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MADE AT

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IN THE YEAR

1895,

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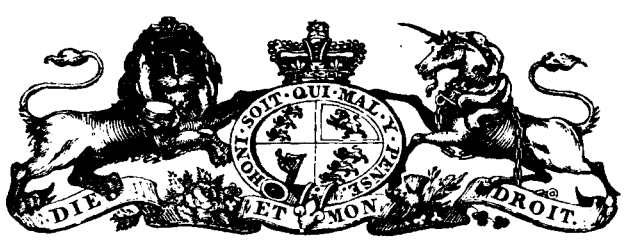

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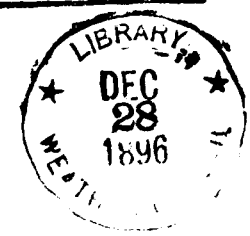

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HONGKONG OBSERVATORY,

21st *April*, 1896.

SIR,—I have the honour to submit my annual report for 1895 to His Excellency the Governor. My eleventh volume of observations and researches was published last summer and the twelvth volume is now being printed. It contains investigations of the typhoons in 1890, 1891, 1893 and 1895, which I have conducted in co-operation with Mr. FIGG. Thus all the typhoons that have been observed since this Observatory was started in 1884 have now been investigated, and we are at present busy with a revision of the laws of storms on the basis of these investigations. This will probably be finished in a year, and the results can be utilised for weather-forecasts and storm-warnings in 1897 and following years.

2. The thanks of the Government are due to the Telegraph Companies for continuing to forward the meteorological telegrams free of charge. If paid for at the rate charged for messages with precedence urgency the cost per annum would be very great. Most important telegrams are also forwarded by the Chinese Telegraph Administration with precedence urgency and free of cost, but they are very often received too late.

3. The thanks of the Government are due to the Inspector-General of the Imperial-Maritime Customs of China for ordering meteorological observations to be made at the Treaty Ports and transmitted to this Observatory, and it is to be hoped that it may be found possible to greatly extend the number of ports from which such information is telegraphed. There exists no meteorological service in China and the information that can be collected at present is insufficient. For the issue of weather-forecasts and storm-warnings it is necessary that the China Sea should be surrounded by telegraphic reporting stations worked by trained observers supplied with accurate instruments, and reports from the north of China and from stations inland in China such as the treaty ports along the Yangtszekiang are equally necessary.

4. During the past year the staffs of the Eastern Extension Telegraph Company at Bolinao (Luzon) and at Sharp Peak (near Foochow), made observations at all times during the day and telegraphed them direct to Hongkong, and this frequently enabled Mr. FIGG to indicate the subsequent movements of typhoons with much greater accuracy than could have been effected without that information, in the absence of which in fact many typhoons could not have been announced at all.

5. Telegraphic connection with Victoria was interrupted on the 12th February, 1895, from 10.35 a. to 11.40 a.; from the 13th February at 7 a. to the 14th February at 4.30 p ; on the 19th February from 7.40 a. to 12.30 p.; on the 16th March from 3.36 p. to 3.59 p.; on the 23rd April from 6.25 a. to 1.54 p.; on the 30th April from 12.52 p. to 2.4 p.; on the 1st June from 3.25 p. to 4.48 p.; on the 13th June from 10.50 a. to 1.45 p.; on the 20th June from 6.43 a. to 7 a.; on the 28th June from noon to 2.25 p.; from the 29th June at 4.33 p. to the 30th June at 9.40 a.; on the 27th July from 11.13 a. to 11.25 a.; on the 28th July from 11 a. to 11.55 a. and from 4.24 p. to 4.38 p.; on the 31st October from 1.54 p. to 3 p.; on the 3rd December from 10.49 a. to 11.20 a. Interruptions occurred therefore on 17 days, and. of course, also during thunder-storms. Telephone connection with the Peak was interrupted on the 10th January from 11 a. to 1 p.; on the 17th January from 3 p. to 8 p.; on the 31st January from 1 p. to 3 p. and from 6 p to 8 p.; on the 11th February from 6 p. to 8 p.; on the 26th February from 4 p. to 8 p.; on the 2nd March from 7 a. to 3 p.; on the 11th March from 3 p. to 8. p.; on the 15th March from 7 a. to 8 p.; on the 17th March from 3 p. to 8 p.; on the 20th March from 3 p. to 8 p.; on the 21st March from 3 p. to 8 p.; on the 29th March from 3 p. to 8 p.; on the 1st April from 7 a. to 3 p.; on the 22nd April from 11 a. to 4 p.; on the 30th April from 4 p. to 8 p.; on the 4th May from 4 p. to 8 p.; on the 9th May from 4 p. to 8 p.; on the 22nd May from 4 p. to 8 p.; on the 27th May from 4 p. to 8 p.; on the 4th June from 4 p. to 8 p.; on the 8th June from 4 p. to 8 p.; on the 1st November from 7 p. to 8 p.; *i.e.*, on the 22 days as well as during thunder-storms.

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 elsewhere as often and as fully as such information could be justified by the weather telegrams received. This happened on 45 days in 1895. The Red Drum was hoisted 5 times, the Black Drum 3 times, the

Black South Cone 5 times, the Black Ball 1 time, Two Lanterns vertically 3 times, and horizontally 1 time. The Gun was fired one round once in 1895. Printed expresses were circulated twice.

7. During 1895, in addition to meteorological registers kept at about 30 stations on shore, 1,977 ship-logs have been received, 1,708 were forwarded by Captains, and 269 were copied on board ship in the harbour. The ship-logs collected in 1895 were thus distributed:—for 1893, 1 log; for 1894, 59 logs; for 1895, 1,917 logs. The total number of ships, whose log-books have been made use of, was 296. The total number of days' observations was 16,835. These data are collected, reduced, tabulated and made available for the study of typhoons and other meteorological features by Miss Doberck.

8. 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 94,322 observations in all have now been entered.

Table I.

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

Square number.	January.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.
19	0	0	0	0	0	0	0	1	0	0	0	0
20	8	11	6	20	0	0	0	8	0	18	16	13
21	4	17	14	18	28	0	0	0	0	16	8	11
22	0	3	12	12	27	4	29	6	0	8	0	1
23	133	187	42	30	14	0	87	72	31	28	35	156
24	188	148	213	159	122	121	295	234	192	166	255	213
25	80	66	68	56	63	45	79	83	64	98	121	92
26	921	932	1306	1345	1618	1511	1549	1605	1423	1467	1255	1025
27	0	0	0	0	1	1	0	2	3	1	0	0
55	10	20	17	16	18	17	7	13	16	1	10	12
56	19	28	20	12	24	10	14	23	10	22	15	10
57	23	37	27	38	39	7	13	16	9	26	15	23
58	15	32	51	22	65	28	20	24	7	14	41	30
59	69	67	65	21	63	41	73	28	11	56	96	70
60	146	156	129	74	89	128	197	122	84	50	88	103
61	867	892	1289	1216	1652	1695	1547	1554	1697	1361	1142	969
62	769	935	1114	1224	1448	1312	1034	1009	1107	980	864	844
63	2	2	3	6	7	7	3	3	6	4	1	3
91	9	33	14	30	8	9	0	15	14	13	18	43
92	10	30	20	30	4	11	7	11	15	6	15	44
93	7	23	22	20	0	6	1	7	13	19	10	37
94	9	19	6	21	1	3	0	1	21	15	3	10
95	41	56	40	50	39	42	20	5	17	55	41	77
96	996	841	892	901	1293	1300	1243	1214	1026	1178	969	989
97	360	336	429	445	550	552	422	430	454	444	424	405
98	105	64	82	140	169	178	138	135	124	146	135	137
127	49	19	48	19	18	14	25	16	26	31	51	32
128	51	19	52	34	19	31	25	17	19	51	55	46
129	63	20	63	66	26	66	31	39	12	65	64	70
130	94	62	138	127	146	189	213	199	149	178	133	167
131	199	173	171	168	203	247	237	263	187	212	241	186
132	486	370	575	567	782	819	908	781	740	833	714	485
133	0	0	45	31	30	44	47	21	30	43	37	11
163	33	16	26	63	65	110	138	108	95	83	37	35
164	45	23	42	98	83	146	176	143	155	117	60	48
165	51	33	43	82	109	140	196	148	162	110	65	45
166	18	23	19	22	41	27	55	33	53	41	30	21
167	6	0	0	3	4	27	26	46	22	9	16	0
168	0	0	0	0	0	0	0	1	2	1	0	0
199	15	5	17	18	20	19	24	11	35	15	16	19
200	11	3	2	4	0	3	5	0	17	1	5	1
319	11	8	0	9	0	0	0	0	0	6	0	0
320	4	0	11	16	13	0	7	0	0	3	0	0
321	0	0	0	0	1	0	0	0	0	0	0	0
322	1	2	0	0	16	4	7	8	14	0	14	0
323	158	110	140	72	82	50	88	55	86	60	109	129
324	116	60	52	21	43	28	41	42	43	67	56	62
325	136	122	144	177	142	148	208	167	130	110	117	101
	6338	6003	7469	7503	9185	9140	9235	8719	8321	8228	7406	6775

9. 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 4 barometers, 2 anëroids and 76 thermometers were verified. In addition several hundred barometers and anëroids on board ship were compared with our standard.

10. 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 1895.

Date.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1,	2	1	2−	2	2+	3−	3	2+	2	1	3−	2−
2,	2	2−	1	2+	2+	3−	3	2+	2+	2−	2−	2−
3,	2+	2+	1−	2+	2+	3−	4	3−	2+	2−	1−	1+
4,	1	3−	1	2+	2+	2+	5−	2+	2	2−	0	2−
5,	1	2	2−	3−	2	2	3+	2+	2	2+	0	2
6,	1+	1+	2−	2+	2	2−	3+	3−	2−	2−	0	2+
7,	1+	2−	2+	2+	2	3−	4−	3−	1+	2−	1−	2
8,	1	2	3−	3−	2	2+	2+	3−	1	1+	1	2+
9,	2−	3−	2−	3	2+	2+	3−	3−	2−	1	1+	3−
10,	2−	3	2	2	3	2	2+	3−	2−	2−	2−	0+
11,	1+	2−	2−	2	2	2+	3−	4−	2	2−	2−	1
12,	2	2	2	2	2	2+	3	3+	3−	1+	1−	1
13,	2	2+	2+	2	2	3−	3	3	2	1+	0+	1−
14,	2	2	2+	2	2	2+	3	3−	2+	2−	2	1−
15,	2−	3−	4−	2	2+	2+	3	3−	2	2−	2	1+
16,	2	2	3−	2	2	2	3−	3−	2+	2−	2	1
17,	2	3−	2	2	2+	2+	3−	3	2+	2	2	1−
18,	1+	2+	2−	2	3−	2+	2+	3	2	2	2−	0
19,	3−	2−	2−	2+	2+	3−	3−	3+	3−	2	1	1−
20,	2	2	2	3−	3−	2+	3−	3	4−	2	1−	1−
21,	1+	2	2−	2	3−	2+	3	3−	3−	2	1	1−
22,	1+	2−	2−	2+	2+	2+	3	3−	2	2+	0+	1
23,	1	2−	2	2+	4	2+	3	3−	2	2+	1	1
24,	1+	2−	2	3+	3−	2+	3−	3	2	3−	1−	2
25,	1+	1	2	3+	2+	2+	3−	2+	2	2−	1	2−
26,	1+	1+	2+	2	2+	3−	3−	3	3	2+	1+	2
27,	1	2−	2+	2−	2+	3−	3−	3+	3−	2+	2−	2−
28,	1	2−	3	2	2+	3−	4	3	3	2+	2−	2−
29,	1+	...	2−	2+	2+	3+	4	2+	3	2	2	1
30,	1+	...	2	2	3−	3	3	2	1+	2	2	1
31,	2−	...	2+	...	3−	...	3−	3	...	3−	...	1+
Mean,	1.48	2.04	2.06	2.20	2.29	2.37	3.10	2.81	2.20	1.90	1.30	1.39

11. Mr. PLUMMER observed 514 transits in 1895, and levelled the axis of the transit instrument 181 times. The rates of the standard clocks are exhibited in the following tables. They are compared with the rates calculated from formulæ exhibited at the head of the tables. The rate and arc of the standard mean time clock last spring indicated that it was again rusty, and it was cleaned in the beginning of May. Table V. shows the errors of the time-ball in 1895. The probable error was in January 0ˢ 09, in February 0ˢ 19, in March 0ˢ 21, in April 0ˢ 12, in May 0ˢ 13, in June 0ˢ 12, in July 0ˢ 09, in August 0ˢ 11, in September 0ˢ 13, in October 0ˢ 13, in November 0ˢ 12, and in December 0ˢ 11. The errors depend apparently upon the mean amount of clouds, but really upon the periods of cloudy weather when no transits can be obtained. The time-ball is not hoisted on Government holidays. It was not hoisted on the 5th February, as the reversing galvanometer was under repair, on the 29th May, as the lock was under repair, a broken spring being replaced, on the 19th of June, when Mr. Ho To-SHANG, Second Assistant, forgot the key of the tower, on the 28th July owing to a strong gale, on the 14th September, when the line was interrupted, the Public Works Department making alterations, and on the 2nd and 24th November when there was no discharge current, the fault lying with the battery. On 7 days the ball was therefore not hoisted. It was hoisted but failed to drop 5 times. On the 3rd and 28th May the failure was due to the reversing galvanometer being out of adjustment. On the 31st May the piston failed to rest on the tooth of the lock. On the 1st of June the hammer spring was not pulled tight enough. On the 1st of September the cause of failure is not known.

Table III.

Rate of Dent Sidereal Standard Clock in 1895.

$r_c = -0^s.65 - 0^s.063\ (\tau - 70^\circ)$ [arc=3° 4′ ± 2′]

Period.			Observed rate r_c	Temp. τ	Calculated rate. r_c	$r_o - r_c$
			s.	°	s.	s.
December	31—January	10,.....	−0.24	62.5	−0.18	−0.06
January	10— „	20,.....	−0.14	60.5	−0.05	−0.09
„	20— „	30,.....	−0.04	59.7	0.00	−0.04
„	30—February	9,.....	−0.17	60.2	−0.04	−0.13
February	9— „	19,.....	−0.24	61.3	−0.10	−0.14
„	19—March	1,.....	−0.28	63.6	−0.25	−0.03
March	1— „	11,.....	−0.36	65.0	−0.34	−0.02
„	11— „	21,.....	−0.42	65.8	−0.39	−0.03
„	21— „	31,.....	−0.41	64.8	−0.32	−0.09
„	31—April	10,.....	−0.67	70.2	−0.66	−0.01
April	10— „	20,.....	−0.82	72.1	−0.79	−0.03
„	20— „	30,.....	−1.04	74.6	−0.94	−0.10
„	30—May	10,.....	−1.21	77.6	−1.13	−0.08
May	10— „	20,.....	−1.27	78.3	−1.17	−0.10
„	20— „	30, ...	−1.34	79.1	−1.22	−0.12
„	30—June	9,.....	−1.38	78.1	−1.16	−0.22
June	9— „	19,.....	−1.37	81.2	−1.36	−0.01
„	19— „	29,.....	−1.55	85.6	−1.63	+0.08
„	29—July	9,.....	−1.47	83.1	−1.48	+0.01
July	9— „	19,.....	−1.42	83.8	−1.52	+0.10
„	19— „	29,.....	−1.42	84.6	−1.57	+0.15
„	29—August	8,.....	−1.39	82.6	−1.44	+0.05
August	8— „	18,.....	−1.42	82.2	−1.42	0.00
„	18— „	28,.....	−1.51	83.9	−1.52	+0.01
„	28—September	7,.....	−1.45	84.3	−1.55	+0.10
September	7— „	17,.....	−1.23	82.6	−1.44	+0.21
„	17— „	27,.....	−1.26	81.9	−1.40	+0.14
„	27—October	7,.....	−0.95	76.4	−1.05	+0.10
October	7— „	17,.....	−0.98	77.2	−1.10	+0.12
„	17— „	27,.....	−0.99	76.6	−1.07	+0.08
„	27—November	6,.....	−0.76	72.0	−0.78	+0.02
November	6— „	16,.....	−0.55	69.7	−0.63	+0.08
„	16— „	26,.....	−0.49	69.2	−0.60	+0.11
„	26—December	6,.....	−0.60	70.9	−0.71	+0.11
December	6— „	16,.....	−0.39	64.9	−0.33	−0.06
„	16— „	26,.....	−0.22	63.8	−0.26	+0.04
„	26—January	5,.....	−0.30	65.1	−0.34	+0.04

Table IV.

Rate of Brock Standard Mean Time Clock in 1895.

$r_c = -1^s.82 - 0^s.120\ (\tau - 75^\circ) + 0^s.0100\ (t - \text{Mar. } 1.)$

$r_c = -1^s.35 - 0^s.120\ (\tau - 75^\circ) - 0^s.0030\ (t - \text{Sept. } 12.)$

Period.	Observed rate. r_o	Temp. τ	Arc. a	Calculated rate. r_c	$r_o - r_c$
	s.	°	° ′ ″	s.	s.
December 31—January 10,.....	−1.15	67.9	3 56 30	−1.51	+0.36
January 10— „ 20,.....	−0.92	64.6	3 56 42	−1.01	+0.09
„ 20— „ 30,.....	−0.73	63.2	3 56 30	−0.74	+0.01
„ 30—February 9,.....	−0.95	66.0	3 56 36	−0.98	+0.03
February 9— „ 19,.....	−1.08	67.2	3 56 24	−1.03	−0.05
„ 19—March 1,.....	−1.13	69.2	3 55 36	−1.16	+0.03
March 1— „ 11,.....	−1.24	70.7	3 55 30	−1.24	0.00
„ 11— „ 21,.....	−1.36	70.8	3 54 48	−1.16	−0.20
„ 21— „ 31,.....	−1.27	70.4	3 54 24	−1.01	−0.26
„ 31—April 10,.....	−1.45	74.4	3 52 48	−1.39	−0.06
April 10— „ 20,.....	−1.48	76.3	3 52 0	−1.52	+0.04
„ 20— „ 30,.....	−1.63	78.0	3 52 12	−1.62	−0.01
„ 30—May 10,.....	.....	.....	.....	.....	.....
May 10— „ 20,.....	.....	.....	.....	.....	.....
„ 20— „ 30,.....	−1.82	80.0	4 17 54	−1.62	−0.20
„ 30—June 9,.....	−1.82	79.2	4 14 48	−1.55	−0.27
June 9— „ 19,.....	−2.04	82.0	4 15 12	−1.92	−0.12
„ 19— „ 29,.....	−2.26	85.5	4 14 48	−2.37	+0.11
„ 29—July 9,.....	−1.96	83.7	4 14 0	−2.18	+0.22
July 9— „ 19,.....	−1.94	84.0	4 13 24	−2.25	+0.31
„ 19— „ 29,.....	−2.10	84.6	4 13 42	−2.35	+0.25
„ 29—August 8,.....	−2.20	83.4	4 14 6	−2.24	+0.04
August 8— „ 18,.....	−2.38	83.1	4 14 12	−2.23	−0.15
„ 18— „ 28,.....	−2.38	83.6	4 13 42	−2.32	−0.06
„ 28—September 7,.....	−2.39	84.1	4 12 48	−2.42	+0.03
September 7— „ 17,.....	−2.18	83.1	4 13 54	−2.33	+0.15
„ 17— „ 27,.....	−2.15	83.5	4 14 18	−2.40	+0.25
„ 27—October 7,.....	−1.72	77.5	4 14 0	−1.71	−0.01
October 7— „ 17,.....	−1.85	78.8	4 13 54	−1.90	+0.05
„ 17— „ 27,.....	−1.84	80.5	4 14 12	−2.13	+0.29
„ 27—November 6,.....	−1.41	75.7	4 13 54	−1.58	+0.17
November 6— „ 16, ...	−1.22	73.3	4 14 18	−1.33	+0.11
„ 16— „ 26,.....	−1.29	71.9	4 13 42	−1.18	−0.11
„ 26—December 6,.....	−1.51	73.9	4 14 12	−1.46	−0.05
December 6— „ 16,.....	−1.11	67.6	4 14 30	−0.73	−0.38
„ 16— „ 26,.....	−1.06	67.7	4 14 18	−0.78	−0.28
„ 26—January 5,.....	−1.18	68.7	4 14 30	−0.92	−0.26

Table V.

Errors of Time-Ball in 1895.

− means too late. + means too early.

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

12. There fell only half the normal amount of rain during 1895. The excessive drought had no influence on either pressure or temperature. The relative humidity was only two per cent. less than usual. The number of hours with bright sunshine was 149 in excess. The duration of rain was 158 hours less than usual and the intensity of rain was only six-tenths of the average. The wind was normal and the cloudiness very slightly below the mean but the level of the clouds was higher than usual. During the month of August the wind is generally very light and in consequence the daily variation in direction is great, but in 1895 the direction backed throughout the 24 hours. It probably backed most quickly about 7 a. or 8 a.

13. Slight shocks of earthquake were noticed on the 30th August at 5.45 p. and other shocks occurred during the following night.

14. 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.

15. 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.

16. The following annual Weather Report for 1893 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 600 hours. There fell at least 0.01 inch of rain on 124 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.

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

17. Observations of magnetic declination and horizontal force were made by Mr. Plummer and reduced by Mr. Figg 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 3.44930 at 26°. The value of P was + 7.69. The mean value of the magnetic moment of the vibrating needle was 0.45175 in English units and 589.80 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 1895.

	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,	+.002	—.007	—.014	—.017	—.012	+.002	+.018	+.032	+.043	+.043	+.036	+.016	—.007	—.027	—.040	—.044	—.040	—.030	—.016	.000	+.013	+.020	+.018	+.012	29.846
Temperature,	— 1.6	— 1.8	— 2.0	— 2.1	— 2.2	— 2.2	— 1.6	— 0.5	+ 0.7	+ 1.5	+ 2.4	+ 2.9	+ 3.1	+ 3.0	+ 2.7	+ 2.1	+ 1.1	+ 0.1	— 0.4	— 0.6	— 0.9	— 1.0	— 1.3	— 1.4	71.6
Diurnal Range,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8.6
Humidity,	+ 5	+ 6	+ 5	+ 5	+ 5	+ 4	+ 3	0	— 3	— 5	— 7	— 8	— 8	— 8	— 7	— 6	— 3	0	+ 1	+ 2	+ 3	+ 4	+ 5	+ 5	76
Vapour Tension,	+.006	+.005	+.061	.000	—.003	—.006	—.004	—.006	—.005	—.009	—.006	—.005	—.003	—.004	—.003	—.004	—.002	+.001	+.004	+.007	+.008	+.010	+.009	+.008	0.622
Sunshine (Total),	...	...	...	...	...	12.0	87.5	154.1	185.8	193.8	209.9	212.5	221.2	218.1	209.4	195.2	124.3	24.1	...	...	...	...	...	...	2047.9
Rainfall, (Total).	1.160	2.025	1.710	1.700	3.095	3.080	2.420	2.180	1.780	2.755	2.210	1.790	2.855	1.675	2.680	2.210	1.865	2.590	0.950	0.940	0.940	1.265	1.035	0.925	45.835
Hours of Rain (Total),	34	33	31	34	33	44	36	24	29	29	25	31	34	28	28	25	23	25	27	26	22	30	21	27	699
Intensity of Rain,	0.034	0.061	0.055	0.050	0.094	0.070	0.067	0.091	0.061	0.095	0.088	0.058	0.084	0.060	0.096	0.088	0.081	0.104	0.035	0.036	0.043	0.042	0.049	0.034	0.066
Wind-Velocity,	— 0.7	— 0.7	— 0.6	— 1.1	— 1.3	— 1.6	— 1.5	— 0.4	+ 0.6	+ 1.2	+ 1.8	+ 2.3	+ 2.3	+ 2.0	+ 1.8	+ 1.5	+ 1.1	+ 0.1	— 1.0	— 1.6	— 1.2	— 1.2	— 0.8	— 0.9	12.6
Wind-Direction,	— 11°	— 13°	— 11°	— 12°	— 13°	— 12°	— 15°	— 18°	+ 11°	+ 13°	+ 13°	+ 17°	+ 16°	+ 17°	+ 15°	+ 12°	+ 6°	+ 5°	0°	— 2°	— 8°	— 10°	— 9°	— 9°	E 3° S
Cloudiness,	— 3	...	...	+ 4	...	...	+ 5	...	...	+ 4	...	...	— 2	...	...	— 2	...	...	— 5	...	...	— 7	...	...	63
Solar Radiation,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	126.5
Excess of do. do.,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	50.0

Table VII.

Number of Hours during portion of which it rained for each Month in the Year 1895.

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,	2	2	3	5	3	3	1	...	...	1	...	1	1	1	1	1	2	1	4	2	...	2	...	1	37
February,	2	1	1	1	2	3	2	3	2	2	1	2	4	1	1	1	2	2	1	2	1	4	1	2	44
March,	3	1	...	2	1	4	3	3	4	3	3	1	1	1	1	2	1	1	1	...	...	...	1	2	39
April,	2	1	2	1	...	3	...	1	2	2	3	2	1	1	2	1	1	...	...	1	1	1	2	1	31
May,	5	6	7	5	5	7	4	3	2	2	1	4	7	5	4	5	2	3	4	4	5	5	5	5	105
June,	5	6	5	3	4	5	6	3	3	2	2	3	3	4	3	3	2	3	1	3	1	5	2	4	81
July,	3	5	4	6	6	9	8	5	7	7	7	9	6	6	8	4	4	4	5	5	5	4	4	3	134
August,	4	4	2	2	4	3	6	2	5	5	4	4	5	5	4	3	2	3	2	1	...	1	...	2	73
September,	4	4	4	5	3	4	4	2	3	4	3	4	4	3	3	3	5	4	5	4	5	4	3	2	89
October,	2	1	1	1	3	2	2	2	1	1	...	...	1	1	1	1	2	2	2	1	1	1	1	3	33
November,	1	1	1	1	1	1	...	...	...	...	...	...	...	...	...	1	...	2	2	1	1	1	1	1	16
December,	1	1	1	2	1	...	...	...	...	...	1	1	1	...	...	...	...	...	...	2	2	2	1	1	17
Total,	34	33	31	34	33	44	36	24	29	29	25	31	34	28	28	25	23	25	27	26	22	30	21	27	699

Table VIII.

Number of Days with Wind from eight different points of the Compass during each Month of the Year 1895.

Month.	N.	NE.	E.	SE.	S.	SW.	W.	NW.
January,	5	6	18	...	...	...	1	1
February,	2	3	21	...	...	...	1	1
March,	6	4	17	2	...	1	...	1
April,	...	...	20	5	2	...	2	1
May,	...	3	15	4	3	4	2	...
June,	...	1	13	2	5	7	2	...
July,	...	1	3	5	5	14	3	...
August,	2	2	7	1	4	9	6	...
September,	5	5	14	...	1	...	2	3
October,	2	3	24	1	...	...	...	1
November,	7	4	17	...	...	...	1	1
December,	7	5	19	...	...	...	...	...
Sums,	36	37	188	20	20	35	20	9

Table IX.

Total number of Days on which different Meteorological Phenomena were noted and Total Number of Thunderstorms during each Month of the Year 1895.

Month.	Fog.	Electric Phenomena.	Lightning.	Thunder.	Thunder-storms.	Unusual Visibility.	Dew.	Rainbow.	Lunar Halo.	Lunar Corona.	Solar Halo.	Solar Corona.
January,	4	...	...	...	...	1	6	...	...	1	...	...
February,	4	...	...	...	...	...	2	...	...	...	...	...
March,	5	1	1	1	1	1	1	1	...	...	...	...
April,	5	3	3	3	2	...	5	...	...	1	3	...
May,	1	14	14	5	2	1	10	3	5	4	2	...
June,	2	12	12	5	2	...	9	6	...	12	5	2
July,	...	20	20	7	4	...	16	5	9	16	8	1
August,	10	16	13	12	...	...	19	6	9	10	8	...
September,	6	5	5	2	1	1	7	2	8	6	7	...
October,	...	...	...	...	...	...	5	1	2	2	1	...
November,	1	...	...	...	...	...	6	...	1	2	3	...
December,	2	...	...	...	...	...	7	...	1	4	...	...
Sums,	40	71	68	35	12	4	93	24	35	58	37	3

Table X.

Total Number of Times that Clouds of different forms were observed in each Month of the Year 1895.

Month.	c.	c-str.	c-cum.	sm-cum.	cum.	cum-str.	str.	R-cum.	cum-nim.	nim.
January,	...	...	3	31	103	...	25	6	4	28
February,	...	...	4	33	119	...	45	3	7	17
March,	...	...	8	38	138	...	44	12	3	21
April,	...	9	19	51	171	...	21	7	4	17
May,	...	13	54	31	136	1	12	2	12	42
June,	...	16	59	52	173	...	6	7	12	27
July,	...	38	81	9	165	...	4	6	16	34
August,	1	27	66	23	164	1	15	7	8	25
September,	...	22	72	24	104	...	3	7	8	29
October,	...	6	34	43	156	...	14	3	10	12
November,	...	11	30	56	81	...	27	...	4	13
December,	...	4	32	68	95	...	36	...	...	12
Sums,	1	146	462	459	1605	2	252	60	88	277

Table XI.

Month.	Barometric Tide.	Mean Diurnal Variability of Temperature.	Weight of Water Vapour in Troy Grains in each cubic foot of Air.	Rainfall.		Hourly Intensity of Rain.	Mean Direction of Clouds whence coming.			Number of Days with Clouds below	
				Mean.	1895.		Lower.	Upper.	Cirrus.	2,000 ft.	1,000 ft.
January, ...	0.107	2°.05	3.84	0.98	0.410	0.005	E 8° N	W 10° N	...	14	4
February, ...	0.101	2 .12	4.62	1.32	0.835	0.023	E 20° S	W	...	13	6
March, ...	0.109	3 .60	5.16	3.24	1.390	0.030	S 37° E	W 23° S	...	12	8
April, ...	0.097	1 .88	7.22	5.27	2.605	0.081	S 22° E	W 7° S	...	16	8
May, ...	0.084	2 .53	8.25	12.54	5.640	0.058	S 2° W	W 15° N	..	17	8
June, ...	0.070	0 .96	9.00	15.81	4.970	0.092	S 27° E	W 9° S	...	10	3
July, ...	0.071	0 .98	9.38	15.98	18.870	0.233	S 31° W	N 17° E	...	10	1
August, ...	0.075	1 .14	9.19	14.85	6.125	0.122	S 20° W	N 21° W	...	3	1
September, ...	0.079	1 .67	7.57	12.65	3.965	0.066	E 29° N	W 11° N	...	4	4
October, ...	0.089	1 .01	6.97	5.36	0.500	0.017	E 1° N	W 24° N	...	6	1
November, ...	0.097	2 .10	4.80	1.17	0.325	0.025	E 8° N	W 21° S	...	2	1
December, ...	0.101	2 .00	4.21	1.00	0.200	0.010	E	W 9° S	...	2	1
Mean, ...	0.090	1 .84	6.68	90.17	45.835	0.064	E 40° S	W 14° N	...	109	46

Table XII.

Monthly Extremes of the Principal Meteorological Elements registered during the year 1895.

Month.	Barometer.		Temperature.		Humidity.	Vapour Tension.		Rain.		Wind Velocity.	Radiation.
	Max.	Min.	Max.	Min.	Min.	Max.	Min.	Daily Max.	Hourly Max.	Max.	Sun Max.
January, ...	30.223	29.896	70.4	43.5	30	0.533	0.172	0.145	0.060	39	129.5
February, ...	.218	.608	72.3	49.3	18	0.692	0.119	0.385	0.140	39	138.5
March, ...	.240	.638	79.4	47.4	24	0.784	0.129	0.870	0.685	33	138.5
April, ...	.058	.623	84.8	63.2	31	0.882	0.243	1.865	1.265	32	140.9
May, ...	.045	.570	88.6	68.7	45	0.987	0.391	1.275	0.800	39	147.6
June, ...	29.831	.404	93.6	73.3	53	1.053	0.592	1.230	0.445	36	147.9
July, ...	.810	.330	91.3	73.4	55	1.004	0.703	4.250	1.630	53	150.7
August, ...	.840	.473	90.1	74.6	48	1.009	0.562	1.525	0.670	39	158.9
September, ...	.871	.438	94.0	65.6	25	0.994	0.257	0.835	0.515	44	152.4
October, ...	30.030	.733	84.3	62.7	41	0.844	0.377	0.205	0.070	33	149.8
November, ...	.239	.750	79.9	54.2	20	0.777	0.109	0.230	0.120	38	141.8
December, ...	.239	.828	77.3	47.0	18	0.670	0.075	0.105	0.030	33	139.6
Year, ...	30.240	29.330	94.0	43.5	18	1.053	0.075	4.250	1.630	53	158.9

Table XIII.

Five-Day Means of the Principal Meteorological Elements observed at Hongkong in 1895.

Five-Day Periods.	Barometer.	Temperature.	Humidity.	Vapour Tension.	Wind Velocity.	Nebulosity.	Sunshine.	Rain.
January 1- 5	30.035	60.2	75	0.397	11.7	8.1	3.2	0.015
" 6-10	29.970	60.9	80	0.429	15.9	2.5	9.1	0.000
" 11-15	30.007	55.3	84	0.371	17.4	9.7	1.0	0.010
" 16-20	.091	48.4	79	0.271	7.5	10.0	0.0	0.056
" 21-25	.131	54.5	68	0.292	10.5	4.3	6.3	0.001
" 26-30	.069	58.7	62	0.308	12.7	1.2	9.2	0.000
" 31- 4	29.850	59.1	74	0.371	20.1	6.9	4.0	0.003
February 5- 9	.930	56.7	76	0.355	16.0	9.6	0.7	0.140
" 10-14	.963	60.1	88	0.462	16.4	9.7	0.7	0.020
" 15-19	.975	60.5	84	0.446	14.4	8.7	1.5	0.004
" 20-24	30.128	61.0	75	0.404	12.0	7.2	4.3	0.000
" 25- 1	.014	65.7	77	0.495	14.3	5.6	6.6	0.000
March 2- 6	.069	60.6	61	0.329	15.1	3.0	9.4	0.004
" 7-11	29.860	65.3	89	0.556	15.3	9.2	1.8	0.007
" 12-16	.794	68.0	91	0.633	9.9	9.7	1.1	0.090
" 17-21	30.091	55.7	74	0.335	8.3	8.6	2.3	0.000
" 22-26	29.863	65.2	83	0.525	13.1	7.3	4.1	0.000
" 27-31	.997	62.6	73	0.431	16.1	7.4	4.1	0.177
April 1- 5	.832	70.6	82	0.623	11.5	7.6	4.0	0.002
" 6-10	.865	71.8	80	0.635	12.6	9.1	2.6	0.004
" 11-15	.949	69.6	81	0.586	16 3	7.7	4.9	0.000
" 16-20	.810	75.1	83	0.724	6.0	6.7	4.6	0.017
" 21-25	.761	72.3	89	0.703	13.6	8.1	3.3	0.495
" 26-30	.771	74.5	87	0.746	13.0	7.5	4.4	0.003
May 1- 5	.870	76.0	81	0.734	11.0	6.3	5.6	0.035
" 6-10	.783	76.7	81	0.749	7.0	4.0	7.1	0.048
" 11-15	.748	76.6	72	0.658	10.7	3.9	9.1	0.000
" 16-20	.722	77.7	83	0.787	15.5	7.8	4.0	0.193
" 21-25	.700	77.4	86	0.807	16.0	8.3	3.8	0.378
" 26-30	.640	78.8	89	0.878	10.6	8.7	3.2	0.404
" 31- 4	.686	77.0	89	0.828	10.4	8.8	1.3	0.516
June 5- 9	.778	76.4	80	0.728	13.2	8.7	3.6	0.019
" 10-14	.783	80.2	84	0.863	22.2	8.8	4.2	0.076
" 15-19	.690	84.0	75	0.873	8 6	4.4	11.2	0.031
" 20-24	.664	84.5	73	0.859	5.9	2.5	11.1	0.010
" 25-29	.551	83.8	80	0.931	11.3	5.1	8.3	0.392
" 30- 4	.549	82.6	83	0.919	14.2	7.7	4.9	0.949
July 5- 9	.666	81.1	84	0.891	9.7	8.2	4.5	0.489
" 10-14	.710	82.8	77	0.865	9.2	6.8	9.0	0.076
" 15-19	.660	83.5	78	0.893	8.0	3.6	10.7	0.065
" 20-24	.582	83.5	75	0.868	6.0	4.1	10.5	0.000
" 25-29	.593	79.4	88	0.879	18.0	7.4	4.1	1.787
" 30- 3	.736	81.2	84	0.888	11.4	4.4	8.6	0.445
August 4- 8	.655	82.9	78	0.882	5.5	2.7	10.8	0.072
" 9-13	.634	79.2	88	0.879	7.5	8.3	2.1	0.990
" 14-18	.631	81.6	83	0.900	4.5	7.4	6.5	0.036
" 19-23	.604	82.0	82	0.892	4.9	4.0	8.9	0.014
" 24-28	.594	81.2	81	0.861	6.7	6.2	5.6	0.069
" 29- 2	.583	82.0	73	0.797	11.1	7.1	7.9	0.057
September 3- 7	.570	85.0	58	0.701	8.6	2.2	10.8	0.000
" 8-12	.801	80.5	60	0.632	18.4	5.4	6.8	0.004
" 13-17	.744	81.2	76	0.812	13.7	3.0	8.2	0.004
" 18-22	.715	79.9	78	0.794	15.0	7.3	5.8	0.305
" 23-27	.687	77.8	65	0.607	12.0	6.0	6.0	0.190
" 28- 2	.307	72.9	71	0.572	10.3	5.4	5.6	0.260
October..... 3- 7	.872	75.9	72	0.647	18.1	5.8	7.3	0.000
" 8-12	.916	76.0	67	0.615	18.3	3.4	9.1	0.000
" 13-17	.881	75.4	78	0.683	17.0	3.9	7.3	0.000
" 18-22	.847	76.3	83	0.756	14.5	6.9	4.8	0.041
" 23-27	.938	71.5	72	0.561	14.1	7.8	4.7	0.048
" 28- 1	.801	74.5	81	0.693	14.3	9.5	1.1	0.057
November 2- 6	30.063	62.2	40	0.229	15.5	4.0	7.3	0.000
" 7-11	29.935	71.0	67	0.518	10.1	6.0	6.7	0.000
" 12-16	30.054	68.1	63	0.433	16.1	7.8	3.9	0.009
" 17-21	.080	68.0	63	0.441	16.8	2.5	8.9	0.000
" 22-26	.020	65.6	66	0.424	8.9	1.4	9.0	0.001
" 27- 1	.076	69.1	80	0.571	16.5	9.1	2.5	0.009
December..... 2- 6	29.941	69.6	79	0.568	13.8	4.5	7.5	0.000
" 7-11	.971	61.0	71	0.410	10.3	8.6	2.8	0.034
" 12-16	30.101	57.9	34	0.167	9.1	6.7	3.4	0.000
" 17-21	.093	62.1	52	0.296	14.1	1.4	9.4	0.000
" 22-26	.082	64.3	74	0.450	15.1	6.9	4.4	0.006
" 27-31	.146	63.3	67	0.392	15.2	5.4	6.6	0.000

Table XIV.

Observations of Magnetic Declination and Dip.

1895.	H.K.M.T.	Declination East.	Observer.	H.K.M.T.	Dip North.	Needle No.	Observer.
February, ...	12d. 4h. 26m. p.	0° 28′ 20″	J.I.P.	12d. 3h. 18m. p.	31° 49′.35	3	J.I.P.
	14 2 31 p.	30 00	"	"	49 .75	4	"
	15 2 47 p.	31 30	"	14 3 55 p.	49 .78	3	"
	16 2 48 p.	28 56	"	"	48 .63	4	"
April, ...	16 4 29 p.	29 29	"	15 3 28 p.	48 .16	3	"
	17 3 24 p.	26 14	"	"	49 .75	4	"
	19 2 32 p.	24 09	"	19 3 53 p.	47 .53	3	"
	20 3 04 p.	25 52	"	"	48 .50	4	"
July, ...	15 4 44 p.	27 24	"	15 3 39 p.	45 .97	3	"
	17 2 26 p.	27 54	"	"	46 .63	4	"
	18 2 52 p.	28 06	"	17 3 48 p.	45 .35	3	"
	19 2 57 p.	27 53	"	"	46 .59	4	"
August, ...	12 4 32 p.	27 27	"	12 3 25 p.	47 .16	3	"
	14 2 28 p.	25 46	"	"	47 .44	4	"
	15 2 33 p.	26 31	"	14 3 53 p.	45 .78	3	"
	16 2 47 p.	27 14	"	"	47 .25	4	"
October, ...	10 3 08 p.	26 54	"	12 3 10 p.	41 .60	3	"
	11 2 45 p.	26 03	"	"	43 .03	4	"
	12 4 11 p.	28 20	"	15 4 08 p.	45 .66	3	"
	15 2 40 p.	27 36	"	"	47 .17	4	"
December, ...	16 4 24 p.	25 21	"	16 3 18 p.	45 .60	3	"
	18 2 27 p.	29 55	"	"	45 .28	4	"
	19 3 05 p.	28 45	"	18 3 48 p.	42 .07	3	"
	20 3 10 p.	30 20	"	"	43 .78	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 $\frac{m}{X}$	Value of X.	Observer.
1895.												
February 13....	3h. 10m. p.	3s .6163	19°.0	2.33269	590.27	2h. 35m. p.	30	19°.2	6° 53′ 44″	3.20940	0.36446	J.I.P.
							40		2 53 40			
						3 56 p.	30	19 .6	6 53 50			
							40		2 53 45			
April 18,...	3 40 p.	3 .6246	28 .9	2.33293	590.13	2 59 p.	30	28 .6	6 51 56	3.20897	0.36474	"
							40		2 52 41			
						4 30 p.	30	29 .0	6 52 04			
							40		2 52 46			
July 16,...	3 31 p.	3 .6297	31 .5	2.33251	589.32	2 51 p.	30	31 .6	6 50 43	3.20818	0.36489	"
							40		2 52 09			
						4 21 p.	30	31 .6	6 50 41			
							40		2 52 13			
August 13....	3 52 p.	3 .6256	26 .9	2.33266	589.66	3 13 p.	30	26 .6	6 51 54	3.20854	0.36480	"
							40		2 52 47			
						4 43 p.	30	26 .8	6 51 42			
							40		2 52 46			
October 14,...	3 50 p.	3 .6281	28 .2	2.33370	590.76	3 06 p.	30	28 .0	6 51 57	3.20912	0.36500	"
							40		2 52 59			
December 17....	3 18 p.	3 .6250	20 .9	2.33211	588.68	2 40 p.	30	21 .8	6 51 18	3.20766	0.36494	"
							40		2 52 39			
						4 10 p.	30	20 .5	6 52 16			
							40		2 53 11			

Table XVI.

