 23.00	+134.78	− 2.50	+ 0.04	3.57	"
	P. XXI, 120, ...	25 44 9.00	5 Pegasi, ...	18 51 37.96	+ 29.05	−10.28	+ 0.01	2.26	"
	κ Pegasi, ...	25 10 37.21	P. XXI, 312, ...	19 20 56.06	+153.84	− 6.74	+ 0.04	3.77	"
	13 Lacertæ, ...	41 17 2.25	B. F. 3143, ...	3 15 53.69	+110.75	− 4.26	+ 0.03	4.49	"
	β Pegasi, ...	27 31 47.65	P. XXIII, 4, ...	17 2 35.47	+ 67.60	− 4.56	+ 0.02	4.62	"
	P. XXIII, 4, ...	17 2 35.47	61 Pegasi, ...	27 41 31.55	−226.67	− 2.47	− 0.06	4.31	"
	B. 3107, ...	20 0 1.14	69 Pegasi, ...	24 36 26.29	+ 4.21	− 6.32	0.00	1.61	"
	15 Andromedæ, ...	39 40 25.52	ι Piscium, ...	5 4 29.11	−261.08	+ 5.93	− 0.08	2.08	"
	26 Piscium, ...	6 30 18.43	θ Andromedæ, ...	38 6 53.50	− 22.00	− 0.45	− 0.01	3.51	"
	ρ Andromedæ, ...	37 24 11.84	45 Piscium, ...	7 7 42.64	+134.59	+ 1.52	+ 0.04	3.39	"
	π Andromedæ, ...	33 9 27.73	58 Piscium, ...	11 25 7.64	+ 62.43	− 5.01	+ 0.02	5.13	"
	62 Piscium, ...	6 44 40.42	μ Andromedæ, ...	37 56 44.24	−144.13	− 4.23	− 0.04	3.93	"
	ε Piscium, ...	7 20 33.52	45 Andromedæ, ...	37 10 51.58	+153.69	− 2.26	+ 0.04	4.02	"
26	63 Herculis, ...	24 21 53.59	P. XVII, 109, ...	20 10 11.62	+130.90	− 0.54	+ 0.04	3.00	"
	78 Herculis, ...	28 29 2.30	P. XVII, 203, ...	16 0 2.06	+222.98	− 3.34	+ 0.06	1.88	"
	μ Herculis, ...	27 46 58.38	93 Herculis, ...	16 45 30.94	+121.22	− 2.03	+ 0.03	3.88	"
	70 Ophiuchi, ...	2 31 26.18	G. 2533, ...	42 7 38.79	− 80.58	+ 1.37	− 0.03	3.25	"
	α Sagittæ, ...	17 46 50.29	B. 2510, ...	26 53 35.07	−119.74	− 0.72	− 0.03	2.19	"
	χ Cygni, ...	33 29 31.96	φ Aquilæ, ...	11 9 15.42	− 70.87	+ 1.34	− 0.02	4.14	"
	13 Sagittæ, ...	17 14 19.99	15 Vulpeculæ, ...	27 28 23.67	−186.43	− 2.44	− 0.05	2.91	"
	17 Vulpeculæ, ...	23 19 18.69	18 Sagittæ, ...	21 17 13.59	+ 2.97	− 5.81	0.00	3.30	"
	η Delphini, ...	12 40 43.78	49 Cygni, ...	31 56 44.94	− 32.38	+ 1.34	− 0.01	3.31	"
	P. XX, 393, ...	3 48 10.90	ν Cygni, ...	40 46 32.37	+ 55.07	− 3.19	+ 0.02	3.33	"
	P. XX, 452, ...	39 6 28.57	4 Equulei, ...	5 33 23.07	−101.28	− 0.36	− 0.03	4.15	"
	τ Cygni, ...	37 36 39.76	9 Equulei, ...	6 55 23.10	+131.36	+ 1.37	+ 0.04	4.20	"
	P. XXI, 120, ...	25 44 9.20	5 Pegasi, ...	18 51 38.13	+ 17.67	− 0.33	+ 0.01	1.02	"
	κ Pegasi, ...	25 10 37.41	P. XXI, 312, ...	19 20 56.23	+150.57	− 4.50	+ 0.04	2.93	"
	P. XXII, 36, ...	39 12 33.31	30 Pegasi, ...	5 16 40.02	+216.42	+ 0.03	+ 0.07	3.18	"
	34 Pegasi, ...	3 52 27.57	G. 3849, ...	40 46 58.42	− 88.75	− 2.47	− 0.03	1.75	"
	13 Lacertæ, ...	41 17 2.54	B. F. 3143, ...	3 15 53.78	+106.60	− 2.95	+ 0.03	1.84	"
	β Pegasi, ...	27 31 47.88	P. XXIII, 4, ...	17 2 35.65	+ 62.46	− 0.09	+ 0.02	4.15	"
	P. XXIII, 4, ...	17 2 35.65	61 Pegasi, ...	27 41 31.78	−228.43	− 1.22	− 0.07	4.00	"
	B. 3107, ...	20 0 1.33	69 Pegasi, ...	24 36 26.51	+ 2.27	− 3.61	0.00	2.58	"
	15 Andromedæ, ...	39 40 25.79	ι Piscium, ...	5 4 29.22	−246.67	− 8.11	− 0.08	2.65	"
	76 Pegasi, ...	15 46 13.47	78 Pegasi, ...	28 47 48.79	+ 72.17	− 1.40	+ 0.02	1.92	"
	26 Piscium, ...	6 30 18.55	θ Andromedæ, ...	38 6 53.77	− 25.99	+ 5.18	− 0.01	5.34	"
	ρ Andromedæ, ...	37 24 12.10	45 Piscium, ...	7 7 42.77	+135.96	− 0.15	+ 0.04	3.28	"
	π Andromedæ, ...	33 9 27.97	58 Piscium, ...	11 25 7.79	+ 59.94	− 2.80	+ 0.02	5.04	"
	62 Piscium, ...	6 44 40.55	μ Andromedæ, ...	37 56 44.47	−149.27	− 0.30	− 0.04	2.90	"
	ε Piscium, ...	7 20 33.67	45 Andromedæ, ...	37 10 51.83	+147.49	0.00	+ 0.04	0.28	"
27	63 Herculis, ...	24 21 53.62	P. XVII, 109, ...	20 10 11.65	+134.11	− 3.34	+ 0.03	3.44	"
	78 Herculis, ...	28 29 2.35	P. XVII, 203, ...	16 0 2.10	+218.81	+ 1.49	+ 0.06	2.59	"
	μ Herculis, ...	27 46 58.44	93 Herculis, ...	16 45 31.00	+119.16	− 0.54	+ 0.03	3.37	"
	70 Ophiuchi, ...	2 31 26.20	G. 2533, ...	42 7 38.90	− 75.59	− 4.02	− 0.03	2.91	"
	α Sagittæ, ...	17 46 50.41	B. 2510, ...	26 53 35.21	−113.47	− 6.08	− 0.03	3.13	"
	χ Cygni, ...	33 29 32.12	φ Aquilæ, ...	11 9 15.51	− 65.66	− 3.49	− 0.02	4.65	"
	13 Sagittæ, ...	17 14 20.11	15 Vulpeculæ, ...	27 28 23.86	−183.89	− 5.10	− 0.05	2.94	"
	17 Vulpeculæ, ...	23 19 18.84	18 Sagittæ, ...	21 17 13.74	− 1.33	− 1.58	0.00	3.38	"
	η Delphini, ...	12 40 43.89	49 Cygni, ...	31 56 45.14	− 32.14	+ 1.14	− 0.01	3.51	"
	P. XX, 393, ...	3 48 10.98	ν Cygni, ...	40 46 32.62	+ 52.98	− 1.28	+ 0.02	3.52	"
	P. XX, 452, ...	39 6 28.81	4 Equulei, ...	5 33 23.16	− 94.74	− 5.87	− 0.03	5.35	"
	τ Cygni, ...	37 36 40.01	9 Equulei, ...	6 55 23.20	+137.53	− 4.86	+ 0.04	4.31	"
	P. XXI, 120, ...	25 44 9.40	5 Pegasi, ...	18 51 38.30	+ 18.91	− 0.42	+ 0.01	2.35	"
	κ Pegasi, ...	25 10 37.61	P. XXI, 312, ...	19 20 56.41	+148.97	− 3.91	+ 0.04	2.11	"
	P. XXII, 36, ...	39 12 33.58	30 Pegasi, ...	5 16 40.12	+219.14	− 2.26	+ 0.07	3.80	"
	34 Pegasi, ...	3 52 27.66	* G. 3849, ...	40 46 58.70	− 95.29	− 0.63	− 0.03	[−2.77]	"
	13 Lacertæ, ...	41 17 2.83	B. F. 3143, ...	3 15 53.88	+107.54	− 3.13	+ 0.03	2.79	"
	β Pegasi, ...	27 31 48.12	P. XXIII, 4, ...	17 2 35.83	+ 65.45	− 3.25	+ 0.02	4.20	"
	P. XXIII, 4, ...	17 2 35.83	61 Pegasi, ...	27 41 32.01	−231.21	+ 1.05	− 0.07	3.69	"
	B. 3107, ...	20 0 1.52	69 Pegasi, ...	24 36 26.73	+ 0.21	− 3.16	0.00	1.18	"
	15 Andromedæ, ...	39 40 26.06	ι Piscium, ...	5 4 29.33	−255.84	+ 0.06	− 0.08	1.83	"
	76 Pegasi, ...	15 46 13.62	78 Pegasi, ...	28 47 49.01	+ 75.92	− 3.76	+ 0.02	3.50	"
	26 Piscium, ...	6 30 18.67	θ Andromedæ, ...	38 6 54.04	− 17.16	− 4.26	− 0.01	4.92	"
	ρ Andromedæ, ...	37 24 12.36	45 Piscium, ...	7 7 42.90	+137.29	− 1.08	+ 0.04	3.88	"
	π Andromedæ, ...	33 9 28.21	58 Piscium, ...	11 25 7.94	+ 55.22	+ 0.18	+ 0.02	3.50	"
	62 Piscium, ...	6 44 40.68	μ Andromedæ, ...	37 56 44.70	−146.03	− 3.76	− 0.04	2.86	"
28	78 Herculis, ...	28 29 2.40	P. XVII, 203, ...	16 0 2.14	+223.40	− 4.11	+ 0.06	1.62	"
	μ Herculis, ...	27 46 58.49	93 Herculis, ...	16 45 31.05	+117.25	+ 1.91	+ 0.03	3.96	"
	70 Ophiuchi, ...	2 31 26.22	G. 2533, ...	42 7 39.00	− 74.56	− 4.50	− 0.03	3.52	"
	P. XXII, 36, ...	39 12 33.84	30 Pegasi, ...	5 16 40.21	+213.96	+ 1.37	+ 0.07	2.43	"
	34 Pegasi, ...	3 52 27.75	G. 3849, ...	40 46 58.97	− 88.48	− 2.03	− 0.03	2.82	"
	13 Lacertæ, ...	41 17 3.11	B. F. 3143, ...	3 15 53.98	+105.85	− 1.73	+ 0.03	2.69	"
	P. XXII, 275, ...	2 28 6.10	2 Andromedæ, ...	42 12 33.64	−124.27	− 1.97	− 0.04	3.59	"
	P. XXIII, 4, ...	17 2 36.00	61 Pegasi, ...	27 41 32.24	−229.42	+ 0.63	− 0.07	5.26	"

* Star faint, probably from haze.

August, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
28	B. 3107,	20 0 1.72	69 Pegasi,	24 36 26.94	− 1.18	− 0.96	0.00	2.19	J.I.P.
	15 Andromedæ,	39 40 26.34	ι Piscium,	5 4 29.44	−255.75	+ 0.96	− 0.08	3.00	"
	76 Pegasi,	15 46 13.78	78 Pegasi,	28 47 49.23	+ 76.71	− 5.84	+ 0.02	2.40	"
	26 Piscium,	6 30 18.80	θ Andromedæ,	38 6 54.30	− 21.51	− 2.26	− 0.01	2.77	"
	ρ Andromedæ,	37 24 12.63	45 Piscium,	7 7 43.03	+136.47	− 1.52	+ 0.04	2.82	"
	π Andromedæ,	33 9 28.46	58 Piscium,	11 25 8.09	+ 56.46	− 0.33	+ 0.02	4.42	"
	62 Piscium,	6 44 40.80	μ Andromedæ,	37 56 44.94	−146.18	− 3.28	− 0.04	3.37	"
	ε Piscium,	7 20 33.92	45 Andromedæ,	37 10 52.31	+146.67	+ 3.82	+ 0.04	3.65	"
30	78 Herculis,	28 29 2.55	P. XVII, 203,	16 0 2.28	+223.98	− 3.19	+ 0.06	3.27	"
	μ Herculis,	27 46 58.66	93 Herculis,	16 45 31.20	+124.88	− 6.11	+ 0.03	3.73	"
	70 Ophiuchi,	2 31 26.33	G. 2533,	42 7 39.26	− 79.67	− 0.39	− 0.03	2.71	"
	P. I, 123,	7 7 31.50	P. I, 170,	37 26 41.36	+ 67.05	− 0.15	+ 0.02	3.35	"
	P. I, 223,	11 48 6.84	ε Trianguli,	32 47 33.21	+ 24.51	− 1.43	+ 0.01	3.11	"
	β Trianguli,	34 30 16.99	P. II, 85,	10 6 29.64	− 8.96	− 1.49	0.00	2.86	"
	15 Trianguli,	34 14 33.20	85 Ceti,	10 18 32.06	+103.76	− 1.94	+ 0.03	4.48	"
	40 Arietis,	17 51 36.66	41 Arietis,	26 50 26.25	−169.33	+ 0.24	− 0.05	2.32	"
	41 Arietis,	26 50 26.25	ρ^3 Arietis,	17 37 4.29	+267.43	+ 0.60	+ 0.08	3.38	"
	ρ^3 Arietis,	17 37 4.29	56 Arietis,	26 52 22.20	+207.43	+ 1.64	+ 0.06	2.37	"
	50 Arietis,	17 36 5.34	56 Arietis,	26 52 22.20	+249.10	− 9.36	+ 0.07	3.58	"
	τ^2 Arietis,	20 22 42.65	64 Arietis,	24 21 48.93	−239.71	− 2.77	− 0.07	3.24	"
	f Tauri,	12 35 20.80	o Persei,	31 57 54.82	+ 98.22	− 3.22	+ 0.03	2.84	"
	ξ Persei,	35 29 51.08	47 Tauri,	9 0 25.79	+183.46	+ 0.36	+ 0.05	2.31	"
	κ Tauri,	22 3 41.59	ν^1 Tauri,	22 35 0.81	− 62.73	− 4.41	− 0.02	4.04	"

September, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
1	17 Vulpeculæ,	23 19 19.67	18 Sagittæ,	21 17 14.55	+ 5.39	− 9.63	0.00	2.87	"
	η Delphini,	12 40 44.53	49 Cygni,	31 56 46.22	− 30.83	− 0.99	− 0.01	3.54	"
	P. XX, 393,	3 48 11.41	ν Cygni,	40 46 33.89	+ 52.74	− 1.73	+ 0.02	3.68	"
	P. XX, 452,	39 6 30.07	4 Equulei,	5 33 23.64	−104.21	0.00	− 0.03	2.62	"
	τ Cygni,	37 36 41.25	9 Equulei,	6 55 23.73	+135.38	− 4.35	+ 0.04	3.56	"
	P. XXI, 120,	25 44 10.40	5 Pegasi,	18 51 39.15	+ 18.00	− 0.45	+ 0.01	2.33	"
	κ Pegasi,	25 10 38.65	P. XXI, 312,	19 20 57.30	+145.67	− 1.31	+ 0.04	2.38	"
	P. XXII, 36,	39 12 34.94	30 Pegasi,	5 16 40.64	+213.66	+ 0.15	+ 0.07	1.67	"
	13 Lacertæ,	41 17 4.25	B. F. 3143,	3 15 54.35	+101.46	+ 1.52	+ 0.03	2.31	"
	P. XXII, 275,	2 28 6.45	2 Andromedæ,	42 12 34.79	−124.34	− 2.68	− 0.04	3.56	"
	P. XXIII, 4,	17 2 36 68	61 Pegasi,	27 41 33.13	−230.09	− 0.81	− 0.07	3.93	"
	B. 3107,	20 0 2.46	69 Pegasi,	24 36 27.77	− 1.76	− 1.46	0.00	1.89	"
	15 Andromedæ,	39 40 27.43	ι Piscium,	5 4 29.84	−254.45	− 1.19	− 0.08	2.92	"
	76 Pegasi,	15 46 14.42	78 Pegasi,	28 47 50.12	+ 72.93	− 2.53	+ 0.02	2.69	"
	π Andromedæ,	33 9 29.36	58 Piscium,	11 25 8.59	+ 61.37	− 5.84	+ 0.02	4.53	"
	62 Piscium,	6 44 41.22	μ Andromedæ,	37 56 45.93	−150.15	+ 0.54	− 0.04	3.92	"
	ε Piscium,	7 20 34.33	45 Andromedæ,	37 10 53.20	+152.15	− 2.53	+ 0.04	3.42	"
	47 Andromedæ,	37 10 57.11	P. I, 85,	7 26 4.70	− 13.89	− 3.19	− 0.01	3.81	"
	P. I, 123,	7 7 31.68	P. I, 170,	37 26 41.74	+ 61.79	+ 5.04	+ 0.02	3.56	"
2	13 Sagittæ,	17 14 20.99	15 Vulpeculæ,	27 28 24.95	−191.81	+ 0.57	− 0.05	1.68	"
	17 Vulpeculæ,	23 19 19.88	18 Sagittæ,	21 17 14.75	− 3.33	− 0.69	0.00	3.29	"
	η Delphini,	12 40 44.70	49 Cygni,	31 56 46.47	− 33.35	+ 0.06	− 0.01	2.29	"
	P. XX, 393,	3 48 11.54	ν Cygni,	40 46 34.19	+ 53.71	− 3.99	+ 0.02	2.61	"
	P. XX, 452,	39 6 30.37	4 Equulei,	5 33 23.79	−100.10	− 3.99	− 0.03	2.96	"
	τ Cygni,	37 36 41.55	9 Equulei,	6 55 23.88	+127.12	+ 4.47	+ 0.04	4.35	"
	P. XXI, 120,	25 44 10.65	5 Pegasi,	18 51 39.37	+ 16.76	− 1.28	+ 0.01	0.50	"
	κ Pegasi,	25 10 38.88	P. XXI, 312,	19 20 57.51	+154.23	−10.19	+ 0.04	2.28	"
	P. XXII, 36,	39 12 35.27	30 Pegasi,	5 16 40.78	+211.60	+ 2.06	+ 0.07	1.75	"
	34 Pegasi,	3 52 28.28	G. 3849,	40 47 0.44	− 94.86	− 2.59	− 0.03	2.06	"
	P. XXII, 275,	2 28 6.60	2 Andromedæ,	42 12 35.14	−127.85	− 0.51	− 0.04	2.47	"
	P. XXIII, 4,	17 2 36.91	61 Pegasi,	27 41 33.42	−226.91	− 3.43	− 0.07	4.75	"
	B. 3107,	20 0 2.71	69 Pegasi,	24 36 28.04	+ 3.09	− 6.23	0.00	2.24	"
	15 Andromedæ,	39 40 27.74	ι Piscium,	5 4 29.98	−259.11	+ 3.25	− 0.08	2.92	"
	76 Pegasi,	15 46 14.64	78 Pegasi,	28 47 50.41	+ 75.20	− 5.93	+ 0.02	1.81	"
	26 Piscium,	6 30 19.38	θ Andromedæ,	38 6 55.60	− 23.48	− 0.57	− 0.01	3.48	"
	ρ Andromedæ,	37 24 13.91	45 Piscium,	7 7 43.60	+135.05	− 1.02	+ 0.04	2.83	"
	47 Andromedæ,	37 10 57.35	P. I, 85,	7 26 4.81	− 16.64	+ 0.27	− 0.01	4.70	"
4	P. XXII, 275,	2 28 6.89	2 Andromedæ,	42 12 35.84	−128.21	+ 0.57	− 0.04	3.69	"
	β Pegasi,	27 31 50.10	P. XXIII, 4,	17 2 37.37	+ 62.67	− 1.22	+ 0.02	5.20	"
	P. XXIII, 4,	17 2 37 37	61 Pegasi,	27 41 33.99	−233.18	+ 1.58	− 0.07	4.01	"
	B. 3107,	20 0 3.20	69 Pegasi,	24 36 28.58	− 3.15	− 0.84	0.00	1.90	"
	76 Pegasi,	15 46 15.08	78 Pegasi,	28 47 50.98	+ 70.29	− 0.33	+ 0.02	3.01	"
	26 Piscium,	6 30 19.71	θ Andromedæ,	38 6 56.23	− 23.21	− 1.52	− 0.01	3.23	"
	ρ Andromedæ,	37 24 14.53	45 Piscium,	7 7 43.93	+135.14	− 1.88	+ 0.04	2.53	"
	π Andromedæ,	33 9 30.21	58 Piscium,	11 25 9.12	+ 65.84	−11.29	+ 0.02	4.24	"
	62 Piscium,	6 44 41.67	μ Andromedæ,	37 56 46.79	−147.09	− 3.55	− 0.04	3.55	"
	ε Piscium,	7 20 34.78	45 Andromedæ,	37 10 54.02	+151.12	− 1.28	+ 0.04	4.28	"
	P. I, 123,	7 7 32.09	P. I, 170,	37 26 42.47	+ 66.54	+ 0.09	+ 0.02	3.93	"
10	P. XX, 393,	3 48 12 25	ν Cygni,	40 46 36.20	+ 54.53	− 5.07	+ 0.02	3.71	"

September, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
10	P. XX, 452, ...	39 6 32.36	4 Equulei, ...	5 33 24.58	−107.51	+ 3.37	− 0.03	4.30	J.I.P.
	τ Cygni, ...	37 36 43.58	9 Equulei, ...	6 55 24.77	+127.15	+ 2.44	+ 0.04	3.80	„
	P. XXI, 120,.....	25 44 12.31	5 Pegasi, ...	18 51 40 81	+ 21.42	− 5.72	+ 0.01	2.27	„
	κ Pegasi, ...	25 10 40.59	P. XXI, 312,.....	19 20 59.01	+157.08	−12.76	+ 0.04	4.16	„
	P. XXII, 36,.....	39 12 37.56	30 Pegasi, ...	5 16 41.72	+212.87	+ 1.08	+ 0.07	3.66	„
	34 Pegasi, ...	3 52 29.16	G. 3849,.....	40 47 2.85	− 89.78	− 2.59	− 0.03	3.61	„
	13 Lacertæ.	41 17 7.05	B. F. 3143, ...	3 15 55.38	+ 99.34	+ 2.29	+ 0.03	2.87	„
	P. XXII, 275, ...	2 28 7.44	2 Andromedæ, ...	42 12 37.64	−119.95	− 9.06	− 0.04	3.49	„
	β Pegasi, ...	27 31 51.50	P. XXIII, 4,.....	17 2 38.44	+ 59 37	− 1.11	+ 0.02	3.25	„
	P. XXIII, 4, ...	17 2 38.44	61 Pegasi, ...	27 41 35.41	−230.94	− 2.56	− 0.07	3.36	„
	B. 3107,.....	20 0 4.38	69 Pegasi, ...	24 36 29.91	− 1.97	− 2.83	0.00	2.34	„
	15 Andromedæ,..	39 40 30.21	ι Piscium, ...	5 4 31.00	−257.51	− 0.45	− 0.08	2.57	„
	76 Pegasi, ...	15 46 16.14	78 Pegasi, ...	28 47 52.45	+ 72.90	− 4.23	+ 0.02	2.98	„
	26 Piscium, ...	6 30 20.47	θ Andromedæ, ...	38 6 57.95	− 22.85	− 2.47	− 0.01	3.88	„
	ρ Andromedæ, ...	37 24 16.23	45 Piscium, ...	7 7 44.72	+131.51	+ 1.40	+ 0.04	3.43	„
	π Andromedæ, ...	33 9 31.77	58 Piscium, ...	11 25 10.05	+ 54.04	− 1.61	+ 0.02	3.36	„
	62 Piscium, ...	6 44 42.45	μ Andromedæ, ...	37 56 48.46	−147.57	− 5.01	− 0.04	2.84	„
	ε Piscium, ...	7 20 35.58	45 Andromedæ,...	37 10 55.64	+146.70	+ 0.30	+ 0.04	2.65	„
	47 Andromedæ,...	37 10 59.49	P. I, 85,.....	7 26 5.93	− 18.16	− 2.00	− 0.01	2.54	„
	P. I, 123, ...	7 7 32.89	P. I, 170, ...	37 26 43.99	+ 64.88	+ 1.64	+ 0.02	4.98	„
	P. I, 223, ...	11 48 8.39	ε Trianguli, ...	32 47 35.58	+ 23.36	− 1.14	+ 0.01	4.22	„
	β Trianguli, ...	34 30 19.36	P. II, 85, ...	10 6 31.01	− 12.86	+ 0.99	0.00	3.31	„
20	β^1 Lyræ,.....	33 14 50.84	ω Aquilæ, ...	11 24 47.25	− 94.53	− 1.08	− 0.03	3.40	„
	2 Sagittæ, ...	16 44 27.72	β Cygni, ...	27 44 53.12	+211.72	+ 1.28	+ 0.06	3.48	„
	α Sagittæ, ...	17 46 53.14	B. 2510,.....	26 53 38.69	−124.00	+ 0.15	− 0.03	2.04	„
	χ Cygni,.....	33 29 36.09	φ Aquilæ, ...	11 9 17.87	− 71.99	− 0.66	− 0.02	4.31	„
	13 Sagittæ, ...	17 14 23.04	15 Vulpeculæ, ...	27 28 27.63	−189.30	− 1.91	− 0.05	4.07	„
	τ Cygni,.....	37 36 45.83	9 Equulei, ...	6 55 25.68	+133.53	− 6.38	+ 0.04	2 95	„
	P. XXI, 120,.....	25 44 14.11	5 Pegasi, ...	18 51 42.34	+ 16.55	− 2.41	0.00	2.37	„
	κ Pegasi, ...	25 10 42.45	P. XXI, 312, ...	19 21 0.61	+140.61	− 0.33	+ 0.04	1.85	„
	* P. XXII, 36,...	39 12 40.16	30 Pegasi, ...	5 16 42.60	+214.39	− 0.87	+ 0.07	[4.97]	„
	34 Pegasi, ...	3 52 29.96	G. 3849,.....	40 47 5.60	− 94.71	− 1.85	− 0.03	1.19	„
	13 Lacertæ, ...	41 17 9.80	B. F. 3143, ...	3 15 56.15	+ 98.95	+ 1.25	+ 0.03	3.21	„
	† P. XXII, 275,.	2 28 8.17	2 Andromedæ, ...	42 12 40.46	−128.88	+ 1.76	− 0.04	[7.15]	„
	β Pegasi, ...	27 31 55.63	P. XXIII, 4,.....	17 2 40.01	+ 64.91	− 7.30	+ 0.02	4.45	„
	15 Andromedæ,...	39 40 32.96	ι Piscium, ...	5 4 31.85	−253.42	− 4.26	− 0.08	4.65	„
	76 Pegasi, ...	15 46 17.65	78 Pegasi, ...	28 47 54.67	+ 67.05	+ 0 57	+ 0.02	3.80	„
	26 Piscium, ...	6 30 21.42	θ Andromedæ, ...	38 7 0.58	− 28.90	+ 0.18	− 0.01	2.27	„
	ρ Andromedæ, ...	37 24 18.81	45 Piscium, ...	7 7 45.67	+131.78	− 1.05	+ 0.04	3.01	„
	π Andromedæ, ...	33 9 34.11	58 Piscium, ...	11 25 11.21	+ 51.53	− 0.39	+ 0.02	3.82	„
	62 Piscium, ...	6 44 43.35	μ Andromedæ, ...	37 56 50.94	−156.59	+ 2.98	− 0.04	3.50	„
	ε Piscium, ...	7 20 36.49	45 Andromedæ,...	37 10 58.02	+142.34	+ 3.34	+ 0.04	2.97	„
	47 Andromedæ,...	37 11 1.81	P. I, 85,.....	7 26 6.78	− 17.25	− 3.97	− 0.01	3.06	„
21	β^1 Lyræ,.....	33 14 50.87	ω Aquilæ, ...	11 24 47.27	− 93.99	+ 0.54	− 0.03	5.59	„
	2 Sagittæ, ...	16 44 27.75	β Cygni,.....	27 44 53.18	+213.39	− 0.48	+ 0.06	3.44	„
	α Sagittæ, ...	17 46 53.18	B. 2510,.....	26 53 38.76	−124.61	+ 1.43	− 0.03	2.76	„
	χ Cygni,.....	33 29 36.17	φ Aquilæ, ...	11 9 17.91	− 72.44	− 0.15	− 0.02	4.43	„
	13 Sagittæ, ...	17 14 23.10	15 Vulpeculæ, ...	27 28 27.72	−191.54	− 0.93	− 0.05	2.90	„
	τ Cygni,.....	37 36 46.03	9 Equulei, ...	6 55 25.75	+126.33	+ 0.21	+ 0.04	2.47	„
	P. XXI, 120,.. ...	25 44 14.27	5 Pegasi, ...	18 51 42.47	+ 17.10	− 3.67	0.00	1.80	„
	κ Pegasi, ...	25 10 42.62	P. XXI, 312, ...	19 21 0.75	+142.28	− 1.55	+ 0.04	2.45	„
	P. XXII, 36,.....	39 12 40.41	30 Pegasi, ...	5 16 42.67	+211.72	− 0.39	+ 0.06	2.93	„
	34 Pegasi, ...	3 52 30.03	G. 3849,.....	40 47 5.87	− 97.16	+ 1.94	− 0.03	2.70	„
	13 Lacertæ, ...	41 17 10.08	B. F. 3143, ...	3 15 56.23	+ 97.10	+ 1.31	+ 0.03	1.60	„
	P. XXII, 275, ...	2 28 8.24	2 Andromedæ, ...	42 12 40.77	−131.78	+ 0.03	− 0.04	2.71	„
	β Pegasi, ...	27 31 53.87	P. XXIII, 4,.....	17 2 40.18	+ 60.67	− 2.23	+ 0.02	5.48	„
	P. XXIII, 4,.....	17 2 40.18	61 Pegasi, ...	27 41 37.80	−233.81	− 0.84	− 0.07	4.27	„
	‡ B. 3107, ...	20 0 6.31	69 Pegasi, ...	24 36 32.12	− 4.90	− 6 08	0.00	[−1.76]	„
	26 Piscium, ...	6 30 21.52	θ Andromedæ, ...	38 7 0.86	− 27.45	0.00	− 0.01	3.73	„
22	β^1 Lyræ,.....	33 14 50.89	ω Aquilæ, ...	11 24 47.28	− 98.28	+ 1.97	− 0.03	2.74	„
	2 Sagittæ, ...	16 44 27.78	β Cygni,.....	27 44 53.24	+208.85	+ 3.73	+ 0.06	3.15	„
	α Sagittæ, ...	17 46 53.23	B. 2510,.....	26 53 38.82	−121.52	− 1.82	− 0.03	2.66	„
	χ Cygni,.....	33 29 36.26	φ Aquilæ, ...	11 9 17.94	− 72.77	+ 0.33	− 0.02	4.64	„
	13 Sagittæ, ...	17 14 23.15	15 Vulpeculæ, ...	27 28 27.80	−190.21	− 2.15	− 0.05	3.07	„
	17 Vulpeculæ, ...	23 19 22.54	18 Sagittæ, ...	21 17 17.38	+ 8.78	−13.95	0.00	4.79	„
23	β^1 Lyræ,.....	33 14 50.90	ω Aquilæ, ...	11 24 47.28	− 96.35	0.00	− 0.03	2.71	„
	2 Sagittæ, ...	16 44 27.80	β Cygni,.....	27 44 53.28	+212.48	− 0.84	+ 0.06	2.24	„
	α Sagittæ, ...	17 46 53.25	B. 2510,.....	26 53 38.87	−120.16	− 2.74	− 0.03	3.13	„
	χ Cygni,.....	33 29 36.32	φ Aquilæ, ...	11 9 17.96	− 73.83	+ 1.02	− 0.02	4.31	„
	13 Sagittæ, ...	17 14 23.18	15 Vulpeculæ, ...	27 28 27.86	−192.54	+ 0.33	− 0.05	3.26	„
	17 Vulpeculæ, ...	23 19 22 60	18 Sagittæ, ...	21 17 17.43	− 0.06	− 7.63	0.00	2.33	„
	P. XXIII, 4,.....	17 2 40.42	61 Pegasi, ...	27 41 38.14	−236.44	+ 0.99	− 0.07	3.76	„
	B. 3107,.....	20 0 6.58	69 Pegasi, ...	24 36 32.44	− 3.87	− 2.80	0.00	2.84	„
	15 Andromedæ,...	39 40 33.69	ι Piscium, ...	5 4 32.07	−261.90	+ 2.23	− 0.08	3.13	„
	76 Pegasi, ...	15 46 18.04	78 Pegasi, ...	28 47 55.26	+ 64.63	+ 1.43	+ 0.02	2.73	„
	26 Piscium, ...	6 30 21.67	θ Andromedæ, ...	38 7 1.31	− 25.45	− 2.71	− 0.01	3.29	„

* Hurriedly bisected at edge of field.
† Cloudy. Bisection of preceding star is doubtful.
‡ Cloudy. Bisection of following star is doubtful.

September, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
23	ρ Andromedæ, ...	37 24 19.54	45 Piscium, ...	7 7 45.94	+132.63	− 2.00	+ 0.04	3.41	J.I.P.
	π Andromedæ, ...	33 9 34.79	58 Piscium, ...	11 25 11.56	+ 54.16	− 4.83	+ 0.02	2.52	„
	62 Piscium, ...	6 44 43.62	μ Andromedæ, ...	37 56 51.67	−155.99	+ 1.34	− 0.04	2.96	„
	ε Piscium, ...	7 20 36.77	45 Andromedæ,	37 10 58.74	+148.18	− 1.88	+ 0.04	4.09	„
	47 Andromedæ,...	37 11 2.55	P. I, 85,.....	7 26 7.07	− 20.70	− 0.75	− 0.01	3.35	„
	P. I, 123, ...	7 7 34.00	P. I, 170, ...	37 26 46.90	+ 64.33	− 1.08	+ 0.02	3.72	„
	P. I, 223, ...	11 48 9.74	ε Trianguli, ...	32 47 38.14	+ 21.76	− 1.43	+ 0.01	4.28	„
	β Trianguli, ...	34 30 21.96	P. II, 85, ...	10 6 32.16	− 15.22	+ 1.85	0.00	3.69	„
	15 Trianguli,.....	34 14 37.70	85 Ceti, ...	10 18 34.47	+ 99.95	− 3.52	+ 0.03	2.55	„
	40 Arietis,.....	17 51 39.67	41 Arietis,.....	26 50 29.95	−168.00	− 3.01	− 0.05	3.75	„
	41 Arietis,.....	26 50 29.95	ρ^3 Arietis, ...	17 37 7.17	+266.56	− 1.61	+ 0.08	3.59	„
	ρ^3 Arietis, ...	17 37 7.17	56 Arietis,.....	26 52 25.55	+206.82	− 0.90	+ 0.06	2.34	„
	50 Arietis,.....	17 36 8.18	56 Arietis,.....	26 52 25.55	+237.18	− 0.84	+ 0.07	3.28	„
24	β^1 Lyræ,.....	33 14 50.91	ω Aquilæ, ...	11 24 47.28	− 97.44	+ 1.34	− 0.03	2.96	„
	2 Sagittæ, ...	16 44 27.81	β Cygni,.....	27 44 53.31	+213.57	− 0.12	+ 0.06	4.07	„
	α Sagittæ, ...	17 46 53.27	B. 2510,.....	26 53 38.92	−122.79	− 1.08	− 0.03	2.20	„
	χ Cygni,.....	33 29 36.38	φ Aquilæ, ...	11 9 17.97	− 74.62	+ 1.52	− 0.02	4.05	„
	13 Sagittæ, ...	17 14 23.22	15 Vulpeculæ, ...	27 28 27.92	−194.02	+ 2.47	− 0.05	3.97	„
	17 Vulpeculæ, ...	23 19 22.65	18 Sagittæ, ...	21 17 17.49	− 2.00	− 4.53	0.00	3.54	„
27	τ^3 Arietis, ...	20 22 45.72	64 Arietis,.....	24 21 52.29	−243.23	− 3.04	− 0.07	2.67	„
	ƒ Tauri, ...	12 35 23.11	o Persei,.....	31 57 58.29	+ 96.10	− 3.10	+ 0.03	3.73	„
	ξ Persei,.....	35 29 54.38	47 Tauri, ...	9 0 27.35	+182.37	− 0.54	+ 0.05	2.75	„
	κ^1 Tauri,.....	22 3 43.63	υ^1 Tauri.....	22 35 2.85	− 63.88	− 5.18	− 0.02	4.16	„
	B. 625, ...	16 6 37.51	P. IV, 148, ...	28 25 7.04	+145.55	− 3.16	+ 0.04	4.70	„
	π^1 Orionis, ...	6 47 10.21	4 Aurigæ, ...	37 44 10.51	+156.02	− 3.22	+ 0.04	3.20	„
	μ Aurigæ, ...	38 21 49.49	γ Orionis, ...	6 15 37.38	− 25.63	− 4.80	− 0.01	2.99	„
	35 Orionis,.....	14 14 11.43	26 Aurigæ,.....	30 25 58.26	−108.84	− 2.23	− 0.03	3.75	„
	26 Aurigæ,.....	30 25 58.26	B. 823, ...	14 7 54.35	+ 80.58	− 3.19	+ 0.03	3.72	„
	α Orionis, ...	7 23 28.08	θ Aurigæ, ...	37 12 20.24	+ 21.27	− 1.82	+ 0.01	3.62	„
	141 Tauri, ...	22 23 59.31	P. V, 338, ...	22 12 28.89	+ 3.75	− 4.62	0.00	3.23	„
28	τ^3 Arietis, ...	20 22 45.77	64 Arietis,.....	24 21 52.36	−248.67	+ 1.88	− 0.07	2.21	„
	ƒ Tauri, ...	12 35 23.13	o Persei,.....	31 57 58.37	+ 97.40	− 4.47	+ 0.03	3.71	„
	ξ Persei,.....	35 29 54.45	47 Tauri, ...	9 0 27.33	+183.52	− 2.09	+ 0.05	2.37	„
	κ^1 Tauri,.....	22 3 43.64	υ^1 Tauri,.....	22 35 2.86	− 66.54	− 3.13	− 0.02	3.56	„
	B. 625, ...	16 6 37.50	P. IV, 148, ...	28 25 7.06	+141.40	− 1.08	+ 0.04	2.64	„
	π^1 Orionis, ...	6 47 10.17	4 Aurigæ, ...	37 44 10.53	+153.72	− 0.96	+ 0.04	3.15	„
	μ Aurigæ, ...	38 21 49.49	γ Orionis, ...	6 15 37.33	− 27.11	− 3.25	− 0.01	3.04	„
	35 Orionis,.....	14 14 11.38	26 Aurigæ,.....	30 25 58.23	−111.23	− 0.42	− 0.03	3.13	„
	26 Aurigæ,.....	30 25 58.23	B. 823, ...	14 7 54.30	+ 79.34	− 1.17	+ 0.03	4.46	„
	α Orionis, ...	7 23 28.01	θ Aurigæ, ...	37 12 20.19	+ 19.91	− 0.42	+ 0.01	3.60	„

October, 1897.

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12	α Sagittæ, ...	17 46 53.87	B. 2510,.....	26 53 39.84	−120.83	− 2.80	− 0.03	3.20	J.I.P.
	χ Cygni, ...	33 29 37.52	φ Aquilæ, ...	11 9 18.50	− 76.07	+ 1.34	− 0.02	3.26	„
	13 Sagittæ, ...	17 14 24.00	15 Vulpeculæ, ...	27 28 29.10	−195.54	+ 2.47	− 0.05	3.43	„
	η Delphini,.....	12 40 47.77	49 Cygni, ...	31 56 52.35	− 37.10	+ 1.19	− 0.01	4.14	„
	P. XX, 393, ...	3 48 13.52	ν Cygni, ...	40 46 41.72	+ 48.20	− 1.14	+ 0.02	4.70	„
	τ Cygni,.....	37 36 49.25	9 Equulei, ...	6 55 26.59	+124.85	+ 0.66	+ 0.04	3.47	„
	P. XXI, 120, ...	25 44 16.70	5 Pegasi, ...	18 51 44.46	+ 12.95	− 2.26	0.00	1.27	„
	13 Lacertæ, ...	41 17 14.79	B. F. 3143, ...	3 15 56.94	+ 96.92	− 0.66	+ 0.03	2.15	„
	P. XXII, 275, ...	2 28 8.86	2 Andromedæ, ...	42 12 45.73	−135.02	+ 1.19	− 0.04	3.43	„
	β Pegasi, ...	27 31 57.36	P. XXIII, 4,.....	17 2 42.53	+ 54.01	+ 0.24	+ 0.02	4.21	„
	P. XXIII, 4,.....	17 2 42.53	61 Pegasi, ...	27 41 41.37	−234.96	− 2.18	− 0.07	4.74	„
	B. 3107,.....	20 0 9.03	69 Pegasi, ...	24 36 35.39	− 8.47	− 0.24	0.00	3.50	„
	15 Andromedæ,...	39 40 38.17	ι Piscium, ...	5 4 32.87	−261.20	− 0.81	− 0.08	3.43	„
	76 Pegasi, ...	15 46 20.07	78 Pegasi, ...	28 47 58.70	+ 63.30	+ 0.78	+ 0.02	3.49	„
	26 Piscium, ...	6 30 22.64	θ Andromedæ, ...	38 7 5.74	− 30.83	− 0.21	− 0.01	3.14	„
	ρ Andromedæ, ...	37 24 23.91	45 Piscium, ...	7 7 46.96	+128.69	− 0.33	+ 0.04	3.83	„
	π Andromedæ, ...	33 9 38.72	58 Piscium, ...	11 25 13.05	+ 38.94	+ 8.46	+ 0.02	3.31	„
	62 Piscium, ...	6 44 44.56	μ Andromedæ, ...	37 56 56.04	−154.54	− 2.53	− 0.04	3.19	„
	ε Piscium, ...	7 20 37.75	45 Andromedæ,...	37 11 2.98	+144.46	− 1.55	+ 0.04	3.32	„
	47 Andromedæ,...	37 11 6.71	P. I, 85,.....	7 26 7.99	− 26.48	+ 2.50	− 0.01	3.36	„
	P. I, 223, ...	11 48 11.02	ε Trianguli, ...	32 47 41.60	+ 16.07	− 0.24	+ 0.01	2.15	„
21	15 Andromedæ,...	39 40 40.01	ι Piscium, ...	5 4 33.11	−264.25	+ 0.84	− 0.08	3.07	„
	76 Pegasi, ...	15 46 20.84	78 Pegasi, ...	28 48 0.09	+ 65.81	− 1.97	+ 0.02	4.32	„
	26 Piscium, ...	6 30 22.98	θ Andromedæ, ...	38 7 7.65	− 32.08	− 0.06	− 0.01	3.17	„
	ρ Andromedæ, ...	37 24 25.79	45 Piscium, ...	7 7 47.32	+128.00	− 1.73	+ 0.04	2.86	„
	π Andromedæ, ...	33 9 40.42	58 Piscium, ...	11 25 13.64	+ 44.84	+ 1.88	+ 0.02	3.77	„
	62 Piscium, ...	6 44 44.89	μ Andromedæ, ...	37 56 57.98	−158.11	− 0.24	− 0.05	3.04	„
	ε Piscium, ...	7 20 38.11	45 Andromedæ,...	37 11 4.89	+142.34	− 0.51	+ 0.04	3.37	„
	47 Andromedæ,.	37 11 8.62	P. I, 85,.....	7 26 8.32	− 23.09	− 1.58	− 0.01	3.79	„
	P. I, 123, ...	7 7 35.16	P. I, 170, ...	37 26 52.82	+ 63.67	− 1.88	+ 0.02	5.80	„
	P. I, 223, ...	11 48 11.55	ε Trianguli, ...	32 47 43.23	+ 17.19	− 1.31	+ 0.01	3.28	„
	β Trianguli, ...	34 30 27.23	P. II, 85, ...	10 6 33.51	− 19.06	+ 2.20	− 0.01	3.50	„

October, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
21	15 Trianguli,	34 14 42.60	85 Ceti,	10 18 35.74	+ 95.59	− 1.17	+ 0.03	3.62	J.I.P.
	40 Arietis,	17 51 42.05	41 Arietis,	26 50 33.60	−173.20	− 1.97	− 0.05	2.59	"
	41 Arietis,	26 50 33.60	ρ^3 Arietis,	17 37 9.40	+261.66	0.00	+ 0.08	3.24	"
	ρ^3 Arietis,	17 37 9.40	56 Arietis,	26 52 28.89	+202.89	+ 1.05	+ 0.06	3.15	"
	50 Arietis,	17 36 10.37	56 Arietis,	26 52 28.89	+233.09	+ 0.30	+ 0.07	3.09	"
	τ^2 Arietis,	20 22 47.70	64 Arietis,	24 21 54.73	−248.76	+ 0.24	− 0.07	2.63	"
	f Tauri,	12 35 24.08	o Persei,	31 58 1.27	+ 90.05	+ 0.06	+ 0.03	2.82	"
	ξ Persei,	35 29 57.45	47 Tauri,	9 0 27.49	+178.62	+ 1.67	+ 0.05	2.81	"
	κ^1 Tauri,	22 3 44.91	υ^1 Tauri,	22 35 4.17	− 67.36	− 4.77	− 0.02	2.39	"
	B. 625,	16 6 38.12	P. IV, 148,	28 25 8.63	+143.28	− 3.13	+ 0.04	3.57	"
	π^1 Orionis,	6 47 9.82	4 Aurigæ,	37 44 12.44	+152.90	− 1.37	+ 0.04	2.70	"
22	π Andromedæ,	33 9 40.57	58 Piscium,	11 25 13.65	+ 43.51	+ 2.77	+ 0.02	3.41	"
	62 Piscium,	6 44 44.88	μ Andromedæ,	37 56 58.16	−155.38	− 1.73	− 0.05	4.36	"
	ϵ Piscium,	7 20 38.10	45 Andromedæ,	37 11 5.07	+141.92	− 0.15	+ 0.04	3.40	"
	47 Andromedæ,	37 11 8.79	P. I, 85,	7 26 8.32	− 25.21	− 0.69	− 0.01	2.63	"
	P. I, 123,	7 7 35.15	P. I, 170,	37 26 52.98	+ 61.85	− 1.19	+ 0.02	4.75	"
	P. I, 223,	11 48 11.57	ϵ Trianguli,	32 47 43.38	+ 13.13	+ 2.26	+ 0.01	2.88	"
	β Trianguli,	34 30 27.38	P. II, 85,	10 6 33.52	− 14.71	− 2.06	− 0.01	3.67	"
	15 Trianguli,	34 14 42.75	85 Ceti,	10 18 35.74	+ 94.83	− 0.63	+ 0.03	3.47	"
	40 Arietis,	17 51 42.08	41 Arietis,	26 50 33.70	−177.77	+ 2.29	− 0.05	2.36	"
	41 Arietis,	26 50 33.70	ρ^3 Arietis,	17 37 9.44	+259.41	+ 1.97	+ 0.08	3.03	"
	ρ^3 Arietis,	17 37 9.44	56 Arietis,	26 52 28.98	+208.46	− 3.99	+ 0.06	3.74	"
	50 Arietis,	17 36 10.42	56 Arietis,	26 52 28.98	+237.96	− 4.08	+ 0.07	3.65	"
	τ^2 Arietis,	20 22 47.75	64 Arietis,	24 21 54.81	− 62.82	− 3.97	− 0.02	4.47	"
	f Tauri,	12 35 24.09	o Persei,	31 58 1.38	+ 92.90	− 2.80	+ 0.03	2.87	"
	ξ Persei,	35 29 57.57	47 Tauri,	9 0 27.48	+181.28	− 1.64	+ 0.05	2.22	"
	κ^1 Tauri,	22 3 44.96	υ^1 Tauri,	22 35 4.22	− 75.29	+ 2.95	− 0.02	2.23	"
	90 Tauri,	12 18 31.74	P. IV, 185,	32 24 37.32	−192.48	− 7.54	− 0.05	4.46	"
	π^1 Orionis,	6 47 9.79	4 Aurigæ,	37 44 12.53	+153.50	− 2.26	+ 0.04	2.44	"
23	13 Sagittæ,	17 14 23.88	15 Vulpeculæ,	27 28 29.10	−190.63	− 2.89	− 0.05	2.92	"
	17 Vulpeculæ,	23 19 23.74	18 Sagittæ,	21 17 18.65	− 8.14	+ 0.48	0.00	3.53	"
	η Delphini,	12 40 47.79	49 Cygni,	31 56 52.81	− 38.40	+ 0.48	− 0.01	2 37	"
	P. XX, 393,	3 48 13.45	ν Cygni,	40 46 42.55	+ 51.80	− 5.51	+ 0.02	4.31	"
	P. XX, 452,	39 6 38.69	4 Equulei,	5 33 26.11	−112.60	+ 4.47	− 0.03	4.24	"
	τ Cygni,	37 36 50.20	9 Equulei,	6 55 26.66	+126.12	− 0.78	+ 0.04	3.81	"
	P. XXI, 120,	25 44 17.36	5 Pegasi,	18 51 44.98	+ 8.38	+ 1.85	0.00	1.40	"
	κ Pegasi,	25 10 45.61	P. XXI, 312,	19 21 3.51	+140.77	− 4.14	+ 0.04	1.23	"
	B. 3107,	20 0 10.07	69 Pegasi,	24 36 36.69	− 11.32	+ 0.39	0.00	2.45	"
	15 Andromedæ,	39 40 40.30	ι Piscium,	5 4 33.06	−266.40	+ 2.86	− 0.08	3.06	"
	76 Pegasi,	15 46 20.91	78 Pegasi,	28 48 0.29	+ 65.78	− 3.34	+ 0.02	3.06	"
	26 Piscium,	6 30 22.95	θ Andromedæ,	38 7 7.97	− 34.89	+ 2.59	− 0.01	3.15	"
	ρ Andromedæ,	37 24 26.10	45 Piscium,	7 7 47.30	+125.94	+ 0.78	+ 0.04	3.46	"
	π Andromedæ,	33 9 40.69	58 Piscium,	11 25 13.66	+ 43.60	+ 2.65	+ 0.02	3.45	"
	62 Piscium,	6 44 44.86	μ Andromedæ,	37 56 58.33	−158.32	− 0.48	− 0.05	2.75	"
	ϵ Piscium,	7 20 38.09	45 Andromedæ,	37 11 5.23	+146.24	− 4.11	+ 0.04	3.83	"
	47 Andromedæ,	37 11 8.95	P. I, 85,	7 26 8.30	− 21.73	− 2.20	− 0.01	4.68	"
	P. I, 123,	7 7 35.14	P. I, 170,	37 26 53.15	+ 63.54	− 1.49	+ 0.02	6.21	"
	P. I, 223,	11 48 11.58	ϵ Trianguli,	32 47 43.51	+ 20.76	− 4.92	+ 0.01	3.39	"
	β Trianguli,	34 30 27.53	P. II, 85,	10 6 33.51	− 18.28	+ 1.55	− 0.01	3.78	"
	15 Trianguli,	34 14 42.87	85 Ceti,	10 18 35.74	+ 95.17	− 0.39	+ 0.03	4.12	"
	40 Arietis,	17 51 42.12	41 Arietis,	26 50 33.79	−173.24	− 1.61	− 0.05	3.06	"
	41 Arietis,	26 50 33.79	ρ^3 Arietis,	17 37 9.48	+266.46	− 4.17	+ 0.08	4.00	"
	ρ^3 Arietis,	17 37 9.48	56 Arietis,	26 52 29.07	+205.07	− 1.14	+ 0.06	3.27	"
	50 Arietis,	17 36 10.45	56 Arietis,	26 52 29.07	+235.17	− 1.19	+ 0.07	3.81	"
	τ^2 Arietis,	20 22 47.80	64 Arietis,	24 21 54.87	−241.17	− 6.47	− 0.07	3.63	"
	f Tauri,	12 35 24.08	o Persei,	31 58 1.47	+ 90.14	− 0.12	+ 0.03	2.82	"
	90 Tauri,	12 18 31.71	P. IV, 185,	32 24 37.38	−200.62	− 0.15	− 0.06	3.72	"
	π^1 Orionis,	6 47 9.73	4 Aurigæ,	37 44 12.61	+152.69	− 1.67	+ 0.04	2.23	"
26	15 Andromedæ,	39 40 40.76	ι Piscium,	5 4 33.01	−264.71	+ 0 54	− 0.08	2.64	"
	76 Pegasi,	15 46 21.01	78 Pegasi,	28 48 0.60	+ 58.58	+ 3.43	+ 0.02	2.83	"
	26 Piscium,	6 30 22.91	θ Andromedæ,	38 7 8.43	− 29.71	− 2.71	− 0.01	3.24	"
	π Andromedæ,	33 9 41.08	58 Piscium,	11 25 13.68	+ 44.63	+ 1.28	+ 0.02	3.31	"
29	P. XX, 393,	3 48 13.49	ν Cygni,	40 46 42.97	+ 47.36	− 1.67	+ 0.02	3.94	"
	P. XX, 452,	39 6 39.12	4 Equulei,	5 33 26.17	−110.20	+ 1.05	− 0.03	3.46	"
	τ Cygni,	37 36 50.68	9 Equulei,	6 55 26.76	+123.49	+ 0.72	+ 0.04	2.97	"
	P. XXI, 120,	25 44 17.71	5 Pegasi,	18 51 45.27	+ 14.28	− 4.53	0.00	1.24	"
	κ Pegasi,	25 10 46.42	P. XXI, 312,	19 21 3.84	+140.40	− 2.71	+ 0.04	2.86	"
	P. XXII, 36,	39 12 46.91	30 Pegasi,	5 16 43.79	+205.01	+ 2.47	+ 0.06	2.89	"
	34 Pegasi,	3 52 30.93	G. 3849,	40 47 13.23	−100.61	+ 1.37	− 0.03	2.81	"
	26 Piscium,	6 30 23.03	θ Andromedæ,	38 7 9.05	− 32.08	− 0.63	− 0.01	3.33	"
	ρ Andromedæ,	37 24 27.17	45 Piscium,	7 7 47.37	+131 51	− 5.99	+ 0.04	2.88	"
	π Andromedæ,	33 9 41.64	58 Piscium,	11 25 13.86	+ 48.23	− 4 29	+ 0.01	1.70	"
	62 Piscium,	6 44 44.90	μ Andromedæ,	37 56 59.42	−160.34	+ 1.28	− 0.05	3.05	"
	ϵ Piscium,	7 20 38.12	45 Andromedæ,	37 11 6.30	+137.95	+ 3.25	+ 0.01	3.45	"
	47 Andromedæ,	37 11 10.01	P. I, 85,	7 26 8.29	− 27.57	+ 1 91	− 0.01	3.18	"
	P. I, 123,	7 7 35.11	P. I, 170,	37 26 54.19	+ 63.27	− 3.79	+ 0.02	4.15	"

October, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	ϕ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
29	P. I, 223,	11 48 11.68	ε Trianguli,	32 47 44.38	+ 17.85	− 1.91	+ 0.01	3.98	J.I.P.
	β Trianguli,	34 30 28.44	P. II, 85,	10 6 33.50	− 16.52	− 0.18	− 0.01	4.26	”
	15 Trianguli,	34 14 43.73	85 Ceti,	10 18 35.69	+ 93.47	+ 0.63	+ 0.03	3.84	”
	40 Arietis,	17 51 42.33	41 Arietis,	26 50 34.33	−174.51	− 0.42	− 0.05	3.35	”
	* 41 Arietis,	26 50 34 33	ρ^3 Arietis,	17 37 9.66	+274.21	−10.67	+ 0.08	[5.62]	”
	ρ^3 Arietis,	17 37 9.66	56 Arietis,	26 52 29.54	+217.81	−11.68	+ 0.06	[5.79]	”
	τ^2 Arietis,	20 22 48.01	64 Arietis,	24 21 55.21	−249.28	+ 0.03	− 0.07	2.29	”
	f Tauri,	12 35 23.99	o Persei,	31 58 2.00	+ 88.08	+ 2.00	+ 0.03	3.10	”
	ξ Persei,	35 29 58.26	47 Tauri,	9 0 27.10	+180.74	− 0.51	+ 0.05	2.96	”
	κ^1 Tauri,	22 3 45.03	υ^1 Tauri,	22 35 4.31	− 65.48	− 5.90	− 0.02	3.27	”
	90 Tauri,	12 18 31.41	P. IV, 185,	32 24 37.63	−198.98	− 1.79	− 0.06	2.69	”
	π^1 Orionis,	6 47 9.23	4 Aurigæ,	37 44 12.95	+155.69	− 4.05	+ 0.04	2.77	”
	μ Aurigæ,	38 21 51.55	γ Orionis,	6 15 35.92	− 37.52	+ 6.68	− 0.01	2.88	”
	35 Orionis,	14 14 10.59	26 Aurigæ,	30 25 58.79	−109.24	− 0.33	− 0.03	5.09	”
30	17 Vulpeculæ,	23 19 23.76	18 Sagittæ,	21 17 18.70	− 3.99	− 3.58	0.00	3.66	”
	η Delphini,	12 40 47.86	49 Cygni,	31 56 53.07	− 32.71	− 4.14	− 0.01	3.61	”
	P. XX, 393,	3 48 13.49	ν Cygni,	40 46 43.02	+ 47.99	− 2.03	+ 0.02	4.23	”
	P. XX, 452,	39 6 39.18	4 Equulei,	5 33 26.18	−107.03	− 2.29	− 0.03	3.33	”
	τ Cygni,	37 36 50.75	9 Equulei,	6 55 26.77	+123.79	+ 1.46	+ 0.04	4.05	”
	P. XXI, 120,	25 44 17.76	5 Pegasi,	18 51 45.32	+ 9.32	+ 0.93	0.00	1.79	”
	κ Pegasi,	25 10 46.49	P. XXI, 312,	19 21 3.89	+136.71	+ 0.57	+ 0.04	2.51	”
	P. XXII, 36,	39 12 47.05	30 Pegasi,	5 16 43.81	+206.01	+ 1.58	+ 0.06	3.08	”
	34 Pegasi,	3 52 30.96	G. 3849,	40 47 13.40	− 99.71	+ 0.54	− 0.03	2.98	”
	13 Lacertæ,	41 17 17.78	B. F. 3143,	3 15 57.10	+ 95.08	+ 0.21	+ 0.03	2.76	”
	P. XXII, 275,	2 28 8.95	2 Andromedæ,	42 12 48.99	−137.26	+ 1.55	− 0.04	3.22	”
	β Pegasi,	27 31 59.51	P. XXIII, 4,	17 2 43.84	+ 55.74	− 3.40	+ 0.02	4.04	”
	P. XXIII, 4,	17 2 43.84	61 Pegasi,	27 41 43.60	−237.38	− 2.92	− 0.07	3.35	”
	44 Andromedæ,	41 32 34.15	89 Piscium,	3 4 48.08	− 31.02	+ 2.47	− 0.01	2.55	”
	90 Piscium,	26 43 52.74	P. I, 110,	17 56 33.28	−118.65	− 1.25	− 0.03	3.08	”
	P. I, 123,	7 7 35.15	P. I, 170,	37 26 54.41	+ 66.60	− 5.87	+ 0.02	5.53	”
	P. I, 223,	11 48 11.75	ε Trianguli,	32 47 44.58	+ 15.28	+ 0.51	+ 0.01	3.97	”
	β Trianguli,	34 30 28.65	P. II, 85,	10 6 33.55	− 19.79	+ 1.91	− 0.01	3.21	”
	15 Trianguli,	34 14 43.93	85 Ceti,	10 18 35.75	+ 92.02	+ 2.59	+ 0.03	4.48	”
	40 Arietis,	17 51 42.43	41 Arietis,	26 50 34.48	−175.26	+ 0 36	− 0.05	3.51	”
	41 Arietis,	26 50 34.48	ρ^3 Arietis,	17 37 9.75	+268.49	− 6.59	+ 0.08	4.09	”
	ρ^3 Arietis,	17 37 9.75	56 Arietis,	26 52 29.68	+211.94	− 8.28	+ 0.06	3.44	”
	50 Arietis,	17 36 10.71	56 Arietis,	26 52 29.68	+241.47	− 8.28	+ 0.07	3.45	”
	τ^2 Arietis,	20 22 48.11	64 Arietis,	24 21 55.33	−249.18	+ 0.72	− 0.07	3.19	”
	f Tauri,	12 35 24.04	o Persei,	31 58 2.16	+ 94.23	− 4.11	+ 0.03	3.25	”

November, 1897.

		° ′ ″		° ′ ″	″	″	″	″	
1	ρ Andromedæ,	37 24 27.78	45 Piscium,	7 7 47.50	+123.91	+ 1.17	+ 0.04	2.76	J.I.P.
	π Andromedæ,	33 9 42.19	58 Piscium,	11 25 14.07	+ 44.27	+ 2.03	+ 0.02	4.45	”
	62 Piscium,	6 44 45.02	μ Andromedæ,	37 57 0.08	−161.74	+ 1.70	− 0.05	2.46	”
	ε Piscium,	7 20 38.26	45 Andromedæ,	37 11 6.95	+138.62	+ 2.44	+ 0.04	3.70	”
	47 Andromedæ,	37 11 10.67	P. I, 85,	7 26 8.43	− 25.15	− 0.78	− 0.01	3.61	”
	P. I, 123,	7 7 35.23	P. I, 170,	37 26 54.86	+ 63.27	− 2.62	+ 0.02	5.72	”
	P. I, 223,	11 48 11.89	ε Trianguli,	32 47 44.97	+ 17.85	− 2.06	+ 0.01	4.23	”
	β Trianguli,	34 30 29.06	P. II, 85,	10 6 33.66	− 20.61	+ 2.65	− 0.01	3.39	”
	15 Trianguli,	34 14 44.33	85 Ceti,	10 18 35.88	+ 95.44	− 1.17	+ 0.03	4.41	”
	40 Arietis,	17 51 42.62	41 Arietis,	26 50 34.78	−173.11	− 2.89	− 0.05	2.65	”
	41 Arietis,	26 50 34.78	ρ^3 Arietis,	17 37 9.94	+263.14	− 1.64	+ 0.08	3.94	”
	ρ^3 Arietis,	17 37 9.94	56 Arietis,	26 52 29.97	+205.19	− 1.28	+ 0.06	3.92	”
	τ^2 Arietis,	20 22 48.31	64 Arietis,	24 21 55.58	−246.46	− 1.28	− 0.07	4.14	”
	f Tauri,	12 35 24.14	o Persei,	31 58 2.48	+ 93.71	− 4.53	+ 0.03	2.52	”
2	ρ Andromedæ,	37 24 27.91	45 Piscium,	7 7 47.48	+124.91	+ 0.75	+ 0.04	3.40	”
	π Andromedæ,	33 9 42.31	58 Piscium,	11 25 14.07	+ 49.41	− 3.70	+ 0.02	3.92	”
	62 Piscium,	6 44 45.00	μ Andromedæ,	37 57 0.23	−158.20	− 0.87	− 0.05	3.49	”
	ε Piscium,	7 20 38.24	45 Andromedæ,	37 11 7.11	+142.07	− 0.81	+ 0.04	3.98	”
	47 Andromedæ,	37 11 10.83	P. I, 85,	7 26 8.42	− 25.63	+ 0.30	− 0.01	4.28	”
	P. I, 123,	7 7 35.21	P. I, 170,	37 26 55.02	+ 58.37	+ 1.17	+ 0.02	4.68	”
	P. I, 223,	11 48 11.89	ε Trianguli,	32 47 45.10	+ 16.07	− 1.02	+ 0.01	3.55	”
	15 Trianguli,	34 14 44.47	85 Ceti,	10 18 35.86	+ 92.47	+ 0.93	+ 0.03	3.59	”
	40 Arietis,	17 51 42.66	41 Arietis,	26 50 34.87	−172.45	− 3.01	− 0.05	3.26	”
	41 Arietis,	26 50 34.87	ρ^3 Arietis,	17 37 9.97	+269.76	− 8.73	+ 0.08	3.53	”
	ρ^3 Arietis,	17 37 9.97	56 Arietis,	26 52 30.06	+211.49	− 7.96	+ 0.06	3.61	”
	50 Arietis,	17 36 10.95	56 Arietis,	26 52 30.06	+241.59	− 8.08	+ 0.07	4.08	”
	τ^2 Arietis,	20 22 48.37	64 Arietis,	24 21 55.66	−247.19	− 0.51	− 0.07	4.25	”
	f Tauri,	12 35 24.14	o Persei,	31 58 2.59	+ 89.93	+ 0.60	+ 0.03	3.92	”
	ξ Persei,	35 29 58.93	47 Tauri,	9 0 27.13	+177.02	+ 2.53	+ 0.05	2.63	”
	κ^1 Tauri,	22 3 45.33	υ^1 Tauri,	22 35 4.62	− 70.51	− 0.75	− 0.02	3.70	”
	B. 625,	16 6 38.10	P. IV, 148,	28 25 9.31	+143.16	− 3.19	+ 0.04	3.72	”
	π^1 Orionis,	6 47 9.18	4 Aurigæ,	37 44 13.48	+151.14	+ 0.33	+ 0.04	2.84	”
	μ Aurigæ,	38 21 52.04	γ Orionis,	6 15 35.77	− 27.84	− 2.47	− 0.01	3.59	”

* The level readings indicate a slip of the clamp during the observation of ρ^3 Arietis.

November, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
2	35 Orionis,	14 14 10.57	26 Aurigæ,	30 25 59.05	−108.09	− 2.74	− 0.03	3.95	J.I.P.
	α Orionis,	7 23 26.15	θ Aurigæ,	37 12 20.93	+ 22.15	− 1.82	+ 0.01	3.88	„
3	η Delphini,	12 40 47.63	49 Cygni,	31 56 52.93	− 36.16	− 0.84	− 0.01	3.27	„
	P. XX, 393,	3 48 13.29	ν Cygni,	40 46 43.00	+ 45.57	+ 0.30	+ 0.02	4.04	„
	P. XX, 452,	39 6 39.16	4 Equulei,	5 33 25.99	−110.05	+ 1.58	− 0.03	4.08	„
	τ Cygni,	37 36 50.79	9 Equulei,	6 55 26.62	+126.67	− 2.03	+ 0.04	3.38	„
	P. XXI, 120,	25 44 17.74	5 Pegasi,	18 51 45.29	+ 10.20	+ 0.39	0.00	2.11	„
	κ Pegasi,	25 10 46.54	P. XXI, 312,	19 21 3.91	+140.40	− 2.03	+ 0.04	3.63	„
	P. XXII, 36,	39 12 47.36	30 Pegasi,	5 16 43.74	+206.28	+ 0.72	+ 0.06	2.61	„
	34 Pegasi,	3 52 30.87	G. 3849,	40 47 13.83	− 96.92	− 0.72	− 0.03	4.68	„
	13 Lacertæ,	41 17 18.24	B. F. 3143,	3 15 57.03	+ 99.19	− 4.23	+ 0.03	2.62	„
	P. XXII, 275,	2 28 8.88	2 Andromedæ,	42 12 49.54	−135.26	− 0.33	− 0.04	3.58	„
	ρ Andromedæ,	37 24 28.05	45 Piscium,	7 7 47.46	+124.76	+ 0.99	+ 0.04	3.55	„
	π Andromedæ,	33 9 42.44	58 Piscium,	11 25 14.08	+ 45.24	− 0.18	+ 0.02	3.34	„
	62 Piscium,	6 44 44.98	μ Andromedæ,	37 57 0.38	−161.74	+ 1.85	− 0.05	2.74	„
	ε Piscium,	7 20 38.23	45 Andromedæ,	37 11 7.26	+140.89	− 0.03	+ 0.04	3.65	„
	47 Andromedæ,	37 11 10.99	P. I, 85,	7 26 8.41	− 25.42	+ 0.30	− 0.01	4.57	„
	P. I, 123,	7 7 35.18	P. I, 170,	37 26 55.18	+ 58.73	+ 0.27	+ 0.02	4.20	„
	P. I, 223,	11 48 11.89	ε Trianguli,	32 47 45.23	+ 19.85	− 4.14	+ 0.01	4.28	„
	β Trianguli,	34 30 29.34	P. II, 85,	10 6 33.64	− 14.34	− 1.58	− 0.01	5.56	„
	15 Trianguli,	34 14 44.60	85 Ceti,	10 18 35.84	+ 95.68	− 1.22	+ 0.03	4.71	„
	40 Arietis,	17 51 42.70	41 Arietis,	26 50 34.96	−173.26	− 2.03	− 0.05	3.49	„
	41 Arietis,	26 50 34.96	ρ^3 Arietis,	17 37 10.01	+267.95	− 5.69	+ 0.08	4.83	„
4	η Delphini,	12 40 47.55	49 Cygni,	31 56 52.86	− 39.85	+ 2.35	− 0.01	2.69	„
	P. XX, 393,	3 48 13.22	ν Cygni,	40 46 42.96	+ 46.30	+ 0.27	+ 0.02	4.68	„
	P. XX, 452,	39 6 39.13	4 Equulei,	5 33 25.92	−103.67	− 3.85	− 0.03	4.98	„
	τ Cygni,	37 36 50.76	9 Equulei,	6 55 26.55	+127.15	− 1.70	+ 0.04	4.14	„
	P. XXI, 120,	25 44 17.70	5 Pegasi,	18 51 45.25	+ 9.50	+ 2.18	0.00	3.16	„
	κ Pegasi,	25 10 46.51	P. XXI, 312,	19 21 3.87	+139.95	− 1.46	+ 0.04	3.72	„
	P. XXII, 36,	39 12 47.39	30 Pegasi,	5 16 43.68	+208.52	− 0.18	+ 0.06	3.93	„
	34 Pegasi,	3 52 30.81	G. 3849,	40 47 13.90	−100.67	− 0.48	− 0.03	1.18	„
	13 Lacertæ,	41 17 18.31	B. F. 3143,	3 15 56.97	+ 93.14	+ 2.12	+ 0.03	2.93	„
	P. XXII, 275,	2 28 8.81	2 Andromedæ,	42 12 49.63	−130.81	− 4.77	− 0.04	3.60	„
	ρ Andromedæ,	37 24 28.18	45 Piscium,	7 7 47.44	+125.73	+ 0.06	+ 0.04	3.64	„
	π Andromedæ,	33 9 42.56	58 Piscium,	11 25 14.08	+ 44.90	+ 0.21	+ 0.02	3.45	„
	62 Piscium,	6 44 44.96	μ Andromedæ,	37 57 0.54	−158.80	+ 0.12	− 0.05	4.02	„
	ε Piscium,	7 20 38.21	45 Andromedæ,	37 11 7.42	+141.49	− 0.27	+ 0.04	4.08	„
	47 Andromedæ,	37 11 11.15	P. I, 85,	7 26 8.39	− 26.11	− 0.60	− 0.01	3.05	„
	P. I, 123,	7 7 35.15	P. I, 170,	37 26 55.34	+ 58.92	+ 0.15	+ 0.02	4.34	„
	P. I, 223,	11 48 11.90	ε Trianguli,	32 47 45.36	+ 13.74	+ 0.72	0.00	3.09	„
	β Trianguli,	34 30 29.47	P. II, 85,	10 6 33.63	− 18.91	+ 0.90	− 0.01	3.53	„
	15 Trianguli,	34 14 44.74	85 Ceti,	10 18 35.82	+ 90.90	+ 2.86	+ 0.03	4.07	„
	40 Arietis,	17 51 42.73	41 Arietis,	26 50 35.05	−168.27	− 6.77	− 0.05	3.80	„
	41 Arietis,	26 50 35.05	ρ^3 Arietis,	17 37 10.05	+264.98	− 3.88	+ 0.08	3.73	„
	ρ^3 Arietis,	17 37 10.05	56 Arietis,	26 52 30.24	+204.28	− 1.79	+ 0.06	2 69	„
	50 Arietis,	17 36 11.04	56 Arietis,	26 52 30.24	+234.27	− 1.79	+ 0.07	3.19	„
	τ^2 Arietis,	20 22 48.49	64 Arietis,	24 21 55.83	−246.52	− 1.49	− 0.07	4.08	„
	f Tauri,	12 35 24.14	o Persei,	31 58 2.82	+ 89.75	+ 0.87	+ 0.03	4.13	„
	ξ Persei,	35 29 59.16	47 Tauri,	9 0 27.06	+178.02	+ 1.49	+ 0.05	2.67	„
	κ^1 Tauri,	22 3 45.39	υ^1 Tauri,	22 35 4.69	− 61.52	−10.85	− 0.02	2.65	„
	B. 625,	16 6 38.12	P. IV. 148,	28 25 9.46	+142.61	− 3.34	+ 0.04	3.10	„
	π^1 Orionis,	6 47 9.06	4 Aurigæ,	37 44 13.70	+154.93	− 3.70	+ 0.04	2.65	„
	μ Aurigæ,	38 21 52.25	γ Orionis,	6 15 35.65	− 32.26	+ 1.49	− 0.01	3.17	„
	35 Orionis,	14 14 10.52	26 Aurigæ,	30 25 59.15	−112.08	+ 0.60	− 0.03	3.33	„
	26 Aurigæ,	30 25 59.15	B. 823,	14 7 53.24	+ 79.52	− 1.79	+ 0.03	3.95	„
	α Orionis,	7 23 26.03	θ Aurigæ,	37 12 21.06	+ 20.88	0.00	+ 0.01	4.44	„
5	η Delphini,	12 40 47.48	49 Cygni,	31 56 52.79	− 42.85	+ 6.11	− 0.01	3.38	„
	P. XX, 393,	3 48 13.14	ν Cygni,	40 46 42.92	+ 51.50	− 4.83	+ 0.02	4.72	„
	P. XX, 452,	39 6 39.09	4 Equulei,	5 33 25.85	−107.03	− 1.94	− 0.03	3.47	„
	P. I, 123,	7 7 35.13	P. I, 170,	37 26 55.49	+ 53.89	+ 4.98	+ 0.02	4.20	„
	P. I, 223,	11 48 11.90	ε Trianguli,	32 47 45.48	+ 14.07	+ 0.33	0.00	3.09	„
	β Trianguli,	34 30 29.61	P. II, 85,	10 6 33.62	− 21.12	+ 2.56	− 0.01	3.05	„
	15 Trianguli,	34 14 44.88	85 Ceti,	10 18 35.80	+ 94.47	− 1.28	+ 0.03	3.56	„
	40 Arietis,	17 51 42.77	41 Arietis,	26 50 35.15	−173.09	− 3.34	− 0.05	2.48	„
	41 Arietis,	26 50 35.15	ρ^3 Arietis,	17 37 10.08	+267.74	− 5.45	+ 0.08	4.98	„
	ρ^3 Arietis,	17 37 10.08	56 Arietis,	26 52 30.33	+212.00	− 8.02	+ 0.06	4.25	„
	f Tauri,	12 35 24.14	o Persei,	31 58 2.93	+ 94.23	− 4.47	+ 0.03	3.32	„
	ξ Persei,	35 29 59.28	47 Tauri,	9 0 27.02	+180.62	− 0.39	+ 0.05	3.43	„
	κ^1 Tauri,	22 3 45.42	υ^1 Tauri,	22 35 4.72	− 73.11	+ 1.49	− 0.02	3.43	„
12	13 Lacertæ,	41 17 18.99	B. F. 3143,	3 15 56.72	+ 91.57	+ 3.34	+ 0.03	2.80	„
	P. XXII, 275,	2 28 8.54	2 Andromedæ,	42 12 50.44	−135.35	− 0.63	− 0.04	3.47	„
	β Pegasi,	27 32 0.27	P. XXIII, 4,	17 2 44.12	+ 58.52	− 4.95	+ 0.02	5.79	„
	P. XXIII, 4,	17 2 44.12	61 Pegasi,	27 41 44.45	−235.23	− 5.30	− 0.07	3.68	„
	B. 3107,	20 0 11 13	69 Pegasi,	24 36 38.19	− 11.80	+ 0.69	0.00	3.55	„
23	P. XXII, 36,	39 12 47.84	30 Pegasi,	5 16 42.89	+204.43	+ 2.86	+ 0.06	2.71	„
	34 Pegasi,	3 52 29.99	G. 3849,	40 47 14.86	− 95.80	− 3.46	− 0.03	3.14	„

November, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
23	13 Lacertæ, ...	41 17 19.36	B. F. 3143, ...	3 15 56.15	+ 94.95	− 0.33	+ 0.03	2.41	J.I.P.
	P. XXII, 275, ...	2 28 7.96	2 Andromedæ, ...	42 12 51.03	−131.42	− 2.89	− 0.04	5.14	„
	β Pegasi, ...	27 32 0.40	P. XXIII, 4,.....	17 2 43.96	+ 59.19	− 7.01	+ 0.02	4.38	„
	P. XXIII, 4,.....	17 2 43.96	61 Pegasi, ...	27 41 44.66	−239.47	− 1.55	− 0.07	3.22	„
	B. 3107,.....	20 0 11.12	69 Pegasi, ...	24 36 38.36	− 11.50	− 0.90	0.00	2.34	„
	15 Andromedæ,...	39 40 43.95	ι Piscium, ...	5 4 32.35	−262.89	− 2.09	− 0.08	3.09	„
	76 Pegasi, ...	15 46 21.60	78 Pegasi, ...	28 48 2.70	+ 67.75	− 6.47	+ 0.02	3.45	„
	ε Piscium, ...	7 20 37.63	45 Andromedæ,...	37 11 9.81	+144.20	− 5.66	+ 0.04	2.50	„
	47 Andromedæ,...	37 11 13.60	P. I, 85,.....	7 26 7.77	− 23.60	− 4.32	− 0.01	2.75	„
	P. I, 123, ...	7 7 34.52	P. I, 170, ...	37 26 57.92	+ 57.43	+ 0.78	+ 0.02	4.45	„
	P. I, 223, ...	11 48 11.70	ε Trianguli, ...	32 47 47.47	+ 14.10	+ 0.27	0.00	3.96	„
	β Trianguli.	34 30 31.78	P. II, 85, ...	10 6 33.16	− 19.18	+ 0.30	− 0.01	3.58	„
	15 Trianguli,.....	34 14 47.01	85 Ceti, ...	10 18 35.31	+ 95.50	− 2.03	+ 0.03	4.66	„
	40 Arietis,.....	17 51 43.09	41 Arietis, ...	26 50 36.45	−174.20	− 1.46	− 0.05	4.06	„
	* 41 Arietis, ...	26 50 36.45	ρ^3 Arietis, ...	17 37 10.33	+273.82	−11.68	+ 0.08	[5.61]	„
	ρ^3 Arietis, ...	17 37 10.33	56 Arietis,.....	26 52 31.56	+215.45	−11.38	+ 0.06	[5.07]	„
	50 Arietis,.....	17 36 11.28	56 Arietis,.....	26 52 31.56	+244.31	−11.44	+ 0.07	4.36	„
	τ^1 Arietis, ...	20 22 48.95	64 Arietis,.....	24 21 56.76	−246.49	− 2.62	− 0.07	3.68	„
	f Tauri, ...	12 35 23.67	o Persei,.....	31 58 4.55	+ 87.24	+ 1.58	+ 0.03	2.96	„
	ξ Persei,.....	35 30 1.18	47 Tauri, ...	9 0 25.90	+178.65	+ 0.75	+ 0.05	2.99	„
	κ^1 Tauri,.....	22 3 45.66	υ^1 Tauri,.....	22 35 5.01	− 71.84	− 0.15	− 0.02	3.32	„
	B. 625,.....	16 6 37.62	P. IV, 148, ...	28 25 10.29	+141.70	− 2.29	+ 0.04	3.41	„
	π^1 Orionis, ...	6 47 7.42	4 Aurigæ, ...	37 44 15.35	+154.23	− 2.89	+ 0.04	2.76	„
	μ Aurigæ, ...	38 21 53.78	γ Orionis, ...	6 15 33.71	− 30.35	+ 0.39	− 0.01	3.78	„
	35 Orionis,.....	14 14 9.33	26 Aurigæ,.....	30 25 59.55	−114.32	+ 2.32	− 0.03	2.41	„
	26 Aurigæ,.....	30 25 59.55	B. 823, ...	14 7 51.96	+ 86.87	− 9.69	+ 0.03	2.97	„
	α Orionis, ...	7 23 24.00	θ Aurigæ, ...	37 12 21.83	+ 16.91	+ 3.49	+ 0.01	3.32	„
	χ^4 Orionis, ...	20 8 31.60	5 Geminorum, ...	24 36 36.88	+ 38.94	− 0.18	+ 0.01	3.01	„
	9 Geminorum, ...	23 46 35.49	15 Geminorum, ...	20 51 11.00	− 40.28	+ 1.79	− 0.01	4.75	„
	49 Aurigæ,.....	28 6 8.61	γ Geminorum, ...	16 29 15.01	+ 36.58	− 3.04	+ 0.01	5.36	„
	25 Geminorum, ...	28 17 28.37	33 Geminorum, ...	16 19 10.77	− 7.60	+ 1.52	0.00	3.49	„
	36 Geminorum, ...	21 52 55.82	44 Geminorum, ...	22 47 26.08	−119.34	+ 2.38	− 0.03	3.96	„
24	κ Pegasi, ...	25 10 46.04	P. XXI, 312, ...	19 21 3.32	+139.04	− 1.08	+ 0.04	2.68	„
	P. XXII, 36,.....	39 12 47.88	30 Pegasi, ...	5 16 42.89	+205.40	+ 1.58	+ 0.06	2.42	„
	34 Pegasi, ...	3 52 29.99	G. 3849,.....	40 47 14.92	− 96.16	− 3.13	− 0.03	3.14	„
	13 Lacertæ, ...	41 17 19.42	B. F. 3143, ...	3 15 56.15	+ 89.81	+ 3.52	+ 0.03	1.14	„
	P. XXII, 275, ...	2 28 7.95	2 Andromedæ,....	42 12 51.11	−140.01	+ 3.25	− 0.04	2.73	„
	β Pegasi, ...	27 32 0.45	P. XXIII, 4,.....	17 2 43.99	+ 64.51	−12.58	+ 0.02	4.17	„
	P. XXIII, 4,.....	17 2 43.99	61 Pegasi, ...	27 41 44.71	−238.84	− 2.06	− 0.07	3.38	„
	B. 3107,.....	20 0 11.16	69 Pegasi, ...	24 36 38.41	− 12.68	+ 1.19	0.00	3.29	„
	15 Andromedæ,...	39 40 44.05	ι Piscium, ...	5 4 32.35	−264.62	− 0.06	− 0.08	3.44	„
	76 Pegasi, ...	15 46 21.63	78 Pegasi, ...	28 48 2.77	+ 61.24	− 0.36	+ 0.02	3.10	„
	26 Piscium, ...	6 30 22.45	θ Andromedæ, ...	38 7 12.25	− 34.83	− 0.57	− 0.01	1.94	„
	ρ Andromedæ, ...	37 24 30.33	45 Piscium, ...	7 7 46.87	+124.25	+ 0.39	+ 0.04	3.28	„
	π Andromedæ, ...	33 9 44.45	58 Piscium, ...	11 25 13.91	+ 43.82	+ 0.06	+ 0.01	3.07	„
	62 Piscium, ...	6 44 44.34	μ Andromedæ, ...	37 57 3.04	−157.10	− 3.22	− 0.05	3.32	„
	τ^2 Arietis, ...	20 22 48.98	64 Arietis,.....	24 21 56.80	−250.49	− 0.60	− 0.07	1.73	„
	f Tauri, ...	12 35 23.64	o Persei,.....	31 58 4.63	+ 88.75	+ 0.69	+ 0.03	3.60	„
	ξ Persei,.....	35 30 1.26	47 Tauri, ...	9 0 25.81	+177.20	+ 1.82	+ 0.05	2.61	„
	κ^1 Tauri,.....	22 3 45.65	υ^1 Tauri,.....	22 35 5.00	− 69.08	− 2.44	− 0.02	3.78	„
	B. 625,.....	16 6 37.58	P. IV, 148, ...	28 25 10.32	+138.56	+ 1.61	+ 0.04	4.16	„
	π^1 Orionis, ...	6 47 7.30	4 Aurigæ, ...	37 44 15.43	+152.02	− 0.51	+ 0.04	2.92	„
	μ Aurigæ, ...	38 21 53.85	γ Orionis, ...	6 15 33.58	− 35.25	+ 3.91	− 0.01	2.37	„
	35 Orionis,.....	14 14 9.24	26 Aurigæ,.....	30 25 59.56	−110.75	+ 0.03	− 0.03	3.65	„
	α Orionis, ...	7 23 23.86	θ Aurigæ, ...	37 12 21.86	+ 23.72	− 4.20	+ 0.01	2.39	„
	χ^4 Orionis, ...	20 8 31.53	5 Geminorum, ...	24 36 36.83	+ 38.16	+ 1.11	+ 0.01	3.46	„
	9 Geminorum, ...	23 46 35.42	15 Geminorum, ...	20 51 10.91	− 31.02	− 7.57	− 0.01	4.56	„
	49 Aurigæ,.....	28 6 8.56	γ Geminorum, ...	16 29 14.89	+ 30.29	+ 2.35	+ 0.01	4.37	„
	25 Geminorum, ...	28 17 28.30	33 Geminorum, ...	16 19 10.64	− 4.93	− 0.87	0.00	3.67	„
25	κ Pegasi, ...	25 10 46.03	P. XXI, 312,.....	19 21 3.31	+138.86	+ 0.54	+ 0.04	4.11	„
	P. XXII, 36,.....	39 12 47.91	30 Pegasi, ...	5 16 42.89	+207.88	− 0.27	+ 0.06	3.07	„
	34 Pegasi, ...	3 52 29.99	G. 3849,.....	40 47 14.98	− 99.10	− 0.66	− 0.03	2.70	„
	13 Lacertæ, ...	41 17 19.49	B. F. 3143, ...	3 15 56.15	+ 94.47	+ 0.06	+ 0.03	2.38	„
	β Pegasi, ...	27 32 0.50	P. XXIII, 4,.....	17 2 44.01	+ 53.13	− 0.57	+ 0.02	4.83	„
	P. XXIII, 4,.....	17 2 44.01	61 Pegasi, ...	27 41 44.77	−237.90	− 1.55	− 0.07	4.87	„
	B. 3107,.....	20 0 11.19	69 Pegasi, ...	24 36 38.46	− 15.83	+ 2.29	0.00	1.29	„
	15 Andromedæ,...	39 40 44.15	ι Piscium, ...	5 4 32.35	−265.28	− 0.30	− 0.08	2.59	„
	76 Pegasi, ...	15 46 21.66	78 Pegasi, ...	28 48 2.84	+ 56.22	+ 4.50	+ 0.02	2.99	„
	26 Piscium, ...	6 30 22.46	θ Andromedæ, ...	38 7 12.36	− 31.38	− 2.98	− 0.01	3.04	„
	50 Arietis, ...	17 36 11.30	56 Arietis,.....	26 52 31.69	+229.82	+ 3.40	+ 0.07	4.79	„
	τ^2 Arietis, ...	20 22 49.00	64 Arietis,.....	24 21 56.85	−244.13	− 5.63	− 0.07	3.09	„
	f Tauri, ...	12 35 23.61	o Persei,.....	31 58 4.71	+ 88.08	+ 0.24	+ 0.03	2.51	„
	41 Tauri, ...	27 19 37.97	δ^1 Tauri, ...	17 18 20.51	− 40.37	− 6.14	− 0.02	2.71	„
	P. IV, 69, ...	31 12 42.34	83 Tauri, ...	13 30 16.41	−187.21	− 7.96	− 0.05	4.15	„
	B. 625, ...	16 6 37.54	P. IV, 148, ...	28 25 10.35	+141.19	− 0.66	+ 0.04	4.52	„
	π^1 Orionis, ...	6 47 7.19	4 Aurigæ, ...	37 44 15.51	+148.15	+ 2.09	+ 0.04	1.63	„

* The level readings indicate a slip of the clamp during the observation of ρ^3 Arietis.

November, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
	μ Aurigæ, ...	38 21 53.92	γ Orionis, ...	6 15 33.45	− 29.65	− 1.67	− 0.01	2.35	J.I.P.
	35 Orionis,.....	14 14 9.15	26 Aurigæ,.....	30 25 59.56	−110.33	− 0.36	− 0.03	3.64	„
	26 Aurigæ,.....	30 25 59.56	B. 823, ...	14 7 51.77	+ 77.10	+ 0.72	+ 0.03	3.52	„
	α Orionis, ...	7 23 23.72	θ Aurigæ, ...	37 12 21.88	+ 19.03	+ 1.61	+ 0.01	3.45	„
	χ^4 Orionis, ...	20 8 31.45	5 Geminorum, ...	24 36 36.77	+ 40.67	− 1.70	+ 0.01	3.09	„
	9 Geminorum, ...	23 46 35.36	15 Geminorum, ...	20 51 10.82	− 33.04	− 6.50	− 0.01	3.54	„
	49 Aurigæ,.....	28 6 8.50	γ Geminorum, ...	16 29 14.77	+ 30.17	+ 1.17	+ 0.01	2.99	„
	25 Geminorum, ...	28 17 28.24	33 Geminorum, ...	16 19 10.51	− 11.14	+ 6.02	0.00	4.25	„
26	β Pegasi.	27 32 0.54	P. XXIII, 4,.....	17 2 44.03	+ 49.69	+ 2.18	+ 0.02	4.18	„
	P. XXIII, 4,.....	17 2 44 03	61 Pegasi, ...	27 41 44.81	−238.41	− 1.31	− 0.07	4.63	„
	B. 3107,.....	20 0 11.23	69 Pegasi, ...	24 36 38.51	− 14.07	+ 1.37	0.00	2.17	„
	15 Andromedæ,...	39 40 44.25	ι Piscium, ...	5 4 32.35	−260.20	− 5.07	− 0.08	2.95	„
	76 Pegasi, ...	15 46 21.68	78 Pegasi, ...	28 48 2.91	+ 58.88	+ 1.46	+ 0.02	2.66	„
	26 Piscium, ...	6 30 22.46	θ Andromedæ, ...	38 7 12.48	− 35.62	+ 1.91	− 0.01	3.75	„
	64 Aurigæ,.....	41 3 48.43	δ^2 Canis Minoris,.	3 30 32.96	+ 62.46	− 0.06	+ 0.02	3.12	„
	φ Geminorum, ...	27 1 45.24	3 Cancri, ...	17 35 17.67	− 17.85	− 0.54	− 0.01	3.05	„
	B. 1158, ...	22 44 57.43	μ^2 Cancri, ...	21 52 39.43	− 33.56	− 0.72	− 0.01	4.14	„
	P. VIII, 67, ...	7 53 51.25	32 Lyncis, ...	36 46 50.37	−129.06	+ 2.71	− 0.04	4.42	„
	ρ^1 Cancri, ...	28 38 26.63	o^2 Cancri, ...	15 58 21.69	− 7.50	− 2.74	0.00	3.92	„
	66 Cancri, ...	32 38 57.00	P. IX, 35, ...	11 55 41.94	+ 57.52	− 2.15	+ 0.02	4.86	„
	83 Cancri, ...	18 8 13.18	B. 1319,.....	26 21 18.28	+213.54	− 5.04	+ 0.06	4.29	„
	ψ Leonis, ...	14 29 15.39	P. IX, 221, ...	30 7 52.17	− 14.04	− 5.21	− 0.01	4.52	„
	20 Leonis Minoris,	32 25 22.61	P. IX, 237, ...	12 7 15.35	+110.69	+ 4.08	+ 0.03	3.78	„
	16 Sextantis,.....	6 40 14.78	G. 1619,.....	37 54 5.10	+ 60.43	+ 3.67	+ 0.02	4.06	„
	30 Leonis Minoris,	34 18 45.99	45 Leonis, ...	10 16 54.88	+ 23.45	+ 0.93	− 0.01	4.83	„
28	64 Aurigæ,.....	41 3 48.52	δ^2 Canis Minoris,.	3 30 32.69	+ 63.48	+ 0.63	+ 0.02	4.73	„
	φ Geminorum, ...	27 1 45.13	3 Cancri, ...	17 35 17.47	− 18.76	+ 0.57	− 0.01	3.10	„
	B. 1158,.....	22 44 57.26	μ^2 Cancri, ...	21 52 39.25	− 38.52	+ 4.14	− 0.01	3.87	„
	P. VIII, 67, ...	7 53 50.94	32 Lyncis, ...	36 46 50.25	−125.33	− 1.37	− 0.04	3.86	„
	ρ^1 Cancri, ...	28 38 26.41	o^2 Cancri, ...	15 58 21.39	− 9.92	+ 0.06	0.00	4.04	„
	66 Cancri, ...	32 38 56.79	P. IX, 35, ...	11 55 41.60	+ 54.41	− 0.78	+ 0.02	2.84	„
	83 Cancri, ...	18 8 12.85	B. 1319,.....	26 21 17.98	+210.06	− 1.67	+ 0.06	3.87	„
	ψ Leonis, ...	14 29 15.02	P. IX, 221, ...	30 7 51.82	− 33.68	+13.11	− 0.01	2.83	„
	20 Leonis Minoris,	32 25 22.26	P. IX, 237, ...	12 7 14.94	+114.93	+ 0.33	+ 0.03	3.89	„
	16 Sextantis,.....	6 40 14.36	G. 1619,.....	37 54 4.75	+ 61.31	+ 2.44	+ 0.02	3.33	„
	30 Leonis Minoris,	34 18 45.59	45 Leonis, ...	10 16 54.45	+ 24.15	+ 0.12	+ 0.01	4.30	„
30	B. 1158,.....	22 44 57.14	μ^2 Cancri, ...	21 52 39.12	− 30.71	− 3.85	− 0.01	3.56	„
	P. VIII, 67, ...	7 53 50.68	32 Lyncis, ...	36 46 50.20	−126.70	− 1.94	− 0.04	1.76	„
	ρ^1 Cancri, ...	28 38 26.26	o^2 Cancri, ...	15 58 21.15	− 10.41	+ 0.84	0.00	4.13	„
	66 Cancri, ...	32 38 56.65	P. IX, 35, ...	11 55 41.32	+ 55.44	− 1.11	+ 0.02	3.34	„
	83 Cancri, ...	18 8 12.60	B. 1319,.....	26 21 17.77	+213.90	− 5.18	+ 0.06	3.97	„
	ψ Leonis, ...	14 29 14.72	P. IX, 221, ...	30 7 51.60	− 19.85	− 0.96	− 0.01	2.34	„
	20 Leonis Minoris,	32 25 22.00	P. IX, 237, ...	12 7 14.62	+115.98	+ 0.09	+ 0.03	4.41	„
	16 Sextantis,.....	6 40 14.02	G. 1619,.....	37 54 4.49	+ 64.30	− 0.21	+ 0.02	3.36	„
	30 Leonis Minoris,	34 18 45.29	45 Leonis, ...	10 16 54.09	+ 25.30	− 0.27	+ 0.01	4.73	„