Results of Magnetic Observations in 1895.

Month.	Declination East.	Dip North.	MAGNETIC FORCE.								
			English Units.			Metric Units.			C. G. S. Units.		
			X.	Y.	Total.	X.	Y.	Total.	X.	Y.	Total.
1895.											
February, ...	0° 29′ 41″	31° 49′ 23″	7.9044	4.9054	9.3027	3.6446	2.2618	4.2893	0.36446	0.22618	0.42893
April, ...	26 26	48 29	7.9104	4.9063	9.3085	3.6474	2.2622	4.2920	0.36474	0.22622	0.42920
July, ...	27 49	46 08	7.9137	4.9007	9.3083	3.6489	2.2596	4.2919	0.36489	0.22596	0.42919
August, ...	26 44	46 55	7.9119	4.9021	9.3074	3.6480	2.2603	4.2915	0.36480	0.22603	0.42915
October, ...	27 13	44 22	7.9161	4.8965	9.3081	3.6500	2.2577	4.2918	0.36500	0.22577	0.42918
December, ...	28 35	44 11	7.9148	4.8952	9.3064	3.6494	2.2519	4.2910	0.36494	0.22519	0.42910
Mean.....	0 27 45	31 46 35	7.9119	4.9010	9.3069	3.6480	2.2589	4.2912	0.36480	0.22589	0.42912

Appendix A.

THE TYPHOONS IN 1895,

By W. Doberck and F. G. Figg.

JANUARY.

The first typhoon in 1895 crossed Yap (lat. 9° 30′, and long. 138° 16′) and Palaos in January, the centre moving from east to west. For several days before the 20th the air was clear, the NE monsoon was blowing moderately and the sea was smooth. The barometer stood somewhere at about 29.8. Very slight flashes of lightning were usually noticed at night. The following account has been furnished by Captain O'Keefe and Herr Paul Hagen. They did not notice any signs of bad weather but state that a common sailor expected a typhoon for several days before the wind burst, for which people laughed at him. On Saturday, the 19th, the barometer began to fall On the morning of the 20th the wind blew from NW in squalls at first light but afterwards with violent typhoon force. The sky was cloudy but not a drop of rain fell. After 6 p. the wind calmed down. The calm lasted till 10 p. The barometer (about 29.2) continued falling slowly. The sky was densely overcast, but no rain fell. Then the wind rose again from NE veering to SE. The barometer reached its minimum (about 29.1) near 1 a. From 1 a. to 3 a. it blew a fearful typhoon from SE with some rain. But there fell very little in this typhoon. Most of the houses were unroofed or blown to pieces. People were blown over except when four or five men clutched each other tightly. The sea rose ten feet above its spring height and carried away the warehouses. Cocoanut and mighty trees which had been uprooted by the NW typhoon were lifted up and thrown over in the opposite direction by the SE typhoon. After 3 a. the wind began to moderate. The barometer continued rising for a week. The wind backed to NE.

MAY.

On the 11th at 10.30 a. "A depression appears to be situated off the SW coast of Luzon." At 11.10 a. Forecast:—"barometer steady: fresh or strong NE breezes: fair."

On the 12th at 11.10 a. "Depression still lies off the SW coast of Luzon." Forecast:—"barometer falling: moderate NE or N winds: fine."

On the 13th at 10.50 a. "The depression continues to lie over Luzon and neighbourhood." At 11.10 a. Forecast:—"barometer falling: moderate N or NE winds: fine."

On the 14th at 10.45 a. "The depression over Luzon appears to be passing slowly away to the Eastward." At 11.10 a. Forecast:—"barometer steady: moderate NE winds: fine."

On the 11th and 12th a shallow depression (II) lay off the SW coast of Luzon in about 14° to 15° latitude.

On these two days pressure was about 0.2 inch below the normal at Bolinao and Manila and wet weather prevailed at both places, winds being light chiefly from an E and SE direction. The S.S. *Yuensang* experienced strong NE breezes at noon on the 11th in 17° 44,′ 117° 37′ and on the 12th in 15° 03′, 119° 58′ at noon, the barometer (29.66) having fallen 0.15 inch since the previous day, a moderate SE gale, veering to SW as the vessel proceeded southwards, was encountered accompanied by rainsqualls and a cross sea. Off the Annam coast (barometer about 29.82) and to the S of Hongkong (barometer 29.90) winds were chiefly light or moderate NE breezes on this day.

Between the 12th and 13th a further decrease of pressure took place in Luzon. At 4 p. on the latter date the following observations were telegraphed:—Bolinao, 29.59 NW 2 o; Manila 29.61 SSW 4 og; but on the 14th the barometer had risen about 0.1 inch at both places gentle NW breezes prevailing at Bolinao and moderate SW breezes at Manila.

In the absence of complete observations the depression would appear to have moved slowly towards NE between the 12th and 14th. On the 15th it may have been in 22°, 126°; on the 16th in 25°, 128°; and on the 17th in 30°, 132°. The bark *Belmont* in about 25°, 132½° had SE 10 and a fast falling barometer at midnight on the 16th, veering to SSW 9 on the morning of the 17th.

JUNE.

On the 10th at 10.50 a. "There are some indications of the existence of a depression to the SW of Luzon." Forecast:—"barometer falling: fresh or strong NE breezes: fair to showery."

On the 11th at 11.0 a. "The low pressure area appears to be situated in the neighbourhood of the Paracels." Forecast:—"barometer falling: fresh or strong NE to E breezes: unsettled, showery."

On the 12th at 10.20 a. "The depression appears to be now situated in the S part of the Gulf of Tongking and to be moving towards NW." At 11.10 a. Forecast:—"barometer unsteady: strong or fresh E to SE breezes: showery and squally."

On the 12th at 4.15 p. "The centre of the depression is approaching the neighbourhood of Haiphong." On the 13th at 10.45 a. The depression, moving northward, entered the coast near Haiphong during the night." At 11.20 a. Forecast:—"barometer falling: fresh SE winds: squally and showery."

The depression (III) indicated above was probably formed to the NW of Palawan between the 8th and 9th of June. This is not clearly established as information is wanting from that part of the China Sea. Calms and light variable breezes had prevailed across the China Sea between the parallels of 10° and 20° on the two or three days previous to the 8th. On this day, however, owing to a considerable increase of pressure over China, NE and E winds, moderate or light in force, became general over the Northern and Western part of the above area. Pressure in Luzon was slightly in defect, while at Hongkong it was about 0.1 inch, and at Shanghai about 0.2 inch, above the normal.

On the 9th the relative conditions as to pressure were almost unchanged. At Shanghai the barometer read 29.96, at Hongkong 29.91, at Bolinao 29.81 and off the Cochin-China coast 29.83. In the latter district moderate breezes from NNW to NNE prevailed; in the China Sea to the N of 15° latitude winds were moderate breezes from NE and E, while at Bolinao a light SE breeze prevailed. On this day there was therefore a tendency for winds to become cyclonic about that part of the China Sea to the NW of Palawan, or perhaps around the position 12°, 117°½.

On the 10th the existence of a cyclonic depression is clearly shown by the observations made at sea, and the centre was situated in 14° 00′, 114° 00′ at noon on this day.

The schooner *Queen City*, in the right-hand semicircle, and situated in 14° 43′, 116° 16′ at noon, experienced a strong ESE veering to SE gale during this day, the barometric minimum, 29.59, occurring at 8 a. The steamships *Shanghai*, *Kutsang*, *Glenartney* and *Shantung* were all situated at noon in the area comprised by latitute 14° 11′, 14° 47′ and longitude 112° 12′, 112° 36′. They were thus directly in front of the advancing typhoon which at the time was moving towards WNW. On board the *Shanghai*, which was steering S 30° W, a heavy cloud bank was noticed in the E and SE during the early morning and this gradually overspread the sky. At 9 a. a sharp thunderstorm was experienced with strong wind from NNE. The barometer then commenced to fall rather rapidly, but they continued on their course and ran across the path in front of the centre during the afternoon; a fresh gale backing from N to WNW being encountered, the minimum barometer reading, 29.49, occurring at 6 p. The *Kutsang*, steering about NNE for Hongkong, had a strong breeze from N by W at noon with the barometer, 29.64, falling fast. They rightly turned the vessel round at this time and steered S 15° W experiencing a fresh NW backing to WSW gale which decreased after 10 p. The barometric minimum, 29.43, occurred at 6 p. The *Glenartney*, also bound for Hongkong, had similar weather to the *Kutsang* at noon, but they were a little later in turning the vessel round and had much worse weather than the *Kutsang*. The barometer fell to 29.36 at 6 p. and a whole gale and storm from NW backing to S was experienced. The *Shantung* was hove to at noon in 14° 26,′ 112° 36.′ The barometer, 29.59, was falling fast at the time and a moderate NW by N gale was blowing. The barometer continued to fall and the wind, which was slowly backing, increased quickly in force. Between 7 p. and 10 p. typhoon force of wind was experienced from WSW backing to S, the barometric minimum, 28 97, occurring at 7.30 p. at which hour the centre passed a little to the N of the vessel.

The steps taken to avoid the typhoon in the case of these four vessels furnish particularly interesting examples for comparison. It is seen that the *Shanghai* came out in safety by crossing the track in front of the centre, thus passing from the dangerous to the manageable semicircle. The *Kutsang*, *Glenartney* and *Shantung* were all steering for Hongkong, and within a few miles of each other at noon. The *Kutsang* then turned round in time and ran to the southward. The *Glenartney* executed the same manœuvre but a little too late and had much worse weather than the *Kutsang*, while the *Shantung* was hove to near the track in front of the centre and in consequence experienced the full force of the typhoon.

On the 11th at noon the centre was situated in 16° 30′, 110° 15′. The vessels chiefly concerned on this day were the steamships *Erato* and *Norden* and the Chinese Customs' Cruiser *Likin*. The *Erato*, hove to, had an increasing NNE gale with rapidly falling barometer during the early morning and at 8 a., the vessel being situated in 15° 54′, 110° 23′, they had storm force of wind from NNW. Between this hour and noon the wind backed steadily to SSW, typhoon force of wind being experienced from 9 a. to 11 a. The mercury descended to 29.01 at 9 a. at which hour the centre was passing to the NE and N of, and very close to, the vessel. The *Norden* hove to in the left-hand semicircle, and situated in 17° 43′, 108° 19′, had an increasing N gale at noon. The centre passed a little to the E of the vessel at 7 p. at which hour the barometric minimum, 29.11, occurred, with the wind of storm force from NNW. The wind backed to SW at 9 p. and decreased rapidly in force. The *Likin* at anchor in Yulinkan harbour (18° 12′, 109° 33′) was in the right-hand semicircle. The barometer fell to 29.43 at 8 p and a whole gale from ENE veering to SE, with squalls of typhoon force, was experienced during the afternoon and evening.

The path of the typhoon inclined more and more towards N between midnight of the 10th and the same hour of the 11th and on the 12th, in the Gulf of Tongking, it was moving towards NNW. At noon on this day the centre was situated in 20° 00′, 107° 40′ and about 8 p. it entered the coast to the E of Haiphong where a strong NNW backing gale was experienced during the evening.

Between the 10th and 12th the disturbance moved at an average speed of 11 miles per hour.

The following observations are extracted from the logs of the steamers *Shanghai*, *Kutsang*, *Glenartney* and *Shantung*:—

S.S. Shanghai.

June 10	2 a.					29.77	NE	3	lt.	very heavy cloud bank from E to SE.
	9 a.	15	15	112	35	.76	N/E	5	orqtl.	
	noon	14	47	112	29	.67	N/E	6	or.	Heavy swell making up from E.
	2 p.	Steering S 30° W true, 11 knts.				.57	NNW	7–8	or.	
	4 p.	"	"	"	"	.50	NW/W	8–9	orq.	considerable confused beam sea.
	6 p.	"	"	"	"	.49	WNW	8–7	orq.	weather moderating and evidently clearing.
	8 p.	"	"	"	"	.56	"	6–5		
	midt.	"	"	"	"	.66	W/N	5		wind decreasing fast.

S.S. Kutsang.

June 10	4 a.					29.74	N	3	om.	NNE swell.
	8 a.					.74	N/W	4	ogq.	Moderate NNW swell, very threatening appearance.
	noon	14	22	112	16	.64	"	6	omgr.	E swell making up, turned and steered S 15° W true.
	2 p.	14	19	112	18	.50	NW/N	6	ogrq.	Cross sea.
	4 p.	14	5	112	14	.45	NW½N	7	ogrq.	High cross sea.
	6 p.	13	51	112	10	.43	NW½W	8	ogrq.	
	8 p.	13	37	112	6	.48	WNW	8	"	
	10 p.	13	23	112	2	.59	WSW	6	ogr.	Weather improving, turned and headed N 30° E true.
	midt.	13	34	112	15	.59	SW	5	ogr.	Moderate cross sea.

S.S. Glenartney.

June 10	4 a.					29.73	N	5	o.	dull, ENE swell.
	8 a.					.72	NNW	5	or.	
	noon	14	11	112	12	.64	"	6	o.	dull, threatening, ship pitching and rolling.
	1 p.	Turned ship round and went S.				.58	"	7	ogq.	sea increasing, water on board.
	2 p.					.49	NW/N			Cross sea, and swells from SSW and E.
	3 p.					.45	NW			Water on board.
	4 p.					.41	WNW			
	5 p.					.38	W/N			
	6 p.					.36	W	10	orq.	High cross sea. Engines going slow, head to sea.
	7 p.					.36	W/S			Water on board.
	8 p.					.37	WSW			
	9 p.					.48	SW/W			
	10 p.					.53	SW	11	ogrq.	
	11 p.					.54	S	"		
	midt.					.53	S/E	"	orq.	
June 11	1 a.					...	SE	"	"	
	4 a.					.61	"	...		wind abating, weather improving, still a very high.
	8 a.					...	"	6	orq.	cross sea. Clearing.
	noon	15	16	113	29	...	"	"	c.	"

S.S. Shantung.

June 10	4 a.	13	31	111	57	29.73	NNW	5	ol.	
	6 a.	13	47	112	3	.72	"	4	o.	
	8 a.	14	3	112	9	.72	"	4	o.	
	10 a.	14	18	112	14	.69	NW/N	6	orq.	High E sea.
	noon	14	26	112	36	.59	"	7	"	" "
	1 p.	14	24	112	35	.51	NW	8	"	" "
	2 p.	14	21	112	35	.44	NW/W	9	"	
	3 p.	14	18	112	35	.37	"	"	"	
	4 p.	14	20	112	34	.26	WNW	10	"	
	5 p.	14	20	112	34	.18	W	10		
	6 p.					.03	W/S	11		
	7 p.					28.99	WSW	12		Terrific gale, most violent squalls and mountainous sea.
	7.30 p.					.96	"	"		
	8 p.					.98	SW	"		
	9 p.					29.02	SSW	"		
	10 p.					.22	S	"		
	11 p.					.30	S/E	10		
	midt.					.36	"	"		Moderating slightly, very confused sea.
June 11	1 a.					.42	"	9		
	2 a.					.46	"	9		
	3 a.					.49	SSE	8		
	4 a.					.52	"	7		
	6 a.					.59	"	6		
	8 a.					.65	SE/S	5		
	noon	15	19	113	0	.71	SE/E	4		High confused sea.

On the 25th at 11.5 a. "A depression appears to be situated near S Formosa." Forecast:—"barometer falling: moderate W to SW winds: fine at first but less settled later."

On the 25th at 6 p. "The depression, apparently shallow, seems to lie over the Formosa Channel and neighbouring coasts." On the 26th at 11.25 a. "The depression appears to be filling up." Forecast:—"barometer rising: moderate SW winds: fair to showery."

On the 25th a depression with slight or moderate gradients seems to have been central over the Formosa Channel and SE coast of China. On the 26th the barometer had risen generally around the Channel, the lowest pressure lying near its northern entrance. On the 27th the weather at Nagasaki appears to have been influenced by a depression to the southward.

On the 28th at 4.25 p. "A depression appears to be situated to the WNW of Bolinao." On the 29th at 10.45 a. "The depression seems to be increasing in intensity but it apparently occupies much the same position as yesterday." Black South Cone hoisted. At 11.0 a. Forecast:—"barometer falling: moderate NE and E breezes, probably increasing: squally and showery.

On the 30th at 11.15 a. "The shallow depression to the S of Hongkong appears to be moving slowly towards NW." At 11.20 a. Forecast:—"Barometer unsteady: moderate or fresh E to SE winds: squally and showery."

On the 1st July at 9.35 a. Black South Cone lowered. At 11.0 a. "the depression seems to be approaching the neighbourhood of Hainan Straits." Forecast:—'barometer rising: moderate SE to S winds: squally and showery to fair."

Between the 26th and 28th a considerable increase of pressure took place over S China and gradients became favourable for NE winds which, in fact, spread to the southward into the N part of the China Sea between the 27th and 28th. This appears to have resulted in the formation of an elongated depression across the China Sea and N Luzon into the Pacific in about 18° Lat. on the 28th.

On the 29th a circular but shallow depression (IV.) was probably central in 18°½, 115° at noon. The bark *Foohng Suey*, which was situated in 17° 12′, 113° 55′ at noon, experienced fresh NW breezes in the morning backing to SW and S at night, and accompanied by rainsqualls throughout. The barometer fell to 29.48 at 8 p. when the centre passed to the N of the vessel. The S.S. *Devawongse* was situated in 18° 34′, 111° 45′ and steering for Hongkong. Very threatening squally weather was experienced with the wind at NW. At Hongkong (bar. 29.70) a moderate ENE breeze prevailed with wet squally weather.

On the 30th at noon the centre was situated in about 19° ½, 113°. The *Foohng Suey* had a fresh S breeze with rain (bar. 29.52) in 18° 42′, 114° 10′, the S.S. *Hongkong* a fresh NE breeze with rainsqualls (bar. 29.56) in 20° 34′, 111° 24′, while several vessels situated a little to the south of Hongkong had strong E breezes with rainsqualls.

On July 1st the centre of the shallow depression seems to have passed over, or very near Hoihow about 4 p. The S.S. *Frejr*, nearing Hoihow from the Eastward, had the barometer falling with fresh E breezes backing to N at noon. At 4 p. she had come to anchor in Hoihow and the lowest barometer reading, 29.45, was then registered, the wind being variable and squally. Later the barometer rose rapidly and a moderate SW breeze sprang up. The direction backed to SSE and increased to a strong breeze during the night.

On July 2nd the depression appears to have passed to the E and N of Haiphong where the barometer fell to 29.52 and NW breezes accompanied by rain prevailed.

At noon on the 29th another circular depression (V) formed in the same trough to the E of N Luzon, was in about 20°, 124½° ?. It is seldom that two cyclones form in the same trough, but these were very small. At noon on the 30th it was in about 23½°, 124½°, on the 1st July in 26°, 127° and on the 2nd in 30°½, 130°. The S.S. *Arroyo* in 25°, 127° was in this typhoon on the 30th. It was broken up on the 2nd.

JULY.

Typhoon VI was encountered by the bark *Fred. P. Litchfield* in the Pacific. On the 18th it may have been in 15°, 142°, on the 19th in 16°, 139°, on the 20th in 18°, 136°, on the 21st in 19°, 133°, on the 22nd in 22°, 130°, on the 23rd in 25°, 128°½, on the 24th in 32° 30′, 129° 45′, on the 25th in 37°½, 139°½. It blew very hard in Japan. Great damage was done in SW Japan.

On the 25th at 7 p. "A depression appears to be forming in the Northern part of the China Sea."

On the 26th at 11.0 a. Forecast:—"barometer falling: moderate E and SE winds: showery."

On the 27th at 10.55 a., "There appears to be a typhoon near Bashee Channel." Red Drum hoisted. At 11.5 a. Forecast:—"barometer falling: light or moderate winds, variable: fair to showery."

On the 28th at 6.30 a, Black Drum hoisted. At 8.30 a., "Typhoon SE of Hongkong apparently moving towards WNW. Strong NE to SE gale expected here." Gun fired one round. At 1.30 p., Black South Cone hoisted. At 4.20 p., "Centre of typhoon SSW of Hongkong, moving towards the coast between Macao and Hoihow." At 6.50 p, Black Ball hoisted.

On the 29th at 10.10 a., Black Ball lowered. At 10.55 a. Forecast:—"barometer rising: strong S breezes, decreasing: wet and squally."

On the 25th July a trough-like slight depression was formed across the China Sea between 17° and 19° Lat. as a result of a considerable increase of pressure which had taken place over S China between the 24th and 25th. Between the 26th and 27th a cyclonic depression (VII) which was perhaps central in 18°½, 118° at noon on the latter day, may have been formed in the eastern part of the trough; but in the absence of observation from S. Formosa or from vessels in the adjacent waters this is uncertain.

The information for the 27th shows that a rather rapid decrease of pressure was in progress on the SE coast of China, winds there being light chiefly from a S direction, and the weather fine, hot and dry. At Bolinao the barometer was rising and moderate SW and S winds prevailed accompanied by wet weather. At 3 p. on this day we have the following observations:—Amoy 29.64, SSE 3, b: Swatow 29.65, SSW 1, c: Hongkong 29.67, W 1, c: Bolinao 29.73, S 2, or. The only vessel reporting bad weather on this day was the ship *Paramita* which experienced a strong W gale in 16° 9′, 116° 24′. Unfortunately barometric observations were not recorded.

The bark *Geo. F. Manson* began to feel the effects of the advancing typhoon at midnight of the 27th. The vessel was situated in 18° 57′, 114° 18′ at this hour when the wind suddenly sprang up and blew with the force of a strong breeze from NNW. The barometer read 29.60 (uncorrected) and the mercury was falling fast. The vessel was steering on a N course, bound for Hongkong, with the wind gradually backing towards W and increasing steadily in force. When they discovered that the vessel was in the left-hand semicircle they decided to run the vessel as nearly as possible to course so as to lose no time; but considering that the barometer continued to fall rapidly with the wind increasing in force, this manœuvre was a dangerous one and they barely escaped running into the centre, for at 2 p. on the 28th, the vessel being in 20° 16′, 114° 14′, the barometer had fallen to its minimum, 29.10, (uncorrected) and the wind was of storm force from W by S. The ship *Alcedo* was situated a few miles to the E and S of Hongkong when at 2 a. on the 28th the barometer, 29.71, began to fall rapidly and at the same time the wind, which had been light and variable, suddenly freshened form ENE. The weather was squally and threatening and lightning was observed in the E and SW. The vessel was on the port tack heading SE by E, in the right-hand semicircle, but as they had no sea-room this could not be avoided. Sail was taken in as required and at noon in 21° 48′, 114° 38′ she was lying to under a storm trysail, heading S and making 7 points leeway, the wind being a fierce gale from ESE and the barometer standing at 29.22. Between 1 p. and 2 p. the barometer was at its lowest point, 29.20, with the wind at SE by E, and the vessel was drifting dead before the wind at about 2½ knots per hour. After 3 p. the wind commenced to decrease in force with rising barometer.

At midnight on the 27th the centre may have been in about 20°, 116° and at noon on the 28th it was situated midway between these two vessels and in 21° 00′, 114° 30′. At 3 p. it passed about 40 miles to the South of Gap Rock, the barometric minimum, 29.24, occurring there at this hour with the wind a strong NE veering gale. At Hongkong the lowest barometer reading, 29.45, was recorded near 3 p. and the highest hourly wind velocity, registered by the anemograph, was 53 miles at 2 p. and 3 p. the direction being NE by E.

Of other vessels the steamships *Tai Cheong*, *Devawongse* and the Austrian frigate *Aurora* were all situated in the left-hand front quadrant on the morning of the 28th. The *Tai Cheong* was situated in 19° 59′, 113° 50′ at noon. At 7 a. they had the wind increasing from NW with falling barometer, and they suspected that a typhoon was situated to the NE of the vessel. At 9 a. they therefore rightly ran to the southward. At noon they had a strong W backing gale, but at 3 p. they steered N again as the barometer had commenced rising with the wind steadily backing towards S. The *Devawongse* was situated in 19° 30′, 112° 16′ at noon and steering N 31° E. The barometer, 29.61, was falling and the wind a fresh breeze from NW. At 2.50 p. the vessel was very properly turned round and steered S 22° E, the barometer having fallen to 29.54 with the wind a moderate NW gale. They had the wind backing to SW, a fresh breeze, during the afternoon with the barometer rising slowly after 5 p. They steered N 17° E at 10 p. but as the wind increased to a moderate gale accompanied by fierce squalls from S and SW and the barometer had a falling tendency, they again turned the ship's head to the southward and waited till the barometer rose decidedly. The Austrian frigate *Aurora* was situated in 19° 8′, 113° 38′ at 11 a. During the morning hours moderate to strong NW and W breezes were experienced accompanied by constant rain. The wind backed slowly towards SW and the barometer fell to its minimum, 29.53, at 3 p. at which hour the wind was from WSW of the force of a fresh breeze. At 3.15 p. a distinct band of peculiarly disturbed sea was observed to be approaching the vessel from ENE. It stretched from NNW to SSE and was between 300 and 400 yards in width. It passed the ship in a few minutes, at the rate of about 6 miles per hour, moving towards WSW. It passed the ship in a few minutes, at the rate of about 6 miles per hour, moving towards WSW. The sea was pyramidal in this area, the tops frequently bursting and throwing up the spray to a height of about 6 feet with a sound as though the vessel was lying in violently boiling water. Before the passing of this band of broken water a rough cross sea prevailed, but after its passage the sea calmed down considerably.

At this time the centre was passing at a distance of about 100 miles to the N of the vessel, the barometer on board showing the minimum at 3 p. with the wind thereafter backing rather quickly towards S, so that although the trough phenomena often observed in the depressions of more northern latitudes are not always well marked in typhoons, there is every reason to suppose that this phenomenon was connected with the passage of the trough in this case.

Between the 28th and 29th the disturbance moved towards W by N at the rate of about 9½ miles per hour and it entered the coast in the neighbourhood of Hui-Ling-San (21° 35′, 111° 50′) on the morning of the latter day. At noon on the 29th it was probably situated in 21°¾, 110°½ and during the evening of this day it passed a little to the N of Pakhoi where a NW gale, in the morning, backing to SW, in the evening, was experienced. At the Custom House the lowest barometer reading, 29.26,

was made at 11 p., but on board the S.S. *Activ* at anchor in the port the minimum, 29.41, was registered near 5 p. The weather continued bad between Hongkong and Swatow and to the southward on this day. Gradients remained rather steep and strong breezes to fresh gales, chiefly from SSE, accompanied by hard rain squalls prevailed over this area. At 11 a. on the 29th the Austrian frigate *Aurora*, on the starboard tack in 21°, 113° 45′ heading N½ W with the wind S by E (force 6 to 7), experienced a sudden squall with the wind veering to SW (force 9), which took the vessel aback, but she was so skilfully handled that no damage was caused. Vessels in the left-hand semicircle are liable to encounter such veering squalls. In the right-hand semi-circle the squalls usually veer in the proper direction. The ship *Alcedo*, just outside Hongkong, continued to have a moderate SE gale with heavy rain squalls on the morning of the 29th and at 9 a. as the weather seemed to look worse again and they were unable to get off the lee shore, they decided to turn back and go into the port again.

On the 30th at noon the centre was perhaps in 23°, 107°½ and it apparently filled up slowly as the weather at Pakhoi and Haiphong continued to be influenced by it until the 31st.

AUGUST.

On the 16th at 10.30 a. "There appears to be a depression near the Balingtang Channel." At 11.0 a. Forecast:—"barometer falling: light to moderate SW and W winds: fair."

On the 16th at 4.30 p. "The depression remains yet in the Pacific to the Eastward of the Balingtang Channel." On the 17th at 11.5 a. Forecast:—"barometer unsteady: light or moderate SW winds: unsettled, some thunder showers."

On the 22nd at 11.5 a. Forecast:—"barometer steady: moderate W to SW winds: fair to showery. A depression, becoming deeper, lies SE of Nagasaki."

On the 24th at 4 p. "Typhoon remains to the SE of Nagasaki." On the 25th at 11.15 a. Forecast:—"barometer falling: moderate or fresh W and SW winds: fair."

On the 26th at 11.30 a. Forecast:—"barometer unsteady: moderate SW to NW winds: fair to unsettled, some rain. The depression lately lying near Nagasaki has moved northward into the Sea of Japan."

On the 15th at noon Typhoon VIII was probably in 18°, 129°, on the 16th in about 19° 128°, on the 17th in 21°, 127°, on the 18th in 22½°, 127½°, on the 19th in 24°, 128½°, on the 20th in 26°, 130°, on the 21st in 28°, 132° and on the 22nd in 33° 45′, 133° 15′. There is not much information available. It does not seem to have done much damage. A steamer travelling from Cape Bojeador to Salomague on the 16th had a fresh NW gale, from Salomague to San Fernando light SE winds. On the 17th Bolinao reported very heavy rain and strong gusts of NW wind.

Typhoon IX was near Naha in 26°, 129° at noon on the 22nd, on the 23rd in 29° 45′, 129° 45′, on the 24th in 31° 15′, 131°, 15′, on the 25th in 33° 30,′ 131° 0′, and on the 26th in about 43°, 136°. This typhoon raged badly in Japan.

On the 28th at 10.55 a. "A depression is probably forming in NE part of China Sea." At 11.40 a. Forecast:—"barometer falling: moderate N to NE winds, probably increasing: fair to unsettled, some rain.

On the 29th at 1.20 a. Two lanterns hoisted vertically. At 11.55 a. "The depression appears to be situated to the NW of Bolinao." Forecast:—"barometer falling: moderate N and NE winds, probably increasing: unsettled, squally, some rain."

On the 29th at 4.50 p. Red Drum hoisted. On the 30th at 11.20 a. "The depression seems to be almost stationary at present." Forecast:—"barometer unsteady: moderate or fresh N winds: unsettled, squally."

On the 30th at 10.10 p. Two lanterns hoisted vertically. On the 31st at 4.15 a. Black South Cone hoisted. At 10.15 a. "Typhoon moving westward to the South of Hongkong in about 19° latitude." At 11.0 a. Forecast:—"barometer rising: fresh E breezes: squally and showery." At 6.10 p. Black South Cone lowered.

The above depression (X) seems to have been forming in about 18° to 20° Lat. and 117° to 118° Long. between the 28th and 30th. During this interval pressure was about 0.1 inch below the normal at Hongkong and along the SE coast of China, moderate to fresh NE to N breezes, accompanied by squally weather, prevailing in these districts. The barometer was also low, to the extent of about 0.1 inch and upwards, at Bolinao and Manila where light to moderate S and SW breezes prevailed.

On the 30th the depression commenced to move towards WNW and W. The S.S. *Sungkiang* in 19° 54′, 116° 07′ at 4 p. on this day and steering for Hongkong experienced a strong NW backing breeze during the evening. At midnight the barometer had fallen to its lowest point, 29.57, with the wind at SW, a moderate breeze. The bark *Matterhorn* was at noon situated in 21° 27′, 114° 23′ when the wind began to increase from NW. At 6 p. they had a strong gale which veered to NE at 8 p. At 10 p. the wind fell calm, but a little later it sprang up from SE but quickly moderated to a fresh breeze at midnight. Barometer readings were not recorded. The centre was situated in 21° 00′, 114° 15′ at midnight of the 30th and it passed to the South of Gap Rock near 4 a. of the 31st. A strong breeze veering from NNE at 1 a. to ESE at 7 a. was experienced at this station with the lowest recorded barometer reading, 29.54, at 4. a. The S.S. *Devawongse* was in the left-hand semi-circle.

This vessel had been steered N 33° E from her noon position (19° 20′, 112° 03′) on the 30th, but at 2.30 a. on the 31st her commander found it advisable to put her head to the Southward, as the barometer had begun to fall sharply and the wind had increased to a strong NW breeze accompanied by torrential rain. The wind direction quickly backed towards W as they steered southward, but it increased to a moderate and fresh gale at 5 a. from W. by S, accompanied by incessant rain and lightning. The lowest barometer reading, 29.50, was made at 4 a. and at 6.30 a. they steered N 21° E. At 7 a. in 20° 48′, 113° 15′, the barometer had risen to 29.58 with the wind at SW by W decreasing and continuing to back as they proceeded northwards. The bark *Wm. le Lacheur* situated in about 21°, 113°, also experienced a strong N backing to W gale between 3 a. and 7 a of the 31st. the wind suddenly decreasing to a fresh breeze at 8 a. and backing to SW at 10 a. The barometric minimum, 29.48, occurred at 6 a.

These observations together with those made at Gap Rock show that the area comprised by strong winds was exceedingly small.

At noon on the 31st the centre was situated in 21° 15′, 112° 30′. The S.S. *Frejr*, in 20° 30′, 111° 19′ at noon had a fresh NNE breeze with squally weather. The wind direction was backing, and between 3 p. and 4 p., the vessel being situated in 20° 38′, 111° 50′ at the latter hour, a strong W gale was experienced, the barometer falling to 29.64. The wind continued to back as they steered towards NE, and at 8 p. it had come to ESE of force 3, the barometer having risen, in the meantime, to 29.69. The S.S. *Hongkong* had taken shelter in St. John's harbour during the morning and they there experienced strong NE winds, the barometer reading 29 62 at 4 p. At this hour the centre was passing between the anchorage and the position of the *Frejr*. Moving towards about W by N, it must have entered the coast a few hours later.

In this depression strong gales were not experienced at a greater distance than 30 miles from the centre and then only in the front or W semi-circle. In rear the winds were particularly light and did not exceed a strong breeze at the same distance. Moreover in rear the wind quickly re-gained a NE direction off the S Coast of China as pressure remained low over the N part of the China Sea.

SEPTEMBER.

On the 1st at 11.45 a. "Pressure remains low over the NE part of the China Sea." Forecast:—"barometer unsteady: light or moderate N to NE winds: fair."

On the 3rd at 10.45 a. "A depression appears to be situated near the Bashee Channel." Forecast:—"barometer falling: moderate NW winds: fair."

On the 3rd at noon. Red Drum hoisted. At 4.30 p. "The typhoon appears to be moving towards WNW or thereabout." On the 4th at 11.10 a. "Typhoon in Formosa moving towards NW at present." Forecast:—"barometer falling: moderate NW to W winds: fair."

On the 5th at 11.15 a. Red Drum lowered. "The centre of the typhoon is now situated to the NE of Foochow and it is probable that it will enter the East coast in the neighbourhood of Wenchow." Forecast:—"barometer rising: moderate or fresh winds, NW to W: fine."

On the 6th at 11.5 a. "The typhoon has recurved and is now moving towards NE between Shanghai and Nagasaki." Forecast:—"barometer rising: moderate or fresh NW winds: fine."

On the 7th at 10.55 a. "The typhoon lies near Nagasaki." Forecast:—barometer rising: fresh or moderate N winds: fine."

On the 8th at 10.45 a. "The typhoon has moved into the Sea of Japan." Forecast:—"barometer steady: moderate or fresh N to NE winds: fine."

After the passage, to the S of Hongkong, of the small depression of August 31st pressure increased slightly on the SE coast of China, but in Luzon, where the barometer remained yet about 0.15 inch below the normal, a further slight decrease of pressure had set in on September 1st. It appears from the observations made on board vessels that a band of low pressure was also lying across the China Sea in an ENE and WSW direction. This elongated depression apparently extended from the Annam Coast across Central Luzon to the Pacific, and it is probable that a cyclonic depression was forming on September 1st in the Pacific part of the above mentioned area of low barometer, perhaps around the position 18°, 127°.

The following were the conditions prevailing on this day. On the SE coast of China the barometer stood at about 29.71 moderate to light NE breezes prevailing between Foochow and Hainan; in the middle part of the China Sea between 12° and 17° Lat. the barometer read about 29.64 light variable airs prevailing; off the Cochin China coast in 9° to 10° Lat. (barometer 29.73) moderate and fresh W and SW breezes prevailed accompanied by showery weather; at Bolinao light variable breezes were blowing (barometer 29.64) and at Manila (barometer 29.67) light to moderate S and WSW breezes were accompanied by rainsqualls. The bark *Japan* situated in the Pacific in 15° 09′, 136° 00′ experienced moderate S winds with wet squally weather, the barometer being steady at 29.74.

The Typhoon (XI) may possibly have been situated in 19½°, 125° at noon on the 2nd moving towards the NW. A further slight decrease of pressure had taken place at Bolinao (29.60) and Manila (29 65), winds being light and gentle breezes from SE at the former and from S at the latter station. The barometer had risen slightly near Foochow (Sharp Peak 29 76) and was steady at Hongkong (29.71), but the NE winds had freshened on this part of the China Coast. From observations made on board the S.S. *Ask* lying at Anping (S Formosa) it is seen that the disturbance was advancing

towards S Formosa from the SE. The barometer on board this vessel showed a decisive fall on this day from 29.74 at 8 a. to 29.56 at 4 p. At the same time the wind, which had been light and variable during the morning, freshened somewhat from NW in the afternoon.

Next day, the 3rd, at noon, the barometer having fallen to 29.36 with the wind a fresh breeze from N accompanied by rain, the *Ask* left Anping to take shelter at the Pescadores. The centre was probably situated in 21°¼, 123° at this time. Since the previous day pressure had given way to the extent of about 0.1 inch at Sharp Peak (29.66) and Amoy (29.60). The fall was less marked at Hongkong (29.66) while at Bolinao (29.61) and Manila (29.67) the barometer had commenced to rise slowly. Pressure was highest, 29.9 to 30.0 inches, over Japan and in the extreme SW part of the China Sea. Winds were strong breezes from E to ESE off the SW coast of Japan; strong breezes to fresh NNE gales off the E Coast of China and in the N part of the Formosa Channel; moderate breezes from N and NNW off the S Coast of China and strong breezes from SW at Manila. The S.S. *Ask* experienced a strong N by E gale on the passage from Anping to Ponghou harbour (Pescadores) during the evening of this day, the barometer remaining, however, practically steady since noon.

On the 4th the centre was probably situated off the E Coast of Formosa and in 23°30′, 122°30′ at noon. The greatest decrease of pressure since the previous day was shown at Sharp Peak (29.50), the fall amounting to 0.16 inch in the 24 hours. The barometer had now commenced to fall at Shanghai (29.78) and in SW Japan (Nagasaki 29.85). At Hongkong (29.60) the barometer was steady and inclined to rise while in Luzon (Bolinao 29.65) a decided rise had taken place. Winds were strong NNE breezes at Sharp Peak, moderate breezes from NNW between Amoy and Hongkong and strong SW breezes in Manila. A very high temperature with low humidity and almost clear skies prevailed on the coast between Amoy and Hongkong. The S.S. *Ask* in Ponghou harbour (Pescadores) had a strong N gale with rainsqualls (bar. at 1 p. 29.32) during the greater part of the day. The barometer which had been practically steady the whole day began to rise late in the evening, the wind at the same time moderating. At 10 p. it backed to W and fell light.

Between the 4th and 5th great damage ashore and afloat was caused by the typhoon at Tamsui and Keelung. The centre passed a little to the E of the latter port early on the morning of the 5th.

On the 5th at noon the centre was situated in 26°15′, 122°30′ and it was now commencing to recurve towards the NE. Its speed during the previous 24 hours had been at the rate of about 7 miles per hour. The disturbance was now of great dimensions and determined the wind circulation from W Japan in the NE part of the system to the Cochin China Coast in the SW. The isobars which were oval shaped were very much elongated towards the SW. Winds were in accordance. The worst weather was felt over a considerable area in the N semicircle where the isobars lay closer together, the gradients being therefore correspondingly steep. The following are the observations made at a few coast stations on the 5th:—

Time of Observation.	* Nagasaki.	Woosung.	Ningpo.	Sharp Peak.	Amoy.	Hongkong.	Bolinao.
9 a.	29.77 ENE 4 c.	29.67 NE 6 or.	29.63 NE or.	29.36 W 7 og.	29.49 SW 4 b.	29.65 NW 3 b.	29.73 SSE 1 c.
3 p.	.70 SE 4 o.	.56 NE 7 or.	.53 NNE or.	.35 W 4 o.	.43 NW 4 c.	.57 WNW 3 b.	.67 SW 3 o.

* 10 a. and 2 p.

The S. S. *Chiyuen* which had put into Namquan harbour (27° 09′, 120° 26′) experienced there a strong NNW gale with the barometer, 29.31 at noon, almost steady until the evening when it rose, the wind at the same time backing to NW and decreasing. The S. S. *Esang* at anchor in Bullock harbour (27° 47′, 121° 16′) in a sheltered position, experienced a moderate and fresh NE backing to N gale accompanied by heavy rainsqualls during the morning and in the afternoon moderate to strong NNW and NW breezes with overcast sky. Later in the evening the wind increased to a strong gale from NW and NW by W. The barometer was at its lowest point, 29.25, near 2 p. The centre seems to have been recurving at a distance of about 150 miles to E of the above vessels. The S. S. *Mount Lebanon* was situated at noon in 28° 58′, 126° 46′ or at a distance of about 250 miles to the ENE of the centre at that time. At 4 p. the barometer read 29.49 and a heavy ESE gale was blowing accompanied by a high cross sea. They steered towards NW keeping the wind on the starboard quarter but at 8 p. she was making such fearful weather in the heavy confused sea which was running that they were obliged to put her on the port tack, heading SSW, that being the only position in which she would obey the helm. Subsequently on the 6th the centre passed a little South of this vessel between 4 p. and 6 p. The following is the account given by her commander:—

"September 6th, 8 a.m. Barometer 29.10 falling rapidly; wind still ESE with furious squalls and terrific sea; got ship off the wind again and heading NNW but could only make way slowly on account of the propeller being most of the time out of the water altogether. Right on the storm track, ship in ballast and practically unmanageable. No. 3 water ballast tank had burst, after holds

flooded, ship taking a heavy list to port which made matters worse but we managed to steer her making a NNW course; steam steering gear carried away and steering ship with hand gear. At noon, position by account 29° 55′, 126° 20′ barometer 28.90, ESE wind blowing with hurricane force, terrific sea and heavy rain. 2 p m. wind backed to E, barometer 28.80, terrific squalls and continuous blinding rain. 4 p.m. barometer 28.68, wind had backed steadily to NE by E, ship then heading about NW by W; wind force, sea and weather still the same; 6 p.m., barometer steady 28.68; 7.30 p.m., first rise of barometer and wind had backed to NNE ship heading about WSW, wind hurricane force, blinding rain and tremendous sea; ship taking fearful lurches to port; midnight, barometer had risen to 29.30 and wind had backed to NW with terrific squalls. September 7th 2 a.m. barometer 29.56, wind moderating but sea still very high."

These observations place the centre, which was now moving towards ENE, about 50 miles to the WSW of the above vessel, or in 29°½, 125°½, at noon on the 6th thus giving the disturbance a speed of about 11 miles per hour during the previous 24 hours. The *Mount Lebanon* had made some few miles progress in a NNW and NW direction by 4 p., so that the centre passed just to the S of her position at this hour.