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		° ′ ″		° ′ ″	″	″	″	″	
1	34 Pegasi, ...	3 52 29.66	G. 3849,.....	40 47 14.95	− 98.15	− 1.79	− 0.03	2.33	J.I.P.
	13 Lacertæ, ...	41 17 19.49	B. F. 3143, ...	3 15 55.87	+ 91.41	+ 3.64	+ 0.03	2.76	„
	P. XXII. 275, ...	2 28 7.67	2 Andromedæ, ...	42 12 51.33	−132.11	− 3.99	− 0.04	3.36	„
	β Pegasi, ...	27 32 0.45	P. XXIII, 4,.....	17 2 43.87	+ 48.42	+ 4.17	+ 0.02	4.77	„
	P. XXIII, 4,.....	17 2 43.87	61 Pegasi, ...	27 41 44.78	−242.71	+ 2.68	− 0.07	4.22	„
	B. 3107,.....	20 0 11.13	69 Pegasi, ...	24 36 38.48	− 10.74	− 1.11	0.00	2.96	„
	15 Andromedæ,...	39 40 44.45	ι Piscium, ...	5 4 32.13	−269.04	+ 2.98	− 0.08	2.15	„
	76 Pegasi, ...	15 46 21.60	78 Pegasi, ...	28 48 3.00	+ 62.06	− 2.15	+ 0.02	2.23	„
	ρ Andromedæ, ...	37 24 30.94	45 Piscium, ...	7 7 46.74	+127.18	− 3.25	+ 0.04	2.81	„
	π Andromedæ, ...	33 9 45.02	58 Piscium, ...	11 25 13.90	+ 46.63	− 2.32	+ 0.01	3.78	„
	P. I, 223, ...	11 48 11.74	ε Trianguli, ...	32 47 48.40	+ 14.65	− 1.28	0.00	3.44	„
	β Trianguli, ...	34 30 32.79	P. II, 85, ...	10 6 33.11	− 17.61	− 1.61	− 0.01	3.72	„
8	13 Lacertæ, ...	41 17 19.18	B. F. 3143, ...	3 15 55.36	+ 95.89	+ 0.30	+ 0.03	3.49	„
	P. XXII, 275, ...	2 28 7.16	2 Andromedæ, ...	42 12 51.15	−137.17	+ 2.00	− 0.04	3.95	„
	β Pegasi, ...	27 32 0.11	P. XXIII, 4,.....	17 2 43.46	+ 53.98	+ 0.36	+ 0.02	6.15	„
	P. XXIII, 4,.....	17 2 43.46	61 Pegasi, ...	27 41 44.48	−237.42	− 2.68	− 0.07	3.80	„
	* B. 3107,.....	20 0 10.77	69 Pegasi, ...	24 36 38.19	− 12.53	− 1.73	0.00	[0.22]	„
	15 Andromedæ,...	39 40 44.41	ι Piscium, ...	5 4 31.63	−264.65	+ 0.33	− 0.08	3.62	„
	76 Pegasi, ...	15 46 21.23	78 Pegasi, ...	28 48 2.82	+ 62.79	− 1.49	+ 0.02	3.35	„
	26 Piscium, ...	6 30 21.81	θ Andromedæ, ...	38 7 13.00	− 34.25	− 0.45	− 0.01	2.69	„
	ρ Andromedæ, ...	37 24 31.08	45 Piscium, ...	7 7 46.27	+121.58	+ 2.74	+ 0.04	3.03	„
	π Andromedæ, ...	33 9 45.13	58 Piscium, ...	11 25 13.52	+ 42.45	+ 0.84	+ 0.01	2.62	„
	62 Piscium, ...	6 44 43.73	μ Andromedæ, ...	37 57 4.14	−158.14	− 1.76	− 0.05	3.98	„
	ε Piscium, ...	7 20 37.04	45 Andromedæ,...	37 11 11.09	+137.71	+ 2.38	+ 0.04	4.20	„
	15 Trianguli,.....	34 14 48.48	85 Ceti, ...	10 18 34.78	+ 92.84	+ 0.18	+ 0.03	4.68	„
	40 Arietis,.....	17 51 43.18	41 Arietis,.....	26 50 37.31	−178.65	+ 0.99	− 0.05	2.54	„
	41 Arietis,.....	26 50 37.31	ρ^3 Arietis, ...	17 37 10.38	+265.56	− 5.54	+ 0.08	3.94	„

* Bisection of preceding star doubtful.

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Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	φ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
8	ρ^3 Arietis,	17 37 10.38	56 Arietis,	26 52 32.41	+210.48	− 7.42	+ 0.06	4.52	J.I.P.
	50 Arietis,	17 36 11.33	56 Arietis,	26 52 32.41	+241.65	− 8.85	+ 0.07	4.74	„
	τ^2 Arietis,	20 22 49.21	64 Arietis,	24 21 57.37	−246.92	− 2.29	− 0.07	4.01	„
	f Tauri,	12 35 23.20	o Persei,	31 58 5.81	+ 88.12	+ 0.33	+ 0.03	2.98	„
	ξ Persei,	35 30 2.72	47 Tauri,	9 0 24.93	+183.40	− 3.94	+ 0.05	3.34	„
	κ^1 Tauri,	22 3 45.85	υ^1 Tauri,	22 35 5.24	− 72.56	− 0.18	− 0.02	2.78	„
	B. 625,	16 6 37.21	P. IV, 148,	28 25 10.99	+139.13	− 0.42	+ 0.04	2.85	„
	π^1 Orionis,	6 47 6.05	4 Aurigæ,	37 44 16.81	+152.60	− 2.06	+ 0.04	2.01	„
	μ Aurigæ,	38 21 55.21	γ Orionis,	6 15 32.11	− 30.71	+ 1.11	− 0.01	4.05	„
	35 Orionis,	14 14 8.39	26 Aurigæ,	30 26 0.07	−110.72	+ 0.39	− 0.03	3.87	„
	26 Aurigæ,	30 26 0.07	B. 823,	14 7 50.96	+ 83.76	− 5.30	+ 0.03	4.01	„
	α Orionis,	7 23 22.33	θ Aurigæ,	37 12 22.76	+ 20.97	− 0.66	+ 0.01	2.86	„
	χ^1 Orionis,	20 8 30.98	5 Geminorum,	24 36 36.58	+ 37.95	+ 0.90	+ 0.01	2.64	„
	9 Geminorum,	23 46 35.09	15 Geminorum,	20 51 10.25	− 41.85	+ 3.40	− 0.01	4.21	„
	49 Aurigæ,	28 6 8.41	γ Geminorum,	16 29 13.86	+ 29.96	+ 2.56	+ 0.01	3.64	„
	25 Geminorum,	28 17 28.12	33 Geminorum,	16 19 9.46	− 6.35	+ 0.96	0.00	3.40	„
	36 Geminorum,	21 52 54.94	44 Geminorum,	22 47 25.15	−117.25	+ 1.25	− 0.03	4.02	„
	64 Aurigæ,	41 3 48.83	δ^2 Canis Minoris,	3 30 31.04	+ 62.61	+ 0.63	+ 0.02	3.19	„
	ϕ Geminorum,	27 1 44.48	3 Cancri,	17 35 16.35	− 14.49	− 1.91	− 0.01	4.01	„
	B. 1158,	22 44 56.33	μ^2 Cancri,	21 52 38.28	− 33.83	+ 1.28	− 0.01	4.74	„
	P. VIII, 67,	7 53 49.32	32 Lyncis,	36 46 49.73	−126.45	+ 0.33	− 0.04	3.37	„
9	13 Lacertæ,	41 17 19.17	B. F. 3143,	3 15 55.39	+ 96.65	− 1.22	+ 0.03	2.74	„
	P. XXII, 275,	2 28 7.13	2 Andromedæ,	42 12 51.15	−135.96	+ 1.40	− 0.04	4.54	„
	β Pegasi,	27 32 0.10	P. XXIII, 4,	17 2 43.44	+ 55.62	− 2.03	+ 0.02	5.38	„
	P. XXIII, 4,	17 2 43.44	61 Pegasi,	27 41 44.48	−238.35	− 0.87	− 0.07	4.67	„
	B. 3107,	20 0 10.76	69 Pegasi,	24 36 38.18	− 12.50	− 0.09	0.00	1.88	„
	15 Andromedæ,	39 40 44.44	ι Piscium,	5 4 31.60	−261.23	− 2.95	− 0.08	3.76	„
	76 Pegasi,	15 46 21.22	78 Pegasi,	28 48 2.84	+ 59.40	+ 1.61	+ 0.02	3.06	„
	26 Piscium,	6 30 21.78	θ Andromedæ,	38 7 13.06	− 31.02	− 2.92	− 0.01	3.47	„
	ρ Andromedæ,	37 24 31.14	45 Piscium,	7 7 46.25	+127.69	− 2.77	+ 0.04	3.66	„
	π Andromedæ,	33 9 45.19	58 Piscium,	11 25 13.51	+ 42.82	+ 1.08	+ 0.01	3.26	„
	62 Piscium,	6 44 43.70	μ Andromedæ,	37 57 4.22	−169.00	+ 9.66	− 0.05	4.57	„
	ϵ Piscium,	7 20 37.02	45 Andromedæ,	37 11 11.18	+142.89	− 2.74	+ 0.04	4.29	„
11	15 Trianguli,	34 14 48.78	85 Ceti,	10 18 34.71	+ 91.90	+ 0.63	+ 0.03	4.31	„
	40 Arietis,	17 51 43.22	41 Arietis,	26 50 37.49	−175.57	− 2.35	− 0.05	2.38	„
	τ^2 Arietis,	20 22 49.28	64 Arietis,	24 21 57.51	−250.58	− 0.30	− 0.07	2.45	„
	f Tauri,	12 35 23.14	o Persei,	31 58 6.08	+ 89.02	− 1.08	+ 0.03	2.58	„
	ξ Persei,	35 30 3.05	47 Tauri,	9 0 24.77	+179.80	+ 0.09	+ 0.05	3.85	„
	κ^1 Tauri,	22 3 45.92	υ^1 Tauri,	22 35 5.32	− 70.57	− 2.15	− 0.02	2.88	„
	B. 625,	16 6 37.16	P. IV, 148,	28 25 11.17	+141.34	− 1.76	+ 0.04	3.79	„
	π^1 Orionis,	6 47 5.81	4 Aurigæ,	37 44 17.15	+150.12	+ 1.14	+ 0.04	2.78	„
	μ Aurigæ,	38 21 55.54	γ Orionis,	6 15 31.82	− 33.01	+ 1.97	− 0.01	2.63	„
	35 Orionis,	14 14 8.24	26 Aurigæ,	30 26 0.22	−109.90	0.00	− 0.03	4.30	„
	26 Aurigæ,	30 26 0.22	B. 823,	14 7 50.79	+ 84.57	− 5.63	+ 0.03	4.48	„
	α Orionis,	7 23 22.02	θ Aurigæ,	37 12 22.99	+ 17.49	+ 3.25	+ 0.01	3.25	„
	χ^1 Orionis,	20 8 30.90	5 Geminorum,	24 36 36.56	+ 40.31	− 0.36	+ 0.01	3.69	„
	9 Geminorum,	23 46 35.04	15 Geminorum,	20 51 10.13	− 35.92	− 2.20	− 0.01	4.45	„
	49 Aurigæ,	28 6 8.42	γ Geminorum,	16 29 13.60	+ 31.11	+ 2.00	+ 0.01	4.13	„
	25 Geminorum,	28 17 28.12	33 Geminorum,	16 19 9.23	− 6.14	+ 0.96	0.00	3.50	„
	36 Geminorum,	21 52 54.81	44 Geminorum,	22 47 25.01	−116.56	− 0.06	− 0.03	3.26	„
	64 Aurigæ,	41 3 48.97	δ^2 Canis Minoris,	3 30 30.53	+ 65.03	− 0.27	+ 0.02	4.53	„
	ϕ Geminorum,	27 1 44.30	3 Cancri,	17 35 16.01	− 19.64	+ 2.95	− 0.01	3.46	„
	B. 1158,	22 44 56.06	μ^2 Cancri,	21 52 37.99	− 35.89	+ 2.65	− 0.01	3.77	„
	P. VIII, 67,	7 53 48.81	32 Lyncis,	36 46 49.59	−123.13	− 1.34	− 0.04	4.69	„
18	τ^2 Arietis,	20 22 49.32	64 Arietis,	24 21 57.70	−248.91	− 0.06	− 0.07	4.47	„
	f Tauri,	12 35 22.89	o Persei,	31 58 6.59	+ 91.81	− 3.01	+ 0.03	3.57	„
	ξ Persei,	35 30 3.72	47 Tauri,	9 0 24.34	+179.74	− 0.87	+ 0.05	2.95	„
	κ^1 Tauri,	22 3 46.03	υ^1 Tauri,	22 35 5.46	− 73.59	− 0.36	− 0.02	1.78	„
	B. 625,	16 6 37.02	P. IV, 148,	28 25 11.56	+139.95	− 1.34	+ 0.04	2.94	„
	π^1 Orionis,	6 47 5.27	4 Aurigæ,	37 44 17.91	+152.21	− 0.75	+ 0.04	3.09	„
20	15 Andromedæ,	39 40 43.94	ι Piscium,	5 4 30.75	−262.11	− 2.18	− 0.08	2.97	„
	76 Pegasi,	15 46 20.46	78 Pegasi,	28 48 2.25	+ 63.42	− 0.12	+ 0.02	4.68	„
	26 Piscium,	6 30 20.98	θ Andromedæ,	38 7 12.95	− 32.26	− 1.34	− 0.01	3.35	„
	ρ Andromedæ,	37 24 31.05	45 Piscium,	7 7 45.50	+127.91	− 3.31	+ 0.04	2.91	„
	π Andromedæ,	33 9 45.11	58 Piscium,	11 25 12.89	+ 45.93	− 1.11	+ 0.02	3.84	„
	62 Piscium,	6 44 42.98	μ Andromedæ,	37 57 4.46	−161.80	+ 0.81	− 0.05	2.68	„
	47 Andromedæ,	37 11 15.48	P. I, 85,	7 26 6.46	− 28.35	+ 0.87	− 0.01	3.48	„
	P. I, 123,	7 7 33.16	P. I, 170,	37 27 0.16	+ 56.74	+ 0.30	+ 0.02	3.72	„
	P. I, 223,	11 48 10.85	ϵ Trianguli,	32 47 49.28	+ 14.22	− 0.96	0.00	3.33	„
21	ϵ Piscium,	7 20 36.30	45 Andromedæ,	37 11 11.54	+143.64	− 2.09	+ 0.04	5.51	„
	47 Andromedæ,	37 11 15.52	P. I, 85,	7 26 6.44	− 27.87	+ 0.36	− 0.01	3.46	„
	P. I, 123,	7 7 33.14	P. I, 170,	37 27 0.21	+ 60.49	− 4.11	+ 0.02	3.07	„
	P. I, 223,	11 48 10.84	ϵ Trianguli,	32 47 49.32	+ 14.77	− 1.61	0.00	3.24	„
	B. 625,	16 6 36.80	P. IV, 148,	28 25 11.57	+142.64	− 2.98	+ 0.04	3.89	„
	π^1 Orionis,	6 47 4.85	4 Aurigæ,	37 44 18.09	+155.29	− 3.61	+ 0.04	3.19	„
	μ Aurigæ,	38 21 56.50	γ Orionis,	6 15 30.74	− 30.11	− 0.18	− 0.01	3.32	„

December, 1897.

Date.	Name.	App. Decl.	Name.	App. Decl.	m.	l.	r.	ϕ	Obs.
		° ′ ″		° ′ ″	″	″	″	″	
21	35 Orionis,	14 14 7.63	26 Aurigæ,	30 26 0.63	−109.42	− 1.67	− 0.03	3.01	J.I.P.
	α Orionis,	7 23 20.92	θ Aurigæ,	37 12 23.77	+ 20.82	+ 0.54	+ 0.01	3.72	„
22	15 Andromedæ,	39 40 43.93	ι Piscium,	5 4 30.73	−265.56	+ 1.05	− 0.08	2.74	„
	76 Pegasi,	15 46 20.44	78 Pegasi,	28 48 2.23	+ 62.18	+ 0.45	+ 0.02	3.98	„
	ρ Andromedæ,	37 24 31.09	45 Piscium,	7 7 45.48	+125.15	+ 0.69	+ 0.04	4.16	„
24	π Andromedæ,	33 9 45.17	58 Piscium,	11 25 12.83	+ 40.03	+ 3.82	+ 0.01	2.86	„
	62 Piscium,	6 44 42.89	μ Andromedæ,	37 57 4.61	−163.04	+ 2.35	− 0.05	3.01	„
	ε Piscium,	7 20 36.23	45 Andromedæ,	37 11 11.68	+136.71	+ 2.77	+ 0.04	3.48	„
	47 Andromedæ,	37 11 15.69	P. I, 85,	7 26 6.36	− 27.32	− 0.42	− 0.01	3.27	„
	P. I, 123,	7 7 33.06	P. I, 170,	37 27 0.42	+ 58.85	− 1.61	+ 0.02	4.00	„
	P. I, 223,	11 48 10.79	ε Trianguli,	32 47 49.50	+ 15.19	− 1.64	0.00	3.70	„
	τ^2 Arietis,	20 22 49.28	64 Arietis,	24 21 57.78	−249.10	− 1.14	− 0.07	3.22	„
	f Tauri,	12 35 22.61	o Persei,	31 58 6.90	+ 89.21	− 1.22	+ 0.03	2.78	„
	ξ Persei,	35 30 4.14	47 Tauri,	9 0 23.88	+180.74	− 2.41	+ 0.05	2.39	„
	κ^1 Tauri,	22 3 45.98	υ^1 Tauri,	22 35 5.43	− 73.17	+ 0.96	− 0.02	3.47	„
	B. 625,	16 6 36.75	P. IV, 148,	28 25 11.71	+142.16	− 3.19	+ 0.04	3.24	„
	π^1 Orionis,	6 47 4.65	4 Aurigæ,	37 44 18.37	+151.90	− 1.49	+ 0.04	1.96	„
	μ Aurigæ,	38 21 56.79	γ Orionis,	6 15 30.46	− 31.77	+ 1.79	− 0.01	3.64	„
	35 Orionis,	14 14 7.48	26 Aurigæ,	30 26 0.76	−111.36	+ 0.60	− 0.03	3.33	„
	26 Aurigæ,	30 26 0.76	B. 823,	14 7 49.98	+ 81.03	− 2.83	+ 0.03	3.60	„
	α Orionis,	7 23 20.62	θ Aurigæ,	37 12 23.98	+ 21.06	− 0.24	+ 0.01	3.13	„
	χ^4 Orionis,	20 8 30.48	5 Geminorum,	24 36 36.46	+ 41.30	− 1.08	+ 0.01	3.70	„
	9 Geminorum,	23 46 34.86	15 Geminorum,	20 51 9.65	− 39.00	+ 1.34	− 0.01	4.58	„
	49 Aurigæ,	28 6 8.48	γ Geminorum,	16 29 12.71	+ 35.83	− 2.41	+ 0.01	4.03	„
	25 Geminorum,	28 17 28.16	33 Geminorum,	16 19 8.27	− 1.91	− 2.74	0.00	3.57	„
	36 Geminorum,	21 52 54.28	44 Geminorum,	22 47 24.46	−114.05	− 1.34	− 0.03	3.95	„
	64 Aurigæ,	41 3 49.74	δ^2 Canis Minoris,	3 30 28.38	+ 64.82	− 0.87	+ 0.02	3.03	„
	ϕ Geminorum,	27 1 43.72	3 Cancri,	17 35 14.70	− 16.64	+ 0.39	− 0.01	2.95	„
	B. 1158,	22 44 55.07	μ^1 Cancri,	21 52 36.93	− 35.34	+ 2.92	− 0.01	3.57	„
	P. VIII, 67,	7 53 46.70	32 Lyncis,	36 46 49.32	−123.00	− 1.79	− 0.04	3.18	„
	ρ^1 Cancri,	28 38 24.14	o^2 Cancri,	15 58 17.67	− 7.38	+ 0.36	0.00	3.89	„
	66 Cancri,	32 39 54.78	P. IX, 35,	11 55 37.25	+ 11.23	+16.93	+ 0.01	4.18	„
28	ρ Andromedæ,	37 24 30.98	45 Piscium,	7 7 45.20	+124.15	+ 1.05	+ 0.04	3.33	„
	55 Piscium,	20 52 56.56	ζ Andromedæ,	23 42 58.19	+ 17.91	− 2.20	+ 0.01	3.09	„
	62 Piscium,	6 44 42.69	μ Andromedæ,	37 57 4.63	−154.54	− 5.16	− 0.04	3.92	„
	ε Piscium,	7 20 36.05	45 Andromedæ,	37 11 11.74	+142.97	− 1.88	+ 0.04	5.03	„
	P. I, 123,	7 7 32.91	P. I, 170,	37 27 0.62	+ 60.00	− 2.29	+ 0.02	4.49	„
	P. I, 223,	11 48 10.70	ε Trianguli,	32 47 49.68	+ 14.07	− 0.87	0.00	3.39	„

Part IV.—Calculation of the Latitude of Hongkong and its changes.

October, 1896.

Latitude=22° 18′ 13.″ 276 ± 0.″083.

Names.		ϕ		Error.
2 Sagittæ,	β Cygni,	1.″61	±0.″41	−1.″67
α Sagittæ,	B. 2510,	3.51	0.32	+0.23
χ Cygni,	ϕ Aquilæ,	3.97	0.25	+0.69
13 Sagittæ,	15 Vulpeculæ,	3.47	0.27	+0.19
17 Vulpeculæ,	18 Sagittæ,	3.57	0.20	+0.29
η Delphini,	49 Cygni,	2.80	0.19	−0.48
P. XX, 452,	4 Equulei,	4.26	0.32	+0.98
τ Cygni,	9 Equulei,	4.40	0.30	+0.12
P. XXI, 120,	5 Pegasi,	1.79	0.31	−1.49
κ Pegasi,	P. XXI, 312,	2.96	0.37	−0.32
G. 3571,	18 Pegasi,	5.03	0.38	+1.75
P. XXII, 36,	30 Pegasi,	3.58	0.18	+0.30
34 Pegasi,	G. 3849,	2.74	0.32	−0.54
13 Lacertæ,	B. F. 3143,	2.62	0.22	−0.66
β Pegasi,	P. XXIII, 4,	4.54	0.35	+1.26
P. XXIII, 4,	61 Pegasi,	3.75	0.42	+0.47
B. 3107,	69 Pegasi,	2.34	0.23	−0.94
15 Andromedæ,	ι Piscium,	3.36	0.16	+0.08
26 Piscium,	θ Andromedæ,	3.18	0.17	−0.10
ρ Andromedæ,	45 Piscium,	3.03	0.15	−0.25
π Andromedæ,	58 Piscium,	3.50	0.15	+0.22
ε Piscium,	45 Andromedæ,	3.34	0.23	+0.06
90 Piscium,	P. I, 110,	2.78	0.27	−0.50
P. I, 223,	ε Trianguli,	3.50	0.33	+0.22

November, 1896.

Latitude=22° 18′ 13.″ 470 ± 0.″062.

Names.		ϕ		Error.
P. XX, 452,	4 Equulei,	4.″73	±0.″49	+1.″26
τ Cygni,	9 Equulei,	3.88	0.38	+0.41
P. XXI, 120,	5 Pegasi,	1.79	0.31	−1.68
κ Pegasi,	P. XXI, 312,	2.27	0.28	−1.20
G. 3571,	18 Pegasi,	2.17	0.50	−1.30
P. XXII, 36,	30 Pegasi,	2.67	0.18	−0.80
34 Pegasi,	G. 3849,	3.33	0.37	−0.14
13 Lacertæ,	B. F. 3143,	2.88	0.27	−0.59
β Pegasi,	P. XXIII, 4,	4.60	0.37	+1.13
P. XXIII, 4,	61 Pegasi,	4.53	0.44	+1.06
B. 3107,	69 Pegasi,	2.68	0.30	−0.79
15 Andromedæ,	ι Piscium,	3.02	0.21	−0.45
26 Piscium,	θ Andromedæ,	3.49	0.27	+0.02
ρ Andromedæ,	45 Piscium,	3.96	0.20	+0.49
π Andromedæ,	58 Piscium,	3.45	0.19	−0.02
62 Piscium,	μ Andromedæ,	4.03	0.26	+0.56
ε Piscium,	45 Andromedæ,	3.53	0.19	+0.06
44 Andromedæ,	89 Piscium,	2.73	0.36	−0.74
47 Andromedæ,	P. I, 85,	3.55	0.30	+0.08
P. I, 123,	P. I, 170,	4.16	0.18	+0.69
P. I, 223,	ε Trianguli,	3.55	0.21	+0.08
β Trianguli,	P. II, 85,	4.13	0.19	−0.66
15 Trianguli,	85 Ceti,	3.94	0.29	+0.47
40 Arietis,	41 Arietis,	2.62	0.33	−0.85

November, 1896,—*Continued.*

Latitude=22° 18′ 13.″ 470 ± 0.″062.

Names.		φ		Error.
41 Arietis,	ρ^3 Arietis,	3.″69	±0.″25	+0.″22
ρ^3 Arietis,	56 Arietis,	3.98	0.25	+0.51
50 Arietis,	56 Arietis,	4.23	0.24	+0.76
τ^2 Arietis,	64 Arietis,	3.00	0.26	−0.47
f Tauri,	*o* Persei,	4.00	0.16	+0.53
P. III, 170,	ω^1 Tauri,	4.49	0.35	+1.02
ξ Persei,	47 Tauri,	1.61	0.45	−1.6
κ^1 Tauri,	υ^1 Tauri,	3.30	0.25	−0.17
B. 625,	P. IV, 148,	3.00	0.55	−0.47
90 Tauri,	P. IV, 185,	2.60	0.39	−0.87
π^1 Orionis,	4 Aurigæ,	2.90	0.41	−0.57
μ Aurigæ,	γ Orionis,	3.09	0.22	−0.38
35 Orionis,	26 Aurigæ,	3.39	0.35	−0.08
26 Aurigæ,	B. 823,	3.64	0.38	+0.17
32 Aurigæ,	63 Orionis,	3.72	0.27	+0.25
9 Geminorum,	15 Geminorum,	3.92	0.32	+0.45
49 Aurigæ,	γ Geminorum,	3.47	0.23	0.00
25 Geminorum,	33 Geminorum,	2.40	0.52	−1.07
36 Geminorum,	44 Geminorum,	4.06	0.33	+0.59
64 Aurigæ,	δ^2 Canis Minoris,	2.85	0.34	−0.62
ϕ Geminorum,	3 Cancri,	2.88	0.45	−0.59
B. 1158,	μ^2 Cancri,	4.11	0.53	+0.64
P. VIII, 67,	32 Lyncis,	4.11	0.49	+0.64
ρ^1 Cancri,	o^2 Cancri,	2.32	0.36	−1.15
66 Cancri,	P. IX, 35,	3.17	0.41	−0.30
ψ Leonis,	P. IX, 221,	2.75	0.50	−0.72

December, 1896.

Latitude=22° 18′ 13.″ 438 ± 0.″057.

Names.		φ		Error.
34 Pegasi,	G. 3849,	2.″46	±0.″54	−0.″98
13 Lacertæ,	B. F. 3143,	3.18	0.35	−0.26
β Pegasi,	P. XXIII, 4,	5.63	0.40	+2.19
P. XXIII, 4,	61 Pegasi,	4.31	0.44	+0.87
B. 3107,	69 Pegasi,	2.18	0.33	−1.26
15 Andromedæ,	ι Piscium,	4.17	0.23	+0.73
26 Piscium,	θ Andromedæ,	2.43	0.23	−1.01
ρ Andromedæ,	45 Piscium,	2.94	0.32	−0.50
π Andromedæ,	58 Piscium,	3.14	0.25	−0.30
62 Piscium,	μ Andromedæ,	3.30	0.43	−0.14
ϵ Piscium,	45 Andromedæ,	3.57	0.31	+0.13
44 Andromedæ,	89 Piscium,	3.86	0.48	+0.42
90 Piscium,	P. I, 110,	2.95	0.32	−0.49
47 Andromedæ,	P. I, 85,	3.07	0.41	−0.37
P. I, 123,	P. I, 170,	2.99	0.28	−0.45
P. I, 223,	ϵ Trianguli,	3.29	0.28	−0.15
β Trianguli,	P. II, 85,	4.16	0.31	+0.72
15 Trianguli,	85 Ceti,	4.06	0.30	+0.62
40 Arietis,	41 Arietis,	3.01	0.30	−0.43
41 Arietis,	ρ^3 Arietis,	3.89	0.20	+0.45
ρ^3 Arietis,	56 Arietis,	3.88	0.20	+0.44
50 Arietis,	56 Arietis,	4.10	0.21	+0.66
τ^2 Arietis,	64 Arietis,	3.23	0.25	−0.21
f Tauri,	*o* Persei,	2.77	0.16	−0.67
P. III, 170,	ω^1 Tauri,	3.84	0.35	+0.40
ξ Persei,	47 Tauri,	3.49	0.37	+0.05
41 Tauri,	δ^1 Tauri,	2.15	0.43	−1.29
κ^1 Tauri,	υ^1 Tauri,	2.16	0.30	−1.28
P. IV, 69,	83 Tauri,	4.59	0.40	+1.15
B. 625,	P. IV, 148,	3.40	0.40	−0.04
90 Tauri,	P. IV, 185,	2.96	0.35	−0.48
π^1 Orionis,	4 Aurigæ,	3.15	0.23	−0.29
μ Aurigæ,	γ Orionis,	3.44	0.26	0.00
22 Aurigæ,	116 Tauri,	3.08	0.35	−0.36
35 Orionis,	26 Aurigæ,	4.01	0.30	+0.57
26 Aurigæ,	B. 823,	3.98	0.31	+0.54
32 Aurigæ,	63 Orionis,	3.70	0.24	+0.26
141 Tauri,	P. V, 338,	4.30	0.51	+0.86
χ^1 Orionis,	5 Geminorum,	2.78	0.47	−0.66
9 Geminorum,	15 Geminorum,	3.96	0.25	+0.52
49 Aurigæ,	γ Geminorum,	3.67	0.19	+0.23

December, 1896,—*Continued.*

Latitude=22° 18′ 13.″ 438 ± 0.″057.

Names.		φ		Error.
25 Geminorum,	33 Geminorum,	3.″46	±0.″32	+0.″02
36 Geminorum,	44 Geminorum,	4.04	0.22	+0.60
64 Aurigæ,	δ^2 Canis Minoris,	3.78	0.23	+0.34
ϕ Geminorum,	3 Cancri,	4.00	0.20	+0.56
B. 1158,	μ^2 Cancri,	3.99	0.41	+0.55
P. VIII, 67,	32 Lyncis,	2.90	0.28	−0.54
ρ^1 Cancri,	o^2 Cancri,	3.47	0.26	+0.03
66 Cancri,	P. IX, 35,	3.44	0.41	0.00
83 Cancri,	B. 1319,	4.20	0.50	+0.76
ψ Leonis,	P. IX, 221,	2.14	0.34	−1.30
20 Leonis Minoris,	P. IX, 237,	2.22	0.38	−1.22
16 Sextantis,	G. 1619,	2.93	0.30	−0.51
30 Leonis Minoris,	45 Leonis,	4.12	0.21	+0.68
46 Leonis,	43 Leonis Minoris,	2.67	0.19	−0.77
60 Leonis,	64 Leonis,	2.99	0.23	−0.45
ν Ursæ Majoris,	ι Leonis,	3.62	0.18	+0.18
P. XI, 111,	95 Leonis,	4.11	0.33	+0.67
6 Comæ,	10 Comæ,	1.33	0.47	−2.11
6 Canum Venat.,	P. XII, 95,	5.02	0.50	+1.58

January, 1897.

Latitude=22° 18′ 13.″ 689 ± 0.″054.

Names.		φ		Error.
44 Andromedæ,	89 Piscium,	3.″03	±0.″36	−0.″66
90 Piscium,	P. I, 110,	2.10	0.44	−1.59
47 Andromedæ,	P. I, 85,	2.46	0.41	−1.23
P. I, 123,	P. I, 170,	4.71	0.28	+1.02
P. I, 223,	ϵ Trianguli,	3.83	0.28	+0.14
β Trianguli,	P. II, 85,	3.65	0.31	−0.04
15 Trianguli,	85 Ceti,	3.42	0.35	−0.27
40 Arietis,	41 Arietis,	3.49	0.33	−0.20
41 Arietis,	ρ^3 Arietis,	3.99	0.25	+0.30
ρ^3 Arietis,	56 Arietis,	3.83	0.25	+0.14
50 Arietis,	56 Arietis,	4.39	0.33	+0.70
τ^2 Arietis,	64 Arietis,	3.40	0.30	−0.29
f Tauri,	*o* Persei,	3.85	0.27	+0.16
P. III, 170,	ω^1 Tauri,	4.22	0.47	+0.53
ξ Persei,	47 Tauri,	2.12	0.45	−1.57
κ^1 Tauri,	υ^1 Tauri,	3.46	0.30	−0.23
P. IV, 69,	83 Tauri,	4.48	0.52	+0.79
B. 625,	P. IV, 148,	3.94	0.55	+0.25
90 Tauri,	P. IV, 185,	4.25	0.35	+0.56
μ Aurigæ,	γ Orionis,	3.19	0.26	−0.50
22 Aurigæ,	116 Tauri,	2.75	0.52	−0.94
35 Orionis,	26 Aurigæ,	4.06	0.35	+0.37
26 Aurigæ,	B. 823,	3.86	0.31	+0.17
32 Aurigæ,	63 Orionis,	2.44	0.44	−1.25
α Orionis,	θ Aurigæ,	3.99	0.15	+0.30
141 Tauri,	P. V, 338,	3.04	0.38	−0.65
χ^1 Orionis,	5 Geminorum,	2.99	0.29	−0.70
9 Geminorum,	15 Geminorum,	3.86	0.32	+0.17
49 Aurigæ,	γ Geminorum,	4.02	0.19	+0.33
25 Geminorum,	33 Geminorum,	3.12	0.41	−0.57
36 Geminorum,	44 Geminorum,	3.90	0.27	+0.21
64 Aurigæ,	δ^2 Canis Minoris,	3.80	0.33	+0.11
ϕ Geminorum,	3 Cancri,	3.68	0.26	−0.01
B. 1158,	μ^2 Cancri,	3.51	0.36	−0.18
P. VIII, 67,	32 Lyncis,	3.99	0.38	+0.30
ρ^1 Cancri,	o^2 Cancri,	3.91	0.36	+0.22
66 Cancri,	P. IX, 35,	4.30	0.53	+0.61
83 Cancri,	B. 1319,	4.08	0.35	+0.39
ψ Leonis,	P. IX, 221,	2.78	0.39	−0.91
20 Leonis Minoris,	P. IX, 237,	3.64	0.50	−0.05
16 Sextantis,	G. 1619,	3.44	0.41	−0.25
30 Leonis Minoris,	45 Leonis,	3.69	0.46	0.00
46 Leonis,	43 Leonis Minoris,	2.85	0.32	−0.84
60 Leonis,	64 Leonis,	3.85	0.47	+0.16
ν Ursæ Majoris,	ι Leonis,	4.38	0.38	+0.69

February, 1897.

Latitude=22° 18′ 13.″ 143 ± 0.″076.

Names.		φ		Error.
f Tauri,	o Persei,	[illegible].17	±0.″27	+0.″03
ξ Persei,	47 Tauri,	2.12	0.31	−1.02
κ¹ Tauri,	υ¹ Tauri,	4.13	0.25	+0.99
90 Tauri,	P. IV, 185,	3.52	0.35	+0.38
π¹ Orionis,	4 Aurigæ,	3.01	0.27	−0.13
μ Aurigæ,	γ Orionis,	2.07	0.22	−1.07
26 Aurigæ,	B. 823,	3.10	0.38	−0.04
α Orionis,	θ Aurigæ,	3.71	0.21	+0.57
χ⁴ Orionis,	5 Geminorum,	3.41	0.29	+0.27
9 Geminorum,	15 Geminorum,	3.47	0.32	+0.33
49 Aurigæ,	γ Geminorum,	3.22	0.23	+0.08
25 Geminorum,	33 Geminorum,	2.85	0.52	−0.29
36 Geminorum,	44 Geminorum,	3.15	0.45	+0.01
64 Aurigæ,	δ² Canis Minoris,	2.97	0.34	−0.17
φ Geminorum,	3 Cancri,	3.41	0.28	+0.27
B. 1158,	μ² Cancri,	2.01	0.53	−1.13
P. VIII, 67,	32 Lyncis,	3.41	0.33	+0.27
ρ¹ Cancri,	σ² Cancri,	2.83	0.31	−0.31
66 Cancri,	P. IX, 35,	3.95	0.41	+0.81
83 Cancri,	B. 1319,	3.33	0.50	+0.19
ψ Leonis,	P. IX, 221,	2.18	0.39	−0.96
20 Leonis Minoris,	P. IX, 237,	1.87	0.50	−1.27
16 Sextantis,	G. 1619,	2.99	0.54	−0.15
30 Leonis Minoris,	45 Leonis,	3.61	0.46	+0.47
46 Leonis,	43 Leonis Minoris,	3.09	0.45	−0.05
60 Leonis,	64 Leonis,	3.74	0.47	+0.60
ν Ursæ Majoris,	ι Leonis,	3.23	0.40	+0.09
6 Comæ,	10 Comæ,	2.74	0.47	−0.40
6 Canum Venat.,	P. XII, 95,	3.98	0.50	+0.84

March, 1897.

Latitude=22° 18′ 12.″ 770 ± 0.″312.

Names.		φ		Error.
26 Aurigæ,	B. 823,	3.″20	±0.″50	+0.″43
α Orionis,	θ Aurigæ,	1.74	0.37	−1.03
30 Leonis Minoris,	45 Leonis,	2.72	0.46	−0.05
46 Leonis,	43 Leonis Minoris,	0.85	0.45	−1.92
60 Leonis,	64 Leonis,	2.71	0.47	−0.06
ν Ursæ Majoris,	ι Leonis,	4.03	0.38	+1.26
P. XI, 111,	95 Leonis,	4.23	0.46	+1.46

April, 1897.

Latitude=22° 18′ 13.″ 102 ± 0.″100.

Names.		φ		Error.
P. VIII, 67,	32 Lyncis,	2.″11	±0.″49	−0.″99
ρ¹ Cancri,	σ² Cancri,	3.12	0.28	+0.02
66 Cancri,	P. IX, 35,	3.53	0.36	+0.43
83 Cancri,	B. 1319,	4.35	0.50	+1.25
ψ Leonis,	P. IX, 221,	2.16	0.50	−0.94
20 Leonis Minoris,	P. IX, 237,	2.77	0.32	−0.33
16 Sextantis,	G. 1619,	3.82	0.36	+0.72
30 Leonis Minoris,	45 Leonis,	2.37	0.28	−0.73
46 Leonis,	43 Leonis Minoris,	2.85	0.26	−0.25
60 Leonis,	64 Leonis,	3.51	0.29	+0.41
ν Ursæ Majoris,	ι Leonis,	3.68	0.22	+0.58
P. XI, 111,	95 Leonis,	3.08	0.28	−0.02
1 Comæ,	2 Comæ,	3.34	0.34	+0.24
6 Comæ,	10 Comæ,	1.76	0.35	−1.34
6 Canum Venat.,	P. XII, 95,	3.91	0.34	+0.81
P. XII, 122,	ρ Virginis,	1.88	0.35	−1.22
P. XII, 180,	B. F. 1775,	3.80	0.41	+0.70
P. XII, 244,	P. XIII, 16,	2.54	0.54	−0.56
B. 2060,	P. XVI, 40,	3.90	0.58	+0.80
P. XVI, 127,	41 Herculis,	4.40	0.67	+1.30
53 Herculis,	60 Herculis,	2.00	0.42	−1.10
63 Herculis,	P. XVII, 109,	4.14	0.45	+1.04
78 Herculis,	P. XVII, 203,	2.51	0.50	−0.59
μ Herculis,	93 Herculis,	4.09	0.41	+0.99
70 Ophiuchi,	G. 2533,	2.32	0.42	−0.78

May, 1897.

Latitude=22° 18′ 12.″ 999 ± 0.″074.

Names.		φ		Error.
ψ Leonis,	P. IX, 221,	2.″49	±0.″50	−0.″51
20 Leonis Minoris,	P. IX, 237,	4.31	0.50	+1.31
ν Ursæ Majoris,	ι Leonis,	2.73	0.22	−0.27
P. XI, 111,	95 Leonis,	2.52	0.28	−0.48
1 Comæ,	2 Comæ,	3.36	0.34	+0.36
6 Comæ,	10 Comæ,	1.35	0.27	−1.65
6 Canum Venat.,	P. XII, 95,	3.78	0.32	+0.78
P. XII, 122,	ρ Virginis,	2.08	0.27	−0.92
P. XII, 180,	B. F. 1775,	3.15	0.32	+0.15
P. XII, 244,	P. XIII, 16,	3.20	0.36	+0.20
59 Virginis,	P. XIII, 51,	2.56	0.30	−0.44
P. XIII, 136,	P. XIII, 194,	2.35	0.19	−0.65
η Bootis,	12 Bootis,	3.33	0.15	+0.33
P. XIV, 45,	P. XIV, 75,	4.05	0.29	+1.05
π¹ Bootis,	ε² Bootis,	2.10	0.24	−0.90
P. XIV, 178,	P. XIV, 193,	2.00	0.43	−1.00
δ Bootis,	δ Serpentis,	3.90	0.18	+0.90
ζ Coronæ,	λ Serpentis,	3.10	0.22	+0.10
P. XV, 185,	γ Serpentis,	4.03	0.32	+1.03
ε Coronæ,	κ Herculis,	2.74	0.17	−0.26
B. 2060,	P. XVI, 40,	3.44	0.40	+0.44
P. XVI, 127,	41 Herculis,	1.82	0.51	−1.18
53 Herculis,	60 Herculis,	3.13	0.21	+0.13
63 Herculis,	P. XVII, 109,	3.50	0.27	+0.50
78 Herculis,	P. XVII, 203,	2.76	0.30	−0.24
μ Herculis,	93 Herculis,	3.46	0.25	+0.46
70 Ophiuchi,	G. 2533,	2.43	0.24	−0.57
P. XVIII, 133,	β¹ Lyræ,	4.11	0.36	+1.11
11 Aquilæ,	19 Lyræ,	3.51	0.47	+0.51
2 Sagittæ,	β Cygni,	3.12	0.24	+0.12
α Sagittæ,	B. 2510,	3.01	0.32	+0.01
χ Cygni,	φ Aquilæ,	2.70	0.46	−0.30
13 Sagittæ,	15 Vulpeculæ,	2.86	0.34	−0.14
17 Vulpeculæ,	18 Sagittæ,	3.94	0.32	+0.94
η Delphini,	49 Cygni,	2.61	0.33	−0.39
P. XX, 393,	ν Cygni,	3.33	0.35	+0.33
P. XX, 452,	4 Equulei,	4.26	0.37	+1.26
τ Cygni,	9 Equulei,	1.75	0.38	−1.25
P. XXI, 120,	5 Pegasi,	2.04	0.36	−0.96

June, 1897.

Latitude=22° 18′ 13.″ 473 ± 0.″153.

Names.		φ		Error.
P. XII, 122,	ρ Virginis,	1.″90	±0.″47	−1.″57
P. XII, 244,	P. XIII, 16,	3.60	0.54	+0.13
δ Bootis,	δ Serpentis,	4.34	0.23	+0.87
ζ Coronæ,	λ Serpentis,	3.62	0.28	+0.15
P. XV, 185,	γ Serpentis,	4.03	0.36	+0.56
ε Coronæ,	κ Herculis,	3.36	0.29	−0.11
B. 2060,	P. XVI, 40,	3.57	0.48	+0.10
P. XVI, 127,	41 Herculis,	2.50	0.57	−0.97
53 Herculis,	60 Herculis,	2.82	0.30	−0.65
63 Herculis,	P. XVII, 109,	2.93	0.45	−0.54
78 Herculis,	P. XVII, 203,	2.76	0.50	−0.71
μ Herculis,	93 Herculis,	5.11	0.31	+1.64
70 Ophiuchi,	G. 2533,	2.45	0.31	−1.02
P. XVIII, 133,	β¹ Lyræ,	3.49	0.47	+0.02
11 Aquilæ,	19 Lyræ,	2.28	0.47	−1.19

July, 1897.