The barometer was falling fast at Nagasaki (29.50) and SE gales were blowing off the coast of Kiushiu. At the mouth of the Yangtze N gales prevailed but the barometer (Gutzlaff 29.49) had there commenced to rise.

The S. S. *Verona* experienced the typhoon in about 30° 30′, 128° on the morning of the 7th. Winds of storm force backing from E to NE were experienced between 1 a. and 5 a but at the latter hour, the barometer being at its minimum, 28.47, the wind decreased to a moderate gale for a short time. As the barometer rose the wind increased again and at 8 a. they had typhoon force from NW which, however, commenced to moderate very slowly after 10 a. The S. S. *Asloun* also experienced a hurricane from NNW, a distance of about 60 miles to the NNW of the *Verona*. They recorded the lowest barometer reading, 29.22, at 8 a. The S. S. *Bellona*, in the right-hand semicircle and situated in 30° 16′, 131° 12′ experienced a fierce SSE gale at noon.

The centre was situated in 31° 00′, 129° 30′ at noon on the 7th thus giving it a speed of about 9½ miles per hour during the previous 24 hours, and it must have entered SW Kiushiu shortly afterwards. The S. S. *Mascotte* lying in Nagasaki harbour experienced strong breezes veering gradually from E in the morning to N at night, the barometer falling to its lowest point (29.22) at 8 p.

After entering SW Japan the disturbance seems to have filled up to a considerable extent, and at the same time it moved NE with greatly increased velocity towards the Sea of Japan. The S. S. *Ancona* lying at Kobe experienced a moderate SSW gale at 8 a. on the 8th (barometer 29.38) which, however, quickly moderated, the direction veering to WSW with rapidly rising barometer. At noon on the 8th it was in about 40°, 135°.

On the 10th at 10.20 a. "A depression appears to be situated to the SE of Luzon." At 11.15 a. Forecast: "barometer falling: fresh NE winds: fair."

On the 10th at 4.15 p. "Depression in S Luzon moving towards WNW." On the 11th at 11.0 a. Forecast: "barometer falling: fresh NE winds: fair."

On the 10th a sudden fall of the barometer amounting to about 0.1 inch occurred at Bolinao and Manila with moderate N and NE winds; but it appears that a trough-like depression had been formed across the China Sea in about 13° to 15° latitude, owing to pressure increasing quickly over China on the two previous days and the consequent rapid spread of NE winds to the Southward in the China Sea.

On the 11th strong NE breezes and moderate gales prevailed over the N part of the China Sea and as far South as 14° latitude on its Western side, while fresh SW winds prevailed on the Cochin China coast in about 10° latitude. The weather was showery and squally over the whole of this area.

On the 19th at 1.15 a. Two lanterns hoisted horizontally. At 9.15 a. "Typhoon SE of Swatow." Black Drum hoisted. At 10.10 a. "Severe typhoon approaching coast between Amoy and Swatow." At 10.25 a. Forecast: "barometer falling: strong N to W winds: squally with rain."

On the 20th Black Drum lowered before daylight. At 11.10 a. Forecast: "barometer rising: moderate or fresh NE winds: unsettled, showery."

On the 21st at 5.30 a. Black South Cone hoisted. At 11.0 a. "Depression SSW of Hongkong apparently moving towards W." Forecast: "barometer rising slowly: strong to fresh NE and E breezes: showery and squally to fair."

At 8.45 p. Black South Cone lowered.

The typhoon (XII) which advanced towards the Formosa Channel on the 18th was preceded on the 15th by a depression which moved to the Eastward over N China. In rear of this depression pressure rose rapidly in the neighbourhood of Shanghai until on the 18th (30.11) it stood at about

0.2 inch above the normal. Pressure had also increased on the SE and S Coasts (Sharp Peak 29.91, Hongkong 29.85) but conditions as to pressure were almost normal in these districts on the morning of the 18th. In Luzon the barometer (Bolinao 29.73) had been slightly low for the past few days. Strong NE monsoon prevailed at this time on the East Coast of China and at the N entrance to the Formosa Channel while in the China Sea to the S of Hongkong it was moderate. In the SW part of the China Sea in about 6°, 107° the barometer read 29.90, winds being moderate and fresh breezes from W and SW.

The afternoon observations made at the Coast Stations on the 18th showed a slight fall of the mercury in Luzon, winds being light breezes from W at Bolinao and from SW at Manila; but a more marked decrease had occurred at Amoy where the wind was a moderate breeze from NE. From observations made on board H. M. S.'s *Pique* and *Peacock* and the S.S. *Thales* and also from those made and kindly forwarded by Mr. A. W. Bain, of Anping, we know that a typhoon was rapidly advancing towards S Formosa from the SE on the morning of the 18th, the probable position of the centre at noon on this day being 21°½, 122° or about 70 miles to the ESE of S. Cape. Information from the Pacific area is wanting with the exception of observations made on board the Russian S. S. *Saratow* near S Formosa, but the observations rather point to this disturbance having been rather quickly formed in a region of slightly low pressure lying to the E of the Bashee Channel, the chief agency in its formation probably being the rapid increase of pressure to the Northward and the consequent advance of strong NE monsoon to the Southward. The S. S. *Saratow* at 8 p. in 23° 20′, 121° 50′ had 29.26 E 11.

The observations made by Mr. Bain at Anping show that the barometer began to fall rather quickly after 9 a. on the 18th, the wind being moderate from N but increasing to a strong breeze at noon. After 8 p. the barometer fell very rapidly and a heavy N gale was then blowing which increased to typhoon force from N to NE at 10 p. The barometer attained its lowest point, 29.29, at 1 a. of the 19th. Between 2 a. and 3 a. the wind shifted gradually to SE. Very little rain fell. Considerable damage to houses and godowns resulted. From observations made at Takow and kindly forwarded by Mr. Bain it is seen that the centre passed over that port at 0.30 a. on the 19th. The barometer fell from 29.94 at 8 a. on the 18th to 29.30 at midnight, the wind being from NNW and N till the evening, when it veered to NE. The mercury descended to its lowest point, 28.90, at 0.30 a. on the 19th, *i e.*, it fell no less than 0.4 inch in half an hour, at the same time the wind veered to SSE. The barometer readings made at Takow are uncorrected, but are believed to require a negative correction of between 0.1 and 0.2 inch.

H. M. S.'s *Pique* and *Peacock* and the S. S. *Thales* got up steam on the morning of the 8th and left the open readstead of Anping for shelter at about 2 p., but they were too late and all encountered the storm. The S. S. *Thales* made but little progress against the N gale and at 7 p. she was hove to on the starboard tack in the right-hand semicircle. Winds of storm and typhoon force from N by E were experienced between 9 p. of the 18th and 2.30 a. of the 19th. At the latter hour the barometer showed the minimum, 28.98, and shortly afterwards the wind veered to E, but at 4 a. it had decreased to a fresh gale from S. The centre passed at a distance of about 10 miles only to the SSW of the vessel at 3 a. Her position at this hour is given as 23° 9′, 119° 36′. H. M. S. *Peacock* after steering towards WNW was hove to at 6 p. At 10.30 p., the barometer, 29.48, was falling rapidly with the wind at N of storm force. The vessel was then run to the SW. At 1 a. the barometric minimum, 29.34, occurred, but it remained almost steady until after 4 a. The wind, in the left-hand semicircle, backed to WNW at 2 a. and continued to blow with storm force from this direction until after 4 a. when it backed to WSW.

The centre, which was situated in 23° 00′, 119° 35′ at 3 a. passed about 25 miles to the NE of the vessel at this hour. It was therefore situated between the position of the *Thales* and that of the *Peacock*, but nearer to the former than to the latter. Both vessels sustained considerable damage.

H. M. S. *Pique* ran to SW by S at 6 p. on the 18th, but nevertheless experienced a fierce gale with squalls of typhoon force from N on the evening of the 18th but backing to WNW and WSW next morning.

The disturbance was moving towards W by N on the morning of the 19th and at noon the position of the centre is fixed by the observations made on board the steamships *Victoria* and *Monmouthshire*. The *Victoria* encountered the centre at noon in 23° 22′, 117° 54′. The wind which had been blowing a fierce gale (direction not stated but presumably from NW) fell calm at noon, the sky, however, remained overcast and threatening and there was a high topping sea. The barometer read 29.14 uncorrected. At 1.30 p. the wind suddenly freshened and blew a strong gale from S with terrific squalls. The S. S. *Monmouthshire* passed the Lamocks bound North at 3 a. The wind was light from NW and W and rain commenced falling. A large number of birds flew on board making a most horrible noise. At 6 a. the barometer read 29.68, the wind was of force 6 and the sea very confused. Half an hour later they ran into a heavy NE gale with mountainous sea and torrents of rain. At 8 a. it was blowing a hurricane from NE which continued until after noon when the barometer was at its lowest point, 29.02. Overhead there was some clearing of the clouds at this time. At 1 p. the wind veered to ESE with fast rising barometer, and at 2 p. the wind had decreased to a fresh gale from SE. At the latter hour a fierce gale from NW was blowing at Swatow and one hour later the

wind fell suddenly calm which lasted 15 minutes. The barometer was then at its lowest point and read 29.33. The wind came again from S and blew hard for a short time, but at 4 p., the barometer having risen to 29.57, the wind had decreased to a strong S breeze. The centre therefore passed over or just to the N of Swatow just after 3 p., but it must at once have commenced to fill up on entering the coast even if it had not done so to some extent, while crossing the channel.

Several vessels, the steamships *Tailee*, *Fushun*, *Lyderhorn* and *Jacob Christensen*, also the ship *Celeste Burrill*, experienced winds of typhoon force from NE in the northern part of the Formosa Channel on the morning of the 19th. The S. S. *Chunshan*, approaching Swatow from the S at noon, encountered a fierce WNW gale. She turned back and ran to the Southward and then had much better weather.

On the evening of the 19th the wind at Swatow backed from S to SE while at Hongkong the direction remained from N to NW. At Victoria Peak a strong N breeze prevailed. The barometer was rising. At Canton a moderate N breeze was blowing and the barometer had fallen since the morning At sea to the S of Swatow moderate S breezes prevailed.

Next morning, the 20th, a complete change of wind direction had occurred at Victoria Peak, Hongkong, where a moderate to fresh SE breeze now blew in place of the strong N breezes of the previous evening. The direction of the lower clouds as observed at Hongkong Observatory had also changed from N to SE. Light airs from NW to W and SE prevailed there, and at Gap Rock light breezes from N and NNW. At Canton gentle breezes from N and NE prevailed. The barometer was rising, but slowly, at Hongkong. The Swatow observations indicate that the disturbance, which had no doubt filled considerably, was pursuing a W or WSW course on the evening of the 19th, and the observations at Hongkong and neighbouring stations indicate that the remains of the late typhoon was drifting over this locality on the morning of the 20th as a diffused depression. It would appear that it passed out to sea spreading towards the S and probably increased slightly in intensity, as during the evening of the 20th and morning of the 21st the barometer fell slightly in Hongkong and a moderate E gale was experienced.

On the 21st the Hoihow observations furnish a trace of the depression. At this station very heavy rain fell throughout the day with gentle and light breezes veering from N in the morning to SE at night. The barometer fell very slightly. The steamships *Invertay* and *Glengyle* experienced strong NE gales with a slight fall in the barometer on the evening of the 21st to the S of Hongkong in about 19° latitude.

On the 23rd at 10.40 a. "There are indications of a depression in the Pacific to the E of the Balingtang Channel." At 11.0 a. Forecast: "barometer falling: moderate NE and N winds: fair."

On the 23rd at 4.20 p. "The depression appears to be moving towards NW." On the 24th at 11.0 a. Forecast: "barometer unsteady: moderate to fresh N winds: fair."

On the 24th at 4.45 p. Red Drum hoisted. On the 25th at 10.40 a. "Typhoon in Formosa apparently moving towards NNW." At 11.0 a. Forecast: "barometer steady or rising: fresh NW winds: fair."

On the 26th at 10.40 a. Black Drum hoisted. "The typhoon lies a little to the East of Swatow. It is apparently filling up and probably moving slowly towards W or WSW at present." At 11.0 a. Forecast: "strong N winds: squally with rain."

On the 26th at 4 p. "The centre of the typhoon has passed a little to the S of Swatow, moving westward. Strong NW winds, perhaps a gale, may blow in Hongkong to-night unless the centre fills up before reaching here." At 6.15 p. Two lanterns hoisted vertically. On the 27th at 10.40 a. Black South Cone hoisted. "The depression appears to be now situated to the SE of Hongkong. It continues filling up and is apparently moving towards SW." At 11.0 a. Forecast: "barometer rising slowly: fresh to strong NE breezes: wet and squally."

On the 28th at 10.30 a. Black South Cone lowered.

On the 22nd a trough was found to be formed lying through about 17°, 110° and through the Balingtang Channel. The past typhoon probably gave rise to the western portion of this trough as it disappeared therein, and the next typhoon (XIII) seems to have had its origin in the eastern part of this trough.

On the 23rd pressure decreased about 0.05 inch in Luzon and on the SE coast of China; Sharp Peak had 29.81, Amoy 29.77, Hongkong 29.81 and Bolinao 29.72. Winds were moderate from E to NE between Hongkong and Foochow and light from W at Bolinao and Manila. The S.S. *Ask* at Anping (S Formosa) had moderate to strong N breezes with fine weather, but the barometer had commenced to fall. The depression may have been central at noon in 19° to 20° and 125°.

On the 24th a further fall of the mercury had occurred on the SE coast of China and in Luzon amounting to about 0.05 inch in the former district but slightly less in the latter. Sharp Peak now had 29.75, Amoy 29.72, Hongkong 29.77 and Bolinao 29.70. Moderate breezes prevailed from WNW at Bolinao, from SW at Manila and from N to NE on the SE coast of China. Captain HYGOM of the S.S. *Ask* lying at Anping suspected a typhoon to the SE and he left the roadstead at daylight to get shelter at the Pescadores. The wind had increased to a strong breeze from N by E with the barometer

falling. At noon in Ponghou harbour it was blowing a fresh N gale which increased to a hard gale from the same direction in the evening but as yet the barometer was almost steady. The centre of the typhoon was perhaps situated in about 21°½, 123° moving towards WNW.

On the morning of the 25th from observations made at Anping by Mr. A. W. BAIN we see that the centre of the disturbance had approached the coast of S Formosa. At Anping the barometer fell from 29.61 at 8 a. to 29.37 at 4 p., the wind being from N until 3 p. and blowing with almost typhoon force between 1 p. and 3 p. At 4 p. the direction veered to NE and the force began to decrease with rising barometer. Between 7 p. and midnight a calm prevailed, but at the latter hour the wind came again suddenly from SE blowing fairly strong with the barometer rising rapidly. The centre was probably situated in 22°½, 121° at noon, *i.e.*, on the E Coast of S Formosa. In crossing the island it, no doubt, filled up considerably and the Anping observations indicate that the central area which passed near this station had scarcely cleared the island until midnight. The S.S. *Ask* was lying in Makung harbour (Pescadores) and a hurricane was experienced from N between noon and 9 p. when the force slightly decreased, the direction veering a little. The barometer was at its lowest point at 4 p. and it then rose slowly. At midnight they had NNE wind of force 10 and the barometer commenced to rise quickly. At 5 a. on the 26th the direction had veered to SE, a moderate breeze. The centre therefore passed to the S of Makung near 2 a. on the 26th and it seemed to have already commenced to move in a WSW direction under the influence of the strong NNE winds blowing down the Formosa Channel.

On the morning of the 26th the centre had approached Swatow and at noon on this day it was situated in 23° 00′, 116° 40′. The following are observations at some coast stations on this day:—

Time.	Sharp Peak.	Amoy.	Swatow.	Gap Rock.	Bolinao.
9 a., ...	29.86 NE 9 og.	29.72 NE 6 o.	29.65 NNW 7 o.	29.80 N 5 ...	29.80 SE 1 o.
3 p., ...	.84 NE 7 or.	.76 NE 6 o.	.68 E 10 orq.	.73 NNW 7 ...	.73 SW 2 c.

The S.S. *Niobe* was situated in 23° 9′, 118° 02′ at noon. They had barometer 29.75 with E & veering to ESE and SE as they progressed towards Hongkong. At Swatow the wind backed again to ENE and decreased to force 5 during the evening which indicates, together with observations made on board ship and at Hongkong, that the centre was moving towards SW while the depression was filling up and winds becoming light.

At noon on the 27th there was a trace of the depression in about 20°, 115°. It then changed into an elongated trough-like depression lying from about 15°, 112° and through the Bashee Channel or thereabouts.

OCTOBER.

On the 28th at 11.15 a. "Pressure is low in S Luzon." Forecast:—"barometer falling: moderate NE winds: cloudy, possibly some rain."

On the 31st at 10.30 a. "There is a depression in the China Sea to the S of Hongkong in about 15° to 16° latitude." At 11.0 a. Forecast:—"barometer unsteady: fresh to strong NE breezes: unsettled, wet."

On the 1st November at 11.15 a. "The shallow depression still lies in the China Sea to the S of Hongkong." Forecast:—"barometer unsteady: fresh and strong NE breezes: cloudy, some drizzling rain."

From October 26th to 29th pressure was decreasing generally on the China Coast from Hongkong to Shanghai and also in Luzon. On the latter date it was in defect to the extent of from 0.1 to 0.2 inch at Hongkong (29.89) and at Shanghai (29.97), and the monsoon had become moderate and light along the coast and in the N part of the China Sea. At Manila (29.75) and Bolinao pressure was also about 0.1 inch below the normal and the winds at these two stations, which had been light from a N to E direction on the previous days, now became SE. At Cape St. James a light SW breeze prevailed.

The great decrease of pressure over N China, which appears to have been due to a depression lying over Manchuria on the 28th, caused the monsoon to become light on the China Coast from Shanghai southwards and also over the N part of the China Sea. The circumstances thus became favourable to the advance northwards of the S current and we know that on the 28th, light SW breezes had taken the place of the light NE winds which had previously prevailed at Cape St. James on the Cochin China Coast, while still farther south, in about 5°, 107°, strong S and SW breezes prevailed on this day. It therefore seems probable that a trough-like slight depression in which variable winds and calms prevailed was formed in a belt lying across the China Sea and Philippine Archipelago in from 10° to 12° lat. and that on the 29th this depression (XIV) had possibly become cyclonic to the SW of Luzon owing to the further advance northwards of S winds along the W Philippines.

On the 30th we have the following barometer readings Shanghai 30.05, Hongkong 29.90, Hoihow 29.91, Bolinao 29.73, Manila 29.76. Winds were light breezes from ESE and SE at the two latter stations while at sea in 20°, 115°, (bar. 29.90) moderate N and NE winds prevailed. The S.S. *Shantung* in 17° 18′, 118° 44′, had 29.74, NE 4 with clouded sky. At Cape St. James light and gentle SW breezes were blowing, the weather being squally with thunderstorms. The low pressure seems to have been central in perhaps 14½°, 118° and moving towards NW.

On the 31st we have: Hongkong 29.92 ENE 3 od, Hoihow 29.91 NE 3 c, Bolinao 29.79 SSE 3 c, Manila 29.80 var. 2 c, Cape St. James SW 3 c. The barometer had risen at Bolinao and Manila but was practically steady at the other stations. The centre of the depression may have been situated in about 16°, 116° at noon. The S. S. *Shantung*, to the northward of this position and in 20° 00′, 118° 03′, experienced a moderate NE by E gale with light rain and high confused sea. The barometer, which read 29.73 at noon, was rising. To the westward of the centre the S. S. *Namyong* in 14° 48′, 110° 25′ had the barometer (29.86) falling and a strong NW increasing breeze accompanied, in the evening, by hard rainsqualls and a confused sea.

Next day, November 1st, the latter vessel had very bad weather throughout, the centre of the disturbance, which was at noon situated in about 16°¾, 111°½, passing a few miles to the N of her position at 6 p. moving in a W or WSW direction towards the S entrance to the Gulf of Tongking. They experienced a strong to whole gale from WNW at 4 a (bar. 29.70) backing to SW by S at 6 p, the barometer attaining its lowest point, 29.50, at the latter hour. The strongest wind, of force 11 from WSW, was experienced between 3 p. and 4 p., but after 6 p. the wind decreased to a moderate breeze backing to SSE and E and a fine night followed with clear sky. They tried to run to the Southward at 5 a. with the wind at W but could not on account of the heavy sea, and owing to the proximity of the Paracel Reefs they were prevented from going to the Eastward. The steam-ships *Ask* and *Hongkong*, off Hainan Head and about 200 miles to the N of the centre, had strong NE breezes with rising barometer, and the S.S. *Rohilla* moderate SW breezes (bar. 29.76) at about 300 miles distance to the S of the centre.

NOVEMBER.

On the 2nd at 10.30 a. Red drum hoisted. "A typhoon appears to be situated near the Balingtang Channel." At 11.10 a. Forecast:—"strong N winds, perhaps a gale; cloudy and squally. Strong winds and gales from N and NE probable generally along the China Coast between Shanghai and Hainan."

On the 3rd at 10.30 a. Red drum lowered. At 11.5 a. Forecast:—"barometer rising: strong N breezes: cloudy and squally."

On the 4th at 11.10 a. Forecast:—"barometer rising: strong to fresh N breezes, squally: fair. Heavy monsoon in the China Sea."

On the 1st November pressure was slightly above the normal at Shanghai, 30.19, and in defect to the extent of between 0.1 and 0.15 inch at Hongkong, 29.91, and at Manila, 29.76. Pressure had not recovered at the two latter stations in rear of the late typhoon which still existed on this day to the S of Hainan. At Manila the barometer fell somewhat during the afternoon a moderate WSW breeze prevailing, while at Bolinao a light breeze blew from NW. Fresh breezes from NE and E were blowing on the China Coast between Hongkong and Amoy. These observations afford some indications of the existence of a new disturbance which appears to have been situated to the E of N Luzon.

On the 2nd November the following conditions prevailed. At Shanghai 30.34, and at Pakhoi (Gulf of Tongking), 30.14, the barometer had risen rapidly. At Hongkong, 30.00, the increase of pressure was also considerable, but at Amoy, 29 94, there was no change. At Bolinao, 29.79, and at Manila, 29.86, the barometer had risen. In Japan pressure varied from 30.15 at Nagasaki to 30.04 at Tokio. Strong winds and gales from N to NE blew generally on the China Coast. At Amoy and Swatow the direction backed from NE in the morning to N in the afternoon. At Gap Rock, Hongkong, a moderate to fresh gale blew from NNW, at Bolinao a light breeze from SE and S, and at Manila a moderate SW breeze in the morning and a light SE breeze in the afternoon. At sea we have the following observations at noon on the 2nd:—The S.S. *Chittagong* situated in 26° 15′, 123° 00′, 30.09 NE 9 or; S.S. *Michael Jebsen* 23° 39′, 117° 56′ 29 91 NNE 9 o; S S. *Sungkiang* 19° 04′, 116° 48′ 29.71 NW 7 op; S.S. *Yuensang* 15° 01′, 119° 58′ 29.87 SW 4 oq; Bk. *Torrisdale* 13° 56′ 133° 01′ 29.94 NE 5; S.S. *Guthrie* 8° 51′, 121° 51′ 29.88 WNW 3 orq. These observations together with those made at the Coast Stations show that an area of low pressure was situated in the neighbourhood of the Balingtang Channel and the centre may be placed, approximately, in the position 20°, 120° at noon. The S.S. *Yuensang* had been steering S by E from her noon position (19° 12′, 118° 58′) of the previous day. The barometer fell to 29.70 at 4 a. on the second, the wind of force 4 to 5 backing from E by N on the afternoon of the 1st to N at midnight, to W at 4 a. on the 2nd and thence to SW. These observations indicate that the vessel had passed to the W of a cyclonic disturbance between the evening of the 1st and morning of the 2nd. On board the *Sungkiang*, to the W of the centre and steering for Hongkong, the barometer was at its lowest point at noon and thereafter it rose rapidly, and they had a strong gale from NNW during the evening. To the NW of the centre the

Michael Jebsen and other vessels, off the China Coast near Swatow and steering towards Hongkong, had the wind backing to N and N and NW during the afternoon and blowing a strong gale with the barometer rising late at night.

The disturbance (XV) seems to have been recurving to the NE during the evening.

On the 3rd. we have the following observations:—Nagasaki 10 a. 29.93 NNW 3 or, 2 p. 29.91 NNW 4 o.; Tokio 10 a. 29.92 NW 2, 2 p. 29.69 NW 2; Shanghai 30.24, Amoy 29.98, Hongkong 30.06, Bolinao 29.86, Manila 29.88. Pressure had therefore increased to a moderate extent at the four latter stations while it had decreased in the North, especially in Japan. Strong winds from N and NE continued on the China Coast and strong winds from NW blew between Shanghai and Nagasaki. At Bolinao and Manila the wind was as follows:—Bolinao 9 a. SSW 2, 3 p. NW 3; Manila 10 a. W 1, 4 p. SW 4.

A depression was apparently moving rapidly to the NE at some distance from the S coast of Japan on this day, but the observations are insufficient to connect this with the disturbance situated near the Balingtang Channel on the previous day. The latter must have moved with extraordinary velocity if it be assumed that it had reached the southern shores of Japan in 24 hours. On the other hand, it is possible that its position was little changed and that it was filling up in the neighbourhood of S. Formosa. Observations from Formosa would determine the point but they are, unfortunately, not available.

On the 4th pressure had increased slightly at Shanghai and to the extent of 0.25 inch and 0.20 inch at Amoy and Hongkong respectively, and the NE monsoon blew with great severity in the N part of the China Sea during the following two or three days.

The American full-rigged ship *John R. Kelly* from New York bound for Hongkong crossed the equator in 119° E, and had thereafter calms and light W breezes. On the 6th in 4°, 132° they report SW 5 with stormy looking sky and long NE swell. On the 7th in 6°, 134½° they report a rapidly falling glass, S 6, and NE swell. At noon on the 8th in 9°, 134° they report ENE 8, increasing. In the meantime they had made everything snug and taken in upper topsail and mainsail. At 6 p. they put the ship round to S to keep out of the centre of the typhoon, as the wind, they say, worked round to W. They kept her under lower topsails and storm-spanker all night, the sea increasing and the ship being completely under water. The sea had filled the forward house and the cabin. At 3 a. on the 9th they report NW 10. At 8 a. with W 9, they put ship's head to N. At 4 p. on the 9th in 9°½, 135°½ they report WNW 9. At noon on the 10th in 9°½, 136°½ they report WSW 9. Next day the barometer rose, they say, and the SW gale moderated. On the 12th in 15°, 136° they report NE light breeze, but on the 13th in 17°, 135°½ NE 8. Sails were lost and 3 men hurt. On the 14th in 17°½, 134° the NE gale continued with orq. The positions given we consider doubtful, and it is very likely that the dates are wrong too, so that, *e.g.*, the 8th should have been entered where the 7th is given as the date. The full-rigged ship *Selkirk* from Cardiff to Hongkong reports:—

6th,	8° 21′	132° 53′	...	var.	2 or.	10th,	11° 37′	134° 01′	29.57	SW/W	1 o.
7th,	8 53	132 40	...	WNW	2 ...	11th,	11 40	134 17	.77	WSW	mod.
8th,	10 00	132 59	29.87	NW	5 ...	12th,	13 13	133 17	.87		
9th,	11 43	133 32	.62	W	12 orq.	13th,	15 02	134 02	...	N/W	5

They used oil on the 9th when under bare poles.

The greatest wind force they report at midnight on the 9th. The date given is uncertain. The path of the typhoon (XVI) surmised from these data is therefore very uncertain.

On the 8th at 5.30 p. "There are indications of a depression in the China Sea to the SW of Luzon." On the 9th at 11.15 a. Forecast:—"barometer unsteady: moderate N winds, probably freshening: fine."

On the 10th at 11.20 a. "The depression now appears to be situated to the S of Hongkong in about 15° to 16° latitude." Forecast:—"barometer unsteady: fresh NE winds: fair."

On the 11th at 11.20 a. Forecast:—"barometer steady: fresh NE winds: fair."

On the 12th at 11.10 a. Forecast:—"barometer rising: fresh NE winds: fine."

On the 13th at 11.10 a. Forecast:—"barometer rising: fresh to strong N breezes: fine, clear. Strong monsoon, increasing, in N part of China Sea."

On the 14th at 11.10 a. Forecast:—"barometer steady: strong to fresh NE breezes: dull, some drizzling rain. Heavy monsoon in N part of China Sea."

Pressure remained about 0.2 inch above the normal over China and slightly in excess in Luzon until the 6th November when it commenced to decrease. On the 7th we have the following observations: Hongkong 30.14; Hoihow 30.19; Manila 29 90. Strong NE breezes blew on the S coast of China and light breezes from NNE at Bolinao and Manila. Off the Annam coast in about 13° latitude the barometer read 29.90 and moderate NE and N gales prevailed. The S.S. *Memnon* situated in 12° 13′, 117° 39′ at noon (barometer 29.94), and steering S by W passed during the day from a region where moderate NE winds prevailed to one in which the wind was light and variable and accompanied by rainsqualls, and thence, in the evening, to one in which fresh SW winds were blowing with hard rain-squalls.

In the absence of more complete data it seems probable that a depression was in course of formation in the trough-like area through which this vessel passed about mid-day.

On the 8th we have the following observations :—Hongkong 30.03 ; Hoihow 30.08 ; Bolinao 29.83 ; Manila 29.86. The barometer had therefore fallen at these stations since the previous day. Light and moderate NE winds prevailed on the S coast of China and light SE winds at Manila with rain. At sea, off the Annam coast in about 13° latitude, the barometer read about 29.95 and moderate gales from N and NW accompanied by wet squally weather prevailed. In 5°, 106° the barometer stood at about 29.95 and several vessels had fine weather with moderate NW breezes in this locality. The S.S. *Memnon*, to the W of the S extremity of Palawan, had the barometer, 29.87, falling with a moderate SSW gale accompanied by continuous rain and hard squalls.

These observations show that winds were cyclonic round the China Sea and indicate that the area of low barometer was situated to the NW of Palawan and to the SW of Luzon and approximately in the position 13°, 117° at noon on this day.

On the 9th we have the following observations :—Hongkong 29.98 ; Hoihow 30.02 ; Bolinao 29.80 ; Manila 29.82. The barometer had thus continued to fall slightly at these stations. Light and and moderate NE and N winds blew on the S. Coast of China, light breezes from SE at Bolinao, and from NE to E at Manila. Off the Annam Coast in about 14° Latitude the barometer read 29.90 and fresh N to NNW gales prevailed. In about 7°, 108° moderate NW breezes blew with showery and squally weather, the barometer standing at about 29.90. The S.S. *Memnon* had a fresh SW breeze with the barometer reading 29.85 near the Balabac Channel.

The central area of the depression (XVII) seems to have been occupying much the same position as on the previous day, but the general decrease of pressure round the China Sea indicates that it was increasing in intensity.

On the 10th the following conditions prevailed :—Hongkong 30.03 ; Hoihow 30.03 ; Bolinao 29.82 ; Manila 29.86. These observations of the barometer show that pressure had increased slightly since the previous day on the S. Coast of China and in Luzon. It was below the normal to the extent of about 0.06 inch at Hongkong and 0.03 inch at Manila. Moderate NE monsoon blew on the S. Coast of China and moderate SE breezes at Bolinao. By aid of these and observations made on board vessels at sea, the centre may be placed, approximately, in 14°, 116° at noon. At a distance of about 350 miles to the N of this position the S.S. *Michael Jebsen*, in 19° 54′, 115° 27′, had the barometer, 29.93, falling and a moderate NE gale increasing and veering slightly as she steered towards SSE. A very high cross sea, from NE and SE, prevailed. To the WNW, at a distance of about 350 miles, the S.S. *Sishan*, in 15° 53′, 110° 27′, had 29.85 and a strong increasing breeze from N ; the S.S. *Agamemnon*, in 10° 45′, 111° 05′, at a distance of about 350 miles to the SW of the centre had the barometer, 29.87, falling and a WNW increasing gale with high confused sea ; near the position 8°, 109° the barometer read about 29.97, the wind being a moderate breeze from NW to SW.

On the 11th pressure conditions on the S. Coast of China and in Luzon remained as on the previous day. The NE wind had, however, freshened a little on the S. Coast of China while the SE winds at Bolinao and Manila had become light. The centre of the depression must have been near the position 14°, 115°½. It was moving so slowly, at between 30 and 40 miles per day only, that the observations reveal but little difference in its situation from day to day, although a motion to some point of W is apparent on the whole. To the N by E of the above position at a distance of about 275 miles, the S.S. *Michael Jebsen*, in 18° 19′, 116° 43′, had the barometer, 29.85, falling and the wind a strong gale from NE by E. The vessel was hove to during the afternoon, the wind increasing to storm force with a dangerously high sea ; the S.S. *Machew*, at a distance of about 370 miles to NW, and in 18° 27′, 111° 17′ steering towards NE, had the barometer, 30.01, rising and a fresh increasing gale from NE ; the S.S. *Agamemnon*, about 150 miles to the WSW of the centre and in 12° 48′, 113° 14′, had the barometer, 29.70, falling with a strong WNW gale and high confused sea ; in about 11°, 112° the barometer read 29.83 with fresh W breezes and in 8°, 108° light WNW breezes prevailed with the barometer standing at 29.97.

On the 12th pressure had increased slightly on the S. Coast of China, while in Luzon no change, had taken place. Hongkong had 30.04, Hoihow 30.06, Bolinao 29.83 and Manila 29.86. Light SE winds still prevailed at the two latter stations. The centre may be placed in 14°½, 115° on this day at noon. The S.S. *Michael Jebsen*, hove to at a distance of 250 miles to the NNE of this position, continued to have winds of storm force from NE by E. At noon the barometer read 29.86, but it was now rising and the wind force decreased a little towards evening. Off the SE coast of Hainan, at a distance of 350 miles to the NW of the centre, the barometer read 29.97 and strong NNE winds with showery and squally weather prevailed ; the S.S. *Agamemnon* was now situated in 13° 43′, 114° 02′ and at a distance of 75 miles to SW by W of the centre. They still had a strong WNW gale at noon and the barometer had fallen to 29.55. The vessel was kept on her course towards NNE and during the afternoon the wind veered to NW and decreased to a moderate gale, the barometer rising a little. This vessel might have been run to the SE with advantage as by keeping her course to the northward she was passing towards the storm track and into the right-hand semicircle, a particularly dangerous position in the NE monsoon. NW to W gales blew at a distance of from 150 to 250 miles to the W and SW of the centre, the barometer reading about 29.95 on the Annam coast in 13° Lat. In 9° 7′, 110° 47′ the S.S. *Albingia* had 30.02 with a gentle NW breeze and fine weather.

On the 13th pressure was high over N. China and a considerable increase had taken place on the S. Coast of China and the barometer had also risen in Luzon; Hongkong had 30.15, Hoihow 30.16, Bolinao 29.88 and Manila 29.92. Pressure was now slightly above the normal both at Hongkong and Manila. Fresh NE monsoon blew on the S. coast of China and the light SE breezes were maintained at Bolinao. From the marine data the position of the centre at noon on this day may be given as 14° 45′, 114° 30′ with accuracy from the following observations. S.S. *Agamemnon* 15° 10′, 114° 27′ 29.58 NE 4; S.S. *Pakling* 14° 55′, 113° 32′ 29.71 NW 6; S.S. *Wingsang* 13° 47′, 14° 25′ 29.71 W/S 6. They also indicate that the centre was a large one and show that there was a considerable area around it where the winds were comparatively light. The following information shows that strongest winds were experienced at some distance from the centre. To the W, at a distance of about 250 miles, the steamships *Macduff*, *Holstein* and *Framnes* experienced fierce gales from NNW; to the NNW, at a distance of from 300 to 350 miles, strong NNE winds to gales prevailed accompanied by showery and squally weather the barometer reading about 30.04; the S.S. *Michael Jebsen* still had a fierce NE gale at a distance of about 300 miles to the NE of the centre and strong NE monsoon prevailed at a distance of about 250 miles to the ENE of the centre which shows that the NE monsoon was spreading down the Eastern side of the China Sea in rear of the depression; the S.S. *Albingia* had only a fresh WNW breeze with the barometer reading 29.93 at a distance of 200 miles to the SW by S of the centre.

During the evening on board the *Agamemnon* they had an increasing NE gale with the barometer rising rapidly as they steered to the NNE; the *Pakling*, steering N, had the barometer rising with the wind veering to NE and increasing; and the *Wingsang*, steering NNE, passed to the rear of the depression and had the barometer rising and the wind, of force 5 only, backing to SW in the afternoon and gradually to ESE the same night.

On the 14th pressure remained very high over N China and a further large increase had taken place on the S Coast. In Luzon the barometer had also risen considerably. Hongkong had 30.26, Hoihow 30.23, Bolinao 29.95, and Manila 30.00. Pressure was now above the normal, at Hongkong 0.15 inch, and at Manila 0.10 inch. The centre of the depression seems to have passed N of the S.S. *Polyphemus* at 4 a. on this day. The vessel was then situated in 14° 29′, 113° 00′. A heavy W gale had been experienced up to midnight, but at 2 a. the wind dropped. At 4 a. (bar. 29.80 lowest reading) it began to increase again from SE but it only attained the force of a fresh breeze. In rear of the centre the winds were extremely feeble in this disturbance. At noon the centre was probably situated in 15° 15′, 112° 00′. In rear of the centre at a distance of about 75 miles the barometer read 29.80 and moderate to fresh breezes blew from SE, the weather being squally; in the W quadrant, or in front of the centre at a distance of about 100 miles, the barometer read 29.85 and fierce gales from N and NNW prevailed. The steamships *Loosok*, *Framnes* and *Macduff* ran to the southward and had the wind backing to the NW and W during the evening. The S.S. *Holstein* held on her course to the N and had the wind veering to the E. In the NE quadrant strong gales from NE prevailed at distances varying from 150 to 400 miles from the centre. The wind direction was not, however, controlled by the depression although the force was doubtless augmented by it.

Between the 13 and 14th the disturbance traversed a distance of about 150 miles, so that its rate of progression suddenly increased on the 13th.

On the 15th there yet remains a trace of the depression. To the S of Hongkong in from 17° to 20° lat. strong breezes and moderate gales from E to NE prevailed with the barometer standing at about 30.10. The S.S. *Holstein* to the S of Hainan and in 17° 49′, 110° 39′ had a moderate E gale with the barometer reading 29 96. On the Annam Coast near Cape Varella the steamships *Framnes* and *Loosok* had fresh decreasing W winds in the morning, backing to SW and S at night and becoming light. The barometer which read about 29.93 at noon was rising. The depression was probably central near the position 15½, 109½ at noon, but it had apparently almost filled up.

During the last few days of the existence of this depression high pressure prevailed over China and the NE monsoon blew very strongly in the N part of the China Sea quite irrespective of the low pressure area to the Southward. In the northern semicircle the monsoon and the strong winds due to the depression itself were therefore combined and produced very heavy weather in this part of the disturbance; and in consequence of the slow motion of the latter these strong winds were maintained for several days and many vessels steering northwards in the China Sea were delayed and suffered severely, some of them being in difficulties through running short of coal.

Extract of observations made on board ships in the Far East in 1895.

The corrections to barometer and anëroid readings made on board ships are determined as far as possible by comparing the readings entered on our forms or in the Logbooks when the vessel is in port with more reliable instruments read on shore, but no allowance can be made for scale-errors, and the index errors are supposed to vary with the time. Observations made on board ships are usually very rough. With regard to the direction and force of the wind frequently the motion of the vessel is not taken into account. The weather symbols given are those in general use to denote the state of the sky and weather with the exception of k, which is here used whenever the term "clear" or "fine" is written is the Logbook. These latter terms are too indefinite to admit of a clear interpretation as regards the state of the sky. The following observations were all made at noon (true time):—

MAY, 1895.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For.	Weather.
			ins.		0-12	
May 1st.						
Riojun Maru, str.,	38° 53′	121° 52′	30.00	N	3	c.
Kaisar-i-Hind, str.,	34 11	138 0	30.04	E	4	o.
Ancona, str.,	33 48	131 35	29.98	SE	3	or.
Chi Yuen, str.,	28 24	121 54	30.01	ESE	1	o.
Ayr, str.,	25 11	119 48	29.92	N	2	cf.
Nanyang, str.,	24 3	118 30	.91	NE	4	ofr.
Pallas, str.,	23 33	117 54	.92	NE	4	m.
I.M.C.C. Likin,	18 12	109 33	.93	SE	1	c.
Tasmania, bk.,	15 46	113 55	...	S	3	...
Alice Mary, bk.,	14 33	111 13	...	SSE	2	k.
Deuteros, str.,	14 11	110 13	.88	SSW	3	k.
Chunshan, str.,	10 29	102 22	.82	SW	4	k.
Orient, bk.,	8 35	109 54	.90	...	0	...
Phra Nang, str.,	6 54	103 11	.91	NNW	2	k.
Belmont, bk.,	5 30	159 50	...	E	4	orq.
Rohilla, str.,	4 5	105 46	.93	var.	1	k.
May 2nd.						
Riojun Maru, str.,	38 53	121 52	29.91	NW	4	c.
Nanyang, str.,	27 14	121 13	.88	NW	1	of.
Pallas, str.,	26 26	122 8	.88	SW	4	m.
Chi Yuen,	25 12	119 48	.97	var.	1	o.
Ayr, str.,	22 43	116 56	.92	var.	1	cm.
Sungkiang, str.,	22 32	115 22	.97	E	2	c.
Frejr, str.,	21 38	113 28	.93	SSW	3	p.
Chingtu, str.,	19 30	116 15	.92	SSE	2	k.
Memnon, str.,	19 21	115 15	.92	S	2	c.
Tasmania, bk.,	18 3	114 15	...	S	2	q.
Deuteros, str.,	17 46	111 27	.90	S	3	k.
I.M.C.C. Likin,	17 40	110 15	.95	S	2	c.
Alice Mary, bk.,	13 46	109 33	...	S	4	k.
Phra Nang, str.,	10 8	101 57	.85	WSW	2	k.
Chunshan, str.,	8 33	105 30	.82	var.	1	k.
Orient, bk.,	7 55	109 23	.91	WNW	1	orq.
Rohilla, str.,	7 54	108 14	.87	SE	1	o.
Belmont, bk.,	6 43	159 34	...	NE	4	...
May 3rd.						
Riojun Maru, str.,	38 53	121 52	30.12	NW	3	c.
Nanyang, str.,	30 46	122 18	.17	N	4	c.
Ancona, str.,	30 14	126 8	.11	NNW	4	o.
Pallas, str.,	29 15	126 8	.18	NNE	4	o.
Chi Yuen, str.,	23 14	116 47	.01	WSW	1	o.
Serrano, bk.,	21 12	113 35	.02	SSE	2	k.
Deuteros, str.,	20 47	113 17	.02	E	4	o.
Tasmania, bk.,	20 28	114 15	...	W	6	q.
Ayr, str.,	19 49	114 54	.03	var.	1	c.
I.M.C.C. Likin,	17 41	110 1	29.98	S	1	c.
Chingtu, str.,	15 47	118 42	.93	NE	2	k.
Memnon, str.,	15 7	116 31	.94	...	0	b.
Alice Mary, bk.,	13 47	109 42	...	SSE	1	k.
Rohilla, str.,	11 51	110 48	.95	...	0	k.
Chunshan, str.,	10 58	108 36	.94	NE	...	k.
Belmont, bk.,	8 4	159 35	...	ENE	2	k.
Orient, bk.,	7 59	109 1	.89	NE	1	...
May 4th.						
Riojun Maru, str.,	38 53	121 52	30.11	WNW	2	b.
Empress of Japan, str.,	38 44	142 29	.03	N	4	o.
Natal, str.,	34 50	136 58	29.93	NW	1	or.
Pallas, str.,	32 22	129 51	30.18	NNW	4	o.
Rosetta, str.,	30 36	122 24	.31	NE	2	c.
Ancona, str.,	26 45	121 34	.27	NNW	4	k.
Serrano, bk.,	19 28	112 42	.14	ENE	6	orq.
Catherine Apcar, str.,	18 51	114 17	.03	ENE	4	oq.
I.M.C.C. Likin,	17 47	109 55	.00	NE	2	c.
Ayr, str.,	16 43	113 39	.03	NE	5	c.
Yuensang, str.,	16 12	118 49	29.86	NNE	...	...
Rohilla, str.,	15 27	113 11	.94	NE	4	k.
Chunshan, str.,	15 ...	110 24	30.01	NNE	5	k.
Alice Mary, bk.,	12 48	109 49	...	N	2	orq.
Chingtu, str.,	12 7	120 59	29.85	ESE	4	c.
Memnon, str.,	10 58	117 49	.89	ENE	2	ptl.
Belmont, bk.,	9 34	157 8	...	ESE	2	k.
Orient, bk.,	7 45	108 37	.89	NE	1	o.
May 5th.						
Riojun Maru, str.,	38 53	121 52	29.82	SSE	7	b.
Siam, str.,	33 31	136 4	30.16	NE	3	k.
Guthrie, str.,	31 7	122 2	.02	S	6	o.
Rosetta, str.,	26 22	120 42	.11	ENE	3	cv.
Ancona, str.,	23 18	117 30	.11	NE	4	k.
May 5th.						
China, str.,	21° 22′	113° 25′	30.06	E	4	k.
Sungkiang, str.,	21 11	118 54	.04	E	3	c.
Activ, str.,	20 33	111 14	04	E	4	o.
Zafiro, str.,	20 29	115 42	29.99	E	6	c.
Rohilla, str.,	19 45	113 46	.99	ENE	5	k.
Yuensang, str.,	19 12	116 17	.95	...	...	c.
Chunshan, str.,	18 30	111 21	.80	NE	9	q.
I.M.C.C. Likin,	18 11	109 41	30.01	NE	2	c.
Serrano, bk.,	16 48	110 10	...	NE	6	k.
Catherine Apcar, str.,	15 11	112 58	29.95	ENE	3	k.
Ayr, str.,	13 45	112 7	.96	NE	4	c.
Alice Mary, bk.,	10 55	109 29	...	NE	2	k.
Belmont, bk.,	10 35	154 25	...	E	4	k.
Chingtu, str.,	7 55	121 52	.83	SW	2	k.
Memnon, str.,	7 5	116 49	.92	SW	4	or.
Orient, bk.,	6 51	107 42	.88	NE	1	...
May 6th.						
Riojun Maru, str.,	38 53	121 52	29.60	S	6	b.
Guthrie, str.,	33 6	126 49	.94	SE	4	o.
Peiyang, str.,	23 38	117 58	.95	SW	1	b.
Rosetta, str.,	23 18	117 31	.96	SW	1	cm.
Activ, str.,	22 6	113 56	.97	ESE	3	o.
Chunshan, str.,	21 30	113 22	.96	ENE	3	k.
I.M.C.C. Likin,	18 5½	109 48	.93	NE	2	c.
China, str.,	17 48	110 56	.90	SSE	2	k.
Zafiro, str.,	17 2	118 28	.90	E	3	c.
Sungkiang, str.,	16 43	119 39	.87	S	2	c.
Serrano, bk.,	14 44	110 19	...	NE	4	k.
Belmont, bk.,	12 22	151 57	...	E	5	orq.
Catherine Apcar, str.,	12 2	111 8	.90	var.	1	cp.
Marie Berg, bk.,	11 43	113 31	...	var.	1	q.
Ayr, str.,	10 34	110 12	.93	NNE	3	c.
Alice Mary, bk.,	10 0	107 59	...	ENE	1	k.
Orient, bk.,	6 31	107 29	.87	WSW	1	...
Chingtu, str.,	4 7	123 54	.82	S	2	k.
May 7th.						
Riojun Maru, str.,	38 53	121 51	29.61	S	4	c.
Orono, str.,	36 18	141 6	30.12	var.	1	...
Guthrie, str.,	33 54	131 8	.14	SE	5	o.
Riversdale, str.,	33 48	130 7	.10	var.	2	o.
Peiyang, str.,	27 10	121 10	29.96	SSE	2	c.
Kriemhild, str.,	23 29	118 8	.88	SW	2	b.
Brindisi, str.,	23 11	117 18	.93	SW	2	c.
Kwanglee, str.,	23 2	116 39	.96	SE	1	b.
I.M.C.C. Likin,	18 1	110 8	.91	SSE	1	c.
Sungkiang, str.,	14 35	120 58	.94	var.	1	c.
Belmont, bk.,	14 0	149 8	...	E	4	oq.
Serrano, bk.,	13 52	110 20	...	E	2	k.
China, str.,	13 46	109 44	.89	SW	2	k.
Marie Berg, bk.,	12 35	113 14	...	E	2	o.
Alice Mary, bk.,	9 39	106 58	...	WSW	1	k.
Catherine Apcar, str.,	9 2	109 25	.89	SE	1	k.
Ayr, str.,	7 33	108 22	.92	SSW	1	c.
Orient, bk.,	5 54	107 23	.86	...	0	...
Chingtu, str.,	0 24	125 57	.85	S	1	crq.
May 8th.						
Orono, str.,	39 35	141 30	30.05	S	2	c.
Riojun Maru, str.,	38 53	121 51	.04	NNE	4	c.
Siam, str.,	34 26	134 10	.18	var.	2	k.
Empress of Japan, str.,	33 42	132 8	.15	SW	2	k.
Riversdale, str.,	32 4	126 58	.00	SE	4	m.
Natal, str.,	31 38	122 54	29.99	SW	4	...
Pallas, str.,	30 55	127 30	30.10	SE	2	k.
Kwanglee, str.,	26 4	120 25	29.98	SE	2	m.
Brindisi, str.,	25 33	120 58	.94	SE	3	c.
Kriemhild, str.,	25 28	121 56	.86	SE	2	or.
Rohilla, str.,	24 4	118 33	.88	ENE	1	k.
Fidelio, str.,	21 39	113 40	.89	SSE	1	c.
Sishan, str.,	20 56	115 6	.90	var.	1	o.
Devawongse, str.,	20 40	114 23	.93	SW	2	k.
Frejr, str.,	20 33	111 23	.88	E	1	b.
I.M.C.C. Likin,	18 9	110 27	.93	SE	1	c.
Belmont, bk.,	15 9	146 52	...	ENE	2	k.
Alcedo, sh.,	14 41	111 40	...	var.	3	k.
Sungkiang, str.,	14 34	120 58	.81	var.	1	c.
Serrano, bk.,	13 37	110 22	...	...	0	k.
Marie Berg, bk.,	13 7	113 23	...	NE	1	k.
Alice Mary, bk.,	9 4	106 36	...	NW	1	k.

MAY, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 8th.						
Pakshan, str.,	8° 24′	104° 54′	29.93	NW	3	c.
Catherine Apcar, str.,	6 5	107 26	.89	WSW	1	o.
Orient, bk.,	4 59	107 8	.87	S	var.	oq.
Ayr, str.,	4 21	106 28	.91	SW	2	o.
May 9th.						
Orono, str.,	41 15	140 45	30.01	SW	2	c.
Riojun Maru, str,	38 53	121 52	.08	S	1	c.
Kaisar-i-Hind, str.,	34 34	138 45	.12	SW	2	c.
Siam, str.,	33 58	130 55	.12	SW	2	k.
Kwanglee, str.,	30 4	122 36	.00	...	0	f.
Riversdale, str.,	29 57	124 7	...	var.	3	m.
Pallas, str.,	28 10	123 42	...	SE	1	f.
Rohilla, str.,	27 39	121 35	29.88	N	2	o.
Kriemhild, str.,	27 18	126 3	.88	ESE	3	c.
Brindisi, str.,	27 12	125 5	.93	var.	3	or.
Lyeemoon, str.,	23 31	117 47	.89	E	1	f.
Esmeralda, str.,	21 15	115 1	.89	...	4	k.
Shantung, str.,	19 4	111 58	.89	S	1	k.
Fidelio, str.,	18 34	111 31	.82	SE	2	c.
I.M.C.C. Likin,	18 0	110 14	.90	S	1	c.
Sishan, str.,	17 50	112 0	.85	var.	1	o.
Devawongse, str.,	17 29	111 13	.82	SSE	3	k.
Belmont, bk.,	16 26	144 36	...	ENE	2	k.
Sungkiang, str.,	14 34	120 58	.77	NE	2	c.
Alcedo, sh.,	14 22	111 58	...	...	0	k.
Marie Berg, bk.,	13 42	113 24	...	NE	1	m.
Serrano, bk.,	13 9	110 30	...	...	0	k.
Pakshan, str.,	10 9	108 2	.88	NW	3	k.
Alice Mary, bk.,	8 14	105 58	...	W	2	q.
Ingraban, str.,	3 4	104 57	...	...	0	m.
Catherine Apcar, str.,	3 3	... ...	.91	...	0	k.
May 10th.						
Oorno, str.,	41 15	140 45	29.98	ESE	1	c.
Riojun Maru, str.,	38 53	121 52	.96	WNW	4	b.
Siam, str.,	32 24	127 22	.86	SW	4	or.
Empress of Japan, str.,	31 24	123 54	30.03	N	6	o.
Kwanglee, str.,	31 3	122 9	.04	N	5	q.
Rohilla, str.,	30 50	122 17	29.91	NW	5	o.
Kriemhild, str.,	30 3	129 37	.86	SSE	4	cmg.
Brindisi, str.,	29 0	129 19	.93	SSE	4	c.
Riversdale, str.,	27 31	121 33	.92	NE	4	m.
Lyeemoon, str.,	27 10	121 0	.91	NE	4	m.
Pallas, str.,	25 37	120 5	.96	NNE	2	k.
Deuteros, str.,	21 53	114 12	.91	NE	2	o.
Yuensang, str.,	20 54	115 25	.89	ENE	...	c.
I.M.C.C. Likin,	18 11	110 13	.91	SE	1	c.
Belmont, bk.,	17 47	142 20	...	ENE	4	k.
Esmeralda, str.,	17 30	118 0	.74	E	3	k.
Shantung, str.,	15 19	110 10	.84	SSE	2	k.
Fidelio, str.,	15 18	109 56	.89	SE	1	c.
Sungkiang, str.,	14 35	120 58	.78	SW	1	c.
Sishan, str.,	14 20	110 11	.83	var.	1	...
Marie Berg, bk.,	14 1	114 3	...	N	2	o.
Alcedo, sh.,	13 57	112 2	...	var.	1	o.
Devawongse, str.,	13 42	109 38	...	SSE	3	k.
Pakshan, str.,	13 27	109 52	.86	var.	1	k.
Serrano, bk.,	12 57	110 20	...	...	0	k.
Fort Stuart, sh.,	9 0	143 17	...	var.	1	k.
Alice Mary, bk.,	8 5	105 31	...	SW	2?	q.
Specialist, str.,	5 57	107 5	...	...	0	o.
Ingraban, str.,	5 42	106 20	...	NNW	2	k.
May 11th.						
Riojun Maru, str.,	38 53	121 52	29.88	WSW	4	b.
Kaisar-i-Hind, str.,	33 47	131 45	.95	WNW	3	o.
Kriemhild, str.,	32 9	133 37	.93	SSW	3	oq.
Brindisi, str.,	31 42	133 0	.95	N	5	c.
Lyeemoon, str.,	30 49	122 16	30.14	...	0	b.
Siam, str.,	29 11	123 46	.18	NW	4	k.
Nanyang, str.,	27 34	121 34	.11	NNE	4	c.
Riversdale, str.,	24 50	119 21	.04	NE	7	o.
Belgic, str.,	24 43	119 3	29.96	NE	6	c.
Hohenzollern, str.,	24 10	118 34	30.00	NE	6	o.
Ancona, str.,	23 48	117 51	29.99	NE	8	o.
Pallas, str.,	22 51	116 30	.96	NE	4	k.
Asloun, str.,	19 19	112 20	...	NE	5	o.
Belmont, bk.,	19 18	140 15	...	E	2	k.
Propontis, str,	18 52	113 40	.89	E	5	k.
Deuteros, str.,	18 31	111 39	.90	N	5	o.
May 11th.						
I.M.C.C. Likin,	17° 55′	109° 45′	29.93	NE	2	c.
Yuensang, str.,	17 44	117 37	.81	...	...	...
Pakshan, str.,	16 55	111 12	.91	NNE	4	k.
Sungkiang, str.,	14 34	120 58	.74	E	4	or.
Marie Berg, bk.,	14 16	116 1	...	N	6	orq.
Esmeralda, str.,	14 10	119 45	.69	SE	3	orq.
Alcedo, sh.,	13 59	113 24	...	N	4	o.
Serrano, bk.,	12 13	110 8	...	E	2	k.
Fidelio, str.,	12 1	109 22	.86	SSE	1	c.
Shantung, str.,	11 36	109 19	.88	var.	1	c.
Sishan, str.,	11 7	108 41	.86	SW	1	o.
Devawongse, str.,	10 12½	108 28	.84	WSW	4	k.
Fort Stuart, sh.,	9 33	143 17	...	var.	1	k.
Specialist, str.,	8 20	108 45	.82	WSW	2	op.
Alice Mary, bk.,	8 11	104 58	...	SW	...	orq.
Ingraban, str.,	8 8	108 10	...	WSW	4	k.
Arratoon Apcar, str.,	4 15	105 55	.88	var.	2	c.
May 12th.						
Riojun Maru, str.,	38 53	121 52	29.76	SSE	4	c.
Belgic, str.,	27 42	122 48	.96	ENE	3	c.
Salazie, str.,	27 41	121 28	30.02	S	1	b.
Siam, str.,	26 9	120 38	.00	N	4	k.
Ancona, str.,	25 57	121 5½	29.94	NE/E	5	k.
Hohenzollern, str.,	25 56	122 17	.96	ENE	5	k.
Empress of Japan, str.,	25 54½	120 18	.98	NNE	6	k.
Nanyang, str.,	24 18	118 42	.97	NE	4	cm.
Riversdale, str.,	22 52	116 48	.90	NE	5	m.
Frejr, str.,	21 53	113 38	.92	NE	2	b.
Belmont, bk.,	20 28	138 48	...	E	4	k.
Pakshan, str.,	19 19	112 28	.90	NE	5	k.
I.M.C.C. Likin,	18 12	109 33	.91	NW	1	c.
Asloun, str.,	15 39	110 5	...	var.	var.	or.
Holstein, str.,	15 35	110 31	...	var.	4	orq.
Propontis, str.,	15 7	112 44	.86	NNE	2	o.
Yuensang, str.,	15 3	119 58	.66	...	...	or.
Deuteros, str.,	14 46	110 16	.83	NE	3	o.
Sungkiang, str.,	14 34	120 58	.71	E	4	or.
Marie Berg, bk.,	14 21	116 41	...	NNW	5	c.
Alcedo, sh.,	14 12	114 47	...	var.	5	opq.
Specialist, str.,	11 5	110 26	.82	N	2	o.
Serrano, bk.,	11 4	110 14	...	N	3	c.
Ingraban, str.,	10 48	109 1	...	...	0	...
Fort Stuart, sh.,	10 37	141 55	...	SSE	3	k.
Cassius, str.,	10 13	107 20	...	...	0	...
Chowfa, str.,	8 50	106 23	.81	NW	3	p.
Memnon, str.,	8 40	118 11	.82	var.	1	cm.
Shantung, str.,	8 4	107 25	.86	SW	1	k.
A. Mary, bk.,	7 45	104 34	...	W	...	orq.
Arratoon Apcar, str.,	7 30	108 43	.86	N	2	c.
Devawongse, str.,	6 25	106 9	.85	W	4	orq.
Aglaia, str.,	4 57	106 24	.85	N	1	k.
May 13th.						
Riojun Maru, str.,	38 53	121 52	29.82	SE	3	b.
Kaisar-i-Hind, str.,	31 39	124 44	.93	S	2	o.
Belgic, str.,	31 14	127 31	.92	SE	2	c.
Ancona, str.,	29 16	125 16	.90	E	2	k.
Hohenzollern, str.,	28 13	127 38	.94	ESE	4	o.
Salazie, str.,	23 30	117 49	.82	N	2	o.
Siam, str.,	23 10	117 19	.94	NE	3	k.
Empress of Japan, str.,	22 18	114 45	.87	SE	2	k.
Nanyang, str.,	22 18	114 40	.83	var.	1	bm.
Belmont, bk.,	21 35	137 10	...	SE	2	k.
Holstein, str.,	18 41	111 42	...	NNE	2	c.
Rio, str.,	18 24	111 28	.83	S	1	k.
I.M.C.C. Likin,	18 12	109 33	.81	E	1	o.
Alcedo, sh.,	14 55	114 3	...	NE	3	c.
Marie Berg, bk.,	14 41	117 22	...	NW	6	orq.
Sungkiang, str.,	14 34	120 58	.68	WNW	6	d.
Ingraban, str.,	13 45	109 38	...	NNE	5	
Specialist, str.,	13 30	111 40	.77	N	1	
Cassius, str.,	12 23	109 37	.77	N	5	k.
Fort Stuart, sh.,	12 12	140 18	...	SSE	3	og.
Chowfa, str.,	11 51	109 18	.76	var.	1	
Asloun, str.,	11 38	109 18	...	SE	4	k.
Propontis, str.,	11 13	110 42	.83	SSW	1	k.
Deuteros, str.,	11 12	108 56	...	NW	2	k.
Arratoon Apcar, str.,	11 6	110 43	.79	...	0	c.
Serrano, bk.,	10 57	110 4	...	W	1	k.

MAY, 1895.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	For.	Weather.
			ins.		0-12	
May 13th.						
Memnon, str.,	8° 31′	119° 16′	29.78	WSW	4	clt.
Aglaia, str.,	8 23	108 35	.80	W	3	k.
Alice Mary, bk.,	7 21	103 48	...	W/S	5	orq.
Shantung, str.,	4 9	105 50	.86	SSW	2	k.
Devawongse, str.,	3 14	105 8	.82	SW	4	k.
May 14th.						
Riojun Maru, str.,	38 53	121 52	29.88	SE	3	f.
Ancona, str.,	32 40	129 46	.98	ENE	1	k.
Kwanglee, str.,	31 17	121 46	.96	SE	1	f.
Hohenzollern, str.,	30 55	132 33	30.02	ESE	3	og.
Glenogle, str.,	23 32	117 45	29.87	NE	2	k.
Belmont, bk.,	22 57	135 8		SSE	4	or.
Holstein, str.,	21 33	113 33		NE	2	c.
I.M.C.C. Likin,	18 12	109 33	.81	SSE	2	c.
Ingraban, str.,	16 13	110 46	...	...	0	...
Cassius, str.,	15 54	111 0	.78	NE	2	orq.
Specialist, str.,	15 49	112 54	...	NE	4	...
Chowfa, str.,	15 48	110 33	.80	NNE	2	k.
Marie Berg, bk.,	15 20	117 43	...	NW	5	...
Alcedo, sh.,	15 2	114 32	.79	var.	3	k.
Fort Stuart, sh.,	15 2	138 0	...	ESE	4	k.
Amigo, str.,	14 58	110 13	.76	E	...	k.
Sungkiang, str.,	14 34	120 58	.74	W	4	c.
Rio, str.,	14 33	109 54	.77	S	2	k.
Arratoon Apcar, str.,	14 15	112 28	.80	...	0	c.
Memnon, str.,	12 9	119 31	.78	var.	1	or.
Aglaia, str.,	11 37	110 42	.77	...	0	oq.
Serrano, bk.,	9 28	109 42	...	SW	5	oq.
Deuteros, str.,	8 38	105 58	.80	W	5	o.
Propontis, str.,	7 48	108 33	.84	SW	6	orq.
Alice Mary, bk.,	6 50	103 27	...	WSW		o.
May 15th.						
Riojun Maru, str.,	38 53	121 52	29.80	ESE	4	o.
Guthrie, str.,	33 55	131 4	.99	NW	3	c.
Hohenzollern, str.,	33 52	137 56	30.10	...	0	of.
Ancona, str.,	33 46	131 54	.07	var.	1	k.
Kwanglee, str.,	31 17	121 46	29.94	SE	2	...
Glenogle, str.,	26 7	120 50	.88	NNE	2	
Belmont, bk.,	24 19	133 23	...	SE	2	k.
Glenfarg, str.,	22 26	115 11	.85	ENE	2	b.
Strathavon, str.,	19 32	112 18	.83	SE	2	k.
Chowfa, str.,	19 27	112 29	.84	NE	1	k.
Cassius, str.,	19 13	111 34	.82	ENE	5	...
Ingraban, str.,	18 54	111 58	...	NE	2	...
Specialist, str.,	18 52	113 43	.83	NE	2	k.
Amigo, str.,	18 24	111 1	.80	E	4	...
I.M.C.C. Likin,	18 7	110 14	.85	ENE	1	c.
Arratoon Apcar, str.,	18 1	113 40	.84	NE	3	c.
Marie Berg, bk.,	15 40	118 22	...	NE	1	c.
Memnon, str.,	15 34	118 0	.78	N	1	op.
Alcedo, sh.,	15 6	114 40	.78	...	0	k.
Aglaia, str.,	14 50	112 36	.80	E	5	c.
Sungkiang, str.,	14 34	120 58	.83	W	3	c.
Rio, str.,	10 50	108 30	.78	SW	2	k.
Deuteros, str.,	9 45	102 51	...	WNW	5	or.
Alice Mary, bk.,	8 27	102 53	...	NW	1	or.
Propontis, str.,	4 34	106 39	.84	SW	4	k.
May 16th.						
Riojun Maru, str.,	38 53	121 52	29.85	SSE	2	b.
Belgic, str.,	34 40	135 12	.80	W	1	c.
Brindisi, str.,	33 40	135 15	.95	SSE	2	b.
Guthrie, str.,	33 18	126 49	.79	SE	3	c.
Glenogle, str.,	29 31	124 5	.86	ENE	2	o.
Peiyang, str.,	29 18	122 33	.86	...	0	cm.
Lyeemoon, str.,	28 55	122 26	.81	var.	1	m.
Kwanglee, str.,	28 24	121 46	.86	SE	2	b.
Belmont, bk.,	24 56	132 20	...	SE	2	
Glenfarg, str.,	24 30	119 11	.81	NE	4	bm.
Pallas, str.,	23 27	117 50	.80	NE	3	k.
Specialist, str.,	22 6	113 55	.83	...	0	k.
Chunshan, str.,	21 45	116 30	.83	NW	3	k.
Ingraban, str.,	21 21	113 38	...	SE	1	...
Amigo, str.,	21 25	113 3	...	NNE	...	k.
Machew, str.,	19 27	112 28	.81	...	0	k.
Memnon, str.,	19 2	116 30	.81	var.	1	c.
Aglaia, str.,	18 49	113 44	.83			
I.M.C.C. Likin,	18 21	110 29	.85	S	1	c.
Strathavon, str.,	16 21	110 17	.71	SE	2	k.
May 16th.						
Marie Berg, bk.,	16° 1′	118° 22′	...	ENE	1	k.
Sungkiang, str.,	14 34	120 58	29.83	var.	1	c.
Phra Nang, str.,	9 10	103 28	.86	S	1	k.
Serrano, bk.,	6 54	110 22	...	SW	3	kp.
Devawongse, str.,	4 13	104 3	.85	var.	1	k.
May 17th.						
Riojun Maru, str.,	38 53	121 52	29.63	WNW	4	b.
Ancona, str.,	34 39	139 0	.73	ENE	1	c.
Belgic, str.,	34 25	138 32	.47	SE	3	c.
Glenogle, str.,	32 24	127 10	.67	SW	4	o.
Guthrie, str.,	29 16	123 24	.74	NE	5	o.
Glenfarg, str.,	28 3	121 49	.74	NNE	5	omp.
Pallas, str.,	26 40	121 57	.75	SE	2	k.
Chi Yuen, str.,	26 9	120 26	.77	SW	3	o.
Kwanglee, str.,	25 58	119 55	.82	SSW	2	o.
Peiyang, str.,	25 49	120 22	.73	SSW	4	c.
Lyeemoon, str.,	25 13	119 52	.75	SW	3	c.
Triumph, str.,	23 58	118 30	...	SW	4	k.
Ask, str.,	21 55	113 45	.81	SW	1	k.
Frejr, str.,	20 35	111 28	.77	...	0	p.
I.M.C.C. Likin,	18 18	110 33	.81	SE	1	c.
Chunshan, str.,	18 1	114 28	.78	S	4	k.
Marie Berg, bk.,	16 39	118 42	...	E	1	k.
Machew, str.,	15 58	110 33	.81	SSE	3	k.
Sungkiang, str.,	14 34	120 58	.78	ESE	2	c.
Strathavon, str.,	12 35	109 27	.76	SE	1	k.
Phra Nang, str.,	9 22	106 51	.83	WNW	3	k.
Fidelio, str.,	7 31	107 3	.88	SW	1	o.
Serrano, bk.,	6 26	110 32	...	SW	1	k.
May 18th.						
Riojun Maru, str.,	38 53	121 52	29.79	WNW	3	b.
Hohenzollern, str.,	34 32	138 39	.44	WSW	5	o.
Kaisar-i-Hind, str.,	30 24	122 34	.91	NW	2	c.
Chi Yuen, str.,	29 10	122 5	.94	WSW	2	o.
Pallas, str.,	29 5	125 59	.95	N	4	o.
Belmont, bk.,	27 19	129 56	...	N	6	or.
Triumph, str.,	25 58	120 30	...	NE	6	...
Guthrie, str.,	25 52	120 25	.84	NE	5	o.
Kwanglee, str.,	23 54	118 0	.94	NE	6	or.
Lyeemoon, str.,	22 35	115 51	.86	NNE	6	o.
Peiyang, str.,	22 25	116 56	.92	NE	5	c.
Activ, str.,	21 38	113 23	.83	SSE	2	c.
Ask, str.,	20 14	110 46	.78	SSE	3	k.
I.M.C.C. Likin,	18 18	110 18	.81	S	1	or.
Marie Berg, bk.,	17 21	119 5	...	ESE	1	k.
Sungkiang, str.,	14 35	120 59	.78	W	2	c.
Chunshan, str.,	14 30	112 18	.78	S	4	o.
Devawongse, str.,	12 15	101 7	.73	W	4	q.
Phra Nang, str.,	12 6	109 22	.81	ESE	1	o.
Machew, str.,	12 5	109 23	.81	...	0	k.
Kong Beng, str.,	8 21	105 10	.75	...	0	c.
Serrano, bk.,	5 26	110 22	...	WSW	3	k.
May 19th.						
Riojun Maru, str.,	38 53	121 52	29.86	SW	2	c.
Pallas, str.,	32 20	129 57	30.05	N	4	o.
Triumph, str.,	28 6	123 20	...	N	1	...
Belmont, bk.,	27 30	129 10	...	...	0	k.
Kaisar-i-Hind, str.,	26 7	120 30	.03	NE	2	c.
Guthrie, str.,	22 56	116 50	29.94	NE	5	o.
Omba, str.,	22 55	117 4	.99	NE	7	o.
Ask, str.,	20 23	108 35	.77	SE	2	o.
Activ, str.,	20 10	110 25	.84	SSE	5	ort.
Marie Berg, bk.,	18 28	119 7	...	E N	6	...
Zafiro, str.,	16 16	119 0	.88	NE	3	c.
Phra Nang, str.,	15 54	110 32	.85	ESE	2	o.
Esmeralda, str.,	15 30	119 30	.89	...	0	k.
Sungkiang, str.,	14 35	120 59	.84	NW	2	c.
Sishan, str.,	11 56	107 17	.83	...	0	k.
Chunshan, str.,	11 48	109 19	.72	SSW	3	k.
Kong Beng, str.,	10 38	108 24	.80	var.	1	k.
Machew, str.,	8 53	106 29	.85	SW	4	k.
Serrano, bk.,	4 47	110 40	...	W	2	o.
May 20th.						
Riojun Maru, str.,	38 53	121 52	29.85	S	2	c.
Belgic, str.,	37 5	145 24	30.16	S	2	c.
Glenogle, str.,	33 51	132 26	.10	...	0	o.
Triumph, str.,	30 24	126 36	.08	SSE	3	or.
Belmont, bk.,	27 58	127 30	...	SE	5	or.

MAY, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 20th.						
Omba, str.,	25° 16′	120° 5′	29.90	NE	2	c.
Marie Berg, bk.,	19 50	119 0	...	SE/E	5	...
Zafiro, str.,	19 34	116 26	.93	NE	2	pq.
Phra Nang, str.,	19 12	112 9	.86	S	3	c.
Sishan, str.,	15 41	110 49	.87	SW	3	k.
Sungkiang, str.,	14 35	120 59	.87	W	1	c.
Kong Beng, str.,	14 16	110 15	.82	S	1	k.
Machew, str.,	9 38	102 50	.83	S		k.
Chunshan, str.,	8 25	106 48	.90	WSW	3	k.
Serrano, bk.,	4 12	110 35	...	ESE	1	o.
May 21st.						
Belgic, str.,	39 28	151 22	29.99	S	4	c.
Riojun Maru, str.,	38 53	121 52	30.00	WSW	3	b.
Hohenzollern, str.,	33 42	132 8	29.81	W	3	k.
Belmont, bk.,	29 31	125 33	...	NE	5	or.
Omba, str.,	27 9	124 3	.80	NE	6	o.
Pakshan, str.,	22 20	116 43	.86	SW	3	...
Frejr, str.,	21 43	113 27	.81	SSE	2	g.
Marie Berg, bk.,	20 16	119 33	...	S	1	k.
Sishan, str.,	18 59	112 32	.85	SSE	2	k.
I.M.C.C. Likin,	18 55	110 41	.81	SSW	2	c.
Kong Beng, str.,	18 3	111 15	.82	S	3	k.
Sungkiang, str.,	14 34	120 58	.86	NW	3	c.
Machew, str.,	12 55	100 44	...	SW	4	k.
China, str.,	12 8	109 23	.84	E	2	k.
Ernest Simons, str.,	5 5	105 38	.93	N	1	c.
Chunshan, str.,	4 30	105 30	.89	S	4	k.
Bisagno, str.,	3 27	105 30	...	...	0	k.
Serrano, bk.,	3 1	110 10	...	S	2	o.
May 22nd.						
Belgic, str.,	41 23	157 38	29.34	SE	3	of.
Riojun Maru, str.,	38 53	121 52	.98	W	2	b.
Omba, str.,	28 26	126 41	.92	NE	6	o.
Nanyang, str.,	24 2	118 33	.83	NE	4	ogr.
Kong Beng, str.,	21 33	113 24	.81	SSW	3	m.
Marie Berg, bk.,	20 37	120 1	...	S	1	k.
Frejr, str.,	20 10	110 25	.75	...	0	...
Activ, str.,	20 8	110 12	.79	SSE	1	c.
Pakshan, str.,	19 23	114 54	.85	SSW	2	b.
I.M.C.C. Likin,	19 ...	110 42	.84	SSW	2	c.
China, str.,	15 59	110 22	.82	SSE	3	k.
Sungkiang, str.,	14 35	120 59	.84	NW	1	c.
Asloun, str.,	12 6	109 28	...	SE	2	k.
Bisagno, str.,	6 47	107 45	...	NW	2	k.
Serrano, bk.,	2 57	111 10	...	S	2	o.
May 23rd.						
Riojun Maru, str.,	38 53	121 52	29.90	W	3	b.
Glenogle, str.,	33 54	137 2	30.12	W	2	b.
Hohenzollern, str.,	30 4	126 17	.05	NW	3	or.
Omba, str.,	29 11	128 18	.01	NE	6	orq.
Nanyang, str.,	26 8	120 28	.00	NNE	6	ogr.
Kweiyang, str.,	23 54	117 34	29.92	NE	9	or.
Marie Berg, bk.,	21 34	120 38	...	NW	1	o.
Frejr, str.,	21 20	109 6	.86	N	4	o.
Activ, str.,	20 33	111 14	.84	NW	1	o.
Ask, str.,	20 10	110 0	.89	NNW	5	g.
China, str.,	19 18	112 14	.82	SW	3	k.
I.M.C.C. Likin,	19 1	110 42	.87	S	1	c.
Pakshan, str.,	16 18	113 31	.86	SSW	4	b.
Sungkiang, str.,	16 15	118 58	.92	WNW	3	cp.
Asloun, str.,	15 55	110 36	...	...	0	k.
Yuensang, str.,	14 22	120 31	.91	W	2	o.
Bisagno, str.,	10 0	109 53	...	SW	1	k.
Fidelio, str.,	5 21	105 47	.92	SSW	1	o.
Chelydra, str.,	5 16	106 56	.91	SW	2	c.
Glenesk, str.,	4 25	106 13	...	var.	3	p.
Serrano, bk.,	2 47	111 12	...	S	1	o.
May 24th.						
Riojun Maru, str.,	38 53	121 52	29.91	SW	3	b.
Triumph, str.,	36 47	130 55	...	WNW	3	k.
Pallas, str.,	30 41	127 29	30.11	SE	2	k.
Omba, str.,	30 9	131 21	.16	E	6	b.
Nanyang, str.,	29 27	122 23	.01	NE	3	c.
Machew, str.,	27 52	121 29	.02	var.	1	omr.
Hohenzollern, str.,	26 50	121 33	29.98	NW	3	ogr.
Empress of Japan, str.,	25 0	119 36	.94	NNE	7	or.
Kweiyang, str.,	24 27	118 27	.90	NE	6	or.
Haitan, str.,	22 56	111 28	.90	ENE	5	omp.
May 24th.						
Marie Berg, bk.,	22° 47′	118° 55′	...	SE	2	o.
Activ, str.,	21 59	113 43	29.86	ENE	6	o.
Zafiro, str.,	21 20	115 ...	.85	SSE	6	or.
Hanoi, str.,	20 10	107 50	...	W	3	ol.
Sungkiang, str.,	19 30	116 30	.91	WNW	4	o.
Memnon, str.,	19 19	114 47	.90	var.	1	c.
Asloun str.,	19 17	112 3	...	NW	2	...
Arratoon Apcar, str.,	18 50	113 34	.90	SW	...	...
I.M.C.C. Likin,	17 55	110 11	.81	W	2	c.
Kaisar-i-Hind, str.,	17 47	113 26	.87	W	3	orq.
Yuensang, str.,	16 17	118 1	.90	NW	2	c.
Pakshan, str.,	13 31	111 53	.86	SSW	4	c.
Bisagno, str.,	13 21	111 58	...	ENE	1	k.
Ernest Simons, str.,	10 33	107 50	.90	SE	2	c.
Fidelio, str.,	9 2	106 54	.94	S	1	o.
Chelydra, str.,	8 44	108 35	.91	SW	2	c.
Glenesk, str.,	7 58	108 31	...	SSW	3	c.
May 25th.						
Triumph, str.,	40 14	131 32	30.04	W	2	k.
Empress of China, str.,	40 10	145 56	.11	WNW	4	b.
Riojun Maru, str.,	38 53	121 52	29.83	SSE	3	o.
Ancona, str.,	35 9	139 41	30.18	var.	1	k.
Omba, str.,	33 10	134 27	.14	NE	3	b.
Empress of Japan, str.,	29 51	122 36½	.78	NE	2	om.
Pallas, str.,	28 10	123 56	.81	SW	3	o.
Kweiyang, str.,	26 47	120 17	.77	var.	1	k.
Choy Sang, str.,	24 35	118 54	.77	var.	3	p.
Hohenzollern, str.,	23 9	117 16	.79	SW	3	k.
Marie Berg, bk.,	22 47	118 55	...	SW	2	opq.
Verona, str.,	22 25	115 7	.84	NW	3	k.
Ask, str.,	20 23	111 9	.82	N	1	g.
Yuensang, str.,	20 16	115 50	.83	...	...	...
I.M.C.C. Likin,	18 12	109 33	.78	NE	2	o.
Zafiro, str.,	17 46	117 37	.87	SSW	5	c.
Bisagno, str.,	16 58	113 44	...	var.	2	k.
Ernest Simons, str.,	15 30	110 31	.81	SE	2	c.
Memnon, str.,	15 28	116 30	.90	SSW	1	c.
Arratoon Apcar, str.,	14 39	112 51	.85	S	...	k.
Chelydra, str.,	12 53	109 35	.80	...	0	c.
Glenesk, str.,	11 29	111 1	...	SW	4	b.
Pakshan, str.,	10 27	110 20	.88	SW	6	q.
Rio, str.,	10 15	107 10	.84	SW	2	k.
Deuteros, str.,	8 22	104 46	.92	SW	4	o.
Chunshan, str.,	4 32	105 36	.91	S	3	k.
May 26th.						
Orono, str.,	41 23	140 32	30.01	SE	2	c.
Riojun Maru, str.,	36 13	124 30	29.85	S	2	b.
Empress of China, str.,	35 15	140 32	.11	SSW	3	c.
Omba, str.,	34 35	139 0	.16	ENE	4	c.
Ancona, str.,	34 17	134 59	.95	NNE	2	or.
Kriemhild, str.,	32 18	133 1	.77	ESE	7	or.
Empress of Japan, str.,	31 21	121 39	.89	var.	2	o.
Natal, str.,	28 0	119 32	.81	NE	1	o.
Pallas, str.,	25 35	120 28	.81	SW	3	k.
Verona, str.,	24 52	119 36	.82	NE	2	o.
Marie Berg, bk.,	23 38	119 0	...	...	0	c.
Kwanglee, str.,	23 17	117 27	.79	W	1	m.
Ernest Simons, str.,	20 57	111 11	.77	SE	1	c.
Bisagno, str.,	20 50	114 19	.76	NNE	2	or.
Frejr, str.,	20 31	111 21	.71	SE	2	b.
I.M.C.C. Likin,	18 40	110 28	.76	WSW	4	c.
Chelydra, str.,	17 7	110 51	.75	S	2	k.
Glenesk, str.,	15 12	112 56	...	SSW	4	b.
Zafiro, str.,	14 25	120 34	.90	SW	3	cp.
Rio, str.,	13 14	109 42	.79	W	2	c.
Strathavon, str.,	11 33	109 9	.77	SE	2	o.
Arratoon Apcar, str.,	11 31	110 51	.88	SW	...	k.
Memnon, str.,	11 30	117 33	.94	WSW	4	orq.
Deuteros, str.,	10 6	107 56	.90	SSW	4	m.
Kaisar-i-Hind, str.,	9 18	109 41	.90	SW	4	k.
Chunshan, str.,	8 35	106 39	.92	W	4	k.
Pakshan, str.,	7 38	108 26	.89	WSW	5	c.
May 27th.						
Orono, str.,	39 16	142 8	29.98	SSE	2	k.
Riojun Maru, str.,	34 1	127 32	.85	...	0	o.
Empress of Japan, str.,	31 36	124 46	.89	NE	2	o.
Kriemhild, str.,	30 57	130 41	.79	E	6	or.
Verona, str.,	28 5	123 31	.86	NE	4	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
May 27th.						
Kwanglee, str.,	26° 31½′	120° 34′	29.83	NE	3	b.
Marie Berg, bk.,	24 29	119 11	...	E	5	or.
Natal, str.,	23 44	115 44	.81	N	1	or.
Pallas, str.,	23 3	117 4	.81	SE	2	m.
Activ, str.,	21 39	113 30	.72	SE	2	m.
Chelydra, str.,	20 47	113 15	.69	SE	3	c.
Glenesk, str.,	19 16	114 10	...	SW	3	b.
I.M.C.C. Likin,	17 54	110 9½	.71	W	4	c.
Rio, str.,	17 13	111 8	.66	SW	1	k.
Strathavon, str.,	15 5	109 21	.68	SW	1	k.
Deuteros, str.,	13 7	110 1	.76	S	3	k.
Arratoon Apcar, str.,	8 31	109 15	.88	SW	...	k.
Memnon, str.,	7 42	116 47	.92	SSW	4	c.
Kaisar-i-Hind, str.,	5 30	107 2	.91	SW	4	c.
Paksban, str.,	4 49	106 35	.89	WSW	6	...
Pekin, str.,	4 10½	106 0	.93	SW	3	k.
May 28th.						
Orono, str.,	36 36	141 8	29.73	E	2	og.
Empress of China, str.,	34 20	135 2	.89	...	0	b.
Riojun Maru, str.,	33 57	130 55	.85	...	0	b.
Verona, str.,	31 17	127 32	.90	NW	2	o.
Nanyang, str.,	31 12	122 53	.96	...	0	og.
Kwanglee, str.,	30 9	122 36½	...	SE	3	o.
Kriemhild, str.,	29 27	126 33	.89	N	3	o.
Marie Berg, bk.,	24 39	119 25	...	NE	8?	orq.
Ernest Simons, str.,	24 17	118 20	.86	NE	4	orq.
Rio, str.,	20 35	113 7	.69	S	1	o.
Activ, str.,	20 12	110 32	.74	NW	5	oq.
Strathavon, str.,	18 11	111 13	...	...	0	k.
I.M.C.C. Likin,	17 44	110 9	.76	NW	2	c.
Deuteros, str.,	16 50	110 54	.74	...	0	k.
Fidelio, str.,	10 18	107 0	.78	NE	2	ortql.
Pekin, str.,	8 13	108 51	.84	NW	4	k.
Arratoon Apcar, str.,	5 38	117 16	.87	SW	...	k.
May 29th.						
Empress of Japan, str.,	34 1	132 45	29.92	var.	1	k.
Riojun Maru, str.,	33 58	130 55	.90	NE	1	b.
Ancona, str.,	33 50	131 30	.78	SE	2	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
May 29th.						
Empress of China, str.,	33° 43′	132° 0′	29.89	...	0	b.
Nanyang, str.,	33 22	127 41	.87	SW	1	c.
Ernest Simons, str.,	28 48	122 10	.90	NE	2	om.
Kriemhild, str.,	27 31	122 33	.81	NE	4	or.
Marie Berg, bk.,	24 28	119 38	...	NNE	4	o.
Frejr, str.,	21 43	113 30	.78	E	2	q.
Strathavon, str.,	20 54	113 12	...	var.	1	or.
Deuteros, str.,	19 54	112 31	.74	W	2	o.
I.M.C.C. Likin,	17 45	110 23	.74	NE	2	o.
Fidelio, str.,	12 58	109 20	...	SW	1	o.
Pekin, str.,	12 13	111 36	.89	SW	4	k.
Arratoon Apcar, str.,	2 58	105 22	.86	SW	...	k.
May 30th.						
Omba, str.,	38 25	141 51	29.96	NE	3	c.
Empress of Japan, str.,	34 13	135 0	.92	SW	4	o.
Verona, str.,	33 48	132 8	.80	ENE	2	o.
Rubens, str.,	31 23	121 36	...	SE	2	o.
Marie Berg, bk.,	24 49	119 34	...	NE	1	c.
Kriemhild, str.,	24 43	119 12	.78	NW	2	ogr.
Sungkiang, str.,	21 19	115 2	.84	SE	4	op.
Ask, str.,	20 18	111 4	.74	SSW	1	k.
I.M.C.C. Likin,	17 53	110 8	.79	SW	2	cp.
Pekin, str.,	16 50	113 42	.87	var.	3	o.
Fidelio, str.,	15 44	109 45	.82	SE	1	o.
May 31st.						
Omba, str.,	41 41	140 58	...	var.	3	o.
Verona, str.,	34 40	135 11	29.87	...	0	k.
Riojun Maru, str.,	34 22	132 27	.87	N	1	b.
Empress of China, str.,	31 33	124 55	.90	NNW	2	b.
Rubens, str.,	28 3	121 38	...	NNE	2	k.
Marie Berg, bk.,	25 8	120 16	..	NNE	var.	opq.
Pekin, str.,	21 46	114 16½	.83	SW	4	o.
Frejr, str.,	21 23	109 3	.81	W	1	q.
Ask, str.,	20 40	107 20	.71	S	2	k.
Activ, str.,	20 6	110 7	.80	var.	1	c.
Fidelio, str.,	18 43	111 41	.84	SW	1	o.
I.M.C.C. Likin,	17 54	110 25	.81	S	1	c.
Sungkiang, str.,	17 47	118 2	.88	S	4	q.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
June 1st.						
Omba, str.,	43° 11′	141° 5′	30.23	E	2	or.
Empress of Japan, str.,	35 30	141 8	29.95	NE	6	k.
Gaelic, str.,	34 59	140 13	.95	NE	3	c.
Verona, str.,	33 59	135 1	.95	N	2	
Marquis of Becqueham, str.,	31 49	132 10	.89	W	3	
Rohilla, str.,	30 43	122 52	.86	SE	3	k.
Tellus, str.,	29 6	124 18	...	SE	1	k.
Ancona, str.,	26 51	122 1	.98	NE	2	k.
Marie Berg, bk.,	25 36	120 28	...	NE	2	o.
Rubens, str.,	24 46	119 18½	...	NNW	4	k.
Sam Skolfield, sh.,	24 25	119 31	.87	NE	6	ofr.
Choysang, str.,	23 20	116 44	.80	E	3	c.
Pallas, str.,	23 19	117 29	.89	ENE	4	o.
Frejr, str.,	21 29	109 5	.78	N	1	b.
Hongkong, str.,	21 27	109 1	.84	SE	...	b.
Fort Stuart, sh.,	20 45	118 35	...	var.	1	og.
Activ, str.,	20 35	111 28	.81	SSE	2	c.
Aurora, bk.,	19 53	114 14	.83	SSW	var.	og.
China, str.,	18 44	111 44	.81	SW	4	oq.
I.M.C.C. Likin,	18 24	110 38	.81	W	1	c.
Donar, str.,	17 44	111 27	.84	S	5	c.
Framnes, str.,	17 3	110 47	...	S	3	c.
Tasmania, bk.,	15 46	113 55	..	S	3	
Sungkiang, str.,	14 23	120 30	.87	S	3	c.
Devawongse, str.,	8 24	104 56	.85	S	3	k.
Pakshan, str.,	6 50	106 14	.86	SW	2	b.
June 2nd.						
Omba, str.,	43 11	141 5	30.28	E	2	or.
Triumph, str.,	43 0	134 9	.04	ENE	6	m.
Empress of Japan, str.,	38 49	147 33	.13	NE	2	k.
Lifoo, str.,	37 48	121 26	29.94	NE	4	
Riojun Maru, str.,	34 22	132 27	30.00	...	0	c.
Nanyang, str.,	33 55	129 40	29.93	SW	2	cm.
Tellus, str.,	32 7	127 14	...	E	2	k.
Oanfa, str.,	29 45	116 0	.63	NNE	4	omr.
Marquis of Becqueham, str.,	29 32	128 10	.87	SE	3	