Latitude=22° 18′ 12.″ 963 ± 0.″062.

Names.		φ		Error.
π¹ Bootis,	ε² Bootis,	1.″37	±0.″28	−1.″59
δ Bootis,	δ Serpentis,	3.19	0.23	+0.23
ζ Coronæ,	λ Serpentis,	2.71	0.28	−0.25
P. XV, 185,	γ Serpentis,	3.84	0.32	+0.88
ε Coronæ,	κ Herculis,	2.27	0.23	−0.69
B. 2060,	P. XVI, 40,	4.16	0.44	+1.20
P. XVI, 127,	41 Herculis,	2.89	0.51	−0.07
53 Herculis,	60 Herculis,	3.43	0.19	+0.47

July, 1897,—*Continued.*

Latitude=22° 18′ 12.″ 963 ± 0.″062.

Names.		φ		Error.
63 Herculis,	P. XVII, 109,	3.″23	±0.″21	+0.″27
78 Herculis,	P. XVII, 203,	2.71	0.29	−0.25
μ Herculis,	93 Herculis,	3.38	0.22	+0.42
70 Ophiuchi,	G. 2533,	2.62	0.21	−0.34
P. XVIII, 133,	β¹ Lyræ,	3.33	0.27	+0.37
β¹ Lyræ,	ω Aquilæ,	3.24	0.20	+0.28
11 Aquilæ,	19 Lyræ,	2.75	0.35	−0.21
2 Sagittæ,	β Cygni,	2.73	0.18	−0.23
α Sagittæ,	B. 2510,	2.46	0.20	−0.50
χ Cygni,	φ Aquilæ,	3.85	0.21	+0.89
13 Sagittæ,	15 Vulpeculæ,	2.27	0.30	−0.69
17 Vulpeculæ,	18 Sagittæ,	2.90	0.21	−0.06
η Delphini,	49 Cygni,	2.80	0.22	−0.16
P. XX, 393,	ν Cygni,	3.06	0.28	+0.10
P. XX, 452,	4 Equulei,	2.97	0.32	+0.01
τ Cygni,	9 Equulei,	3.21	0.31	+0.25
P. XXI, 120,	5 Pegasi,	1.58	0.28	−1.38
κ Pegasi,	P. XXI, 312,	2.89	0.31	−0.07
P. XXII, 36,	30 Pegasi,	2.80	0.20	−0.16
34 Pegasi,	G. 3849,	2.40	0.37	−0.56
13 Lacertæ,	B. F. 3143,	2.40	0.47	−0.56
β Pegasi,	P. XXIII, 4,	4.52	0.40	+1.56
P. XXIII, 4,	61 Pegasi,	3.51	0.41	+0.55
B. 3107,	69 Pegasi,	2.95	0.38	−0.01
15 Andromedæ,	ι Piscium,	2.89	0.26	−0.07
76 Pegasi,	78 Pegasi,	3.16	0.34	+0.20
26 Piscium,	θ Andromedæ,	3.19	0.32	+0.23
ρ Andromedæ,	45 Piscium,	2.51	0.32	−0.45
π Andromedæ,	58 Piscium,	3.88	0.25	+0.92
62 Piscium,	μ Andromedæ,	3.79	0.43	+0.83
ε Piscium,	45 Andromedæ,	2.70	0.26	−0.26

August, 1897.

Latitude=22° 18′ 13.″ 261 ± 0.″072.

Names.		φ		Error.
53 Herculis,	60 Herculis,	3.″20	±0.″42	−0.″06
63 Herculis,	P. XVII, 109,	3.85	0.27	+0.59
78 Herculis,	P. XVII, 203,	2.26	0.30	−1.00
μ Herculis,	93 Herculis,	3.72	0.23	+0.46
70 Ophiuchi,	G. 2533,	3.10	0.24	−0.16
P. XVIII, 133,	β¹ Lyræ,	4.49	0.36	+1.23
11 Aquilæ,	19 Lyræ,	2.53	0.35	−0.73
2 Sagittæ,	β Cygni,	3.45	0.29	+0.19
α Sagittæ,	B. 2510,	2.47	0.22	−0.79
χ Cygni,	φ Aquilæ,	4.28	0.23	+1.02
13 Sagittæ,	15 Vulpeculæ,	2.51	0.25	−0.75
17 Vulpeculæ,	18 Sagittæ,	3.33	0.20	+0.07
η Delphini,	49 Cygni,	3.58	0.22	+0.32
P. XX, 393,	ν Cygni,	3.29	0.27	+0.03
P. XX, 452,	4 Equulei,	4.62	0.28	+1.36
τ Cygni,	9 Equulei,	3.82	0.30	+0.56
P. XXI, 120,	5 Pegasi,	2.28	0.27	−0.98
κ Pegasi,	P. XXI, 312,	2.94	0.33	−0.32
P. XXII, 36,	30 Pegasi,	3.18	0.20	−0.08
34 Pegasi,	G. 3849,	1.84	0.34	−1.42
13 Lacertæ,	B. F. 3143,	3.17	0.23	−0.09
P. XXII, 275,	2 Andromedæ,	3.59	0.49	+0.33
β Pegasi,	P. XXIII, 4,	4.37	0.37	+1.11
P. XXIII, 4,	61 Pegasi,	4.28	0.40	+1.02
B. 3107,	69 Pegasi,	1.95	0.27	−1.31
15 Andromedæ,	ι Piscium,	2.65	0.21	−0.61
76 Pegasi,	78 Pegasi,	2.72	0.26	−0.54
26 Piscium,	θ Andromedæ,	3.97	0.23	+0.71
ρ Andromedæ,	45 Piscium,	3.40	0.20	+0.14
π Andromedæ,	58 Piscium,	4.52	0.21	+1.26
62 Piscium,	μ Andromedæ,	3.26	0.23	0.00
ε Piscium,	45 Andromedæ,	2.65	0.26	+0.61
P. I, 123,	P. I, 170,	3.35	0.47	+0.09
P. I, 223,	ε Trianguli,	3.11	0.45	−0.15
β Trianguli,	P. II, 85,	2.86	0.42	−0.40
15 Trianguli,	85 Ceti,	4.48	0.50	+1.22
40 Arietis,	41 Arietis,	2.32	0.47	−0.94
41 Arietis,	ρ³ Arietis,	3.38	0.41	+0.12

August, 1897,—*Continued.*

Latitude=22° 18′ 13.″ 264 ± 0.″072.

Names.		φ		Error.
ρ³ Arietis,	56 Arietis,	2.″37	±0.″43	−0.″89
50 Arietis,	56 Arietis,	3.58	0.47	+0.32
τ² Arietis,	64 Arietis,	3.24	0.47	−0.02
f Tauri,	o Persei,	2.84	0.38	−0.42
ξ Persei,	47 Tauri,	2.31	0.45	−0.95
κ¹ Tauri,	υ¹ Tauri,	4.04	0.42	+0.78

September, 1897.

Latitude=22° 18′ 13.″ 246 ± 0.″056.

Names.		φ		Error.
β¹ Lyræ,	ω Aquilæ,	3.″48	±0.″18	+0.″23
2 Sagittæ,	β Cygni,	3.28	0.19	+0.03
α Sagittæ,	B. 2510,	2.56	0.22	−0.69
χ Cygni,	φ Aquilæ,	4.35	0.23	+1.10
13 Sagittæ,	15 Vulpeculæ,	3.16	0.24	−0.09
17 Vulpeculæ,	18 Sagittæ,	3.36	0.21	+0.11
η Delphini,	49 Cygni,	2.92	0.33	−0.33
P. XX, 393,	ν Cygni,	3.33	0.31	+0.08
P. XX, 452,	4 Equulei,	3.29	0.32	+0.04
τ Cygni,	9 Equulei,	3.43	0.30	+0.18
P. XXI, 120,	5 Pegasi,	1.85	0.27	−1.40
κ Pegasi,	P. XXI, 312,	2.62	0.29	−0.63
P. XXII, 36,	30 Pegasi,	2.50	0.22	−0.75
34 Pegasi,	G. 3849,	2.39	0.34	−0.86
13 Lacertæ,	B. F. 3143,	2.50	0.27	−0.75
P. XXII, 275,	2 Andromedæ,	3.18	0.28	−0.07
β Pegasi,	P. XXIII, 4,	4.60	0.38	+1.35
P. XXIII, 4,	61 Pegasi,	4.01	0.40	+0.76
B. 3107,	69 Pegasi,	2.24	0.28	−1.01
15 Andromedæ,	ι Piscium,	3.24	0.21	−0.01
76 Pegasi,	78 Pegasi,	2.84	0.22	−0.41
26 Piscium,	θ Andromedæ,	3.31	0.21	+0.06
ρ Andromedæ,	45 Piscium,	3.04	0.21	−0.21
π Andromedæ,	58 Piscium,	3.69	0.19	+0.44
62 Piscium,	μ Andromedæ,	3.35	0.20	+0.10
ε Piscium,	45 Andromedæ,	3.48	0.21	+0.23
47 Andromedæ,	P. I, 85,	3.49	0.32	+0.24
P. I, 123,	P. I, 170,	4.05	0.24	+0.80
P. I, 223,	ε Trianguli,	4.25	0.33	+1.00
β Trianguli,	P. II, 85,	3.50	0.31	+0.25
15 Trianguli,	85 Ceti,	2.55	0.50	−0.70
40 Arietis,	41 Arietis,	3.75	0.47	+0.50
41 Arietis,	ρ³ Arietis,	3.59	0.41	+0.34
ρ³ Arietis,	56 Arietis,	2.34	0.43	−0.91
50 Arietis,	56 Arietis,	3.28	0.47	+0.03
τ² Arietis,	64 Arietis,	2.44	0.35	−0.81
f Tauri,	o Persei,	3.72	0.27	+0.47
ξ Persei,	47 Tauri,	2.56	0.35	−0.69
κ¹ Tauri,	υ¹ Tauri,	3.86	0.30	+0.61
B. 625,	P. IV, 148,	3.67	0.44	+0.42
π¹ Orionis,	4 Aurigæ,	3.18	0.31	−0.07
μ Aurigæ,	γ Orionis,	3.02	0.26	−0.23
35 Orionis,	26 Aurigæ,	3.44	0.39	+0.19
26 Aurigæ,	B. 823,	4.09	0.38	+0.84
α Orionis,	θ Aurigæ,	3.61	0.26	+0.36
141 Tauri,	P. V, 338,	3.23	0.51	−0.02

October, 1897.

Latitude=22° 18′ 13.″ 303 ± 0.″091.

Names.		φ		Error.
α Sagittæ,	B. 2510,	3.″20	±0.″43	−0.″10
χ Cygni,	φ Aquilæ,	3.26	0.46	−0.04
13 Sagittæ,	15 Vulpeculæ,	3.17	0.34	−0.13
17 Vulpeculæ,	18 Sagittæ,	3.60	0.32	+0.30
η Delphini,	49 Cygni,	3.37	0.27	+0.07
P. XX, 393,	ν Cygni	4.30	0.28	+1.00
P. XX, 452,	4 Equulei,	3.68	0.32	+0.38
τ Cygni,	9 Equulei,	3.57	0.31	+0.27
P. XXI, 120,	5 Pegasi,	1.43	0.28	−1.87
κ Pegasi,	P. XXI, 312,	2.20	0.33	−1.10

October, 1897,—*Continued.*

Latitude=22° 18′ 13.″ 303 ± 0.″091.

Names.		φ		Error.
P. XXII, 36,	30 Pegasi,	2.″98	±0.″30	−0.″32
34 Pegasi,	G. 3849,	2.90	0.42	−0.40
13 Lacertæ,	B. F. 3143,	2.45	0.35	−0.85
P. XXII, 275,	2 Andromedæ,	3.33	0.37	+0.03
β Pegasi,	P. XXIII, 4,	4.13	0.43	+0.83
P. XXIII, 4,	61 Pegasi,	4.04	0.48	+0.74
B. 3107,	69 Pegasi,	2.98	0.38	−0.32
15 Andromedæ,	ι Piscium,	3.05	0.23	−0.25
76 Pegasi,	78 Pegasi,	3.42	0.26	+0.12
26 Piscium,	θ Andromedæ,	3.21	0.23	−0.09
ρ Andromedæ,	45 Piscium,	3.25	0.23	−0.05
π Andromedæ,	58 Piscium,	3.16	0.18	−0.14
62 Piscium,	μ Andromedæ,	3.28	0.20	−0.02
ε Piscium,	45 Andromedæ,	3.47	0.21	+0.17
44 Andromedæ,	89 Piscium,	2.55	0.48	−0.75
90 Piscium,	P. I, 110,	3.08	0.44	−0.22
47 Andromedæ,	P. I, 85,	3.59	0.32	+0.29
P. I, 123,	P. I, 170,	5.29	0.22	+1.99
P. I, 223,	ε Trianguli,	3.28	0.21	−0.02
β Trianguli,	P. II, 85,	3.68	0.22	+0.38
15 Trianguli,	85 Ceti,	3.91	0.30	+0.61
40 Arietis,	41 Arietis,	2.97	0.29	−0.33
41 Arietis,	ρ^3 Arietis,	3.59	0.22	+0.29
ρ^3 Arietis,	56 Arietis,	3.40	0.22	+0.10
50 Arietis,	56 Arietis,	3.50	0.24	+0.20
τ^2 Arietis,	64 Arietis,	3.24	0.26	−0.06
f Tauri,	o Persei,	2.97	0.17	−0.33
ξ Persei,	47 Tauri,	2.66	0.31	−0.64
κ^1 Tauri,	υ^1 Tauri,	2.63	0.25	−0.67
B. 625,	P. IV, 148,	3.57	0.55	+0.27
90 Tauri,	P. IV, 185,	3.62	0.35	+0.32
π^1 Orionis,	4 Aurigæ,	2.54	0.25	−0.76
μ Aurigæ,	γ Orionis,	2.88	0.37	−0.42
35 Orionis,	26 Aurigæ,	5.09	0.52	+1.79

November, 1897.

Latitude=22° 18′ 13.″ 514 ± 0.″048.

Names.		φ		Error.
η Delphini,	49 Cygni,	3.″11	±0.″27	−0.″40
P. XX, 393,	ν Cygni,	4.48	0.31	+0.97
P. XX, 452,	4 Equulei,	4.18	0.32	+0.67
τ Cygni,	9 Equulei,	3.76	0.38	+0.25
P. XXI, 120,	5 Pegasi,	2.63	0.36	−0.88
κ Pegasi,	P. XXI, 312,	3.54	0.31	+0.03
P. XXII, 36,	30 Pegasi,	2.95	0.20	−0.56
34 Pegasi,	G. 3849,	2.97	0.32	−0.54
13 Lacertæ,	B. F. 3143,	2.38	0.23	−1.13
P. XXII, 275,	2 Andromedæ,	3.70	0.28	+0.19
β Pegasi,	P. XXIII, 4,	4.67	0.37	+1.16
P. XXIII, 4,	61 Pegasi,	3.96	0.41	+0.45
B. 3107,	69 Pegasi,	2.53	0.28	−0.98
15 Andromedæ,	ι Piscium,	3.02	0.23	−0.49
76 Pegasi,	78 Pegasi,	3.05	0.26	−0.46
26 Piscium,	θ Andromedæ,	2.91	0.27	−0.60
ρ Andromedæ,	45 Piscium,	3.33	0.20	−0.18
π Andromedæ,	58 Piscium,	3.65	0.19	+0.14
62 Piscium,	μ Andromedæ,	3.21	0.20	−0.30
ε Piscium,	45 Andromedæ,	3.58	0.21	+0.07
47 Andromedæ,	P. I, 85,	3.65	0.32	+0.14
P. I, 123,	P. I, 170,	4.60	0.20	+1.09
P. I, 223,	ε Trianguli,	3.70	0.21	+0.19
β Trianguli,	P. II, 85,	3.82	0.22	+0.31
15 Trianguli,	85 Ceti,	4.17	0.29	+0.66
40 Arietis,	41 Arietis,	3.29	0.28	−0.22
41 Arietis,	ρ^3 Arietis,	4.20	0.20	+0.69
ρ^3 Arietis,	56 Arietis,	3.62	0.22	+0.11
50 Arietis,	56 Arietis,	4.11	0.24	+0.60
τ^2 Arietis,	64 Arietis,	3.50	0.25	−0.01
f Tauri,	o Persei,	3.28	0.15	−0.23
ξ Persei,	47 Tauri,	2.87	0.27	−0.64
41 Tauri,	δ^1 Tauri,	2.71	0.43	−0.80
κ^1 Tauri,	υ^1 Tauri,	3.38	0.20	−0.13
P. IV, 69,	83 Tauri,	4.15	0.52	+0.64

November, 1897,—*Continued.*

Latitude=22° 18′ 13.″ 514 ± 0.″048.

Names.		φ		Error.
B. 625,	P. IV, 148,	3.″78	±0.″36	+0.″27
π^1 Orionis,	4 Aurigæ,	2.56	0.23	−0.95
μ Aurigæ,	γ Orionis,	3.05	0.17	−0.46
35 Orionis,	26 Aurigæ,	3.40	0.30	−0.11
26 Aurigæ,	B. 823,	3.48	0.34	−0.03
α Orionis,	θ Aurigæ,	3.50	0.17	−0.01
χ^4 Orionis,	5 Geminorum,	3.19	0.29	−0.32
9 Geminorum,	15 Geminorum,	4.28	0.32	+0.77
49 Aurigæ,	γ Geminorum,	4.24	0.23	+0.73
25 Geminorum,	33 Geminorum,	3.80	0.37	+0.29
36 Geminorum,	44 Geminorum,	3.96	0.45	+0.45
64 Aurigæ,	δ^2 Canis Minoris,	3.93	0.34	+0.42
φ Geminorum,	3 Cancri,	3.08	0.33	−0.43
B. 1158,	μ^2 Cancri,	3.86	0.36	+0.35
P. VIII, 67,	32 Lyncis,	3.35	0.33	−0.16
ρ^1 Cancri,	o^2 Cancri,	4.03	0.31	+0.52
66 Cancri,	P. IX, 35,	3.68	0.36	+0.17
83 Cancri,	B. 1319,	4.04	0.29	+0.53
ψ Leonis,	P. IX, 221,	3.23	0.34	−0.28
20 Leonis Minoris,	P. IX, 237,	4.03	0.32	+0.52
16 Sextantis,	G. 1619,	3.58	0.36	+0.07
30 Leonis Minoris,	45 Leonis,	4.62	0.28	+1.11

December, 1897.

Latitude=22° 18′ 13.″ 485 ± 0.″055.

Names.		φ		Error.
34 Pegasi,	G. 3849,	2.″33	±0.″54	−1.″16
13 Lacertæ,	B. F. 3143,	3.00	0.30	−0.49
P. XXII, 275,	2 Andromedæ,	3.95	0.32	+0.46
β Pegasi,	P. XXIII, 4,	5.43	0.40	+1.94
P. XXIII, 4,	61 Pegasi,	4.23	0.44	+0.74
B. 3107,	69 Pegasi,	2.42	0.38	−1.07
15 Andromedæ,	ι Piscium,	3.05	0.21	−0.44
76 Pegasi,	78 Pegasi,	3.46	0.24	−0.03
26 Piscium,	θ Andromedæ,	3.17	0.27	−0.32
ρ Andromedæ,	45 Piscium,	3.32	0.19	−0.17
π Andromedæ,	58 Piscium,	3.27	0.19	−0.22
55 Piscium,	ζ Andromedæ,	3.09	0.43	−0.40
62 Piscium,	μ Andromedæ,	3.63	0.20	+0.14
ε Piscium,	45 Andromedæ,	4.50	0.21	+1.01
47 Andromedæ,	P. I, 85,	3.40	0.37	−0.09
P. I, 123,	P. I, 170,	3.82	0.24	+0.33
P. I, 223,	ε Trianguli,	3.42	0.23	−0.07
β Trianguli,	P. II, 85,	3.72	0.42	+0.23
15 Trianguli,	85 Ceti,	4.49	0.39	+1.00
40 Arietis,	41 Arietis,	2.46	0.37	−1.03
41 Arietis,	ρ^3 Arietis,	3.94	0.41	+0.45
ρ^3 Arietis,	56 Arietis,	4.52	0.43	+1.03
50 Arietis,	56 Arietis,	4.74	0.47	+1.25
τ^2 Arietis,	64 Arietis,	3.54	0.28	+0.05
f Tauri,	o Persei,	2.98	0.19	−0.51
ξ Persei,	47 Tauri,	3.13	0.29	−0.36
κ^1 Tauri,	υ^1 Tauri,	2.73	0.22	−0.76
B. 625,	P. IV, 148,	3.34	0.36	−0.15
π^1 Orionis,	4 Aurigæ,	2.61	0.23	−0.88
μ Aurigæ,	γ Orionis,	3.41	0.19	−0.08
35 Orionis,	26 Aurigæ,	3.63	0.32	+0.14
26 Aurigæ,	B. 823,	4.03	0.34	+0.54
α Orionis,	θ Aurigæ,	3.24	0.19	−0.25
χ^4 Orionis,	5 Geminorum,	3.34	0.29	−0.15
9 Geminorum,	15 Geminorum,	4.41	0.32	+0.92
49 Aurigæ,	γ Geminorum,	3.93	0.23	+0.44
25 Geminorum,	33 Geminorum,	3.49	0.37	0.00
36 Geminorum,	44 Geminorum,	3.74	0.27	+0.25
64 Aurigæ,	δ^2 Canis Minoris,	3.58	0.29	+0.09
φ Geminorum,	3 Cancri,	3.47	0.28	−0.02
B. 1158,	μ^2 Cancri,	4.03	0.36	+0.54
P. VIII, 67,	32 Lyncis,	3.75	0.33	+0.26
ρ^1 Cancri,	o^2 Cancri,	3.89	0.48	+0.40
66 Cancri,	P. IX, 35,	4.18	0.53	+0.69

Differences between the Observed Latitudes.

The apparent changes of latitude between different months and their probable errors were obtained from pairs observed in both of two months. Weights were assigned to individual pairs, thus observed, according to their brightness and according to the number of times they had been observed in each month, and the probable error of the change between two months was calculated from the individual results and not from the sum of the weights because the different pairs were not observed on the same nights, so that the probable error of the change is somewhat larger than would follow from the sum of the weights. The following table shows the differences as follows: 97 XI—97 X means latitude in November, 1897, minus latitude in October, 1897, then follows the corresponding difference and its probable error, and then in parenthesis the number of pairs common to the two months.