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
June 2nd.						
Empress of China, str.,	27° 8′	121° 22′	29.81	...	0	b.
Rohilla, str.,	26 39	121 0	.79	S	1	c.
Marie Berg, bk.,	26 7	120 55	...	S	1	o.
Pallas, str.,	26 7	121 25	.84	E	2	k.
Sam Skolfield, sh.,	24 59	120 50	.81	var.	2	ofr.
Ancona, str.,	23 35	117 51	.79	...	0	k.
Lawang, str.,	23 28	117 27	.78	NE	2	ol.
Rubens, str.,	22 28	116 7	.78	var.	1	o.
Sishan, str.,	21 40	116 40	.78	SW	2	o.
Chelydra, str.,	21 36	113 53	.79	SW	4	o.
Bisagno, str.,	21 32	114 21	.79	SW	2	op.
Donar, str.,	21 6	113 30	.77	var.	4	oltr.
Ask, str.,	20 52	106 41	.77	SW	3	o.
Hongkong, str.,	20 52	106 41	.81	NE	2	c.
Aurora, bk.,	20 52	114 2	.81	WSW	2	op.
Fort Stuart, sh.,	20 28	118 38	...	SW	2	op.
Frejr, str.,	20 4	110 20	.81	NE	2	c.
Queen City, sch.,	19 3	124 4	.81	SW	4	orqtl.
I.M.C.C. Likin,	18 15	110 18	.80	SSW	2	c.
Tasmania, bk.,	18 3	114 15		S	2	q.
China, str.,	15 22	110 4	.78	S	3	k.
Sungkiang, str.,	14 35	120 59	.84	...	0	c.
Devawongse, str.,	10 38	108 25	.86	var.	3	k.
Pakshan, str.,	10 24	107 10	.88	var.	1	b.
Machew, str.,	8 29	104 38	.87	SSE	...	k.
June 3rd.						
Triumph, str.,	45 20	137 34	29.84	NE	8	orq.
Omba, str.,	43 11	141 5	30.01	E	2	k.
Lifoo, str.,	34 36	122 37	29.86	NNE	3	b.
Riojun Maru, str.,	34 22	132 27	.71	...	0	o.
Oanfa, str.,	32 12	118 55	.89	E	5	c.
Nanyang, str.,	31 29	126 28	.62	NW	4	ogd.
Pallas, str.,	29 0	126 0	.74	WNW	3	ogr.
Marquis of Becqueham, str.,	27 22	123 46	.65	W	5	...
Marie Berg, bk.,	26 33	121 46	...	NNE	7?	or.
Sam Skolfield, sh.,	26 6	121 32	.75	var.	7	...

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For.	Weather.
			June 3rd.			
			ins.		0-12	
Lawang, str.,	25° 31′	121° 32′	29.74	S	5	op.
Empress of China, str.,	23 24	117 35	.72	SW	3	c.
Rohilla, str.,	23 19	117 28	.70	SSW	4	op.
Fort Stuart, sh.,	21 17	117 9	...	SW	4	op.
Tasmania, bk.,	20 28	114 15	...	W	6	q.
Ask, str.,	20 22	108 38	.78	NE	6	o.
Frejr, str.,	20 4	110 20	...	SW	4	op.
Queen City, sch.,	19 33	122 30	.80	S	2	q.
Sishan, str.,	18 40	114 53	.81	SW	5	oq.
I.M.C.C. Likin,	18 7	109 39	.81	SW	1	c.
Bisagno, str.,	18 6	114 11	.79	SW	4	cp.
Chelydra, str.,	17 32	113 41	.85	SSW	5	c.
Devawongse, str.,	14 37	110 3	.83	SW	3	k.
Sungkiang, str.,	14 35	120 59	.84	...	0	c.
China, str.,	11 48	109 17	.82	SSW	3	k.
Machew, str.,	10 20	108 0	.83	SE	...	k.
			June 4th.			
Triumph, str.,	46 34	138 35	29.66	NE	9	or.
Omba, str.,	43 11	141 5	.75	E	2	k.
Kweiyang, str.,	38 14	120 5	.85	var.	2	k.
Gaelic, str.,	32 52	135 23	.64	SW	2	c.
Choysang, str.,	31 14	121 30	.82	N	2	b.
Nanyang, str.,	28 20	123 9	.85	NNE	3	c.
Lawang, str.,	26 56	124 47	.83	NNE	5	c.
Marie Berg, bk.,	26 41	122 12	...	NNE	4	k.
Sam Skolfield, sh.,	26 8	121 31	.85	NNE	7	...
Marquis of Becqueham, str.,	24 57	119 36	.79	NE	4	...
Velocity, bk.,	22 12	119 20	...	NW	2	c.
Fort Stuart, sh.,	20 53	116 29	...	WSW	4	or.
Frejr, str.,	20 34	111 28	.84	NE	1	p.
Ask, str.,	20 34	111 40	.87	NNE	2	o.
Kong Beng, str.,	20 5	111 5	.77	WNW	3	o.
Queen City, sch.,	19 48	121 32	.80	SW	2	orq.
Devawongse, str.,	18 37	111 33	.87	W	4	o.
I.M.C.C. Likin,	18 12	109 33	.86	ESE	2	c.
Sishan, str.,	15 41	113 24	.88	SW	2	o.
Bisagno, str.,	14 47	112 57	.85	SW	3	o.
Zafiro, str.,	14 40	120 0	.91	NW	2	c.
Sungkiang, str.,	14 35	120 59	.84	W	3	c.
Yuensang, str.,	14 32	120 46	.83	...	0	...
Machew, str.,	13 58	109 57	.88	var.	1	...
Chelydra, str.,	13 44	112 27	.93	SW	3	c.
Propontis, str.,	12 22	109 31	.92	SW	1	k.
			June 5th.			
Triumph, str.,	48 13	140 0	29.81	S	1	k.
Omba, str.,	43 11	141 5	30.06	SW	6	k.
Riojun Maru, str.,	34 22	132 28	29.86	SE	1	b.
Choysang, str.,	31 14	121 30	.91	NE	3	b.
Gaelic, str.,	30 59	130 43	.83	W	2	c.
Lawang, str.,	28 47	128 25	.92	NNE	4	c.
Marie Berg, bk.,	27 32	122 1	...	NE/E	4	k.
Sam Skolfield, sh.,	27 9	121 7	.98	NNE	4	c.
Lyeemoon, str.,	27 0	121 2	.97	NE	4	b.
Oanfa, str.,	26 30	120 48	30.00	ENE	4	c.
Nanyang, str.,	25 22	120 4	29.92	NNE	3	c.
Chi Yuen, str.,	24 27	118 31	.91	NE	4	k.
Java, str.,	23 27	117 31	.85	NE	5	k.
Marquis of Becqueham, str.,	22 27	115 33	.87	NE	2	...
Fort Stuart, sh.,	21 53	115 33	...	NE	3	k.
Velocity, bk.,	21 51	119 57	...	NNE	5	...
Activ, str.,	21 44	113 31	.92	ENE	2	c.
Devawongse, str.,	21 36	113 47	.89	NE	5	o.
Kriemhild, str.,	21 24	113 31	.90	E	3	c.
Deuteros, str.,	19 29	112 19	.88	NE	2	k.
Queen City, sch.,	19 28	120 14	.81	ENE	4	q.
Zafiro, str.,	18 30	117 0	.86	NW	3	cp.
I.M.C.C. Likin,	18 8	110 26	.88	SE	2	o.
Machew, str.,	17 46	111 13	.83	var.	1	...
Propontis, str.,	15 58	110 46	.91	var.	3	orq.
Sungkiang, str.,	14 35	120 59	.82	WNW	1	c.
Sishan, str.,	12 12	111 29	.87	S	1	k.
Bisagno, str.,	11 49	110 54	.83	SW	2	c.
Holstein, str.,	10 18	107 5	.86	SE	2	k.
Chelydra, str.,	10 4	110 15	.89	S	3	c.
			June 6th.			
Omba, str.,	43 11	141 5	30.21	NW	4	o.
Riojun Maru, str.,	34 22	132 28	.07	S	1	b.
Choysang, str.,	31 14	121 30	29.92	E	5	b.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For.	Weather.
			June 6th.			
			ins.		0-12	
Lawang, str.,	30° 58′	132° 17′	30.04	NE	2	c.
Marie Berg, bk.,	28 2	122 21	...	E	1	o.
Sam Skolfield, sh.,	27 38	121 21	29.98	ENE	2	c.
Chi Yuen, str.,	26 57	120 25	.98	NE	3	k.
Java, str.,	25 50	120 10	.89	NNE	5	k.
Lyeemoon, str.,	23 29	117 42	.91	NE	5	c.
Oanfa, str.,	22 40	117 9	.92	NE	4	c.
Velocity, bk.,	21 17	120 8	...	var.	1	...
Machew, str.,	20 57	112 53	.91	ENE	5	...
Hongkong, str.,	20 28	110 11	.88	ESE	...	c.
Activ, str.,	20 10	110 20	.89	E	4	cp.
Propontis, str.,	19 24	112 29	.90	var.	5	o.
Kong Beng, str.,	18 32	107 45	.85	S	3	op.
Queen City, sch.,	18 16	118 59	.81	...	0	orqtl.
Kriemhild, str.,	17 58	111 31	.85	NE	2	c.
I.M.C.C. Likin,	17 46	110 13	.87	var.	1	o.
Progress, str.,	17 13	109 16	...	N	1	o.
Deuteros, str.,	16 10	110 26	.84	NE	3	o.
Picciola, str.,	15 8	110 12	.89	N	2	c.
Sungkiang, str.,	14 35	120 58	.78	SSE	2	c.
Helene Rickmers, str.,	12 11	109 34	.84	N	2	k.
Holstein, str.,	11 38	109 15	...	SE	1	...
Loosok, str.,	10 33	102 33	.85	S	2	k.
Sishan, str.,	8 49	109 34	.86	...	0	k.
Memnon, str.,	8 33	119 6	.86	E	1	c.
Bisagno, str.,	8 20	108 54	.81	SE	1	k.
Chelydra, str.,	6 36	107 43	.87	...	0	k.
Benledi, str.,	3 50	105 20	.87	NE	2	k.
Shantung, str.,	1 0	108 26	.83	var.	1	k.
			June 7th.			
Omba, str.,	41 7	140 30	30.22	SW	var.	f.
Riojun Maru, str.,	34 22	132 28	.08	SW	1	b.
Glenogle, str.,	33 32	136 7	.14	...	0	c.
Chi Yuen str.,	30 12	122 36	29.90	var.	1	o.
Gaelic, str.,	29 58	126 5	.87	E	2	op.
Java, str.,	29 48	122 35	...	var.	2	m.
Marie Berg, bk.,	29 27	123 0	...	SE	2	o.
Sam Skolfield, sh.,	27 33	121 29	.87	var.	1	c.
Hohenzollern, str.,	24 2	118 32	.85	NNE	3	o.
Velocity, bk.,	22 9	121 25	...	SE	2	...
Frejr, str.,	21 50	113 38	.88	E	3	p.
Activ, str.,	21 29	109 5	.90	NE	5	o.
Hongkong, str.,	21 25	112 12	.88	E	...	k.
Progress, str.,	19 39	111 50	...	W	1	o.
Oanfa, str.,	18 16	114 21	.87	SSE	3	c.
Picciola, str.,	18 7	111 0	.88	NE	2	k.
Rohilla, str.,	17 43	113 26	.84	S	1	k.
I.M.C.C. Likin,	17 24	110 2	.85	S	2	c.
Helene Rickmers, str.,	16 0	110 39	.86	N	1	k.
Holstein, str.,	15 7	110 20	.86	...	0	q.
Kong Beng, str.,	14 45	109 51	.85	SSE	2	k.
Kriemhild, str.,	14 39	109 58	.85	...	0	c.
Sungkiang, str.,	14 35	120 59	.83	WNW	3	c.
Deuteros, str.,	12 35	109 29	.86	SW	1	k.
Memnon, str.,	12 16	119 27	.86	var.	1	c.
Pakshan, str.,	11 46	109 15	.86	var.	1	b.
Loosok, str.,	8 31	105 24	.84	...	0	k.
Benledi, str.,	7 32	107 30	.82	E	2	k.
Sishan, str.,	5 29	107 24	.85	ESE	1	k.
Bisagno, str.,	5 6	106 50	.81	NE	1	k.
Shantung, str.,	4 34	108 52	.83	NNE	2	k.
Kutsang, str.,	3 54	105 44	.83	NNE	3	b.
Glenartney, str.,	3 30	105 33	.82	N	1	k.
			June 8th.			
Omba, str.,	38 51	141 54	30.26	S	2	m.
Lifoo, str.,	36 0	122 46	29.86	NE	3	om.
Kweiyang, str.	35 38	122 52	.72	var.	1	o.
Verona, str.,	35 12	139 43	30.05	SW	3	or.
Riojun Maru, str.,	34 22	132 28	29.84	S	1	c.
Brindisi, str.,	32 57	128 4	.87	SE	3	c.
Tellus, str.,	32 41	127 25	...	SW	2	k.
Pallas, str.,	32 4	129 12	.95	SW	2	o.
Afghan, str.,	31 54	125 47	...	SW	4	o.
Peiyang, str.,	31 15	121 43	.87	NW	3	c.
Sam Skolfield, sh.,	28 0	122 4	.89	var.	1	c.
Hohenzollern, str.,	26 51	123 29	.91	...	0	op.
Gaelic, str.,	26 47	121 54	.84	...	0	o.
Fram, str.,	26 28	120 59	.94	...	0	m.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 8th.						
Choysang, str.,	24° 44′	119° 10′	29.89	var.	1	o.
Prinz Heinrich, str.,	24 28	119 9	.94	...	0	o.
Ancona, str.,	24 0	118 6	.89	...	0	c.
Velocity, bk.,	23 32	122 53	...	SE	2	m.
Teyi, str.,	22 38	115 42	.91	ENE	1	k.
Ask, str.,	21 55	113 45	.94	SE	3	o.
Amigo, str.,	21 ...	113 30	.90	E	3	k.
Picciola, str.,	20 5	112 43	.87	SE	4	or.
Frejr, str.,	20 4	110 20	.88	SE	2	c.
Framnes, str.,	19 35	112 6	.87	S	3	q.
Helene Rickmers, str.,	19 8	112 17	.86	NE	1	k.
John Baizley, bk.,	18 56	178 27	30.12	ENE	...	k.
Donar, str,	18 53	111 40	29.86	S	3	b.
Holstein, str.,	18 7	111 39	.84	E	2	k.
Queen City, sch.,	17 13	118 32	.84	NE	1	...
I.M.C.C. Likin,	17 8	110 0	.86	SE	2	c.
Memnon, str.,	15 51	117 51	.88	NE	3	c.
Pakshan, str.,	15 6	110 20	.88	ENE	1	b.
Sungkiang, str.,	14 35	120 59	.81	W	1	c.
Oanfa, str.,	14 12	112 24	.87	E	2	c.
Rohilla, str.,	13 24	111 44	.86	NE	1	k.
Benledi, str.,	11 23	109 31	.89	NE	4	k.
Loosok, str.,	11 2	108 41	.88	E	2	k.
Kong Beng, str.,	10 54	108 41	.85	var.	2	k.
Shanghai, str.,	10 44	108 57	.85	WNW	2	c.
Chowfa, str.,	9 4	103 42	...	var.	1	k.
Shantung, str.,	8 4	109 50	.80	NNE	2	k.
Kutsang, str.,	7 22	108 1	.86	NNE	3	b.
Glenartney, str.,	6 57	108 1	.86	NNE	3	b.
Sishan, str.,	2 20	104 50	.85	WSW	1	p.
Bisagno, str.,	1 53	104 45	.81	var.	2	k.
June 9th.						
Lifoo, str.,	38 19	120 8	29.87	SW	2	ortl.
Omba, str.,	35 41	140 54	30 09	var.	...	m.
Glenogle, str.,	34 3	132 43	29.99	...	0	...
Verona, str.,	33 54	135 3	30.00	NW	2	k.
Kweiyang, str.,	31 49	123 0	29.93	SSE	4	k.
Tellus, str.,	30 19	124 34	...	W	2	m.
Brindisi, str.,	29 59	124 42	.99	...	0	cm.
Pallas, str.,	29 28	125 42	.98	...	0	m.
Prinz Heinrich, str.,	29 17	122 32	.96	S	2	c.
Hohenzollern, str.,	29 15	128 40	.99	...	0	k.
Fram, str.,	29 9	123 6	30.00	ESE	2	c.
Sam Skolfield sh.,	28 45	122 46	29.97	SW	2	of.
Peiyang, str.,	27 31	121 28	.97	S	1	c.
Ancona, str.,	26 47	122 17	.91	ENE	2	k.
Teyi, str.,	24 21	118 50	.99	NE	4	k.
Velocity, bk.,	24 8	123 38	...	ESE	1	...
Gaelic, str.,	23 49	117 59	.91	var.	2	c.
Frejr, str.,	21 29	109 6	.94	var.	3	or.
Holstein, str.,	21 4	113 26	.89	NE	4	oq.
Activ, str.,	20 40	109 27	.93	var.	5	or.
Ask, str.,	20 9	110 16	.89	NNW	1	c.
Zafiro, str.,	20 6	115 59	.91	E	2	c.
Memnon, str.,	19 24	115 56	.91	NE	4	c.
John Baizley, bk.,	19 12	176 25	30.08	ENE	...	orq.
Shanghai, str.,	18 56	113 45	29.92	E	3	k.
Pakshan, str.,	18 36	111 58	.88	ENE	3	b.
I.M.C.C. Likin,	18 12	109 33	.89	var.	1	c.
Amigo, str.,	18 8	111 9	.87	SE	3	k.
Framnes, str.,	15 52	110 33	.85	NE	1	c.
Queen City, sch.,	15 49	117 17	.84	NNE	5	o.
Benledi, str.,	15 30	110 25	.88	...	0	k.
Donar, str.,	15 3	110 0	.87	...	0	k.
Loosok, str.,	14 39	110 23	.89	NE	2	k.
Sungkiang, str.,	14 35	120 59	.82	ESE	5	or.
Norden, str.,	11 28	109 17	.82	NNE	3	k.
Shantung, str.,	11 19	111 10	.83	N	4	oqlt.
Kutsang, str.,	10 59	110 6	.85	NNE	3	o.
Glenartney, str.,	10 38	110 37	.82	NNE	4	op.
Oanfa, str.,	10 27	110 11	.84	NW	2	c.
Chowfa, str.,	9 34	107 11	...	...	0	k.
Rohilla, str.,	9 16	109 1	.84	var.	1	c.
Kong Beng, str.,	8 22	105 12	.86	SW	2	k.
Kriemhild, str.,	7 20	107 12	.84	W	2	cgr.
June 10th.						
Omba, str.,	35 25	139 39	30.10	E	1	c.
Verona, str.,	34 40	135 11	29.99	...	0	k.
June 10th.						
Hohenzollern, str.,	32° 18′	133° 49′	30.00	SW	2	o.
Fram, str.,	31 55	125 30	.00	SE	2	f.
Glenogle, str.,	31 43	125 22	29.98	SW	3	c.
Sam Skolfield, sh.,	30 4	123 2	.91	SSW	2	of.
Ancona, str.,	29 56	126 15	30.00	var.	1	or.
Kweiyang, str.,	28 7	121 57	29.92	SSW	2	o.
Tellus, str.,	27 34	122 4	...	S	5	or.
Teyi, str.,	27 5	121 15	.97	NE	2	op.
Brindisi, str.,	26 55	121 46	.93	var.	2	op.
Pallas, str.,	26 44	121 52	.92	S	3	k.
Velocity, bk.,	24 17	124 38	...	SE	1	k.
Peiyang, str.,	24 16	118 43	.96	N	2	c.
Pakshan, str.,	21 43	113 47	.88	NE	6	cp.
Frejr, str.,	21 29	109 5	.85	ESE	3	c.
Ask, str.,	20 52	106 41	.82	SW	2	o.
Activ, str.,	20 4	110 20	.87	ENE	5	c.
John Baizley, bk.,	19 16	174 15	30.08	NE	...	k.
Benledi, str.,	19 1	112 0	29.88	NE	5	o.
Loosok, str.,	18 0	111 37	.82	NNE	4	k.
Zafiro, str.,	16 41	118 ...	.85	SE	6	c.
Shanghai, str.,	14 47	112 29	.66	N E	6	or.
Norden, str.,	14 43	109 36	.73	N/W	5	cp.
Queen City, sch.,	14 43	116 16½	.71	ESE	8	orq.
Sunkiang, str.,	14 35	120 59	.83	SSE	4	c.
Shantung, str.,	14 26	112 36	.59	NW N	7	orq.
Kutsang, str.,	14 22	112 16	.64	N/W	6	omgr.
Glenartney, str.,	14 11	112 12	.63	NNW	6	o.
Amigo, str.,	14 8	109 44	.77	N	5	o.
Chowfa, str.,	12 38	109 30	...	N	4	...
Framnes, str.,	11 56	109 16	.75	NE	2	c.
Donar, str,	11 7	108 44	.77	SW	5	c.
Kong Beng, str.,	10 50	102 0	.81	NW/W	2	k.
Oanfa, str.,	6 54	107 45	.80	SW	3	c.
Rohilla, str.,	5 16	106 35	.82	SW	2	c.
Kriemhild, str.,	3 42	105 18	.77	SSW	2	c.
June 11th.						
Omba, str.,	35 26	139 39	30.07	S	2	o.
Hohenzollern, str.,	34 48	139 18	29.99	...	0	o.
Verona, str.,	34 40	135 11	30.00	...	0	o.
Ancona, str.,	34 40	135 11	29.97	SW	2	k.
Fram, str.,	34 29	127 29	.98	SE	1	m.
Riojun Maru, str.,	33 57	130 55	.97	NE	2	c.
Teyi, str.,	30 14	122 50	.95	...	0	k.
Velocity, bk.,	25 29	126 59	...	SE	1	k.
Kweiyang, str.,	24 56	119 32	.88	var.	1	k.
Brindisi, str.,	24 6	118 28	.94	NNE	2	o.
Pallas, str.,	23 57	118 34	.92	NNE	2	o.
Peiyang, str.,	22 18	114 48	...	ENE	4	eq.
Strathavon, str.,	21 25	113 42	.87	NE	3	o.
Loosok, str.,	20 53	113 13	.83	ENE	6	o.
Frejr, str.,	20 52	106 41	.81	E	4	p.
Activ, str.,	20 18	110 59	.78	ENE	7	op.
John Baizley, bk.,	19 41	172 20	30.06	ENE	...	p.
I.M.C.C. Likin,	18 12	109 33	29.60	NE	8	ogrq.
Norden, str.,	17 43	108 19	.52	N	8	p.
Sungkiang, str.,	16 14	118 55	.84	SW	2	c.
Erato, str.,	15 47	110 47	.41	SSW	11	...
Shantung, str.,	15 19	113 0	.71	SE E	4	...
Glenartney, str.,	15 16	113 29	...	SE	6	k.
Kutsang, str.,	15 13	113 34	.75	ESE	5	og.
Chowfa, str.,	14 3	109 33	...	SW	4	...
Queen City, sch.,	13 51	115 39	.81	SE	5	orq.
Shanghai, str.,	11 2	110 15	.74	SW S	6	oq.
Donar, str.,	8 39	105 53	.76	SW	5	o.
Lord Brassey, bk.,	5 39	107 13	...	SW	4	k.
Khedive, str.,	4 5	105 34	.81	S	3	c
Oanfa, str.,	3 21	105 11	.77	SW	1	eq.
June 12th.						
Lifoo, str.,	38 29	119 15	29.87	SE	1	o.
Fram, str.,	37 18	129 27	.90	S	1	c.
Verona, str.,	33 58	130 58	.93	E	2	c.
Ancona, str.,	33 56	130 51	.88	ESE	2	o.
Riojun Maru, str.,	33 56	127 8	.91	SW	4	f.
Teyi, str.,	33 50	122 59	.93	ESE	4	...
Glenesk, str.,	32 22	125 16	...	SE	2	...
Kwanglee, str.,	28 20	121 51	.89	SSW	2	or.
Velocity, bk.,	25 57	128 22	...	SE	1	k.
Nanyang, str.,	23 40	117 58	.89	NE	1	c.

JUNE, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 12th.						
Maria Valeria, str.,	22° 21′	114° 29′	29.88	NE	5	o.
Brindisi, str.,	22 13	114 24	.89	ENE	5	om.
Activ, str.,	21 32	113 0	.86	ESE	6	o.
Mongkut, str.,	21 6	114 54	.87	E	5	o.
Ask, str.,	20 52	106 41	.43	W	6	o.
Frejr, str.,	20 52	106 41	.67	NNW	6	or.
Glenartney, str.,	19 39	114 5	.82	SE	5	oq.
Kutsang, str.,	19 38	114 4	.85	E	4	b.
Sungkiang, str.,	19 37	116 28	.86	ENE	3	c.
John Baizley, bk.,	19 28	170 10	30.06	E	4	orq.
Strathavon, str.,	19 16	111 53	29.86	SE	6	k.
Shantung, str.,	18 54	113 40	.83	SE	4	...
I.M.C.C. Likin,	18 12	109 33	.72	SE	4	orq.
Norden, str.,	17 46	108 17	.61	SSW	6	q.
Erato, str.,	17 41	110 35	.72	SE	6	o.
Chowfa, str.,	17 31	111 30	...	SE	5	o.
Queen City, sch.,	12 48	115 31	.80	S	2	og.
Donar, str.,	10 12	102 29	...	NW	4	c.
Khedive, str.,	8 5	107 58	.82	SSE	4	c.
Shanghai, str.,	7 37	108 9	.82	SSW	5	cq.
Lord Brassey, bk.,	7 32	108 7	...	S	4	op.
Sishan, str.,	4 2	105 33	.80	SW	3	o.
June 13th.						
Fram, str.,	40 39	131 25	29.78	...	0	f.
Teyi, str.,	37 25	122 55	.89	...	0	k.
Lifoo, str.,	36 30	122 44	.90	SSE	4	or.
Riojun Maru, str.,	35 18	123 50	.87	SE	1	f.
Ancona, str.,	34 40	135 11	.89	S	4	k.
Glenesk, str.,	34 3	130 12	...	var.	2	k.
Bogstad, str.,	31 59	127 22	.92	SW	2	f.
Afghan, str.,	31 18	125 7	.85	SSE	2	f.
Chi Yuen, str.,	30 24	122 26	.90	SSE	2	fp.
Nanyang, str.,	26 59	120 44	.87	NW	1	c.
Velocity, bk.,	26 41	130 12	...	SSE	4	k.
Kwanglee, str.,	24 37	119 7	.89	...	0	b.
Maria Valeria, str.,	24 10	118 44	.92	NE	1	o.
Lyeemoon, str.,	23 27	117 15	.91	NE	2	c.
Changsha, str.,	22 29	115 17	.86	E	5	o.
Progress, str.,	21 44	113 38	...	SE	5	o.
Frejr, str.,	20 52	106 41	.77	SSW	2	p.
Erato, str.,	20 29	113 4	.82	SE	4	c.
Norden, str.,	20 20	107 2	.72	SW	4	o.
Picciola, str.,	20 16	112 20	.84	S	5	k.
John Baizley, bk.,	19 15	168 22	30.04	ENE	4	p.
Devawongse, str.,	19 14	111 52	29.84	S	5	k.
Mongkut, str.,	18 34	112 12	.82	S	6	o.
I.M.C.C. Likin,	18 8	109 39	.84	SSE	2	c.
Strathavon, str.,	16 39	110 45	.91	...	4	k.
Yuensang, str.,	14 46	120 1	.81	ENE	2	b.
Queen City, sch.,	12 19	112 44	.84	...	0	b.
Khedive, str.,	12 0	110 50	.83	SSE	2	k.
Lord Brassey, bk.,	8 58	109 11	...	S	4	k.
Sishan, str.,	7 45	106 46	.81	SE	1	or.
Shanghai, str.,	4 15	106 7	.84	S	3	cpq.
June 14th.						
Triumph, str.,	48 27	140 22	29.94	SE	2	of.
Riojun Maru, str.,	38 6	122 19	.77	ENE	2	c.
Omba, str.,	36 31	141 8	.80	NE	5	m.
Hohenzollern, str.,	34 58	139 28	.82	...	0	f.
Ancona, str.,	34 40	135 11	.74	SW	2	or.
Glenesk, str.,	34 37	135 4	...	E	2	...
Lifoo, str.,	32 43	122 36	.77	SE	1	c.
Afghan, str.,	32 17	127 54	.76	W	2	k.
Nanyang, str.,	30 29	122 32	.76	SW	2	c.
Verona, str.,	30 15	126 24	.83	SW	3	orq.
Bogstad, str.,	29 3	124 37	.85	SSW	1	o.
Maria Valeria, str.,	27 34	121 33	.84	NNE	3	or.
Velocity, bk.,	27 33	132 18	...	SSE	2	og.
Chi Yuen, str.,	27 26	121 7	.90	NE	1	or.
Lyeemoon, str.,	26 35	120 35	.83	NE	5	or.
Changsha, str.,	25 0	119 32	.80	ESE	2	o.
Herman Wedell Jarlsberg, str.,	24 23	119 18	.81	SE	4	c.
Kwanglee, str.,	22 25	115 4	.77	SW	3	b.
Namoa, str.,	22 24	114 39	.82	S	2	k.
Chunshan, str.,	21 56	116 52	.82	S	4	k.
Ask, str.,	20 17	109 13	.71	E	2	k.
Frejr, str.,	20 8	109 55	.76	S	2	b.
I.M.C.C. Likin,	20 4	110 20	.78	SW	2	c.
June 14th.						
John Baizley, bk.,	19° 48′	166° 19′	30.06	ENE	4	k.
Progress, str.,	19 14	111 18	...	SSW	5	o.
Yuensang, str.,	18 16	117 22	29.80	...	0	b.
Picciola, str.,	17 8	111 2	.83	S	3	k.
Khedive, str.,	15 34	113 5	.83	SSE	2	k.
Devawongse, str.,	15 27	110 26	.80	S	3	k.
Mongkut, str.,	15 9	110 18	.80	S	3	k.
Strathavon, str.,	13 29	110 0	.87	SSE	2	k.
Queen City, sch.,	12 15	112 39	.82	...	0	b.
Lord Brassey, bk.,	10 10	110 5	...	SW	4	k.
Ceylon, str.,	4 15	105 55	.84	SSW	3	or.
Catherine Apcar, str.,	4 5	105 42	.79	W	2	or.
June 15th.						
Triumph, str.,	45 43	137 56	29.89	SSW	2	k.
Omba, str.,	40 15	141 57	.84	E	4	c.
Riojun Maru, str.,	38 53	121 52	.76	...	0	b.
Ancona, str.,	34 16	138 18	.68	SW	2	k.
Afghan, str.,	32 45	129 50	.81	...	...	k.
Maria Valeria, str.,	31 22	121 37	.68	SE	2	c.
Lyeemoon, str.,	30 37	122 26	.68	...	0	f.
Chi Yuen, str.,	29 37	118 39	.79	SSW	3	k.
Velocity, bk.,	28 33	133 56	...	NW	1	...
Herman Wedell Jarlsberg, str.,	27 19	123 3	.69	SE	4	or.
Verona, str.,	27 13	122 33	.68	SW	5	orq.
Bogstad, str.,	26 43	121 26	.70	SW	5	k.
Namoa, str.,	23 20	116 44	.69	...	0	k.
Yuensang, str.,	21 44	114 42	.77	...	...	...
Activ, str.,	21 44	113 33	.79	SW	3	c.
Gartha, bk.,	20 56	115 9	.76	SW	4	k.
Machew, str.,	20 44	114 37	...	SW	2	k.
Frejr, str.,	20 4	110 20	.71	...	0	b.
Ask, str.,	20 4	110 20	.67	S	2	o.
John Baizley, bk.,	19 45	163 51	30.06	ENE	4	k.
Memnon, str.,	19 32	115 21	29.76	SSW	2	c.
Khedive, str.,	19 17	113 42	.80	SW	2	k.
Chunshan, str.,	18 38	114 52	.78	SW	3	k.
Progress, str.,	16 47	108 41	...	S	2	o.
Picciola, str.,	13 47	110 2	.78	S	3	k.
Deuteros, str.,	12 20	109 28	.74	...	0	k.
Queen City, sch.,	12 11	112 32	.82	...	0	b.
Devawongse, str.,	11 40	109 15	.76	S	2	k.
Lord Brassey, bk.,	11 27	111 0	...	SW	...	o.
Strathavon, str.,	10 37	108 16	.86	SW	5	orq.
Ceylon, str.,	8 17	108 46	.81	var.	2	cp.
Catherine Apcar, str.,	7 55	108 14	.77	WSW	2	o.
Cromarty, str.,	6 59	109 20	...	W	4	o.
June 16th.						
Triumph, str.,	43 7	134 31	29.89	S	2	k.
Omba, str.,	42 30	139 45	.84	NNW	4	ofr.
Riojun Maru, str.,	38 53	121 52	.73	ENE	2	or.
Ancona, str.,	35 25	139 39	.66	SE	3	k.
Fooksang, str.,	30 48	122 10	.71	ESE	6	o.
Herman Wedell Jarlsberg, str.,	30 43	126 46	.64	E	4	f.
Velocity, bk.,	29 58	137 2	...	var.	var.	orqtl.
Bogstad, str.,	24 40	119 17	.76	SW	5	k.
Verona, str.,	24 17	118 42	.76	SW	4	k.
Pallas, str.,	23 32	117 52	.80	S	2	k.
Frejr, str.,	21 40	113 19	.80	S	1	b.
Esmeralda str.,	21 28	118 56	.82	SW	2	k.
Sungkiang, str.,	20 52	115 30	.76	SSE	3	c.
Ask, str.,	20 43	111 42	.73	SE	3	k.
Gartha, bk.,	20 33	115 4	.76	SSW	2	k.
Activ, str.,	20 12	110 54	.76	S	3	c.
John Baizley, bk.,	19 39	161 42	30.04	NE/E	4	orq.
Machew, str.,	17 43	111 25	...	SW	2	k.
Zafiro, str.,	16 34	118 39	29.80	S	4	c.
Deuteros, str.,	15 56	110 15	.74	SSE	3	k.
Memnon, str.,	15 29	116 25	.77	S	3	c.
Chunshan, str.,	15 18	112 33	.76	SW	3	k.
Ceylon, str.,	12 31	111 32	.75	NNE	1	cv.
Lord Brassey, bk.,	12 27	111 40	...	ESE	2	...
Catherine Apcar, str.,	12 0	110 56	.75	NE	3	o.
Queen City, sch.,	11 44	111 59	.81	...	0	b.
Picciola, str.,	10 56	108 26	.79	...	...	...
Cromarty, str.,	10 39	110 55	...	WSW	6	o.
Devawongse, str.,	9 4	106 56	.79	SW	5	orq.
Kitty, bk.,	8 17	106 2	...	SSE	4	orq.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 17th.						
Riojun, Maru, str.,	36° 56′	122° 54′	29.77	SSE	3	c.
Ancona, str.,	35 26	139 39	.78	E	3	k.
Glenfarg, str.,	32 0	126 45	.77	E	2	b.
Velocity, bk.,	30 13	136 38	...	ENE	2	k.
Fooksang, str.,	27 20	121 22	.74	SW	6	c.
Pallas, str.,	26 35	122 21	.82	S	3	k.
Verona, str.,	22 15	114 33	.82	S	2	k.
Activ, str.,	21 29	109 5	.76	W	2	oq.
John Baizley, bk.,	20 2	159 16	30.02	ENE	4	orq.
Zafiro, str.,	20 ...	116 ...	29.83	S	1	c.
Gartha, bk.,	19 50	113 47	.68	S	2	orq.
Deuteros, str.,	19 4	112 0	.79	SSE	4	k.
Holstein, str.,	18 50	111 56	.78	S	3	q.
Esmeralda, str.,	17 34	119 33	.78	S	1	k.
Sungkiang, str.,	17 28	118 23	.83	SSE	3	c.
Ceylon, str.,	17 4	113 27	.78	SE	3	cv.
Catherine Apcar, str.,	15 56	113 3	.79	ESE	3	k.
Cromarty, str.,	14 19	112 30	...	ESE	4	k.
Wuotan, str.,	14 ...	110 6	...	SW	1	c.
Lord Brassey, bk.,	13 40	112 27	...	S	2	k.
China, str.,	12 44	109 34	.75	NE	1	k.
Chunshan, str.,	12 27	109 45	.74	SW	4	k.
Memnon, str.,	11 25	117 46	.79	SW	4	or.
Queen City, sch.,	10 54	112 20	.82	SW	5	b.
Devawongse, str.,	9 7	103 38	.82	SW	4	or.
Mongkut, str.,	9 5	103 34	.77	WSW	3	p.
Kitty, bk.,	8 53	107 59	...	SW	5	oq.
Menmuir, str.,	2 43	124 38	.80	NW	4	o.
June 18th.						
Omba, str.,	43 11	141 5	29.79	ENE	3	k.
Ancona, str.,	35 26	139 39	.86	SE	4	k.
Riojun Maru, str.,	34 0	123 13	.54	SSW	3	o.
Hohenzollern, str.,	33 58	130 53	.75	SE	4	orq.
Sikh, str.,	33 32	129 26	.77	S	6	...
Velocity, bk.,	31 13	138 10	...	SSW	5	o.
Glenogle, str.,	30 40	122 22	.62	SW	3	c.
Glenfarg, str.,	30 34	122 25	.58	SW	3	b.
Pallas, str.,	29 43	126 40	.76	S	3	k.
Fooksang, str.,	24 49	119 20	.82	SSW	6	c.
Rubens, str.,	23 32	117 49	...	S	2	k.
Khedive, str.,	22 28	115 27	.92	ESE	3	o.
Ceylon, str.,	22 9	114 5	.86	var.	2	c.
Activ, str.,	21 29	109 5	.82	SE	2	o.
Amigo, str.,	21 0	107 5	.76	var.	1	...
John Baizley, bk.,	20 12	157 16	30.06	ENE	4	orq.
Catherine Apcar, str.,	20 10	113 49	29.84	SSE	2	k.
Brindisi, str.,	19 3	112 20	.84	S	2	c.
Gartha, bk.,	18 22	111 31	.80	SSE	4	k.
Cromarty, str.,	18 18	113 41	...	SE	1	k.
Wuotan, str.,	17 46	111 ...	.81	E	2	c.
China, str.,	16 37	110 33	.82	E	2	k.
Holstein, str.,	15 38	109 57	.81	S	2	...
Lord Brassey, bk.,	15 12	113 16	...	SSW	2	k.
Esmeralda, str.,	14 36	120 57	...	NE	4	k.
Sungkiang, str.,	14 36	120 57	.88	E	2	c.
Mongkut, str.,	12 26	100 1	...	SW	2	b.
Machew, str.,	10 47	108 31	...	SW	2	k.
Queen City, sch.,	10 5	111 45	.92	SW	2	c.
Kitty, bk.,	9 33	109 5	...	NW	2	oq.
Chunshan, str.,	9 31	107 28	.87	SW	4	k.
Memnon, str.,	7 54	116 44	.85	SE	1	o.
Menmuir, str.,	6 9	122 31	.84	var.	4	op.
June 19th.						
Omba, str.,	43 11	141 5	29.56	SE	6	opq.
Ancona, str.,	35 25	139 39	.58	SSW	6	or.
Siam, str.,	34 35	135 10	.56	SSW	5	or.
Glenesk, str.,	34 6	138 ...	...	S	4	m.
Velocity, bk.,	33 1	141 50	...	WSW	6	...
Pallas, str.,	32 36	130 11	.72	S	3	k.
Maria Valeria, str.,	31 14	121 51	.68	NW	4	o.
Lifoo, str.,	31 8	122 1	.73	NW	3	...
Riojun Maru, str.,	31 0	123 18	.71	WNW	1	c.
Sikh, str.,	30 48	126 5	.69	SW	6	...
Java, str.,	30 15	122 36	.68	SSW	2	m.
Glenogle, str.,	27 20	121 18	.78	SW	5	m.
Rubens, str.,	26 30	121 28	...	S	6	k.
Khedive, str.,	25 26	120 0	.91	S	3	k.
Gaelic, str.,	23 45	118 6	.79	SW	2	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 19th.						
Frejr, str.,	21° 50′	113° 39′	29.88	SSW	3	b.
Wuotan, str.,	21 ...	113 ...	...	S	1	b.
John Baizley, bk.,	20 40	155 32	30.06	ENE	3	k.
Activ, str.,	20 4	110 20	29.83	var.	2	c.
China, str.,	19 49	112 40	.85	SSE	2	k.
Loosok, str.,	19 42	112 41	.90	SSE	2	k.
Kutsang, str.,	19 13	113 51	.90	S	3	b.
Gartha, bk.,	17 21	109 51	.78	S/E	2	k.
Lord Brassey, bk.,	16 48	113 46	...	S	1	...
Amigo, str.,	16 32	110 19	.82	ENE	4	...
Brindisi, str.,	15 26	110 32	.84	S	1	b.
Sungkiang, str.,	14 36	120 57	.90	WNW	1	c.
Framnes, str.,	12 29	109 20	.85	S	2	k.
Holstein, str.,	12 20	109 20	...	S	1	...
Sishan, str.,	12 4	109 21	.86	SW	2	o.
Kitty, bk.,	10 31	110 15	...	SW	4	o.
Menmuir, str.,	10 12	121 33	.84	NW	3	c.
Queen City, sch.,	9 55	111 49	.92	W	3	o.
Kong Beng, str.,	8 33	105 46	.89	SE	2	k.
Machew, str.,	8 28	105 17	...	...	0	k.
Chunshan, str.,	5 50	106 13	.92	S	4	k.
June 20th.						
Omba, str.,	43 11	141 5	29.48	WNW	var.	k.
Teyi, str.,	38 15	120 0	.81	ESE	3	k.
Ancona, str.,	35 26	139 39	.58	SW	3	k.
Lawang, str.,	33 34	134 31	.82	WSW	2	ogr.
Velocity, bk.,	33 10	143 8	...	SE	1	or.
Maria Valeria, str.,	32 32	126 24	.80	N	2	or.
Siam, str.,	31 12	133 0	.66	SW	5	or.
Hohenzollern, str.,	31 1	127 29	.77	W	2	o.
Rubens, str.,	29 40	124 51	...	NE	1	m.
Khedive, str.,	29 21	112 15	.75	SW	3	f.
Lifoo, str.,	28 28	122 15	.74	SSW	4	om.
Riojun Maru, str.,	28 7	122 53	.79	SSW	4	o.
Sikh, str.,	27 35	122 55	.80	SW	5	k.
Gaelic, str.,	27 30	122 54	.73	SSW	3	c.
Java, str.,	26 43	120 41	.77	SW	4	m.
Prinz Heinrich, str.,	26 36	121 39	.77	SSW	4	c.
Namoa, str.,	25 26	120 0	.75	SSW	2	k.
John Baizley, bk.,	20 52	154 4	30.06	ESE	3	opq.
Activ, str.,	20 31	111 20	29.86	SSE	3	k.
Ask, str.,	20 22	111 11	.87	S	3	o.
Frejr, str.,	20 10	110 42	.78	S	4	b.
Amigo, str.,	19 45	112 17	.87	SSE	4	...
Lord Brassey, bk.,	18 11	114 8	...	WSW	2	...
Gartha, bk.,	17 12	109 58	.80	S	1	k.
Loosok, str.,	16 19	110 54	.77	SE	2	k.
Framnes, str.,	16 2	110 46	.84	SE	1	b.
Kutsang, str.,	15 34	113 7	.85	S	3	c.
Sishan, str.,	15 33	110 46	.85	E	1	k.
Sungkiang, str.,	14 36	120 57	.87	SE	2	c.
Menmuir, str.,	14 10	119 43	.80	var.	3	c.
Kitty, bk.,	11 58	111 11	...	SW	2	or.
Brindisi, str.,	11 38	109 16	.84	S	1	c.
Kong Beng, str.,	11 11	108 58	.82	...	0	k.
Machew, str.,	11 0	101 58	...	W	2	p.
Holstein, str.,	10 19	107 5	.87	WNW	2	...
Queen City, sch.,	9 8	110 30	.92	W	4	c.
Letimbro, str.,	3 53	105 14	.95	ENE	2	k.
June 21st.						
Omba, str.,	43 20	140 17	29.79	W	3	m.
Ancona, str.,	35 26	139 39	.65	S	3	o.
Pallas, str.,	33 59	130 28	.78	NE	2	k.
Afghan, str.,	33 40	129 53	.81	SW	4	o.
Velocity, bk.,	33 29	146 6	...	WNW	1	o.
Rubens, str.,	32 46	128 10	...	N	2	o.
Lawang, str.,	31 25	131 23	.81	WSW	2	or.
Herman Wedell Jarlsberg, str.,	31 9	127 43	.81	SE	2	o.
Gaelic, str.,	30 57	127 54	.79	NW	1	c.
Lyeemoon, str.,	30 25	122 26	.73	SSE	2	f.
Khedive, str.,	30 6	122 45	.79	S	2	of.
Siam, str.,	28 42	129 11	.66	SW	5	k.
Hohenzollern, str.,	28 7	122 45	.78	SW	5	o.
Lifoo, str.,	26 9	120 26	.86	SW	4	c.
Java, str.,	26 8	119 38	.79	SSW	4	k.
Glenogle, str.,	25 39	120 1	.82	SW	3	c.
Riojun Maru, str.,	25 8	121 45	.88	SSW	1	b.
Kwanglee, str.,	23 29	117 43	.82	SE	1	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 21st.						
Ceylon, str.,	22° 26′	115° 26′	29.90	S	2	c.
Frejr, str.,	21 0	109 20	.82	S	2	b.
John Baizley, bk.,	20 46	151 48	30.05	ESE	3	opq.
Ask, str.,	20 33	107 40	29.81	SSW	3	k.
Shantung, str.,	19 55	112 49	.84	SSW	2	k.
Framnes, str.,	19 21	112 10	.85	SE	4	b.
Lord Brassey, bk.,	19 15	113 59	...	var.	1	...
Azamor, str.,	18 59	112 13	.81	...	0	k.
Sishan, str.,	18 56	112 17	.84	ESE	1	k.
Menmuir, str.,	17 41	117 17	.80	var.	1	c.
Gartha, bk.,	16 11	109 0	.76	SSE	2	k.
Kong Beng, str.,	15 4	110 10	.79	var.	1	o.
Sungkiang, str.,	14 36	120 57	.89	SE	3	c.
Loosok, str.,	12 37	109 35	.83	SE	1	o.
Kitty, bk.,	12 31	112 1	...	NNW	4	oq.
Kutsang, str.,	11 50	110 49	.83	NW	3	og.
Donar, str.,	10 15	102 24	.89	var.	2	or.
Queen City, sch.,	9 37	110 0	.88	W	6	c.
Brindisi, str.,	8 29	106 52	.88	SW	2	o.
Letimbro, str.,	7 5	107 6	...	SE	2	k.
June 22nd.						
Fram, str.,	43 24	135 5	29.74	SE	2	c.
Omba, str.,	41 22	141 34	.73	N	3	k.
China, str.,	37 55	145 57	.62	SW	3	b.
Teyi, str.,	36 11	122 44	.79	WNW	2	k.
Ancona, str.,	35 8	139 41	.59	SSW	3	o.
Velocity, bk.,	33 45	147 33	...	S	2	o.
Changsha, str.,	32 43	126 43	...	E	2	o.
Lawang, str.	30 10	127 38	.83	WSW	5	og.
Herman Wedell Jarlsberg, str.,	29 17	124 58	.81	SSW	4	o.
Lyeemoon, str.,	27 18	121 19	.76	SSW	5	c.
Siam, str.,	27 8	124 50	.71	SW	4	k.
Kwanglee, str.,	27 2	121 2	.75	SW	3	m.
Ceylon, str.,	25 21	119 59	.83	SSE	3	cm.
Riojun Maru, str.,	25 9	121 45	.89	NE	1	b.
Hohenzollern, str.,	24 42	119 17	.82	SW	4	k.
Verona, str.,	23 55	118 17	.85	S	2	k.
Telamon, str.,	23 53	118 25	.81	SE	2	b.
Lifoo, str.,	23 44	117 45	.88	SW	1	b.
Sikh, str.,	22 28	115 28	.83	SW	2	k.
Menmuir, str.,	21 7	114 59	.78	N	1	b.
John Baizley, bk.,	21 0	150 12	30.04	ESE	3	k.
Ask, str.,	20 52	106 41	29.76	SE	3	o.
Lord Brassey, bk.,	20 39	113 40	...	E	1	...
Frejr, str.,	20 35	107 18	.77	SW	4	b.
Kong Beng, str.,	18 30	111 35	.81	E	3	k.
Shangtung, str.,	16 28	110 49	.78	var.	1	k.
Gartha, bk.,	15 35	109 13	.76	...	2	k.
Amazor, str.,	15 25	110 37	.78	WNW	3	k.
Sungkiang, str.,	14 36	120 57	.83	WSW	2	c.
Kitty, bk.,	13 39	112 15	...	WSW	4	c.
Picciola, str.,	11 51	109 18	.85	SW	2	c.
Letimbro, str.,	10 5	109 39	.85	SW	3	d.
Loosok, str.,	9 44	107 15	.86	SW	4	q.
Queen City, sch.,	9 29	109 31	.92	WSW	6	cq.
Donar, str.,	8 34	105 26	.92	SW	6	c.
Kutsang, str.,	8 28	109 1	.82	SW	5	ogr.
Hertha, str.,	6 7	106 48	.85	S	2	b.
Brindisi, str.,	4 35	105 40	.91	SSW	5	c.
Arroyo, str.,	4 16	105 54	...	SW	4	k.
Chingtu, str.,	1 15	125 29	.87	SSW	2	cm.
June 23rd.						
Fram, str.,	45 55	137 57	29.70	E	5	o.
Omba, str.,	37 59	141 32	.76	var.	1	o.
Velocity, bk.,	34 18	150 28	...	NW	5	or.
Ancona, str.,	33 50	135 7	.74	NNW	4	k.
Changsha, str.,	33 49	131 44	.76	SE	4	o.
Gaelic, str.,	33 48	132 29	.74	NE	3	o.
Teyi, str.	32 49	122 40	.67	ESE	3	f.
Kwanglee, str.,	31 9	121 59	.63	...	0	f.
Afghan, str.,	30 42	126 50	.73	S	2	o.
Ceylon, str.,	29 57	122 37	.62	S	4	bm.
Lawang, str.,	29 47	123 41	.73	SW	7	cm.
Fushun, str.,	28 ...	121 28	.72	SW	4	m.
Telamon, str.,	27 36	121 40	.77	SW	4	c.
Verona, str.,	27 13	122 30	.73	SW	4	k.
Herman Wedell Jarlsberg, str.,	27 2	121 53	.76	SW	6	k.
Java, str.,	25 54	119 55	.76	SSW	4	k.
June 23rd.						
Siam, str.,	25° 27′	120° 30′	29.68	SW	4	k.
Riojun Maru, str.,	25 9	121 45	.81	NNW	1	b.
Lyeemoon, str.,	24 7	118 29	.77	SSW	1	b.
Chi Yuen, str.,	22 39	115 35	.78	SE	1	k.
Hohenzollern, str.,	22 20	114 50	.76	...	0	k.
Hongkong, str.,	22 4	114 ...	...	S	3	k.
Activ, str.,	21 48	113 39	.76	SSE	3	k.
John Baizley, bk.,	21 1	148 59	30.00	ESE	3	k.
Ask, str.,	20 52	106 41	29.67	SE	4	o.
Zafiro, str.,	20 ...	116 ...	.78	SE	2	b.
Tsinan, str.,	19 0	116 26	.76	SE	3	c.
Picciola, str.,	15 15	110 8	.79	W	2	c.
Kitty, bk.,	15 1	112 51	...	SW	5	oq.
Sungkiang, str.,	14 36	120 57	.84	SSE	3	crq.
Gartha, bk.,	14 25	109 55	.68	...	2	k.
Letimbro, str.,	13 12	111 53	...	SW	4	o.
Shantung, str.,	12 50	109 34	.72	SW	2	k.
Azamor, str.,	11 40	109 42	.75	SSW	5	m.
Donar, str.,	10 49	108 36	.83	W	6	c.
Hertha, str.,	9 49	109 36	.79	SSW	4	orq.
Queen City, sch.,	8 55	109 29	.84	WSW	...	oq.
Loosok, str.,	8 42	104 18	.83	SW	4	oq.
Arroyo, str.,	7 16	108 12	.81	WSW	5	o.
Kutsang, str.,	5 20	107 10	.85	SW	5	orq.
Chingtu, str.,	4 21	123 38	.84	SW	3	c.
Orestes, str.,	4 0	105 42	.89	SW	3	cp.
June 24th.						
Fram, str.,	48 18	141 20	29.84	...	0	c.
Omba, str.,	34 55	140 1	.68	var.	4	orq.
Changsha, str.,	34 40	135 11	.76	SE	2	o.
Ancona, str.,	34 40	135 11	.74	NE	3	o.
Gaelic, str.,	34 40	135 11	.78	ESE	3	o.
Verona, str.,	30 31	126 46	.65	S	5	k.
Teyi, str.,	30 5	122 50	.55	SSW	4	m.
Glenfarg, str.,	28 55	122 20	.59	SSW	4	b.
Afghan, str.,	28 22	123 16	.65	SSW	4	k.
Lawang, str.,	26 16	121 5	.69	SW	3	c.
Riojun Maru, str.,	25 8	121 45	.69	SE	1	b.
Fushun, str.,	24 59	119 29	.67	SSW	4	k.
Chi Yuen, str.,	24 52	118 58	.71	SSW	1	k.
Herman Wedell Jarlsberg, str.,	24 44	119 13	.64	SW	4	k.
Siam, str.,	23 5	117 1	.64	SW	3	k.
Java, str.,	22 58	116 48	.65	SW	2	k.
Prinz Heinrich, str.,	22 35	115 46	.67	SW	1	b.
John Baizley, bk.,	21 4	147 46	30.02	ESE	3	k.
Ask, str.,	20 12	109 38	...	SE	2	k.
Norden, str.,	20 10	109 30	29.66	...	0	k.
Activ, str.,	20 8	110 19	.68	var.	2	c.
Hongkong, str.,	20 7	110 15	.70	SE	2	k.
Picciola, str.,	18 11	111 14	...	NW	2	b.
Kitty, bk.,	16 46	113 50	...	W	2	oq.
Letimbro, str.,	15 56	114 29	...	SW	4	o.
Sungkiang, str.,	14 36	120 57	.83	SW	4	or.
Zafiro, str.,	14 34	118 47	.70	SW	6	c.
Donar, str.,	14 21	110 14	.72	WSW	3	b.
Hertha, str.,	13 51	109 58	.69	SW	2	b.
Gartha, bk.,	13 42	109 46	.68	var.	3	k.
Loosok, str.,	11 4	101 51	.83	SW	3	q.
Arroyo, str.,	10 22	110 17	...	WSW	6	p.
Shantung, str.,	9 51	108 51	.78	SW	5	o.
Queen City, sch.,	9 22	109 34	...	WSW	8	o.
Amazor, str.,	8 38	108 55	.81	WSW	5	o.
Ingraban, str.,	8 10	108 24	...	W	4	q.
Wingsang, str.,	7 59	108 17	...	SW	3	op.
Orestes, str.,	7 58	108 30	.83	WSW	4	orq.
Chingtu, str.,	7 36	121 48	.83	NE	2	c.
Foohng Suey, bk.,	7 13	108 0	.86	SSW	4	o.
Benalder, str.,	6 57	107 51	.91	SW	3	k.
Chunshan, str.,	6 23	103 34	.80	WNW	3	k.
June 25th.						
Ancona, str.,	34 40	135 11	29.77	S	2	or.
Gaelic, str.,	34 16	138 42	.78	ENE	4	omd.
Chi Yuen, str.,	27 26	121 7	.64	NNE	2	k.
Teyi, str.,	27 11	121 16	.57	var.	1	m.
Glenfarg str.,	26 12	119 56	.56	S	2	b.
Afghan, str.,	25 28	120 15	.59	N	2	k.
Riojun Maru, str.,	25 9	121 45	.57	var.	1	or.
Lawang, str.,	23 36	117 38	.63	SW	2	c.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	For. 0-12	Weather.
			ins.			
June 25th.						
Fushun, str.,	22° 48′	116° 4′	29.61	SW	2	...
Herman Wedell Jarlsberg, str.,	22 40	116 2	.54	SW	4	k.
John Baizley, bk.,	21 43	146 23	30.04	SE	3	cp.
Activ, str.,	21 28	109 5	29.62	WSW	2	k.
Norden, str.,	21 22	113 26	.58	WSW	2	c.
Picciola, str.,	21 0	113 16	...	SW	2	k.
Glenogle, str.,	20 46	116 9	.62	W	5	o.
Hongkong, str.,	20 43	106 47	.66	...	0	k.
Frejr, str.,	20 14	109 21	.61	SSE	3	b.
Ask, str.,	20 4	110 20	.56	NNW	2	k.
Letimbro, str.,	19 31	114 8	.70	W	3	k.
Kitty, bk.,	18 14	113 35	...	WSW	2	c.
Donar, str.,	17 57	111 29	.64	SW	2	b.
Hertha, str.,	17 35	111 13	.65	SE	2	b.
Gartha, bk.,	12 45	110 18	.64	SW	3	k.
Orestes, str.,	11 44	111 21	.71	SW	6	c.
Wingsang, str.,	11 40	111 7	...	W	5	c.
Ingraban, str.,	11 31	109 20	...	WSW	5	q.
Chingtu, str.,	11 25	121 21	.77	SW	6	og.
Benalder, str.,	10 16	109 49	.82	SW	5	q.
Chunshan, str.,	9 58	102 16	.78	WSW	5	orq.
Queen City, sch.,	9 34	109 32	...	W	8	o.
Foohng Suey, bk.,	9 8	109 56	...	SW	4	k.
Glenfruin, str.,	8 53	109 25	.79	SW	6	op.
Shantung, str.,	7 17	107 24	.78	SW	5	oq.
Tai Cheong, str.,	5 50	107 10	...	SW	3	o.
Azamor, str.,	5 44	106 54	.83	SW	3	o.
Rosetta, str.,	4 27	106 5	.87	S	4	oq.
June 26th.						
Verona, str.,	33 51	130 15	29.72	NE	5	o.
Ancona, str.,	33 45	131 53	.78	NNE	4	or.
Chi Yuen, str.,	28 52	121 55	.66	NW	2	k.
Riojun Maru, str.,	25 9	121 45	.69	NE	1	o.
Teyi, str.,	24 32	119 ...	.65	...	0	...
Cromarty, str.,	23 14	117 7	...	SE	2	m.
Afghan, str.,	22 50	116 57	.66	SW	2	k.
John Baizley, bk.,	22 49	145 30	30.04	ESE	3	k.
Tejen, str.,	22 29	115 15	...	S	3	k.
Ask, str.,	21 41	113 24	29.62	SSW	2	k.
Activ, str.,	21 29	109 5	.65	SW	2	c.
Prinz Heinrich, str.,	21 25	113 35	.64	SW	4	c.
Donar, str.,	21 5	113 34	.66	W	3	b.
Hertha, str.,	21 0	113 23	.66	var.	1	b.
Kitty, bk.,	19 52	113 42	...	WSW	2	o.
Amigo, str.,	19 44	112 40	.65	SW	4	k.
Phra Nang, str.,	18 58	112 4	.71	SW	4	...
Catherine Apcar, str.,	18 39	114 6	.69	SSW	4	k.
Progress, str.,	18 5	110 6	...	N	1	k.
Glenogle, sfr.,	16 34	113 46	.75	SW	2	k.
Ingraban, str.,	15 35	110 17	...	W	1	k.
Arroyo, str.,	15 34	116 18	...	WSW	3	...
Orestes, str.,	15 33	113 37	.68	SSW	2	k.
Wingsang, str.,	15 25	113 15	.67	SW	1	b.
Sungkiang, str.,	14 36	120 57	.85	S	4	or.
Chingtu, str.,	14 26	119 14	.75	SW	5	ourq.
Benalder, str.,	13 35	111 54	.72	SW	5	k.
Glenfruin, str.,	12 47	111 50	.74	SW	5	k.
Queen City, sch.,	11 55	110 48	.77	SW	8	o.
Foohng Suey, bk.,	11 49	111 42	.74	SSW	5	k.
Gartha, bk.,	10 4	112 18	.76	SW	6	o.
Tai Cheong, str.,	9 20	108 52	.83	WSW	6	o.
Devawongse, str.,	8 29	105 33	.84	var.	3	or.
Rosetta, str.,	8 26	108 54	.89	WSW	5	ouq.
Tsinan, str.,	7 30	121 58	.84	S	4	c.
Japan, str.,	5 4	106 28	.88	S	4	k.
Shantung, str.,	4 8	105 45	.86	S	5	o.
June 27th.						
Glenesk, str.,	34 48	139 3	...	var.	5	or.
Verona, str.,	34 23	133 50	29.60	...	0	or.
Ancona, str.,	32 45	129 50	.68	N	4	o.
Chi Yuen, str.,	31 8	122 1	.85	ENE	2	m.
Kwanglee, str.,	30 25	122 33	.80	NE	3	m.
Nanyang, str.,	27 30	121 22	.81	ENE	2	o.
Riojun Maru, str.,	25 9	121 45	.80	...	0	cr.
Fooksang, str.,	24 51	119 24	.76	NE	5	k.
Cromarty, str.,	24 28	118 4	...	NW	2	k.
Tejen, str.,	24 14	118 35	.75	NE	2	o.
John Baizley, bk.,	24 4	144 44	30.06	ESE	2	k.
June 27th.						
Teyi, str.,	22° 48′	116° 14′	29.71	SW	2	k.
Progress, str.,	20 58	113 1	...	S	2	k.
Activ, str.,	20 37	109 30	.69	var.	3	o.
Frejr, str.,	20 32	111 25	.70	SE	3	b.
Orestes, str.,	20 6	113 48	.73	S	1	k.
Wingsang, str.,	19 41	113 51	.73	S	1	c.
Ingraban, str.,	19 0	112 2	...	...	0	k.
Java, str.,	18 27	113 37	.70	var.	1	k.
Arroyo, str.,	18 19	119 12	.71	SE	4	p.
Chingtu, str.,	17 48	117 11	.71	var.	2	cmpq.
Glenfruin, str.,	16 56	113 13	.72	W	2	k.
Benalder, str.,	16 54	113 18	.70	SW	2	k.
Amigo, str.,	16 42	110 14	.67	SSW	3	k.
Prinz Heinrich, str.,	16 33	110 28	.69	SSW	1	c.
Sungkiang, str.,	16 1	119 4	.80	SSW	4	cp.
Phra Nang, str.,	15 13	110 9	.66	SW	4	...
Esmeralda, str.,	15 2	119 3	.78	S	5	k.
Catherine Apcar, str.,	14 42	112 33	.71	SW	6	o.
Foohng Suey, bk.,	14 24	112 24	.67	SW	...	or.
Queen City, sch.,	14 2	112 34	.77	SSW	8	b.
Rosetta, str.,	12 51	111 41	.78	WSW	6	cq.
Tai Cheong, str.,	12 39	111 33	.78	SW	6	og.
Glenogle, str.,	12 26	111 17	.79	SW	5	c.
Devawongse, str.,	11 3	108 55	.78	SW	4	og.
Gartha, bk.,	9 55	112 3	.80	SW	6	orq.
Japan, str.,	9 1	109 22	.84	SW	5	o.
Memnon, str.,	7 56	118 59	.82	S	2	c.
Tsinan, str.,	3 49	124 1	.87	SSE	2	c.
June 28th.						
Verona, str.,	34 40	135 11	29.82	N	2	k.
Glenesk, str.,	34 0	135 0	.90	var.	2	k.
Ancona, str.,	30 17	126 41	.81	ENE	2	k.
Fooksang, str.,	28 16	121 45	.80	NE	3	c.
Tejen, str.,	26 51	120 56	.84	NNE	4	o.
Kwanglee, str.,	26 14	120 31	.77	NE	2	o.
Riojun Maru, str.,	25 9	121 45	.79	NNE	2	c.
John Baizley, bk.,	24 44	143 35	30.03	SE	1	orq.
Nanyang, str.,	24 17	118 45	29.77	NNE	4	c.
Arroyo, str.,	21 47	121 0	.71	ENE	4	o.
Framnes, str.,	21 46	113 54	.70	var.	2	c.
Glenfruin, str.,	21 30	114 3	.73	NE	2	k.
Chingtu, str.,	21 8	114 58	.70	NNE	2	c.
Benalder, str.,	20 55	113 58	.71	N	2	k.
Activ, str.,	20 4	110 20	.69	E	5	c.
Esmeralda, str.,	19 26	116 26	.73	var.	3	orq.
Sungkiang, str.,	19 25	116 34	.74	NW	3	cp.
Rosetta, str.,	17 13	113 30	.72	W	2	cv.
Queen City, sch.,	16 5	113 32	...	W	3	c.
Foohng Suey, bk.,	16 4	113 25	.64	N	4	c.
Devawongse, str.,	14 53	110 7	.73	SW	5	c.
Java, str.,	14 19	112 23	.76	SW	5	c.
Amigo, str.,	13 5	109 26	.69	SW	6	k.
Japan, str.,	12 59	111 53	.67	SW	5	k.
Memnon, str.,	11 41	119 53	.74	SW	4	orq.
Phra Nang, str.,	11 27	109 6	.66	SW	4	...
Prinz Heinrich, str.,	11 10	110 6	.73	SW	6	c.
Catherine Apcar, str.,	11 6	110 46	.73	SW	8	orq.
Gartha, bk.,	9 3	112 36	.78	SW	6	orq.
Glenogle, str.,	8 29	109 20	.86	SW	4	o.
Machew, str.,	8 27	104 41	...	W	2	...
Yarra, str.,	5 3	105 50	.89	S	2	b.
Bayern, str.,	4 50	106 18	.97	SSE	3	c.
Tsinan, str.,	0 22	126 23	.88	S	4	c.
June 29th.						
Verona, str.,	34 40	135 11	29.85	...	0	k.
Pallas, str.,	33 26	129 34	.89	ENE	2	k.
Maria Valeria, str.,	32 9	133 4	.86	...	0	o.
Telamon, str.,	31 5	122 51	.82	SE	3	m.
Tejen, str.,	29 41	122 47	.81	SE	3	m.
Ancona, str.,	27 6	122 40	.87	SE	4	k.
John Baizley, bk.,	25 22	143 18	.96	var.	...	orqtl.
Riojun Maru, str.,	25 9	121 45	.75	SSE	2	c.
Arroyo, str.,	23 49	123 57	.71	NE	4	o.
Menmuir, str.,	23 46	118 6	.73	NE	5	k.
Glenfarg, str.,	23 20	117 27	.73	NW	2	b.
Kwanglee, str.,	23 6	117 8	.70	N	2	b.
Nanyang, str.,	22 21	114 51	.71	NE	3	crq.
Ask, str.,	22 5	113 52	.67	SE	4	orq.

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June 29th.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Rosetta, str.,	21° 58′	114° 0′	29.68	E	5	ogq.
Lawang, str.,	21 21	113 35	.66	ENE	6	cgr.
Activ, str.,	20 38	111 24	.65	NE	2	oq.
China, str.,	19 47	112 15	.65	E	2	c.
Tai Cheong, str.,	19 43	113 47	.63	NE	3	ogr.
Devawongse str.,	18 34	111 45	.63	NW	5	orq.
Framnes, str.,	18 32	111 50	.62	NNW	3	c.
Japan, str.,	17 12	113 22	.63	W	4	orq.
Foohng Suey, bk.,	17 12	113 55	...	NW	6	orq.
Memnon, str.,	14 53	118 16	.65	SW	4	c.
Lina, bk.,	11 37	100 50	...	SW	3	k.
Java, str.,	10 38	110 20	.70	SW	6	c.
Yarra, str.,	10 23	107 3	.78	W	3	o.
Amigo, str.,	10 4	107 43	.73	SW	6	k.
Bayern, str.,	9 5	109 21	.88	WSW	4	o.
Gartha, bk.,	9 5	112 31	.76	SW	6	orq.
Phra Nang, str.,	8 53	106 31	.74	WSW	3	c.
Catherine Apcar, str.,	7 42	108 40	.73	SW	6	k.
Prinz Heinrich, str.,	6 27	107 36	.82	WSW	4	c.
Glenogle, str.,	4 39	106 48	.89	SW	2	k.

June 30th.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Gaelic, str.,	37 34	145 30	29.98	NNE	3	c.
Verona, str.,	34 38	138 59	.82	E	4	o.
Rubens, str.,	33 55	129 48	...	WSW	2	o.
Changsha, str.,	33 49	131 29	.80	NE	2	or.
Tejen, str.,	33 35	123 8	.73	S	1	m.
Telamon, str.,	33 7	127 42	.81	SE	1	m.
Peiyang, str.,	31 15	121 43	.60	S	4	c.
Maria Valeria, str.,	30 9	129 20	.80	SSE	3	o.
Menmuir, str.,	26 45	120 24	.69	NE	5	k.

June 30th.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
John Baizley, bk.,	25° 29′	142° 57′	29.91	var.	1	orqtl.
Herman Wedell Jarlsberg, str.	25 29	120 13	.54	ENE	4	o.
Riojun Maru, str.,	25 9	121 45	.65	NNW	2	c.
Arroyo, str.,	24 48	126 23	...	ESE	9	q.
Ancona, str.,	24 9	118 40	.58	NE	4	o.
Orestes, str.,	23 36	118 0	.64	NNE	3	k.
Lyeemoon, str.,	23 19	116 5	.62	...	0	c.
Bygdo, str.,	22 20	115 10	.62	ESE	5	o.
Frejr, str.,	22 2	113 53	.62	ESE	5	p.
Wuotan, str.,	22 ...	117 6	.62	ENE	2	c.
Activ, str.,	21 55	113 40	.62	ENE	5	o.
Devawongse, str.,	21 28	112 57	.60	E	6	c.
Japan, str.,	21 24	113 49	.59	E	5	k.
Sishan, str.,	21 11	115 2	.60	ESE	4	orq.
Hongkong, str.,	20 34	111 24	.56	NE	5	or.
Ask, str.,	20 16	110 59	.46	ENE	4	m.
Picciola, str.,	19 29	112 6	.56	ENE	5	orq.
Foohng Suey, bk.,	18 42	114 10	...	S	5	op.
Memnon, str.,	18 34	116 37	.61	S	4	p.
Lawang, str.,	17 45	111 15	.59	W	6	ogr.
China, str.,	16 0	110 12	.60	W	5	or.
Framnes, str.,	15 2	110 10	.63	WNW	2	o.
Machew, str.,	13 59	109 58	...	W	4	o.
Bayern, str.,	13 26	112 19	.73	SW	4	olq.
Gartha, bk.,	9 37	111 52	.72	SW	7	orq.
Phra Nang, str.,	9 22	103 17	.73	WSW	3	...
Mongkut, str.,	9 8	103 32	.75	WSW	5	k.
Lina, bk.,	8 57	101 22	.77	WSW	5	k.
Amigo, str.,	8 22	104 51	.75	WSW	5	k.
Java, str.,	7 14	108 25	.78	SW	5	c.
Catherine Apcar, str.,	4 8	106 11	.78	WSW	4	k.

JULY, 1895.

July 1st.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Gaelic, str.,	40° 16′	151° 22′	29.96	ENE	3	c.
Omba, str.,	38 17	141 36	.93	ENE	4	or.
Belgic, str.,	35 17	141 22	.71	ESE	4	c.
Changsha, str.,	33 58	130 56	.78	NNE	1	od.
Telamon, str.,	33 58	130 56	.72	NE	2	o.
Glenesk, str.,	33 48	131 34	...	...	2	or.
Pallas, str.,	31 51	128 54	.63	S	2	o.
Rubens, str.,	31 39	126 0	...	ESE	2	k.
City of Peking, str.,	31 1	127 38	.58	E	2	c.
Peiyang, str.,	29 15	122 30	.76	NNW	2	...
Maria Valeria, str.,	28 18	125 19	.43	NE	6	orq.
Herman Wedell Jarlsberg, str.	28 13	123 45	.54	NE	4	k.
Orestes, str.,	27 5	121 11	.61	WSW	3	k.
Lyeemoon, str.,	26 55	120 35	.59	SW	3	b.
John Baizley, bk.,	25 38	142 35	.92	var.	1	q.
Arroyo, str.,	25 9	127 14	...	S	...	q.
Riojun Maru, str.,	25 9	121 45	.62	W	4	c.
Bygdo, str.,	24 1	118 3	...	ENE	1	k.
Foohng Suey, bk.,	21 ...	114 ...	.59	SSE	3	pq.
Ask, str.,	20 26	107 30	.45	N	3	o.
Frejr, str.,	20 10	110 43	.47	N	3	orq.
Sishan, str.,	18 54	112 43	.53	SSE	5	oq.
Bayern, str.,	18 17	113 21	.68	SSW	4	o.
Machew, str.,	17 54	111 26	...	SW	...	k.
Picciola, str.,	16 37	110 38	.61	S	4	orq.
Lawang, str.,	14 21	110 20	.66	SSW	6	c.
China, str.,	12 16	109 20	.65	S	3	k.
Strathavon, str.,	12 3	109 20	.76	W	4	orq.
Framnes, str.,	11 42	109 15	.69	S	5	c.
Amigo, str.,	10 19	102 34	.74	WSW	5	q.
Gartha, bk.,	10 8	111 24	.72	SW	6	eq.
Mongkut, str.,	9 29	107 5	.76	WSW	5	orq.
Lina, bk.,	7 40	104 17	.77	SW	5	k.
Java, str.,	3 38	105 44	.82	S	3	k.
Orient, bk.,	2 45	105 2	.82	WSW	5	om.

July 2nd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Omba, str.,	41 43	141 2	30.01	ENE	3	k.
Belgic, str.,	35 25	139 39	29.81	N	2	or.
Telamon, str.,	33 58	130 56	.63	ENE	2	c.
Orestes, str.,	30 58	122 13	.54	SW	2	k.
Chi Yuen, str.,	30 48	122 11	.60	SSW	3	o.
Lyeemoon, str.,	30 43	122 20	.51	SW	3	o.
Rubens, str.,	29 59	125 0	...	SW	2	k.

July 2nd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Pallas, str.,	29° 31′	125° 32′	29.56	WNW	3	o.
John Baizley, bk.,	26 33	142 16	30.00	NE	3	k.
Maria Valeria, str.,	26 24	121 23	29.60	W	7	o.
Peiyang str.,	26 9	120 42	.63	SW	4	c.
Arroyo, str.,	26 5	130 23	...	W	4	o.
Bygdo, str.,	25 37	120 11	.66	SSW	4	o.
Riojun Maru, str.,	25 9	121 45	.68	WSW	3	c.
Chingtu, str.,	22 34	115 34	...	var.	2	cp.
Ask, str.,	20 52	106 41	.46	WNW	3	o.
Machew, str.,	20 59	113 31	...	SSW	5	...
Hanoi, str.,	20 30	111 20	.74	SE	4	m.
Wuotan, str.,	18 ...	112 6	.66	S	2	c.
Sishan, str.,	16 55	110 45	.67	SSW	3	k.
Strathavon, str.,	15 15	110 37	.71	SW	4	o.
Yarra, str.,	14 44	110 21	.73	SSW	3	b.
Picciola, str.,	14 4	110 30	.74	SSW	4	b.
Lawang, str.,	11 32	109 11	.72	SSW	7	c.
Chunshan, str.,	10 31	102 12	.78	SW	4	...
Framnes, str.,	9 22	106 56	.83	SSW	3	op.
Gartha, bk.,	9 21	111 31	.80	...	4	eq.
Lina, bk.,	7 21	107 33	.84	S	5	k.
Arratoon Apcar, str.,	4 20	111 9	.83	S	2	k.
Orient, bk.,	3 53	105 49	.82	S	...	c.
Serrano, bk.,	3 10	106 4	.86	SW	...	k.