96 XI	−96 X	+0.″01	±0.″10	(17)	97 VIII	−96 XII	−0.″15	±0.″14	(23)	97 VI	−97 IV	+0.″07	±0.″22	(9)
„ XII	− „ X	+0.13	0.12	(12)	„ IX	− „ XII	−0.05	0.10	(30)	„ VII	− „ IV	−0.10	0.24	(7)
97 I	− „ X	−0.08	0.33	(2)	„ X	− „ XII	−0.05	0.09	(31)	„ VIII	− „ IV	+0.14	0.21	(5)
„ V	− „ X	−0.42	0.26	(9)	„ XI	− „ XII	+0.13	0.06	(47)	„ XI	− „ IV	+0.88	0.21	(8)
„ VII	− „ X	−0.36	0.08	(21)	„ XII	− „ XII	+0.07	0.05	(40)	„ XII	− „ IV	+1.03	[0.24]	(3)
„ VIII	− „ X	+0.01	0.10	(22)	97 II	−97 I	−0.51	0.07	(26)	97 VI	−97 V	+0.29	0.11	(15)
„ IX	− „ X	−0.09	0.07	(22)	„ III	− „ I	−1.35	0.23	(6)	„ VII	− „ V	−0.17	0.09	(24)
„ X	− „ X	−0.16	0.06	(22)	„ IV	− „ I	−0.57	0.24	(11)	„ VIII	− „ V	+0.16	0.12	(17)
„ XI	− „ X	+0.03	0.06	(17)	„ V	− „ I	−0.74	0.45	(3)	„ IX	− „ V	+0.16	0.18	(10)
„ XII	− „ X	+0.21	0.10	(11)	„ VIII	− „ I	−0.55	0.15	(12)	„ X	− „ V	+0.40	0.20	(9)
96 XII	−96 XI	0.00	0.07	(44)	„ IX	− „ I	−0.20	0.09	(19)	„ XI	− „ V	+0.72	0.19	(7)
97 I	− „ XI	+0.22	0.08	(32)	„ X	− „ I	−0.18	0.09	(19)	97 VII	−97 VI	−0.39	0.15	(13)
„ II	− „ XI	−0.17	0.12	(18)	„ XI	− „ I	0.00	0.05	(35)	„ VIII	− „ VI	−0.03	0.25	(7)
„ III	− „ XI	−0.44	[0.50]	(1)	„ XII	− „ I	−0.10	0.07	(29)	97 VIII	−97 VII	+0.31	0.06	(31)
„ IV	− „ XI	+0.03	0.38	(4)	„ III	− „ II	−0.93	0.35	(6)	„ IX	− „ VII	+0.21	0.05	(25)
„ V	− „ XI	−0.72	0.39	(4)	„ IV	− „ II	−0.10	0.14	(13)	„ X	− „ VII	+0.25	0.08	(23)
„ VII	− „ XI	−0.27	0.11	(16)	„ V	− „ II	−0.13	0.38	(5)	„ XI	− „ VII	+0.39	0.08	(19)
„ VIII	− „ XI	−0.15	0.09	(28)	„ VIII	− „ II	−0.07	[0.25]	(3)	„ XII	− „ VII	+0.40	0.14	(12)
„ IX	− „ XI	−0.16	0.06	(34)	„ IX	− „ II	+0.37	[0.15]	(7)	97 IX	−97 VIII	−0.08	0.06	(37)
„ X	− „ XI	−0.16	0.06	(35)	„ X	− „ II	−0.19	0.21	(6)	„ X	− „ VIII	−0.02	0.08	(36)
„ XI	− „ XI	+0.08	0.06	(45)	„ XI	− „ II	+0.41	0.10	(23)	„ XI	− „ VIII	+0.15	0.08	(32)
„ XII	− „ XI	+0.07	0.06	(39)	„ XII	− „ II	+0.31	0.13	(18)	„ XII	− „ VIII	+0.26	0.11	(25)
„ I	− „ XII	+0.17	0.07	(44)	97 IV	−97 III	+0.13	0.36	(5)	97 X	−97 IX	+0.05	0.06	(41)
„ II	− „ XII	−0.22	0.10	(28)	„ V	− „ III	−1.48	[0.30]	(2)	„ XI	− „ IX	+0.19	0.05	(39)
„ III	− „ XII	−0.59	0.23	(7)	„ IX	− „ III	+1.48	0.32	(2)	„ XII	− „ IX	+0.14	0.08	(32)
„ IV	− „ XII	−0.16	0.14	(14)	„ XI	− „ III	+1.40	0.33	(3)	97 XI	−97 X	+0.19	0.05	(37)
„ V	− „ XII	−0.55	0.31	(6)	„ XII	− „ III	+1.24	[0.30]	(2)	„ XII	− „ X	+0.15	0.07	(30)
„ VII	− „ XII	−0.31	0.18	(11)	97 V	−97 IV	−0.25	0.13	(17)	„ XII	− „ XI	+0.04	0.04	(43)

In a few cases the P.E. have been assigned in accordance with the number of pairs observed. This was when the P.E. calculated in case of few observations came out evidently too small. These P.E. are placed in brackets.

Calculation of the Latitude of Hongkong in each Month and its Changes.

Applying these differences to the latitude observed in any one month, and taking into account the P.E. of the difference as well as the P.E. of the latitude observed, the latitudes and their P.E. for the other months were obtained, whenever a sufficient number of pairs had been observed in both months. Then taking the weighted mean of all the values of the latitude in any one month, a final value of the latitude and its P.E. is obtained. The former now depends upon nearly all the declinations and not only upon the declinations of the pairs observed in the month in question, but the latter (the P.E.) comes out too small, as the individual values upon which it depends, are not quite independent. The P.E. of the latitude cannot fall below the P.E. of a single observation divided by the square root of the number of observations. In the following table the month from which the latitude was obtained by comparison is given *e.g.*, 96 X means that the latitude was obtained by comparison with October, 1896, by aid of the differences given above :—

October, 1896.		November, 1896.		December, 1896.		January, 1897.		February, 1897.	
96 X	13.″28 ±0.″08	96 X	13.″29 ±0.″13	96 X	13.″41 ±0.″15	96 XI	13.″69 ±0.″10	96 XI	13.″30 ±0.″13
XI	13.46 .12	XI	13.47 .06	XI	13.47 .09	XII	13.61 .09	XII	13.22 .11
XII	13.31 .13	XII	13.44 .09	XII	13.44 .06	97 I	13.69 .05	97 I	13.18 .09
97 VII	13.32 .10	97 I	13.47 .10	97 I	13.52 .09	II	13.65 .10	II	13.14 .08
VIII	13.25 .12	II	13.31 .14	II	13.36 .13	VIII	13.81 .17	IV	13.20 .17
IX	13.34 .09	VII	13.23 .13	IV	13.26 .17	IX	13.45 .11	IX	12.88 .16
X	13.46 .11	VIII	13.41 .12	VII	13.27 .19	X	13.48 .13	XI	13.10 .11
XI	13.48 .08	IX	13.41 .08	VIII	13.41 .16	XI	13.51 .07	XII	13.18 .14
XII	13.28 .11	X	13.46 .11	IX	13.30 .11	XII	13.59 .09		
		XI	13.43 .08	X	13.35 .13			Mean	13.16 ± .03
Mean	13.36 ± .02	XII	13.42 .08	XI	13.38 .08	Mean	13.61 ± .03		
				XII	13.42 .07				
		Mean	13.42 ± .02						
				Mean	13.41 ± .02				

March, 1897.			April, 1897.			May, 1897.			June, 1897.			July, 1897.		
96 XI	13.″03	±0.″50	96 XII	13.″28	±0.″15	97 II	13.″01	±0.″14	97 IV	13.″17	+0.″24	96 X	12.″92	+0.″12
XII	12.85	.24	97 I	13.62	.25	IV	12.85	.16	V	13.29	.13	XI	13.20	.13
97 I	12.34	.24	II	13.04	.16	V	13.00	.07	VI	13.47	.15	XII	13.13	.19
II	12.21	.36	IV	13.10	.10	VI	13.18	.19	VII	13.35	.16	97 V	12.83	.12
III	12.77	.31	V	13.25	.15	VII	13.13	.11	VIII	13.23	.26	VI	13.08	.21
IV	12.97	.37	VII	13.06	.25	VIII	13.10	.14				VII	12.96	.06
V	14.48	.31	VIII	13.12	.22	IX	13.09	.19	Mean	13.33	± .04	VIII	12.95	.09
IX	11.77	.32	XI	12.63	.22	X	12.90	.22				IX	13.04	.07
XI	12.11	.33	XII	12.46	.25	XI	12.79	.20				X	13.05	.12
XII	12.25	.30										XI	13.12	.09
			Mean	13.06	± .06	Mean	13.02	+ .03				XII	13.09	.15
Mean	12.66	± .16										Mean	13.01	± .02

August, 1897.			September, 1897.			October, 1897.			November, 1897.			December, 1897.		
96 X	13.″29	+0.″13	96 X	13.″19	±0.″11	96 X	13.″12	±0.″10	96 X	13.″31	±0.″10	96 X	13.″49	±0.″13
XI	13.32	.11	XI	13.31	.09	XI	13.31	.09	XI	13.55	.09	XI	13.54	.09
XII	13.29	.15	XII	13.39	.11	XII	13.39	.11	XII	13.57	.08	XII	13.51	.08
97 I	13.14	.16	97 I	13.49	.10	97 I	13.51	.10	97 I	13.69	.07	97 I	13.59	.09
V	13.16	.14	II	13.51	.17	VII	13.21	.10	II	13.55	.13	II	13.45	.15
VII	13.27	.09	V	13.16	.19	VIII	13.24	.11	VII	13.35	.10	VII	13.36	.15
VIII	13.26	.07	VII	13.17	.08	IX	13.30	.08	VIII	13.41	.11	VIII	13.52	.13
IX	13.33	.08	VIII	13.18	.09	X	13.30	.09	IX	13.44	.07	IX	13.39	.10
X	13.32	.12	IX	13.25	.06	XI	13.32	.07	X	13.49	.10	X	13.45	.11
XI	13.36	.09	X	13.25	.11	XII	13.34	.09	XI	13.51	.05	XI	13.55	.06
XII	13.23	.12	XI	13.32	.07				XII	13.45	.07	XII	13.49	.05
			XII	13.35	.10	Mean	13.30	± .02						
Mean	13.28	± .01							Mean	13.50	± .02	Mean	13.50	± .01
			Mean	13.28	± .02									

In the harmonic analysis of these observations it was not necessary to take into account the inequal length of the months and the latitude in each month refers to the middle of the month except in case of March, where it refers to the 7th March, August, where its refers to the 23rd August, and October, 1897, where it refers to the 23rd October. This was of course allowed for. It is impossible to separate the effects of the 365 and the 428 day periods from a series of observations that extend over only 15 months. Attributing a weight to the latitude obtained in each month proportional to the number of observations the result is:

Latitude =

$$22^\circ\ 18'\ 13''.242 \pm 0''.016 - 0''.160 \sin.\ \theta + 0''.131 \cos.\ \theta - 0''.030 \sin.\ 2\,\theta + 0''.016 \cos.\ 2\,\theta.$$

With reference to the P.E. 0″.016 obtained from column (6) of the following table (column (4) would give sensibly the same result): this consists of two parts 0″.010, which is due to accidental errors, and 0″.013, which in due to errors in the declinations and to the light-equation. θ is the mean longitude of the sun minus the same on the 15th January.

The first column of the following table contains the name of the month; the second the observed ϕ (latitude $= 22^\circ\ 18' + \phi$); the third the latitude according to Chandler, who first explained the nature and causes of the latitude variation; the fourth the difference between (2) and (3); the fifth the latitude calculated from the formula above; the sixth the difference between (2) and (5); the seventh the number of observations:—

(1)	(2)	(3)	(4)	(5)	(6)	(7).
96 October, ...	13.″361	13.″444	− 0.″083	13.″386	− 0.″025	135
November, ...	13.419	.414	+ 0.005	.464	− 0.045	165
December, ...	13.412	.356	+ 0.056	.417	− 0.005	207
97 January, ...	13.611	.261	+ 0.350	.389	+ 0.222	101
February, ...	13.156	.172	− 0.016	.277	− 0.121	61
March, ...	12.656	.120	− 0.464	.170	− 0.514	7
April, ...	13.064	.054	+ 0.010	.066	− 0.002	51
May, ...	13.019	.053	− 0.034	.056	− 0.037	134
June, ...	13.329	.085	+ 0.244	.083	+ 0.246	26
July, ...	13.011	.171	− 0.160	.127	− 0.116	144
August, ...	13.283	.290	− 0.007	.208	+ 0.075	152
September, ...	13.284	.357	− 0.073	.282	+ 0.002	165
October, ...	13.304	.434	− 0.130	.408	− 0.104	147
November, ...	13.499	.450	+ 0.049	.464	+ 0.035	230
December, ...	13.504	.433	+ 0.071	.417	+ 0.087	141

Part V.—The Constant of Aberration.

The constant of aberration was determined together with the correction to half the sum of the declinations of each pair of stars by the method of least squares by aid of an ephemeris for the latitude calculated from the formula given at the end of the last part. In some cases it was found impossible to determine both these quantities together. Then the declination-correction was first determined and subsequently the aberration. These pairs are marked by an asterisk. Other pairs especially those near 6 hours right-ascension (where aberration affects mainly the right-ascension) and such as were not sufficiently observed, did not allow of any determination of the aberration. The first four columns of the following table contain the numbers and names of the stars in each pair. The fifth column contains the correction to be added to the mean of the declinations given in the standard catalogue (Table I). These, the finally adopted, corrections were obtained subsequently to the final determination of the aberration. The sixth column contains the quantity y, which multiplied by 20″.4451 gives the correction to be added to the aberration coefficient, and the seventh column shows the weight of y.

No	Name.	No.	Name.	Δ δ	y.	p.	No.	Name.	No.	Name.	Δ δ	y.	p.
1	ρ Andromedæ, .	2	45 Piscium, ...	+0.″12	−0.023	10	63	ν Aurigæ, ...	64	63 Orionis,.....	−0.″08	...	...
3	π Andromedæ,.	4	58 Piscium, ..	−0. 18	+0.019*	10	203	α Orionis, ...	204	θ Aurigæ, ...	−0. 11	...	...
5	55 Piscium, ...	6	ζ Andromedæ, .	+0. 36	...	...	65	141 Tauri, ...	66	P. V, 338, ...	−0. 08	...	...
7	62 Piscium, ...	8	μ Andromedæ,.	−0. 03	+0.025	6	67	χ^4 Orionis, ...	68	5 Geminorum,.	+0. 21	...	...
9	ε Piscium, ...	10	45 Andromedæ,	−0. 12	−0.014*	8	69	9 Geminorum, .	70	15 Geminorum,	−0. 54	...	...
11	44 Andromedæ,	12	89 Piscium, ...	+0. 46	...	...	71	49 Aurigæ,.....	72	γ Geminorum, .	+0. 35	...	...
13	90 Piscium, ...	14	P. I, 110, ...	+0. 65	...	...	73	25 Geminorum,	74	33 Geminorum,	+0. 07	...	...
15	47 Andromedæ,	16	P. I, 85,.....	−0. 03	−0.026	2	75	36 Geminorum,	76	44 Geminorum,	−0. 45	...	...
17	P. I, 123, ...	18	P. I, 170, ...	−0. 68	+0.028	2	77	64 Aurigæ,.....	78	δ^2 Canis Min., .	−0. 12	...	...
19	P. I, 223, ...	20	ε Trianguli, ...	−0. 11	+0.003*	2	79	φ Geminorum,.	80	3 Cancri, ...	−0. 18	...	...
21	β Trianguli, ...	22	P. II, 85, ...	−0. 13	−0.004*	2	81	B. 1158,.....	82	μ^2 Cancri, ...	−0. 28	...	...
23	15 Trianguli,...	24	85 Ceti, ...	−0. 56	−0.005*	2	83	P. VIII, 67, ...	84	32 Lyncis, ...	+0. 09	...	...
27	40 Arietis, ...	28	41 Arietis, ...	+0. 38	+0.007*	2	85	ρ^1 Cancri, ...	86	o^2 Cancri, ...	+0. 01	+0.013	2
29	41 Arietis, ...	30	ρ^3 Arietis, ...	−0. 43	−0.021	1	87	66 Cancri, ...	88	P. IX, 35, ...	−0. 31	−0.001*	2
31	ρ^3 Arietis, ...	32	56 Arietis,.....	−0. 22	−0.016*	1	89	83 Cancri, ...	90	B. 1319,.....	−0. 66	−0.018*	1
33	50 Arietis,.....	34	56 Arietis,.....	−0. 61	−0.025	1	91	ψ Leonis, ...	92	P. IX, 221, ...	+0. 79	−0.037	2
35	τ^2 Arietis, ...	36	64 Arietis,.....	+0. 11	+0.004*	2	93	20 Leonis Min.,	94	P. IX, 237, ...	+0. 15	−0.051*	1
37	f Tauri, ...	38	o Persei,.....	+0. 15	+0.057	1	95	16 Sextantis,...	96	G. 1619,.....	+0. 05	−0.034*	2
39	P. III, 170, ...	40	ω^1 Tauri,.....	−0. 71	...	...	97	30 Leonis Min.,	98	45 Leonis, ...	−0. 36	+0.036*	2
41	ξ Persei,.....	42	47 Tauri, ...	+0. 75	−0.020*	1	99	46 Leonis, ...	100	43 Leonis Min.,	+0. 55	−0.047	2
43	41 Tauri, ...	44	δ^1 Tauri,.....	+1. 04	...	...	101	60 Leonis, ...	102	64 Leonis, ...	+0. 08	−0.015*	6
45	κ^1 Tauri,.....	46	υ^1 Tauri,....	+0. 17	...	...	103	ν Ursæ Majoris,	104	ι Leonis,.....	−0. 25	+0.051	6
47	P. IV, 69, ...	48	83 Tauri, ...	−0. 99	...	...	105	P. XI, 111, ...	106	o Leonis, ...	−0. 09	+0.112	4
49	B. 625, ...	50	P. IV, 148, ...	−0. 09	...	...	107	1 Comæ,.....	108	2 Comæ,.....	−0. 29	−0.005	1
51	90 Tauri, ...	52	P. IV, 185. ...	−0. 04	...	...	109	6 Comæ,.....	110	10 Comæ, ...	+1. 39	+0.078	4
53	π^1 Orionis, ...	54	4 Aurigæ, ...	+0. 62	...	...	111	6 Canum Venat.,	112	P. XII, 95, ..	−0. 86	+0.027	1
55	μ Aurigæ, ...	56	γ Orionis, ...	+0. 10	...	...	113	P. XII, 122, ...	114	ρ Virginis, ...	+1. 07	−0.050	2
57	22 Aurigæ,.....	58	115 Tauri, ...	+0. 46	...	...	115	P. XII, 180, ...	116	B. F. 1775, ...	−0. 28	+0.079	1
59	35 Orionis,.....	60	26 Aurigæ.....	+0. 28	...	...	117	P. XII, 244, ...	118	P. XIII, 16, ...	−0. 10	...	...
61	26 Aurigæ,.....	62	B. 823.	−0. 31	...	...	119	59 Virginis, ...	120	P. XIII, 51, ...	+0. 49	...	...

No.	Name.	No.	Name.	Δ δ	y.	p.	No.	Name.	No.	Name.	Δ δ	y.	p.
121	P. XIII, 136,...	122	P. XIII, 194,...	+0.″70	...	...	163	χ Cygni,.....	164	φ Aquilæ, ...	−0.″77	−0.028	16
123	η Bootis,.....	124	12 Bootis, ...	−0. 28	...	...	165	13 Sagittæ, ...	166	15 Vulpeculæ, .	+0. 33	−0.018	22
125	P. XIV, 45, ...	126	P. XIV, 75, ...	−1. 00	...	...	167	17 Vulpeculæ, .	168	18 Sagittæ, ...	−0. 12	+0.013	24
127	π^1 Bootis, ...	128	ϵ^2 Bootis, ...	+1. 28	+0.053	6	169	η Delphini,.....	170	49 Cygni, ...	+0. 25	−0.001	26
129	P. XIV, 178,...	130	P. XIV, 193,...	+1. 06	...	...	171	P. XX, 393, ...	172	ν Cygni,.....	−0. 36	−0.034	20
131	δ Bootis,.....	132	δ Serpentis, ...	−0. 77	+0.042	8	173	P. XX, 452, ...	174	4 Equulei, ...	−0. 68	+0.007	22
133	ζ Coronæ, ...	134	λ Serpentis, ...	−0. 05	+0.028	8	175	τ Cygni,.....	176	9 Equulei, ...	−0. 30	−0.025	30
135	P. XV, 185, ...	136	γ Serpentis, ...	−0. 86	+0.019	6	177	P. XXI, 120,...	178	5 Pegasi, ...	+1. 40	+0.018	28
137	ε Coronæ, ...	138	κ Herculis.....	+0. 36	+0.029	10	179	κ Pegasi, ...	180	P. XXI, 312,...	+0. 60	+0.009	20
139	B. 2060,.....	140	P. XVI, 40, ...	−0. 61	−0.025	12	181	G. 3571,.....	182	18 Pegasi, ...	−0. 71	...	...
141	P. XVI, 127,...	142	41 Herculis, ...	+0. 53	−0.002	12	183	P. XXII, 36,...	184	30 Pegasi, ...	+0. 36	+0.007	14
143	53 Herculis, ...	144	60 Herculis, ...	−0. 02	−0.031	16	185	34 Pegasi, ...	186	G. 3849,.....	+0. 75	−0.042	10
145	63 Herculis, ...	146	P. XVII, 109,.	−0. 36	+0.010	16	187	13 Lacertæ, ...	188	B. F. 3143, ...	+0. 63	+0.007	12
147	78 Herculis, ...	148	P. XVII, 203,.	+0. 54	+0.008	30	189	P. XXII, 275,.	190	2 Andromedæ,.	−0. 15	−0.010	1
149	μ Herculis,.....	150	93 Herculis, ...	−0. 76	+0.015	28	191	β Pegasi, ...	192	P. XXIII, 4,...	−1. 31	+0.001	14
151	70 Ophiuchi, ...	152	G. 2533,.....	+0. 47	−0.022	24	193	P. XXIII, 4,...	194	61 Pegasi, ...	−0. 72	+0.004	12
153	P. XVIII, 133,	154	β^1 Lyræ,.....	−0. 62	+0.011	10	195	B. 3107,.....	196	69 Pegasi, ...	+0. 98	+0.012	10
155	β^1 Lyræ,.....	156	ω Aquilæ, ...	−0. 12	+0.045	4	197	15 Andromedæ,	198	ι Piscium, ...	+0. 21	−0.015	12
157	11 Aquilæ,.....	158	19 Lyræ, ...	+0. 40	+0.042	6	199	76 Pegasi, ...	200	78 Pegasi, ...	+0. 25	−0.008	8
159	2 Sagittæ, ...	160	β Cygni, ...	+0. 11	−0.002	22	201	26 Piscium, ...	202	θ Andromedæ,.	+0. 15	+0.013	10
161	α Sagittæ, ...	162	B. 2510,.....	+0. 54	+0.011	22							

From these different values of y we obtain the constant of aberration: 20″.477 ± 0″.040, from which value and from the velocity of light according to Newcomb (299860 ± 30 kilometers per second) we obtain the solar parallax 8″.8003 and the earth's mean distance from the sun 92 896 000 miles. From stars of average magnitude 4.4 the value of the constant of aberration obtained is 20.″639 ± 0″.075. From those of magnitude 5.4 it is 20″.430 ± 0″.063, and from those of magnitude 6.4 it is 20″.385 ± 0″.066. The fact that the aberration thus determined is found to depend upon the magnitudes of the stars may possibly serve to explain differences in the values obtained at different observatories, which differences far exceed their probable errors.