July 3rd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Belgic, str.,	35 25	139 39	29.44	NW	3	or.
City of Peking, str.,	33 50	131 19	.41	NW	2	c.
Changsha, str.,	32 2	126 58	.54	W	4	o.
Belmont, bk.,	29 12	122 59	...	SW	1	...
Bygdo, str.,	29 10	122 30	.62	N	1	o.
John Baizley, bk.,	28 38	141 2	.72	SW	5	...
Arroyo, str.,	27 48	131 39	...	W	4	op.
Chi Yuen, str.,	27 37	121 12	.68	SW	2	o.
Rubens, str.,	27 30	122 56	...	SW	6	p.
Pallas, str.,	27 12	122 29	.68	WSW	4	o.
Riojun Maru, str.,	25 9	121 45	.71	WSW	2	c.
Chingtu, str.,	24 53	119 29	.72	SW	3	c.
Maria Valeria, str.,	24 9	118 37	.68	SW	5	o.
Peiyang, str.,	23 42	118 0	.69	SSW	3	c.
Sungkiang, str.,	22 36	115 31	.76	S	3	c.
Activ, str.,	21 50	113 33	.72	SSW	5	opq.
Letimbro, str.,	21 32	113 49	.71	SE	5	o.
Ask, str.,	20 52	106 41	.54	SW	3	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
July 3rd.						
Frejr, str.,	20° 40′	107° 28′	29.58	SSW	6	b.
Kong Beng, str.,	20 19	115 15	.81	SW	5	k.
Yarra, str.,	20 0	112 40	.74	S	4	k.
Cromarty, str.,	19 45	113 53	.74	SW	6	g.
Donar, str.,	19 24	112 16	.74	S	6	b.
Strathavon, str.,	18 15	111 55	.81	S	4	k.
Wuotan, str.,	16 ...	111 ...	.74	S	3	c.
Sishan, str.,	13 57	109 49	.75	S	3	k.
Picciola, str.,	11 45	109 17	.80	SSW	4	b.
Gartha, bk.,	9 58	109 32	.78	SSW	4	k.
Lina, bk.,	9 4	109 31	.84	SW	5	k.
Framnes, str.,	8 43	104 5	.84	SW	3	c.
Chunshan, str.,	8 17	105 25	.84	SW	4	k.
Lawang, str.,	8 11	107 42	.83	SSW	4	c.
Arratoon Apcar, str.,	8 1	108 38	.86	SE	...	k.
Orient, bk.,	4 59	107 4	.85	SSE	2	k.
Serrano, bk.,	4 42	110 42	.86	SW	2	b.
July 4th.						
Telamon, str.,	34 40	135 11	29.52	WSW	3	c.
Belgic, str.,	34 26	138 37	.40	WSW	5	c.
John Baizley, bk.,	31 42	140 38	.64	SW	5	o.
Arroyo, str.,	31 12	132 36	.61	W	4	o.
Bygdo, str.,	30 46	122 11	.58	E	1	o.
Menmuir, str.,	30 44	125 51	.62	var.	1	o.
Changsha, str.,	28 46	123 11	.63	NW	4	o.
Chingtu, str.,	28 22	122 4	.73	W	4	orq.
Belmont, bk.,	27 32	123 26	...	WSW	4	...
Rubens, str.,	25 54	121 3	.72	SW	9	k.
Chi Yuen, str.,	25 26	120 0	.71	SW	4	o.
Pallas, str.,	25 20	120 4	.68	SW	5	o.
Riojun Maru, str.,	25 9	121 45	.69	SW	3	b.
Hohenzollern, str.,	22 32	115 40	.69	W	5	ogr.
Bayern, str.,	22 31	115 38	.72	SW	5	or.
Maria Valeria, str.,	22 31	115 21	.70	SW	4	orq.
Peiyang, str.,	22 19	114 50	.73	WNW	3	orq.
Esmeralda, str.,	20 54	115 13	.75	SW	3	o.
Strathavon, str.,	20 53	113 44	.73	var.	3	orq.
Ask, str.,	20 52	106 41	.58	S	1	c.
Activ, str.,	20 5	111 22	.71	S	4	o.
Glenfarg, str.,	19 10	113 48	.77	SSW	5	b.
Letimbro, str.,	19 4	112 8	...	SE	3	b.
Kong Beng, str.,	17 22	113 38	.82	SSW	4	k.
Donar, str.,	16 42	110 27	.76	S	5	b.
Cromarty, str.,	16 19	113 14	.77	SSW	5	c.
Wuotan, str.,	13 ...	111 ...	...	SSW	4	c.
Arratoon Apcar, str.,	11 54	111 20	.82	SW	...	k.
Framnes, str.,	11 15	101 25	.84	W	3	c.
Sishan, str.,	10 59	108 26	.79	SW	2	k.
Chunshan, str.,	10 51	108 35	...	WSW	4	k.
Lina, bk.,	10 45	111 26	.80	SW	5	k.
Gartha, bk.,	8 55	111 22	.80	SSW	4	k.
Orient, bk.,	5 47	107 38	.85	SW	2	orq.
Serrano, bk.,	5 8	110 40	.86	WSW	1	k.
Lawang, str.,	4 40	106 4	.80	...	0	c.
July 5th.						
Telamon, str.,	34 40	135 11	29.65	WSW	3	c.
City of Peking, str.,	34 26	138 48	.60	SW	2	o.
Arroyo, str.,	34 17	135 0	...	NE	3	...
John Baizley, bk.,	34 13	139 42	.64	SW	4	o.
Belgic, str.,	32 23	134 3	.56	SW	4	cp.
Belmont, bk.,	27 13	122 48	...	ENE	2	...
Bayern, str.,	25 53	120 16	.70	NE	4	or.
Hohenzollern, str.,	25 22	120 34	.64	SSW	5	o.
Changsha, str.,	25 19	120 0	.70	SW	4	or.
Riojun Maru, str.,	25 9	121 45	.70	...	0	c.
Rubens, str.,	24 29	118 52	...	SW	6	o.
Chi Yuen, str.,	23 32	117 42	.73	SW	2	o.
Pallas, str.,	23 8	117 20	.70	SW	4	o.
Sungkiang, str.,	21 37	119 21	.78	SW	6	o.
Progress, str.,	21 34	113 13	.71	SW	5	or.
Activ, str.,	21 22	109 4	.72	NNW	3	op.
Hongkong, str.,	20 12	111 15	.70	SW	4	or.
Ask, str.,	20 7	110 9	.68	NE	1	o.
Letimbro, str.,	16 21	110 18	.71	SSE	3	k.
Esmeralda, str.,	16 20	118 40	.82	SW	3	kpq.
Zafiro, str.,	16 ...	119 ...	.84	SW	3	b.
Arratoon Apcar, str.,	15 41	113 6	.80	SW	...	k.
Glenfarg, str.,	15 20	113 16	.83	S	6	b.
July 5th.						
Wm. le Lacheur, bk.,	15° 10′	116° 27′	...	S	4	k.
Kong Beng, str.,	14 40	112 0	29.84	SSW	5	k.
Chunshan, str.,	14 40	110 4	.74	S	4	k.
Donar, str.,	13 17	109 41	.81	S	4	b.
Cromarty, str.,	12 53	111 58	.80	S	3	k.
Lina, bk.,	12 48	112 44	.85	SW	5	k.
Holstein, str.,	12 11	109 24	.79	S	2	k.
Wuotan, str.,	10 ...	110 6	.83	SSW	2	c.
Gartha, bk.,	8 34	111 3	.80	SSW	3	k.
Orient, bk.,	6 29	108 2	.82	SW	2	k.
Serrano, bk.,	5 32	110 38	.83	W	1	k.
Airlie, str.,	3 55	124 22	.97	S	1	c.
Lawang, str.,	1 16	104 9	.85	...	0	c.
July 6th.						
Empress of Japan, str.,	39 30	143 41	29.74	SW	1	f.
John Baizley, bk.,	35 48	141 39	.76	...	0	k.
Verona, str.,	35 9	139 41	.66	N	1	k.
Telamon, str.,	34 40	135 11	.79	WSW	2	b.
Menmuir, str.,	33 43	130 0	.79	var.	2	k.
Glenesk, str.,	32 37	126 40	...	NE	4	o.
Belgic, str.,	31 43	129 37	.69	NNW	3	c.
Ernest Simons, str.,	31 23	121 36	.77	SE	2	...
Hohenzollern, str.,	27 38	125 59	.74	...	0	o.
Belmont, bk.,	26 40	122 57	...	SW	4	...
Riojun Maru, str.,	26 18	122 5	.79	NW	3	or.
Ancona, str.,	24 6	118 31	.77	SW	3	c.
Teyi, str.,	23 23	117 43	.78	SSW	1	k.
Changsha, str.,	22 46	116 10	.74	SW	4	op.
Rubens, str.,	22 40	116 30	...	SW	4	o.
Activ, str.,	21 21	109 5	.76	var.	1	or.
Ask, str.,	20 30	111 24	.73	SE	2	m.
Frejr, str.,	20 10	110 0	.77	WNW	6	orq.
Progress, str.,	20 5	110 20	...	SW	2	...
Hongkong, str.,	20 5	110 20	.74	SW	3	k.
Arratoon Apcar, str.,	19 30	113 33	.77	SW	...	k.
Zafiro, str.,	19 ...	116 ...	.81	SW	5	c.
Chunshan, str.,	18 17	111 31	.78	SW	4	k.
Sungkiang, str.,	17 47	119 37	.90	SSW	4	c.
Yuensang, str.,	16 9	118 47	.87	...	0	b.
Holstein, str.,	15 46	110 28	.78	SSE	2	o.
Wm. le Lacheur, bk.,	15 32	... ...	...	S	4	k.
Lina, bk.,	14 53	113 44	.83	SW	5	k.
Letimbro, str.,	13 1	110 12	...	S	4	k.
Glenfarg, str.,	11 44	111 4	.85	S	5	b.
Kong Beng, str.,	11 5	110 52	.84	S	3	k.
Donar, str.,	10 15	107 54	.84	SW	3	b.
Gartha, bk.,	8 33	110 25	.80	S	3	k.
Airlie, str.,	7 16	121 53	.86	var.	1	orq.
Wuotan, str.,	7 ...	108 6	.79	SW	1	cd.
Orient, bk.,	6 55	108 34	.81	...	0	orq.
Serrano, bk.,	5 36	110 38	.81	...	0	k.
Mascotte, str.,	4 32	105 49	.86	N	4	crq.
July 7th.						
Tacoma, str.,	38 48	147 28	29.73	SSW	3	b.
John Baizley, bk.,	36 10	141 31	.82	NE	1	...
Empress of Japan, str.,	34 56	140 3	.82	NE	2	o.
Verona, str.,	34 3	135 1	.77	N	4	k.
Telamon, str.,	33 37	135 15	...	WSW	2	b.
Orestes, str.,	32 57	126 36	.85	N	2	o.
Belgic, str.,	31 44	128 26	.73	NE	2	c.
Hohenzollern, str.,	31 0	131 0	.76	N	2	op.
Riojun Maru, str.,	30 55	123 15	.78	NE	2	or.
Herman Wedell Jarlsberg, str.,	30 21	126 19	...	W	3	o.
Ceylon, str.,	28 3	121 50	.73	N	3	or.
Ancona, str.,	27 16	122 30	.75	SW	3	c.
Ernest Simons, str.,	26 44	121 6	.70	SE	2	...
Belmont, bk.,	26 24	121 16	...	SW	6	...
Teyi, str.,	26 4	120 32	.76	SSW	5	op.
Kwanglee, str.,	23 28	117 41	.80	SSW	3	b.
Chunshan, str.,	21 36	113 47	.80	SSE	4	k.
Activ, str.,	21 29	109 5	.79	var.	1	oq.
Devawongse, str.,	21 4	115 0	.84	SW	4	p.
Tai Cheong, str.,	20 51	115 46	.86	SSW	2	...
Rubens, str.,	20 38	113 53	.79	SW	6	k.
Frejr, str.,	20 28	111 18	.84	W	5	p.
Hongkong, str.,	20 12	109 34	.76	W	2	...
Yuensang, str.,	19 25	116 18	.86	SW	4	...
Holstein, str.,	19 0	111 52	.84	S	2	q.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
July 7th.						
Lina, bk.,	16° 43′	113° 39′	29.86	S	5	k.
Wm. le Lacheur, bk.,	15 34	112 18	...	S	4	k.
Sungkiang, str.,	14 36	120 57	.91	...	0	c.
Airlie, str.,	11 28	121 16	.85	var.	1	b.
Loosok, str.,	11 0	101 53	.82	SW	1	op.
Letimbro, str.,	10 16	108 53	.81	S	2	k.
Donar, str.,	8 33	104 34	.90	SW	6	or.
Glenfarg, str.,	8 26	108 54	.88	S	2	b.
Kong Beng, str.,	8 18	108 33	.85	S	2	k.
Gartha, bk.,	7 55	109 33	...	SSE	2	k.
Mascotte, str.,	7 45	107 2	.83	W	2	c.
Orient, bk.,	7 40	108 45	.81	var.	...	orq.
Serrano, bk.,	6 10	109 38	.83	S	2	orq.
Cromarty, str.,	6 9	107 10	.80	SSW	2	kc.
Wuotan, str.,	4 49	106 ...	.87	S	2	o.
Chelydra, str.,	3 23	105 29	.87	SW	1	k.
July 8th.						
Omba, str.,	40 7	142 1	29.82	NW	3	k.
John Baizley, bk.,	36 37	141 35	.82	NNW	1	k.
Tacoma, str.,	36 17	142 40	.74	NNW	4	c.
Telamon, str.,	35 25	139 39	.85	NE	3	cp.
Riojun Maru, str.,	35 33	123 13	.87	W	1	b.
Empress of Japan, str.,	35 24	139 42	.82	NE	4	op.
City of Peking, str.,	35 2	145 17	.74	var.	1	c.
Menmuir, str.,	34 40	135 12	.84	var.	2	k.
Verona, str.,	34 40	135 12	.77	...	0	k.
Hohenzollern, str.,	33 48	137 5	.70	ENE	3	c.
Yarra, str.,	32 39	131 24	.79	NE	4	c.
Ancona, str.,	30 5	126 13	.82	NNE	2	k.
Teyi, str.,	28 55	122 23	...	NE	2	k.
Belgic, str.,	28 36	123 54	...	NE	3	c.
Lifoo, str.,	28 15	122 0	.87	W	1	o.
Herman Wedell Jarlsberg, str.,	28 5	123 22	.86	NW	4	or.
Kwanglee, str.,	26 58	120 55	.82	NE	3	or.
Belmont, bk.,	26 6	120 59	...	NE	2	k.
Ernest Simons, str.,	23 8	117 20	.82	ESE	2	...
Ethiope, str.,	23 7	117 46	.80	...	0	f.
Hongkong, str.,	20 52	106 41	.80	W	3	...
Activ, str.,	20 5	110 20	.82	var.	1	m.
Devawongse, str.,	18 30	112 8	.88	SSW	4	k.
Lina, bk.,	18 10	113 52	.83	S	3	k.
Rubens, str.,	18 6	111 38	.86	SW	4	k.
Tai Cheong, str.,	17 25	113 52	.91	SW	2	...
Airlie, str.,	15 23	118 51	.87	NE	2	b.
Wm. le Lacheur, bk.,	15 2	110 59	...	S	4	k.
Sungkiang, str.,	14 35	120 57	.93	NW	2	c.
Picciola, str.,	11 58	109 20	.84	E	3	b.
Mascotte, str.,	11 1	109 7	.89	...	0	b.
Oopack, str.,	9 0	109 30	.86	NE	2	c.
Loosok, str.,	8 26	104 46	.90	...	0	k.
Orient, bk.,	8 24	109 16	.85	SE	2	o.
Gartha, bk.,	7 51	109 24	...	S	1	k.
Letimbro, str.,	7 20	107 28	...	S	2	k.
Chelydra, str.,	6 54	108 0	.90	SSE	1	c.
Serrano, bk.,	6 49	109 48	...	S	2	o.
Kong Beng, str.,	5 8	106 40	.85	SW	2	op.
Glenfarg, str.,	4 52	106 33	.88	SSW	2	b.
Kaisar-i-Hind, str.,	4 41	106 24	.87	N	2	orq.
July 9th.						
Riojun Maru, str.,	38 53	121 52	29.86	SE	2	b.
John Baizley, bk.,	37 2	141 36	.92	ENE	4	k.
Omba, str.,	36 36	141 13	.87	WSW	3	k.
Tejen, str.,	35 36	122 54	.95	...	0	k.
City of Peking, str.,	34 51	151 41	.78	NNE	2	o.
Verona, str.,	34 40	135 11	.80	E	3	k.
Empress of Japan, str.,	34 40	135 11	.87	SE	2	o.
Menmuir, str.,	34 40	135 11	.86	NE	6	or.
Yarra, str.,	34 3	130 38	.78	NE	3	c.
Teyi, str.,	32 13	128 6	.90	ENE	1	k.
Kwanglee, str.,	30 43	122 18	...	NE	2	b.
Herman Wedell Jarlsberg, str.,	25 47	120 24	...	S	3	or.
Belmont, bk.,	25 25	119 57	...	S	2	q.
Belgic, str.,	25 11	119 49	.72	S	3	c.
Lifoo, str.,	25 0	119 25	.81	SE	1	o.
Ethiope, str.,	23 36	120 7	.78	SW	2	og.
Activ, str.,	20 38	111 25	.80	S	4	c.
Lina, bk.,	19 43	113 40	.84	SW	5	k.
Airlie, str.,	19 8	116 20	.86	SW	1	b.
July 9th.						
Picciola, str.,	15° 41′	110° 24′	29.82	S	4	b.
Rubens, str.,	15 32	109 12	.80	S	2	k.
Devawongse, str.,	15 13	110 13	.86	S	4	k.
Wm. le Lacheur, bk.,	14 36	109 11	...	var.	2	k.
Sungkiang, str.,	14 35	120 57	.91	SW	2	c.
Mascotte, str.,	14 30	110 15	.85	S	3	c.
Tai Cheong, str.,	13 50	111 49	...	S	2	...
Oopack, str.,	13 11	112 3	.89	...	0	c.
Chelydra, str.,	10 58	110 26	.88	var.	1	k.
Loosok, str.,	10 26	108 6	.84	SSW	2	k.
Orient, bk.,	9 41	109 47	.84	S	6	orq.
Kaisar-i-Hind, str.,	8 46	109 11	.81	S	2	orq.
Serrano, bk.,	7 51	110 0	.81	SW	5	orq.
Gartha, bk.,	7 21	109 22	.84	S	2	oq.
Letimbro, str.,	4 11	105 55	.83	SSE	2	or.
Lyndhurst, sh.,	3 51	105 4	...	W	5	orq.
Kong Beng, str.,	1 38	104 30	.85	W	4	oq.
July 10th.						
Riojun Maru, str.,	38 53	121 51	29.91	SE	2	c.
John Baizley, bk.,	37 49	141 33	.92	E	2	k.
Teyi, str.,	36 1	122 55	.96	NE	1	k.
Yarra, str.,	34 40	135 11	.80	...	...	o.
City of Peking, str.,	34 21	157 55	.90	E	3	or.
Empress of India, str.,	34 21	135 1	.82	NE	5	or.
Verona, str.,	33 50	131 20	.79	NE	2	o.
Tacoma, str.,	33 46	136 30	.80	E	6	c.
Empress of Japan, str.,	33 45	131 51	.85	NE	2	o.
Tejen, str.,	32 10	123 20	.94	ESE	3	k.
Ethiope, str.,	28 27	122 49	.78	NE	2	...
Lyeemoon, str.,	27 56	121 36	.84	E	2	o.
Belmont, bk.,	24 57	120 1	...	SSW	4	k.
Herman Wedell Jarlsberg, str.,	23 27	117 38	...	SW	3	k.
Belgic, str.,	22 32	115 29	.71	SW	3	c.
Frejr, str.,	21 58	113 52	.80	SW	4	c.
Picciola, str.,	18 49	111 47	.79	S	4	b.
Mascotte, str.,	18 2	111 28	.83	S	3	c.
Oopack, str.,	17 33	113 30	.84	SE	2	c.
Wm. le Lacheur, bk.,	14 42	109 38	...	var.	5	k.
Sungkiang, str.,	14 35	120 57	.87	var.	2	c.
Chelydra, str.,	14 29	112 44	.85	S	1	k.
Loosok, str.,	14 13	110 8	.83	SW	1	k.
Kaisar-i-Hind, str.,	13 0	112 0	.79	SW	2	o.
Rubens, str.,	12 22	109 38	...	SSW	2	k.
Amigo, str.,	12 16	101 10	.78	SW	3	k.
Devawongse, str.,	11 37	109 13	.81	S	4	k.
Orient, bk.,	11 27	110 8	.82	WSW	5	k.
Tai Cheong, str.,	10 21	109 56	.86	SW	3	...
Serrano, bk.,	9 35	110 10	.81	SW	4	o.
Gartha, bk.,	5 55	110 12	.88	SSW	3	orp.
Lyndhurst, sh.,	5 3	106 30	...	NW	4	k.
July 11th.						
John Baizley, bk.,	39 4	142 13	30.16	ESE	1	...
Riojun Maru, str.,	35 36	124 43	29.88	SE	3	c.
Empress of India, str.,	34 45	139 13	.93	NE	8	or.
Ancona, str.,	34 37	134 58	.80	ENE	6	k.
City of Peking, str.,	33 56	164 11	30.02	SSE	4	c.
Yarra, str.,	33 33	136 32	.76	E	9	olq.
Tacoma, str.,	33 3	136 36	.73	E	11	c.
Strathleven, str.,	31 13	123 12	.86	E	3	c.
Ethiope, str.,	30 47	125 49	.85	NE	2	...
Tejen, str.,	28 56	122 14	.87	E	3	o.
Belmont, bk.,	25 1	119 40	...	SSW	5	...
Lyeemoon, str.,	24 23	118 48	.82	SW	3	o.
Ceylon, str.,	23 3	117 6	.83	S	1	c.
Picciola, str.,	21 41	113 37	.81	S	4	b.
Mascotte, str.,	21 1	113 18	.83	S	3	cp.
Frejr, str.,	20 14	111 6	.82	SSW	5	c.
Chelydra, str.,	18 21	113 30	.87	S	2	k.
Loosok, str.,	18 13	111 45	.83	SW	4	k.
Kaisar-i-Hind, str.,	17 41	113 18	.84	S	3	o.
Wm. le Lacheur, bk.,	14 45	109 41	...	S	5	k.
Orient, bk.,	13 28	109 56	.81	S	3	k.
Serrano, bk.,	11 16	110 36	29.83	SW	4	k.
Rubens, str.,	9 23	108 19	.82	SSW	4	k.
Devawongse, str.,	8 51	106 31	.86	WSW	5	orq.
Tai Cheong, str.,	7 1	108 4	.90	SW	3	...
Lyndhurst, sh.,	6 15	107 ...	...	var.	1	op.
Gartha, bk.,	5 6	110 46	.88	...	3	q.

JULY, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
July 12th.						
John Baizley, bk., ...	39° 30′	142° 25′	30.20	E	3	og.
Teyi, str., ...	38 53	118 4	29.90	SE	4	k.
Hohenzollern, str., ...	35 0	139 30	30.02	NNW	3	c.
Tacoma, str., ...	34 40	135 11	29.93	E	5	c.
Ancona, str., ...	34 40	135 11	.91	NE	4	k.
Telamon, str., ...	34 28	138 45	30.07	ENE	6	c.
Riojun Maru, str., ...	33 55	128 36	29.90	ENE	5	c.
Peru, str., ...	33 19	135 29	.95	E	5	cp.
City of Peking, str., .	33 1	170 40	30.18	SE	1	c.
Chingtu, str., ...	32 17	125 6	29.96	ENE	4	cm.
Ethiope, str., ...	32 15	129 19	.88	NE	2	...
Strathleven, str., ...	32 7	127 17	.89	ENE	2	c.
Empress of Japan, str., ...	31 44	125 23	.90	NE	4	o.
Verona, str., ...	30 12	126 22	.86	SE	3	k.
Tejen, str., ...	26 1	120 25	.91	SW	4	o.
Belmont, bk., ...	24 30	119 35	...	SW	5	...
Tailee, str., ...	23 47	118 15	.81	SE	2	k.
Lyeemoon, str., ...	23 19	114 44	.85	SW	2	cq.
Peiyang, str., ...	23 17	117 31	.88	S	1	c.
Loosok, str., ...	21 52	113 54	.84	SW	2	k.
Hongkong, str., ...	20 17	109 5	...	S	3	...
Yuensang, str., ...	19 27	116 39	.90	...	...	...
Changsha, str., ...	19 27	116 19	.87	S	4	c.
Orient, bk., ...	16 4	110 29	.82	S	4	k.
Sungkiang, str., ...	14 35	120 57	.92	var.	1	c.
Wm. le Lacheur, bk., .	14 34	109 49	...	S	5	k.
Serrano, bk., ...	13 25	110 32	.86	SSW	5	k.
Sishan, str., ...	12 24	109 25	.82	SSE	1	k.
Devawongse, str., ...	9 40	102 58	.86	NW	3	k.
Lyndhurst, sh., ...	6 37	107 37	...	var.	1	k.
Rubens, str., ...	6 17	106 56	...	S	1	k.
Gartha, bk., ...	4 18	110 50	.86	SW	2	c.
Kong Beng, str., ...	4 18	103 50	.85	var.	1	...
Wuotan, str., ...	4 5	105 35	.85	ENE	1	orq.
July 13th.						
John Baizley, bk., ...	41 18	142 41	30.20	E	4	og.
Tacoma, str., ...	34 40	135 11	29.96	NE	3	c.
Telamon, str., ...	34 40	135 11	30.01	S	2	b.
Ancona, str., ...	34 33	135 8	29.95	NE	1	k.
Riojun Maru, str., ...	33 57	132 29	.97	var.	2	b.
Chingtu, str., ...	33 52	129 5	30.02	ENE	5	cm.
City of Peking, str., .	31 31	176 31	.18	E	3	cq.
Peru, str., ...	30 59	130 35	29.94	E	4	c.
Khedive, str., ...	30 36	122 58	.84	ESE	3	k.
Verona, str., ...	26 54	122 11	.82	SW	4	k.
Tailee, str., ...	26 51	121 17	.77	SSW	4	k.
Peiyang, str., ...	26 44	120 53	.83	SW	4	c.
Belmont, bk., ...	24 11	119 34	...	SW	5	k.
Tejen, str., ...	23 54	118 0	.86	SW	5	k.
Oopack, str., ...	22 25	115 25	.88	S	4	c.
Zafiro, str., ...	22 ...	119 ...	.87	SW	4	c.
Arratoon Apcar, str., .	18 51	113 32	.87	S	...	k.
Orient, bk., ...	18 2	111 34	.86	S	2	k.
Yuensang, str., ...	16 16	119 30	.91	S	3	cp.
Sishan, str., ...	16 5	111 2	.85	SSE	2	k.
Changsha, str., ...	15 48	118 58	.87	SSE	4	op.
Serrano, bk., ...	15 33	110 22	.86	S	5	k.
Sungkiang, str., ...	14 35	120 57	.96	WNW	2	c.
Lacheur, bk., ...	14 24	109 30	...	SSE	4	k.
Amigo, str., ...	11 52	109 10	.82	NW	3	o.
Kong Beng, str., ...	8 36	102 22	.87	var.	1	k.
Wuotan, str., ...	7 42	106 49	.88	SSE	1	c.
Lyndhurst, sh., ...	7 37	107 41	...	WSW	2	k.
Fred. P. Litchfield, bk., .	5 13	141 40	...	...	0	od.
Gartha, bk., ...	3 30	110 43	.84	ESE	1	k.
Rubens, str., ...	2 53	105 20	...	...	0	k.
July 14th.						
John Baizley, bk., ...	41 36	139 12	30.13	E	4	...
Ancona, str., ...	34 43	139 6	29.92	NE	4	k.
Telamon, str., ...	34 40	135 11	.93	WSW	4	c.
Riojun Maru, str., ...	34 22	132 28	.93	S	1	b.
Tacoma, str., ...	33 54	131 8	.95	var.	2	b.
Peiyang, str., ...	30 37	122 26	.71	SE	2	c.
Kwanglee, str., ...	30 31	122 29	.72	S	4	f.
Tailee, str., ...	30 25	123 13	.71	SW	4	k.
Khedive, str., ...	26 34	120 49	.82	SW	5	k.
Empress of Japan, str., ...	26 25	120 42	.82	SSW	6	o.
Oopack, str., ...	25 4	119 40	.86	SW	4	c.
July 14th.						
Victoria, str., ...	24° 10′	118° 40′	29.86	SW	4	k.
Kaisar-i-Hind, str., .	24 2	118 32	.85	S	2	f.
Belmont, bk., ...	24 0	118 42	...	SW	5	k.
Pallas, str., ...	23 41	118 3	.89	ESE	3	k.
Chi Yuen, str., ...	23 15	117 19	.90	S	1	k.
Holstein, str., ...	22 2	113 54	.86	SSW	1	k.
Ask, str., ...	21 48	113 39	.93	SSW	3	k.
Hongkong, str., ...	20 33	111 27	...	S	2	...
Orient, bk., ...	19 36	113 21	.84	S	2	k.
Sishan, str., ...	19 35	112 49	.86	SE	2	k.
Serrano, bk., ...	17 30	110 45	.86	S	5	k.
Ceylon, str., ...	17 27	113 51	.86	SSE	4	c.
Zafiro, str., ...	17 ...	120 ...	.88	S	2	c.
Amigo, str., ...	15 51	110 10	.79	SE	3	k.
Arratoon Apcar, str.,	15 1	112 41	...	SSW	...	k.
Sungkiang, str., ...	14 35	120 57	.92	S	2	c.
Wm. le Lacheur, bk.,	14 33	109 44	...	SSE	5	o.
Kong Beng, str., ...	12 19	100 52	.84	SW	3	k.
Changsha, str., ...	11 49	121 1	.86	SSE	2	c.
Framnes, str., ...	10 45	102 2	.88	W	4	op.
Lyndhurst, sh., ...	9 9	108 41	.79	S	4	k.
Phra Nang, str., ...	9 2	103 41	.81	S	2	...
Fred. P. Litchfield, bk., .	5 52	142 11	...	SW	2	k.
July 15th.						
John Baizley, bk., ...	41 54	137 3	29.94	E	4	k.
Ching Ping, str., ...	38 42	118 33	.62	SW	4	k.
Omba, str., ...	36 7	141 6	...	NE	6	k.
Telamon, str., ...	34 40	135 11	.85	WSW	4	c.
Menmuir, str., ...	34 40	135 11	.85	SW	5	k.
Tailee, str., ...	34 24	123 26	.56	NNW	5	c.
Riojun Maru, str., ...	34 22	132 28	.81	SW	1	c.
Tacoma, str., ...	33 58	130 56	.74	var.	3	c.
Chingtu, str., ...	33 46	132 3	.83	ESE	4	c.
Ethiope, str., ...	32 21	129 24	.71	S	6	og.
Strathleven, str., ...	31 31	132 5	.82	SE	3	k.
Peru, str., ...	30 17	126 15	.74	S	4	cp.
Oopack, str., ...	28 27	122 0	.68	SW	5	o.
Kaisar-i-Hind, str., .	28 10	122 2	.69	SW	4	om.
Kwanglee, str., ...	27 20	120 45	.70	SW	4	m.
Pallas, str., ...	26 35	122 48	.69	S	3	k.
Chi Yuen, str., ...	26 23	120 31	.82	SSW	4	o.
Belmont, bk., ...	23 27	118 3	...	SSW	4	k.
Khedive, str., ...	23 20	117 38	.84	SW	2	c.
Empress of Japan, str., .	22 33	115 45	.84	WSW	2	o.
Verona, str., ...	22 15	114 17	.83	S	2	k.
Orient, bk., ...	20 42	114 30	.83	SSE	4	k.
Amigo, str., ...	19 15	111 51	.78	SSE	3	k.
Serrano, bk., ...	19 15	112 4	.83	SSW	5	c.
Holstein, str., ...	19 14	112 14	.84	S	4	k.
Sungkiang, str., ...	14 35	120 57	.90	W	2	c.
Wm. le Lacheur, bk.,	14 27	109 27	...	S	4	k.
Ceylon, str., ...	12 59	111 38	.86	SSW	4	c.
Arratoon Apcar, str.,	11 36	110 31	.86	SW	...	k.
Lyndhurst, sh., ...	10 23	109 43	.79	W	4	k.
Phra Nang, str., ...	9 51	107 22	.81	ESE	1	...
Framnes, str., ...	8 20	104 55	.89	S	3	c.
Alice Mary, bk., ...	8 10	105 32	...	S	2	k.
Fred. P. Litchfield, bk.,	7 57	142 57	...	WSW	3	q.
Changsha, str., ...	7 28	121 49	.86	S	3	c.
Mogul, str., ...	5 18	106 36	.83	SSE	2	k.
July 16th.						
Fram, str., ...	51 14	140 52	29.80	S	5	f.
Baizley, bk., ...	42 31	134 3	.68	ENE	5	od.
Omba, str., ...	39 15	142 4	...	SE	4	k.
Telamon, str., ...	34 40	135 11	.71	SW	2	op.
Riojun Maru, str., ...	34 22	132 28	.59	SE	2	or.
Menmuir, str., ...	34 0	130 51	.65	SW	4	or.
Hohenzollern, str., ...	33 51	131 12	.55	S	1	og.
Tacoma, str., ...	33 36	129 36	.61	W	3	cr.
Strathleven, str., ..	33 35	137 4	.82	ESE	2	od.
Bygdo, str., ...	31 5	122 2	...	S	3	o.
Ethiope, str., ...	30 49	126 22	.65	SW	2	k.
Glenesk, str., ...	30 24	122 33	...	SE	2	k.
Chi Yuen, str., ...	29 52	122 36	.73	S	1	o.
Pallas, str., ...	29 35	127 2	.71	SW	2	k.
Peru, str., ...	26 59	122 22	.75	SW	6	c.
Kwanglee, str., ...	24 15	118 36	.76	SW	4	b.
Nanyang, str., ...	23 30	117 46	.81	S	1	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 16th.						
Belmont, bk.,	22° 54′	117° 30′	...	W	4	k.
Orient, bk.,	21 42	116 5	29.84	var.	5	k.
Ask, str.,	21 2	109 11	.78	SW	4	k.
Serrano, bk.,	20 52	113 13	.81	SW	4	k.
Frejr, str.,	20 39	111 35	.81	S	3	b.
Holstein, str.,	16 27	110 28	.81	S	2	k.
Sungkiang, str.,	14 35	120 57	.81	SSW	4	cq.
Wm. le Lacheur, bk.,	14 15	109 57	...	SW	2	k.
Phra Nang, str.,	13 24	109 52	.66	SW	1	...
Lyndhurst, sh.,	11 53	111 39	.81	SW	4	k.
Framnes, str.,	10 24	108 4	.91	SE	2	k.
Fred. P. Litchfield, bk.,	9 45	141 4	...	WSW	5	q.
Alice Mary, bk.,	9 2	106 53	...	var.	1	k.
Ceylon, str.,	8 57	109 17	.88	SW	4	cv.
Mogul, str.,	8 36	109 5	.81	var.	4	k.
Arratoon Apcar, str.,	8 17	109 7	.92	SW	...	k.
George F. Manson, bk.,	3 37	105 12	.80	S	3	k.
Changsha, str.,	3 35	123 59	.86	...	0	c.
Parimata, sh.,	2 30	125 8	...	var.	1	or.
July 17th.						
Fram, str.,	47 12	139 40	29.84	NE	1	c.
John Baizley, bk.,	42 45	132 10	...	SSW	5	...
Omba, str.,	41 25	140 0	...	NE	3	...
Chingping, str.,	35 50	122 45	.76	SW	2	k.
Riojun Maru, str.,	34 22	132 28	.69	SSE	1	or.
Telamon, str.,	33 59	130 54	.63	NE	2	op.
Menmuir, str.,	31 35	126 47	.68	SW	4	m.
Peiyang, str.,	31 18	122 20	.69	NNW	3	c.
Tacoma, str.,	30 42	125 50	.64	W	3	c.
Bayern, str.,	30 31	122 29	.71	NNW	3	orq.
Bygdo, str.,	29 17	122 36	.70	SW	1	o.
Ethiope, str.,	29 0	123 30	.61	SW	3	k.
Nanyang, str.,	27 7	121 7	.80	S	2	c.
Glenesk, str.,	26 45	121 0	...	SW	6	k.
Peru, str.,	24 0	118 39	.76	SSW	4	c.
Lifoo, str.,	23 7	117 16	.81	SW	1	k.
Orient, bk.,	23 2	117 40	.75	SW	2	k.
Loosok, str.,	22 55	113 48	.80	SW	4	k.
Belmont, bk.,	22 29	117 9	...	WSW	4	k.
Victoria, str.,	22 26	115 24	.77	SW	3	b.
Kwanglee, str.,	22 20	114 46	.79	WSW	2	b.
Phra Nang, str.,	17 39	111 7	.77	S	2	k.
Esmeralda, str.,	16 18	118 54	.77	var.	1	k.
Sungkiang, str.,	14 35	120 57	.88	W	2	c.
Framnes, str.,	13 49	109 49	.83	SE	1	k.
Lyndhurst, sh.,	13 47	119 2	.81	S	5	k.
China, str.,	12 13	109 26	.80	E	2	k.
Mogul, str.,	12 5	111 28	...	SW	4	k.
Fred. P. Litchfield, bk.,	11 56	140 9	...	var.	6	orq.
Holstein str.,	10 28	107 38	.83	SW	2	...
Alice Mary, bk.,	9 36	108 32	...	SW	2	k.
Ceylon, str.,	5 2	106 25	.87	SW	2	cpv.
Arratoon Apcar, str.,	4 57	106 36	.87	SW	...	k.
George F. Manson, bk.,	4 24	105 32	.90	S	3	k.
Parimata, sh.,	3 49	124 30	...	W	1	c.
July 18th.						
Fram, str.,	43 52	136 37	29.88	NE	5	ofr.
Omba, str.,	43 11	141 5	...	var.	1	m.
Peiyang, str.,	35 47	122 40	.79	S	2	c.
Riojun Maru, str.,	34 22	132 28	.65	...	0	or.
Telamon, str.,	32 28	126 8	.80	NE	2	bm.
Ching Ping, str.,	32 22	122 45	.84	E	3	or.
Hohenzollern, str.,	30 0	126 4	.73	N	1	c.
Menmuir, str.,	28 44	123 20	.81	SW	2	k.
Tacoma, str.,	27 38	122 20	.76	SW	3	bv.
Ethiope, str.,	26 45	121 3	.70	SW	2	k.
Bygdo, str.,	26 19	120 34	.78	SW	2	k.
Lifoo, str.,	26 9	120 30	.78	S	2	k.
Orient, bk.,	24 31	119 13	.74	SSW	5	k.
Belmont, bk.,	22 32	117 0	...	W	1	...
Activ, str.,	21 35	113 18	.72	SE	4	c.
Phra Nang, str.,	21 24	113 37	.72	SW	2	...
Loosok, str.,	20 5	110 20	.77	SW	1	k.
Esmeralda, str.,	18 48	116 20	.72	WSW	3	k.
Framnes, str.,	17 44	110 52	.76	SE	2	c.
China, str.,	16 21	110 29	.75	...	0	k.
Lyndhurst, sh.,	15 57	112 59	.81	SW	2	k.
July 18th.						
Mogul, str.,	15° 47′	113° 8′	...	SW	2	k.
Sungkiang, str.,	14 35	120 57	29.82	var.	1	c.
Wm. le Lacheur bk.,	13 48	110 10	...	var.	2	k.
Fred. P. Litchfield, bk.,	13 24	139 30	...	W	6	or.
Alice Mary, bk.,	11 43	110 38	...	SW	2	o.
Parimata, sh.,	5 22	123 40	...	W	2	k.
George F. Manson, bk.,	5 6	105 40	.90	SW	2	k.
July 19th.						
Omba, str.,	43 11	141 5	...	var.	1	m.
Fram, str.,	40 10	134 14	29.94	N	1	c.
Peiyang, str.,	39 38	121 12	.78	SSW	3	c.
Riojun Maru, str.,	34 22	132 28	.83	...	0	or.
Lifoo, str.,	29 45	122 35	.79	S	2	k.
Ching Ping, str.,	29 10	122 30	.78	SSW	3	k.
Victoria, str.,	26 57	120 58	.76	var.	1	b.
Hohenzollern, str.,	26 43	121 37	.74	S	2	c.
Menmuir, str.,	25 32	120 19	.82	SW	2	k.
Orient, bk.,	25 28	120 23	.78	W	2	k.
Tacoma, str.,	24 32	118 59	.77	SW	4	b.
Ethiope, str.,	24 30	118 48	.72	SW	2	k.
Bygdo, str.,	24 1	118 3	.78	SW	2	k.
Toonan, str.,	23 14	117 28	.78	var.	1	b.
Belmont, bk.,	22 32	116 41	...	NW	1	k.
Frejr, str.,	21 45	113 30	.73	WSW	2	c.
Chelydra, str.,	21 12	113 53	.79	SW	3	b.
Framnes, str.,	20 59	113 16	.75	SE	1	c.
Chunshan, str.,	20 27	115 44	.78	SSW	4	k.
Activ, str.,	20 10	110 22	.75	W	2	c.
Mogul, str.,	19 43	113 37	...	var.	2	k.
China, str.,	19 39	112 41	.76	...	0	k.
Lyndhurst, sh.,	16 49	113 14	.83	var.	1	k.
Fred. P. Litchfield, bk.,	14 58	138 43	...	WSW	9	orq.
Sungkiang, str.,	14 35	120 57	.77	WSW	4	c.
Wm. le Lacheur, bk.,	13 47	110 8	...	SSW	2	k.
Alice Mary, bk.,	12 54	112 12	...	SW	1	k.
George F. Manson, bk.,	6 31	106 26	.80	SW	3	q.
Parimata, sh.,	6 9	123 0	...	SW	1	orq.
July 20th.						
Omba, str.,	43 11	141 5	...	var.	4	k.
Fram, str.,	36 32	131 35	...	E	3	ofr.
Ancona, str.,	35 9	139 41	29.91	N	2	o.
Riojun Maru, str.,	34 22	132 28	.80	...	0	c.
Victoria, str.,	31 23	121 35	.70	NE	3	or.
Orient, bk.,	26 26	121 4	.74	var.	1	...
Toonan, str.,	26 25	120 41	.75	var.	1	c.
Ching Ping, str.,	26 12	120 45	.76	SW	1	k.
Glenesk, str.,	26 5	120 2	...	var.	4	k.
Bayern, str.,	25 20	119 56	.73	SSW	2	c.
Verona, str.,	24 3	118 27	.75	SSW	2	k.
Lyeemoon, str.,	23 47	118 5	.72	S	2	b.
Hohenzollern, str.,	23 28	117 39	.69	SW	2	f.
Menmuir, str.,	23 6	117 6	.76	SW	2	f.
Ethiope, str.,	22 44	116 3	.76	SW	2	k.
Belmont, bk.,	22 35	116 44	...	WSW	1	...
Bygdo, str.,	22 22	115 5	.74	...	0	k.
Tacoma, str.,	22 22	115 1	.74	SW	2	c.
Activ, str.,	21 29	109 5	.68	WNW	2	oq.
Ask, str.,	20 34	111 36	.74	SE	2	k.
Frejr, str.,	20 10	110 28	.68	N	3	b.
Lyndhurst, sh.,	17 40	113 33	...	SW	2	k.
Loosok, str.,	17 28	108 28	.75	...	0	o.
Chelydra, str.,	16 58	113 38	.75	S	1	c.
Chunshan, str.,	16 37	113 51	.72	S	3	k.
Sungkiang, str.,	16 23	118 50	.81	SW	3	c.
Fred. P. Litchfield, bk.,	15 54	137 10	...	SW	7	q.
Alice Mary, bk.,	14 8	112 57	...	SW	1	k.
Wm. le Lacheur, bk.,	13 55	109 42	...	var.	2	k.
Wuotan, str.,	12 ...	109 ...	.72	SSE	1	c.
George F. Manson, bk.,	7 55	107 32	.70	SW	5	orq.
Parimata, sh.,	6 42	122 10	...	SW	1	o.
Bengloe, str.,	3 32	105 54	...	WSW	5	k.
July 21st.						
Omba, str.,	39 1	141 57	...	NE	4	m.
Riojun Maru, str.,	34 22	132 28	29.78	...	0	b.
Ancona, str.,	34 2	135 2	.84	NNW	2	k.
Oopack, str.,	31 30	124 17	.68	...	0	or.
Pallas, str.,	31 24	128 20	.79	SW	2	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 21st.						
Victoria, str.,	31° 17′	121° 47′	29.68	...	0	op.
Toonan, str.,	30 17	122 35	.72	var.	2	c.
Lyeemoon, str.,	27 40	121 26	.73	...	0	c.
Verona, str.,	27 16	122 35	.72	...	0	k.
Japan, str.,	27 12	121 12	.71	S	2	k.
Orient, bk.,	26 58	121 22	.74	...	0	...
Ching Ping, str.,	23 50	118 11	.72	...	0	m.
Fushun, str.,	23 21	117 35	.71	...	0	k.
Glenesk, str.,	23 9	117 21	...	SW	2	k.
Bayern, str.,	22 28	115 10	.72	SW	2	o.
Belmont, bk.,	22 13	116 33	...	W	1	k.
Activ, str.,	20 10	110 8	.71	WNW	2	oq.
Sungkiang, str.,	19 42	116 10	.79	NW	2	c.
Lyndhurst, sh.,	18 24	113 36	...	var.	2	k.
Fred. P. Litchfield, bk.,	16 44	135 20	...	SSW	7	...
Wuotan, str.,	15 17	110 0	.72	SE	1	b.
Alice Mary, bk.,	15 4	113 35	...	SW	1	c.
Wm. le Lacheur, bk.,	13 51	109 52	...	SSW	1	k.
Loosok, str.,	13 49	109 21	.74	...	0	o.
Chunshan, str.,	13 13	111 26	.72	SSW	4	k.
Chelydra, str.,	13 5	111 45	.75	SW	5	c.
George F. Manson, bk.,	9 15	109 50	.80	SW	5	k.
Donar, str.,	8 30	105 33	.87	WNW	5	c.
Parimata, sh.,	7 2	122 ...	...	...	0	o.
Bengloe, str.,	6 56	108 4	...	SW	5	or.
Shantung, str.,	4 10	108 47	.91	SW	3	or.
Kutsang, str.,	3 50	105 51	.90	SW	3	o.
July 22nd.						
Strathleven, str.,	37 59	141 42	29.69	NNE	2	op.
Omba, str.,	36 51	141 34	...	NE	4	f.
Ancona, str.,	34 40	135 11	.65	NE	2	k.
Chingtu, str.,	34 40	135 11	.68	N	5	c.
Riojun Maru, str.,	34 17	138 33	.68	E	2	c.
Victoria, str.,	32 48	127 9	.69	ENE	4	op.
Verona, str.,	30 29	126 29	.68	ENE	4	o.
Pallas, str.,	28 55	124 35	.69	S	2	k.
Orient, bk.,	27 31	121 44	.71	SW	2	...
Fushun, str.,	26 58	120 27	.68	NNE	2	o.
Japan, str.,	23 46	117 58	.67	var.	1	c.
Ching Ping, str.,	22 21	114 53	.68	WSW	3	k.
Belmont, bk.,	22 0	116 13	...	WSW	1	...
Activ, str.,	20 5	110 20	.67	N	2	oq.
Lyndhurst, sh.,	19 13	113 37	...	WSW	2	k.
Wuotan, str.,	19 ...	112 ...	.69	SSW	1	c.
Fred. P. Litchfield, bk.,	17 23	134 40	...	SSW	5	q.
Alice Mary, bk.,	16 3	114 16	...	W	5	q.
Wm. le Lacheur, bk.,	13 56	109 52	...	SSW	4	k.
George F. Manson, bk.,	11 55	111 30	...	SSW	6	p.
Chunshan, str.,	11 7	109 27	...	SW	7	orq.
Donar, str.,	10 54	109 0	.87	SSW	6	or.
Loosok, str.,	10 28	109 32	...	SW	5	o.
Chelydra, str.,	10 20	110 44	.81	SW	7	o.
Bengloe, str.,	10 9	110 26	...	...	6	k.
Parimata, sh.,	8 ...	121 30	...	...	0	o.
Shantung, str.,	7 33	109 41	.85	W	6	o.
Kutsang, str.,	7 15	108 16	.86	SW	3	or.
Rohilla, str.,	4 25	106 7	.90	WSW	4	c.
Bisagno, str.,	3 58	105 47	.90	WSW	3	k.
July 23rd.						
Strathleven, str.,	41 12	141 31	29.76	E	3	o.
Omba, str.,	34 59	139 42	...	N	8	or.
Ancona, str.,	34 40	135 11	.79	NE	2	k.
Victoria, str.,	33 58	139 56	.77	NE	3	c.
Chingtu, str.,	32 18	132 56	.84	SSW	2	c.
Hertha, str.,	32 13	132 31	.76	W	1	c.
Fushun, str.,	30 15	122 34	.76	E	2	k.
Orient, bk.,	27 57	121 46	.70	NE	4	k.
Pallas, str.,	26 15	121 10	.67	W	3	k.
Tejen, str.,	22 29	115 14	.66	S	1	...
Belmont, bk.,	22 17	115 40	...	W	1	...
Wuotan, str.,	22 ...	114 ...	.66	WSW	2	c.
Bayern, str.,	21 4	113 23	.69	SW	3	c.
Activ, str.,	20 32	111 20	.66	SSE	2	c.
Lyndhurst, sh.,	20 1	113 48	...	SW	2	k.
Fred. P. Litchfield, bk.,	17 31	133 19	...	SSW	4	k.
Alice Mary, bk.,	17 23	114 21	...	WSW	2	k.
Donar, str.,	14 34	110 26	.71	WSW	4	b.
Yuensang, str.,	14 32	120 48	.80	WSW	6	orq.
July 23rd.						
George F. Manson, bk.,	13° 47′	111° 28′	...	SW	5	...
Bengloe, str.,	13 32	112 58	...	...	4	o.
Wm. le Lacheur, bk.,	12 50	110 25	...	SW	6	k.
Shantung, str.,	10 44	110 55	29.72	WSW	7	o.
Kutsang, str.,	10 44	110 41	.74	WSW	4	b.
Propontis, str.,	10 38	109 5	.70	SW	5	m.
Parimata, sh.,	9 21	120 55	...	SE	4	or.
Chunshan, str.,	9 0	106 58	...	WSW	5	...
Rohilla, str.,	8 25	108 39	.81	W	4	...
Loosok, str.,	8 1	107 32	.81	SW	5	oq.
Chelydra, str.,	7 37	108 47	.84	WSW	5	o.
Bisagno, str.,	7 3	108 3	.82	W	4	op.
Tai Cheong, str.,	2 40	105 5	...	SW	1	...
July 24th.						
Victoria, str.,	34 24	134 16	29.79	ESE	4	o.
Ancona, str.,	33 58	131 2	.46	ENE	7	oq.
Verona, str.,	33 56	130 54	.39	ENE	9	orq.
Coptic, str.,	32 30	134 34	.81	SSE	5	c.
Chingtu, str.,	31 30	130 30	.48	WSW	12	urq.
Hertha, str.,	31 13	131 34	.47	SSW	10	orq.
Crown of Arragon, str.,	30 42	127 41	.62	WNW	...	...
Orient, bk.,	28 6	122 10	.76	...	0	...
Tejen, str.,	24 12	118 42	.75	...	0	m.
Pallas, str.,	23 37	117 58	.77	SE	2	k.
Braemar, str.,	23 36	118 5	.71	...	0	k.
Belmont, bk.,	22 27	115 34	...	E	1	or.
Ask, str.,	21 59	113 52	.67	S	2	k.
Esmeralda, str.,	19 44	116 4	.77	ESE	5	c.
Donar, str.,	18 27	111 37	.71	SE	3	c.
Alice Mary, bk.,	17 49	114 7	...	...	0	k.
Bengloe, str.,	17 28	113 24	...	N	1	k.
Fred. P. Litchfield, bk.,	17 20	132 9	...	SE	2	k.
Bayern, str.,	16 38	110 17	.71	SSW	2	b.
Yuensang, str.,	15 9	119 44	.76	NE	...	c.
George F. Manson, bk.,	15 9	114 40	...	S	4	k.
Kutsang, str.,	14 36	112 57	.74	N	3	og.
Shantung, str.,	14 15	112 27	.69	var.	2	k.
Rohilla, str.,	12 32	111 36	.67	W	3	o.
Wm. le Lacheur, bk.,	12 3	110 23	...	SW	2	o.
Parimata, sh.,	11 25	121 15	...	SSW	3	o.
Bisagno, str.,	10 25	110 8	.74	SW	5	om.
Propontis, str.,	8 8	107 28	.75	WSW	3	o.
Tai Cheong, str.,	5 58	107 6	...	W	5	orq.
Chunshan, str.,	5 23	105 53	.80	SW	4	orq.
Chelydra, str.,	4 28	106 10	.83	WSW	3	c.
July 25th.						
Tailee, str.,	38 12	121 43	29.83	S	2	o.
Victoria, str.,	34 40	135 11	.73	SW	5	c.
Verona, str.,	33 59	131 2	.95	ESE	2	k.
Orestes, str.,	33 35	136 27	.84	SW	8	k.
Fram, str.,	33 35	128 35	.94	SW	5	c.
Ancona, str.,	33 28	129 37	.91	WSW	2	k.
Coptic, str.,	31 1	130 48	.91	...	4	k.
Telamon, str.,	30 0	122 39	.86	S	5	c.
Hertha, str.,	29 43	129 30	.90	WSW	4	...
Chingtu, str.,	29 42	127 14	.96	SW	2	c.
Orient, bk.,	29 3	122 54	.86	S	3	o.
Tejen, str.,	26 57	120 56	.82	...	0	k.
Braemar, str.,	26 7	121 30	...	NE	2	k.
Kwanglee, str.,	23 14	116 51	.80	NE	3	...
Donar, str.,	21 50	113 43	.80	ENE	6	cq.
Alice Mary, bk.,	19 37	113 49	...	E	1	opq.
Kutsang, str.,	18 33	113 39	.75	var.	3	op.
Yuensang, str.,	18 28	117 12	.76	...	...	cp.
Shantung, str.,	17 48	113 14	.70	var.	2	...
Rohilla, str.,	16 54	113 35	.73	N	1	m.
Fred. P. Litchfield, bk.,	16 45	129 45	...	ENE	4	k.
Esmeralda, str.,	16 44	118 12	.77	S	4	or.
George F. Manson, bk.,	16 4	114 39	...	S	3	...
Parimata, sh.,	13 8	120 3	...	SW	6	orq.
Bayern, str.,	11 29	109 8	.75	SSW	2	o.
Wm. le Lacheur, bk.,	10 51	110 53	...	var.	1	or.
Tai Cheong, str.,	9 13	109 40	.83	SW	4	...
Devawongse, str.,	8 43	106 11	.82	NW	5	oq.
Loosok, str.,	4 56	106 0	.85	S	2	oq.
Propontis, str.,	4 46	106 8	.81	WSW	2	k.
Breconshire, str.,	3 57	105 42	.87	SSW	4	c.
Guthrie, str.,	3 50	124 0	.90	var.	1	o.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For. 0-12	Weather.
	July 26th.					
			ins.			
Empress of China, str.,	42° 16′	148° 54′	29.68	NNE	4	c.
Verona, str.,	34 40	135 11	.87	E	2	o.
Riojun Maru, str.,	34 40	135 11	.79	NE	1	b.
Victoria, str.,	34 40	135 11	.82	S	4	c.
Tailee, str.,	34 39	123 5	.76	S	2	k.
Oopack, str.,	33 45	132 18	.88	SW	2	or.
Arroyo, str.,	32 15	132 48	.93	WSW	2	o.
Fram, str.,	31 33	125 33	.88	SW	5	o.
Ancona, str.,	31 17	127 51	.87	SSW	3	o.
Lifoo, str.,	30 29	122 30	.77	S	3	c.
Tejen, str.,	29 52	122 38	.80	SSW	2	k.
Hertha, str.,	28 45	125 55	.83	S	4	c.
Chingtu, str.,	27 30	123 45	.86	S	4	c.
Braemar, str.,	27 24	125 50	...	SSE	4	k.
Telamon, str.,	26 24	120 33	.87	S	2	b.
Kwanglee, str.,	26 11	120 33	.81	NE	2	b.
Empress of Japan, str.,	25 15	119 51	.81	var.	1	o.
Yuensang, str.,	22 0	114 41	.76	S	...	...
Activ, str.,	21 54	113 45	.77	E	3	c.
Alice Mary, bk.,	21 44	113 50	...	E	...	orq.
Shantung, str.,	21 36	113 55	.75	E	4	k.
Frejr, str.,	20 32	111 20	.70	SE	2	og.
Ask, str.,	20 25	108 15	.66	W	1	p.
Framnes, str.,	19 54	112 20	.72	S	2	cq.
Keong Wai, str.,	19 12	112 9	.76	SSE	4	cqg.
Bisagno, str.,	17 41	114 0	.74	SSE	2	k.
George F. Manson, bk.,	17 40	114 33	...	S	3	...
Fred. P. Litchfield, bk.,	17 27	126 15	...	E	3	p.
Parimata, sh.,	14 54	118 2	...	SW	...	o.
Tai Cheong, str.,	12 42	111 51	.81	SW	2	...
Wm. le Lacheur, bk.,	11 46	111 11	...	var.	4	o.
Devawongse, str.,	11 41	106 14	.90	SW	3	k.
Guthrie, str.,	7 21	121 52	.85	SW	5	q.
Bayern, str.,	6 50	106 35	.88	SW	5	or.
Breconshire, str.,	6 36	107 30	.89	var.	3	o.
Loosok, str.,	1 23	104 24	.90	S	1	oq.
	July 27th.					
Empress of China, str.,	38 51	142 16	29.79	S	2	b.
Peiyang, str.,	36 7	122 53	.58	SE	4	c.
Riojun Maru, str.,	34 40	135 11	.76	SW	2	or.
Verona, str.,	34 40	135 11	.78	W	2	o.
Victoria, str.,	33 40	139 7	.75	var.	1	o.
Tejen, str.,	33 24	122 57	.72	SSW	4	k.
Tailee, str.,	31 42	123 48	.73	S	5	o.
Arroyo, str.,	31 0	131 0	.91	SW	3	p.
Empress of Japan, str.,	30 42	122 20	.74	SSW	4	k.
Kwanglee, str.,	30 15	122 35	.76	SSW	3	m.
Coptic, str.,	29 43	125 48	.82	SW	4	c.
Braemar, str.,	29 30	130 44	...	S	3	k.
Fram, str.,	29 25	123 23	.84	S	5	c.
Taisang, str.,	28 48	122 3	...	S	6	c.
Ancona, str.,	28 27	124 9	.81	S	4	c.
Lifoo, str.,	27 24	121 15	.79	SE	3	c.
Hertha, str.,	27 0	122 2	.73	S	5	c.
Chingtu, str.,	25 35	120 15	.74	...	0	c.
Mascotte, str.,	23 37	117 37	.74	...	0	b.
Bygdo, str.,	22 20	115 10	.70	ENE	2	k.
Bisagno, str.,	21 31	114 27	.74	NNE	1	c.
Activ, str.,	20 14	110 42	.71	E	2	c.
Fred. P. Litchfield, bk.,	19 25	122 51	...	SE	3	k.
George F. Manson, bk.,	18 40	114 20	...	S	2	...
Tai Cheong, str.,	16 46	113 7	.76	S	1	...
Framnes, str.,	16 20	110 30	.69	S	2	q.
Parimata, sh.,	16 9	116 24	...	W	9	orq.
Devawongse, str.,	15 46	110 22	.74	WSW	4	k.
Keong Wai, str.,	15 31	110 27	.78	S	4	c.
Wm le Lacheur, bk.,	12 24	109 53	...	SSW	4	k.
Guthrie, str.,	11 25	121 19	.90	N	1	orq.
Breconshire, str.,	9 3	109 32	.82	W	4	c.
Kong Beng, str.,	8 24	105 35	.80	SW	3	c.
George S. Homer, bk.,	8 26	109 20	...	SW	5	o.
Aden, str.,	5 58	105 45	.90	W	4	oq.
Bayern, str.,	1 56	104 33	.91	SW	3	o.
	July 28th.					
Tejen, str.,	36 51	122 45	29.73	...	0	o.
Empress of China, str.,	34 54	139 45	.82	...	0	b.
Riojun Maru, str.,	34 40	135 11	.86	...	0	c.
Verona, str.,	34 29	138 22	.84	...	0	o.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For. 0-12	Weather.
	July 28th.					
			ins.			
Braemar, str.,	33° 3′	134° 10′	...	WSW	5	k.
Peiyang, str.,	32 23	123 11	29.77	SSW	4	...
Empress of Japan, str.,	31 35	124 17	.79	S	4	k.
Strathleven, str.,	29 58	137 59	.78	...	0	k.
Arroyo, str.,	29 11	127 41	.81	SSW	3	o.
Tailee, str.,	29 2	122 48	.80	SSW	5	kq.
Lyeemoon, str.,	28 40	121 56	.80	S	5	c.
Nanyang, str.,	28 4	121 45	.84	S	5	o.
Rosetta, str.,	27 51	121 34	.75	S	5	og.
Fram, str.,	27 31	121 45	.84	S	5	c.
Coptic, str.,	26 14	121 4	.74	SSW	4	c.
Mascotte, str.,	26 7	120 28	.80	SW	1	b.
Ancona, str.,	25 46	120 35	.77	SW	3	k.
Taisang, str.,	25 45	119 56	...	S	4	c.
Hertha, str.,	24 23	118 53	.73	S	2	bl.
Lifoo, str.,	24 18	118 50	.78	S	3	c.
Bygdo, str.,	24 8	118 15	.78	NE	4	k.
Rohilla, str.,	23 32	117 42	.74	ESE	4	orq.
Chingtu, str.,	23 11	117 7	.74	ESE	4	uq.
Alcedo, sh.,	21 48	114 38	.22	ESE	10	q.
Activ, str.,	21 29	109 5	.61	W	4	o.
Fred. P. Litchfield, bk.,	20 16	120 55	...	SSE	6	or.
George F. Manson, bk.,	20 10	114 20	.20	W	10	...
Phra Chom Klao, str.,	20 10	110 28	.69	var.	4	or.
Tai Cheong, str.,	19 59	113 50	.54	W	9	...
Memnon, str.,	19 48	115 11	.47	SW	7	orq.
Devawongse, str.,	19 30	112 16	.65	NW	5	or.
Parimata, sh.,	17 18	117 12	...	SW	5	c.
Guthrie, str.,	15 8	119 6	.90	SW	4	or.
Framnes, str.,	13 4	109 33	.75	SW	3	o.
George S. Homer, bk.,	12 30	110 57	...	S	6	o.
Breconshire, str.,	12 2	111 46	.80	SW	4	o.
Wm. le Lacheur, bk.	11 45	110 16	.73	SW	8	o.
Keong Wai, str.,	11 40	109 15	.78	SSW	5	c.
Kong Beng, str.,	11 14	108 58	.75	SW	3	o.
Holstein, str.,	10 18	107 5	.83	SSW	2	...
Aden, str.,	7 46	108 21	.91	SW	4	o.
Chunshan, str.,	4 29	105 14	.89	E var.	3	k.
Loosok, str.,	3 52	104 6	.92	W	2	k.
	July 29th.					
Strathleven, str.,	37 59	134 18	29.77	var.	2	o.
Victoria, str.,	36 50	143 48	.79	ESE	4	c.
Riojun Maru, str.,	34 40	135 11	.85	W	3	c.
Oopack, str.,	34 40	135 11	.85	W	3	k.
Peiyang, str.,	29 22	122 26	.90	S	5	b.
Mascotte, str.,	29 14	122 35	.88	S	4	b.
Arroyo, str.,	28 6	124 33	.91	SW	3	o.
Rohilla, str.,	27 19	121 32	.91	SE	2	k.
Bygdo, str.,	27 19	121 13	.90	NE	1	k.
Marie Berg, bk.,	27 12	121 42	...	SSE	2	k.
Tailee, str.,	26 13	120 39	.89	SSW	4	k.
Benvenue, str.,	25 20	120 31	.95	E	2	cm.
Lyeemoon, str.,	25 17	119 53	.93	SSW	1	b.
Namyong, str.,	24 57	119 30	.94	S	4	c.
Siam, str.,	24 15	118 44	.85	S	3	o.
Rosetta, str.,	24 8	118 28	.86	SSE	4	og.
Chingtu, str.,	23 26	117 5	.83	SE	5	ouq.
Taisang, str.,	23 17	116 55	...	S	2	c.
Ancona, str.,	23 8	119 12	.78	SE	6	orq.
Coptic, str.,	22 49	116 41	.75	SSE	6	crq.
Lifoo, str.,	22 42	116 6	.71	SE	6	orq.
Hertha, str.,	22 4	115 35	.69	SSE	6	opq.
Phra Nang, str.,	22 3	114 3	.58	SE	6	or.
George F. Manson, bk.,	22 2	114 24	...	SE	6	...
H.I.A.M.S. Aurora,	21 29	113 49.7	.69	SE	4	or.
Ask, str.,	20 20	109 10	.47	SW	4	o.
Litchfield, bk.,	20 16	118 35	...	S	3	q.
Parimata, sh.,	19 42	114 39	...	SSE	4	k.
Devawongse, str.,	19 1	113 13	.68	S	6	...
Guthrie, str.,	18 52	116 34	.74	SSW	5	op.
Memnon, str.,	16 45	116 14	.76	S	4	c.
George S. Homer, bk.,	16 14	112 52	...	SSW	...	...
Breconshire, str.,	15 16	113 17	.79	SSW	6	c.
Kong Beng, str.,	14 45	109 52	.74	SW	3	o.
Holstein, str.,	12 32	109 29	.80	S	1	...
Wm. le Lacheur, bk.,	12 13	109 53	...	SSW	6	o.
Aden, str.,	11 50	111 9	.86	SW	5	o.
Picciola, str.,	11 3	110 0	.78	SW	4	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
July 29th.						
Framnes, str.,	10° 26′	108° 16′	29.84	SSW	3	c.
Keong Wai, str.,	8 55	106 38	.80	WSW	4	c.
Chunshan, str.,	8 10	106 28	.86	WNW	3	k.
Loosok, str.,	7 52	102 38	.86	WSW	4	oq.
July 30th.						
Victoria, str.,	39 22	148 38	29.93	ESE	3	o.
Strathleven, str.,	35 25	131 22	.75	SW	4	o.
Riojun Maru, str.,	34 40	135 11	.79	W	1	c.
Empress of China, str.,	34 40	135 11	.79	WNW	2	c.
Oopack, str.,	34 40	135 11	.80	W	2	c.
Empress of Japan, str.,	34 6	132 51	.82	SW	4	k.
Rohilla, str.,	31 4	122 10	.80	S	2	k.
Bygdo, str.,	30 46	122 11	.88	SSE	2	k.
Fushun, str.,	30 37	122 26	.83	SSE	3	...
Marie Berg, bk.,	28 30	123 30	...	SW	2	k.
Siam, str.,	27 24	122 26	.85	SSW	3	k.
Benvenue, str.,	27 2	124 12	30.00	E	2	cm.
Peiyang, str.,	26 28	120 27	29.95	SSW	3	b.
Arroyo, str.,	26 3	121 25	.87	SSW	2	k.
Tailee, str.,	24 2	118 28	.92	S	1	k.
Chingtu, str.,	23 23	117 9	.93	SSW	3	cq.
Lyeemoon, str.,	22 50	116 39	.90	S	3	cq.
Nanyang, str.,	22 48	116 26	.93	SSE	4	ouq.
Taisang, str.,	22 14	114 16	...	S	2	orq.
Guthrie, str.,	21 53	114 23	...	SW	4	c.
Glamorganshire, str.,	21 25	113 53	.81	SSE	5	k.
George S. Homer, bk.,	20 5	113 11	.79	...	5	kq.
Phra Nang, str.,	19 40	113 31	.76	SSE	5	...
Fred. P. Litchfield, bk.,	19 29	117 1	...	S	3	k.
Breconshire, str.,	18 25	113 29	.81	S	5	c.
Kong Beng, str.,	18 24	111 33	.77	S	4	o.
Aden, str.,	16 7	113 11	.85	S	4	o.
Holstein, str.,	15 57	110 31	.83	SSW	4	c.
Memnon, str.,	13 23	117 2	.87	S	2	c.
Wm. le Lacheur, bk.,	12 6	109 56	...	SW	6	k.
July 30th.						
Picciola, str.,	11° 29′	114° 0′	29.81	SW	3	o.
Loosok, str.,	11 26	101 13	.87	WSW	5	oq.
Keong Wai, str.,	9 20	103 21	.78	WSW	4	or.
Framnes, str.,	8 33	105 47	.89	SW	3	c.
Brindisi, str.,	3 1	105 12	.89	SSW	2	c.
July 31st.						
Victoria, str.,	41 51	153 56	30.03	E	4	o.
Riojun Maru, str.,	34 40	135 11	29.84	...	0	c.
Empress of Japan, str.,	34 40	135 11	.78	SW	2	o.
Oopack, str.,	34 40	135 11	.80	...	...	...
Empress of China, str.,	34 6	132 50	.80	SW	2	c.
Strathleven, str.,	33 19	128 33	.84	SW	4	o.
Marie Berg, bk.,	31 5	124 7	...	SW	5	k.
Siam, str.,	30 15	126 17	.91	W	2	k.
Benvenue, str.,	28 59	128 8	.98	SW	2	cm.
Fushun, str.,	27 34	120 57	.91	SW	3	k.
Arroyo, str.,	24 9	118 26	...	SSW	2	k.
Peiyang, str.,	23 32	117 52	.96	NW	1	c.
Telamon, str.,	22 23	115 2	.88	SSW	2	b.
Kong Beng, str.,	21 51	113 55	.85	var.	2	k.
Frejr, str.,	21 50	113 40	.90	SSE	2	b.
Breconshire, str.,	21 47	113 57	.89	ENE	2	b.
Aden, str.,	20 44	113 55	.88	SE	3	k.
Ask, str.,	20 20	111 35	.88	ESE	3	k.
Fred. P. Litchfield, bk.,	20 3	115 25	...	SE	4	k.
Holstein, str.,	19 21	112 7	.86	SE	2	...
Phra Chom Klao, str.,	18 14	108 4	.84	SSW	4	k.
Glamorganshire, str.,	17 38	113 41	.87	S	4	k.
Phra Nang, str.,	17 32	111 7	.80	SW	3	k.
Wm. le Lacheur, bk.,	12 2	109 28	...	...	0	k.
Picciola, str.,	11 37	117 24	.83	SSW	3	or.
Memnon, str.,	9 42	117 19	.86	...	0	or.
Framnes, str.,	9 26	103 2	.91	W	4	q.
Brindisi, str.,	6 36	107 0	.95	var.	4	orq.
Catherine Apcar, str.,	4 21	105 58	.90	...	0	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
August 1st.						
Victoria, str.,	44° 15′	159° 41′	30.01	ENE	4	o.
Riojun Maru, str.,	34 40	135 11	29.80	SW	1	or.
Marie Berg, bk.,	32 29	123 43	...	SSW	2	k.
Benvenue, str.,	31 32	131 56	.84	W	1	cm.
Strathleven, str.,	30 42	125 31	.84	SW	4	o.
Peru, str.,	24 30	119 0	.95	W	1	c.
Arroyo, str.,	22 19	115 12	.86	SSW	2	k.
Sabine Rickmers, str.,	21 48	113 56	.90	SE	1	c.
Yuensang, str.,	20 50	115 23	.93	ESE	3	b.
Fred. P. Litchfield, bk.,	20 32	114 38	...	SE	1	...
Frejr, str.,	20 15	110 45	.89	E	3	b.
Activ, str.,	20 11	110 10	.86	SSE	3	c.
China, str.,	19 2	112 4	.88	SSW	1	k.
Phra Chom Klao, str.,	15 21	108 53	.90	SE	2	k.
Phra Nang, str.,	14 11	109 50	.83	SW	2	p.
Glamorganshire, str.,	13 43	111 22	.85	ESE	4	k.
Picciola, str.,	11 39	120 3	.83	WSW	2	c.
Brindisi, str.,	9 57	109 26	.93	WNW	4	or.
Catherine Apcar, str.,	7 48	108 28	.88	W	4	orq.
August 2nd.						
Victoria, str.,	46 12	166 5	29.99	NE	3	om.
Cassius, str.,	36 5	123 4	...	W	2	...
Riojun Maru, str.,	34 40	135 11	.76	SSW	1	o.
Marie Berg, bk.,	34 10	123 30	...	SW S	2	m.
Benvenue, str.,	33 46	136 46	.70	NW	1	cm.
Oopack, str.,	33 26	135 43	.74	...	0	k.
Orestes, str.,	32 23	125 48	.74	SW	3	o.
Empress of China, str.,	31 32	124 20	.75	WSW	5	k.
Strathleven, str.,	28 18	122 44	.77	SW	4	o.
Peru, str.,	28 10	123 41	.85	SW	4	c.
Pallas, str.,	25 3	120 24	.89	SW	4	k.
Ching Ping, str.,	23 40	118 1	.85	SW	1	k.
Hohenzollern, str.,	23 32	117 48	.88	NW	2	k.
Fred. P. Litchfield, bk.,	21 25	114 14	...	...	0	...
Frejr, str.,	21 13	109 8	.82	S	3	q.
Sishan, str.,	20 34	115 28	.86	...	0	k.
Sabine Rickmers, str.,	19 2	111 51	.90	SE	1	b.
Yuensang, str.,	17 30	117 54	.90	S	3	crq.
China, str.,	16 32	110 29	.85	S	2	k.
August 2nd.						
Brindisi, str.,	13° 39′	111° 51′	29.92	SSE	4	c.
Phra Chom Klao, str.,	11 51	109 18	.88	S	4	q.
Catherine Apcar, str.,	11 40	111 11	.83	S	3	k.
Picciola, str.,	10 43	122 36	.84	WSW	3	or.
Phra Nang, str.,	10 42	108 42	.82	var.	2	o.
Glamorganshire, str.,	10 0	109 16	.85	SSW	2	kp.
August 3rd.						
Victoria, str.,	47 48	172 31	30.07	NE	3	o.
Empress of Japan, str.,	37 51	145 12	29.80	SE	4	o.
Marie Berg, bk.,	35 50	123 6	...	WSW	var.	oq.
Riojun Maru, str.,	34 40	135 11	.66	SSW	2	c.
Airlie, str.,	32 35	127 50	.72	SW	5	...
Cassius, str.,	32 33	122 48	.57	SW	3	...
Peru, str.,	31 45	128 20	.75	WSW	3	c.
Kwanglee, str.,	31 18	121 44	.65	SW	2	...
Empress of China, str.,	31 5	122 6	.64	SW	4	b.
Pallas, str.,	28 8	124 54	.68	SW	5	k.
Hohenzollern, str.,	26 32	122 49	.78	SW	5	o.
Ching Ping, str.,	26 31	120 51	.77	SW	4	k.
Strathleven, str.,	26 3	120 23	.71	SW	4	o.
Guthrie, str.,	24 11	119 38	.80	SW	2	k.
Ancona, str.,	23 59	118 2	.81	SW	2	k.
Preussen, str.,	23 54	118 22	.78	WNW	2	c.
Ask, str.,	22 0	113 0	.78	S	2	k.
Activ, str.,	21 46	113 32	.80	SE	2	c.
Jenny, sch.,	21 36	117 53	...	SW	4	k.
Kutsang, str.,	19 6	114 7	.85	SW	3	b.
Brindisi, str.,	17 24	113 29	.85	S	2	c.
Sishan, str.,	17 17	113 10	.80	SSW	1	o.
Sabine Rickmers, str.,	16 25	110 16	.80	S	5	c.
Catherine Apcar, str.,	15 47	113 8	.81	SW	3	k.
Yuensang, str.,	14 26	120 22	.85	...	0	c.
China, str.,	13 26	109 28	.81	S	2	k.
Phra Chom Klao, str.,	9 1	107 11	...	SW	3	k.
Phra Nang, str.,	7 34	107 3	.84	SW	2	k.
Glamorganshire, str.,	6 13	107 10	.86	S	3	k.
Bellona, str.,	4 2	105 58	...	E	2	k.
Jacob Christensen, str.,	3 27	105 25	...	E	2	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 4th.						
Victoria, str.,	48° 53′	179° 42′	30.22	var.	3	o.
Empress of Japan, str.,	40 57	151 46	29.92	E	4	o.
Marie Berg, bk.,	37 2	122 54	...	S	1	orq.
Riojun Maru, str.,	34 40	135 11	.76	S	1	o.
Verona, str.,	34 33	138 34	.77	ENE	2	o.
Pallas, str.,	31 48	128 44	.69	SW	4	k.
Toonan, str.,	31 33	121 19	.65	SSW	2	b.
Airlie, str.,	30 20	124 42	.76	SW	5	k.
Ching Ping, str.,	30 0	122 45	.75	S	3	o.
Cassius, str.,	29 26	122 22	.68	S	6	...
Hohenzollern, str.,	28 56	128 6	.81	W	3	o.
Preussen, str.,	28 18	122 8	.75	SW	4	c.
Kwanglee, str.,	28 3	121 23	.74	SSW	6	...
Guthrie, str.,	28 0	121 45	.74	S/W	5	k.
Ancona, str.,	26 54	122 7	.76	SW	4	k.
Empress of India, str.,	25 48	120 17	.75	SW	5	b.
Aden, str.,	23 53	117 53	.80	WSW	3	k.
Strathleven, str.,	23 46	118 12	.73	SW	2	k.
Shantung, str.,	21 27	113 40	.83	SW	2	k.
Brindisi, str.,	21 26	113 56	.81	SSW	2	b.
Donar, str.,	21 2	115 1	.77	SW	4	b.
Jenny, sch.,	20 39	118 58	...	SSW	4	k.
Ask, str.,	20 10	110 10	.74	...	0	k.
Frejr, str.,	20 10	110 5	.75	NW	1	p.
Catherine Apear, str.,	19 32	113 37	.78	SW	2	k.
Kutsang, str.,	15 29	113 10	.83	SSW	4	c.
Sishan, str.,	14 1	111 43	.77	SW	3	orq.
Sabine Rickmers, str.,	13 50	109 28	.80	SSW	2	b.
Chunshan, str.,	12 7	109 26	.80	var.	2	k.
China, str.,	10 43	108 5	.85	W	2	k.
Bellona, str.,	7 38	108 26	...	W	2	k.
Jacob Christensen, str.,	6 34	107 14	...	...	0	k.
Phra Chom Klao, str.,	5 21	105 57	.92	SW	3	k.
Phra Nang, str.,	4 8	105 25	.86	...	0	k.
Namyong, str.,	3 41	105 31	.90	SSW	2	...
Glamorganshire, str.,	2 17	105 1	.87	SSW	4	k.
August 5th.						
Gaelic, str.,	40 18	150 47	29.89	ESE	3	f.
Verona, str.,	34 40	135 11	.75	SW	3	k.
Riojun Maru, str.,	34 40	135 11	.75	SW	1	c.
Braemar, str.,	34 4	137 30	.78	var.	2	...
Peru, str.,	33 50	131 22	.81	WSW	3	c.
Pallas, str.,	33 46	130 8	.78	SW	4	o.
Ching Ping, str.,	33 33	123 5	.70	SW	2	o.
Mascotte, str.,	32 14	125 54	.74	SW	4	c.
Marie Berg, bk.,	37 27	122 58	...	SSE	1	c.
Ancona, str.,	29 54	126 11	.80	SSW	3	k.
Toonan, str.,	28 32	121 51	.75	SSW	3	c.
Aden, str.,	27 48	121 28	.80	SSW	2	m.
Airlie, str.,	27 41	121 28	.76	SSW	2	k.
Cassius, str.,	26 32	120 43	.72	SSW	4	k.
Kwanglee, str.,	24 38	119 8	.79	SW	3	b.
Empress of India, str.,	22 26	115 22	.78	var.	1	k.
Strathleven, str.,	22 17	114 42	.80	SW	2	k.
Ask, str.,	20 52	106 42	·66	...	0	p.
Jenny, sch.,	20 19	119 27	...	...	0	...
Hongkong, str.,	20 6	110 15	...	S	...	k.
Shantung, str.,	18 21	111 41	.78	SSW	3	k.
Donar, str.,	18 6	112 3	.74	SW	3	b.
Esmeralda, str.,	17 7	118 26	.78	SW	1	c.
Chunshan, str.,	15 48	110 20	.74	SW	3	k.
Kutsang, str.,	12 20	111 24	.79	SW	4	b.
Bellona, str.,	11 27	110 49	...	SW	2	o.
Sabine Rickmers, str.,	11 1	108 41	.79	SW	5	c.
Sishan, str.,	10 32	110 27	.77	SW	3	orq.
Jacob Christensen, str.,	9 44	108 46	...	SW	5	...
Namyong, str.,	7 1	107 4	.90	WSW	3	...
August 6th.						
Marie Berg, bk.,	37 27	122 39	...	SW	...	orf.
Ching Ping, str.,	37 9	122 50	29.67	...	0	ofr.
Gaelic, str.,	37 6	144 21	.62	W	3	m.
Fuping, str.,	36 14	123 17	.70	SW	1	or.
Peru, str.,	34 40	135 11	.72	SSW	2	c.
Riojun Maru, str.,	34 40	135 11	.71	S	1	b.
Verona, str.,	34 40	135 11	.68	SSW	2	k.
Oopack, str.,	34 36	138 59	.68	var.	1	c.
Mascotte, str.,	33 57	130 28	.80	SW	2	c.
Toonan, str.,	25 16	119 52	.77	SSW	3	b.
August 6th.						
Kwanglee, str.,	22° 34′	115° 29′	29.79	SW	3	b.
Meefoo, str.,	22 26	115 14	.81	var.	1	c.
Activ, str.,	21 56	113 50	.80	SW	1	c.
Ask, str.,	20 52	106 42	.64	...	0	k.
Hongkong, str.,	20 30	107 50	.70	S	...	k.
Frejr, str.,	20 30	111 20	.75	...	0	b.
Jenny, sch.,	20 13	119 32	...	SE	4	k.
Tailee, str.,	20 7	112 32	.76	S	2	k.
Chunshan, str.,	19 17	112 8	.76	NE	4	k.
Zafiro, str.,	17 ...	118 ...	.81	N	2	cp.
Bellona, str.,	15 29	112 55	.78	var.	2	k.
Donar, str.,	15 4	110 6	.75	SW	4	b.
Shantung, str.,	14 56	110 13	.79	var.	1	k.
Jacob Christensen, str.,	13 5	110 10	...	SW	5	k.
Namyong, str.,	10 40	108 50	.76	WSW	4	...
Kutsang, str.,	9 19	109 59	.82	WSW	4	op.
Sishan, str.,	7 36	108 47	.80	SW	2	k.
Glenfalloch, str.,	3 36	105 40	.87	SE	2	b.
August 7th.						
Marie Berg, bk.,	38 14	122 46	...	NW	2	k.
Oopack, str.,	34 40	135 11	29.72	...	0	c.
Riojun Maru, str.,	34 40	135 11	.76	S	2	b.
Peru, str.,	34 29	138 49	.73	var.	1	c.
Verona, str.,	33 57	132 33	.71	WSW	2	k.
Ancona, str.,	33 56	130 54	.72	WNW	2	k.
Fuping, str.,	32 52	123 42	.73	var.	4	k.
Meefoo, str.,	24 32	119 0	.78	SW	1	k.
Taisang, str.,	24 26	118 48	...	S	2	c.
Lyeemoon, str.,	23 35	117 51	.79	...	0	b.
Devawongse, str.,	22 10	113 3	.79	SSW	2	k.
Ask, str.,	20 52	106 41	.68	E	1	p.
Jenny, sch.,	20 31	120 24	...	E N	5	q.
Activ, str.,	20 25	111 10	.76	SSE	2	...
Zafiro, str.,	19 56	116 10	.79	WSW	2	c.
Bellona, str.,	19 44	113 29	.79	var.	2	o.
Tailee, str.,	17 4	110 24	.71	SSW	4	k.
Jacob Christensen, str.,	16 23	110 43	...	NE	1	k.
Namyong, str.,	14 6	110 7	.77	E	1	...
Shantung, str.,	11 9	109 14	.78	SW	4	k.
Donar, str.,	11 5	109 3	.73	S	4	c.
Loosok, str.,	9 48	102 48	.81	SW	2	o.
Glenfalloch, str.,	6 47	108 13	.84	SW	5	ortl.
Cromarty, str.,	6 41	109 18	.81	W	3	o.
Kutsang, str.,	6 24	107 40	.83	SW	3	op.
Gisela, str.,	4 40	106 9	.82	SW	2	q.
Sishan, str.,	4 27	106 10	.81	SW	1	o.
Wingsang, str.,	3 51	105 41	.85	...	0	b.
August 8th.						
Ching Ping, str.,	38 43	118 34	29.77	...	0	m.
Marie Berg, bk.,	38 13	121 39	..	N	1	...
Oopack, str.,	34 40	135 11	.78	var.	1	c.
Ancona, str.,	34 23	113 49	.76	var.	1	o.
Fuping, str.,	29 45	122 40	.74	SW	4	om.
Orestes, str.,	29 25	122 50	.67	S	3	o.
Meefoo, str.,	27 58	121 40	.75	SSW	1	c.
Taisang, str.,	27 55	121 43	...	S	3	c.
Lyeemoon, str.,	27 23	121 16	.75	SW	2	c.
H.I.A.M.S. Aurora,	22 15	115 10	.80	NE	2	or.
Activ, str.,	21 29	109 5	.72	SE	2	...
Jenny, sch.,	20 31	121 3	...	SW S?	1	...
Kong Beng, str.,	20 15	115 34	.75	var.	2	q.
Ask, str.,	20 5	110 20	...	NE	3	p.
Chingtu, str.,	19 52	116 7	.76	SE	3	cp.
Jacob Christensen, str.,	19 21	112 7	...	...	0	k.
Devawongse, str.,	18 36	111 49	.76	S	1	k.
Namyong, str.,	17 37	111 19	.76	E	1	...
Ixion, str.,	16 43	110 54	.76	E	2	b.
Tailee, str.,	13 16	110 5	.70	SW	4	k.
Glenfalloch, str.,	10 32	110 31	.77	W	5	c.
Cromarty, str.,	10 21	110 35	.76	W	5	olgp.
Donar, str.,	9 0	106 7	.78	WSW	5	b.
Loosok, str.,	8 58	106 25	.79	W	3	oq.
Gisela, str.,	8 38	109 7	.77	W	4	or.
Shantung, str.,	8 8	107 37	.82	WSW	5	k.
Wingsang, str.,	7 27	107 59	.81	WSW	2	c.
Propontis, str.,	5 5	106 19	.80	SW	2	o.
Kutsang, str.,	3 7	105 34	.86	SW	3	o.
Ocampo, str.,	2 57	105 6	...	SW	2	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 9th.						
Marie Berg, bk.,	38° 32′	120° 50′	...	ENE	1	o.
Taksang, str.,	37 34	121 25	29.53	SE	3	o.
Hohenzollern, str.,	35 0	139 30	.77	S	3	k.
Riojun Maru, str.,	34 40	135 11	.79	S	1	b.
Ancona, str.,	34 40	135 11	.75	S	2	k.
Gaelic, str.,	34 31	138 52	.76	SW	1	c.
Verona, str.,	30 17	126 29	.74	SW	4	o.
Fuping, str.,	27 5	121 3	.72	SSW	6	k.
Orestes, str.,	26 3	120 15	.76	SSW	3	k.
Fushun, str.,	22 57	116 52	.75	SE	1	o.
H.I.A.M.S. Aurora,	22 39	116 19	.77	SE	3	or.
Nanyang, str.,	22 22	114 51	.72	SE	3	c.
Activ, str.,	21 20	109 5	.71	W	1	...
Ask, str.,	20 45	111 50	.63	...	0	q.
Namyong, str.,	20 40	113 22	.73	E	2	...
Jenny, sch.,	20 39	120 47	...	WSW	5	...
Ixion, str.,	20 39	113 11	.73	ESE	4	cp.
Chingtu, str.,	16 35	118 15	.79	S	6	orq.
Kong Beng, str.,	16 30	114 2	.71	var.	4	q.
Devawongse, str.,	15 1	110 0	.69	SSW	4	k.
Glenfalloch, str.,	14 28	112 45	.74	S	2	o.
Cromarty, str.,	13 30	112 11	.74	SSW	5	c.
Gisela, str.,	12 42	112 15	.73	SW	4	o.
Loosok, str.,	11 54	109 24	.73	var.	1	op.
Wingsang, str.,	11 8	110 27	.75	SW	3	c.
Tailee, str.,	10 18	107 46	.72	W	4	c.
Donar, str.,	9 1	103 5	.79	W	6	or.
Propontis, str.,	8 35	107 58	.71	SW	2	k.
Ocampo, str.,	5 54	105 59	.89	SW	2	k.
Shantung, str.,	4 48	106 8	.85	SW	2	o.
August 10th.						
Taksang, str.,	40 12	121 37	29.29	NE	8	o.
Marie Berg, bk.,	38 21	119 26	...	N	7?	or.
Riojun Maru, str.,	34 40	135 11	.83	SW	2	b.
Oopack, str.,	33 58	130 55	...	var.	1	k.
Ancona, str.,	33 39	136 35	.85	SSW	2	k.
Gaelic, str.,	32 0	133 43	.77	SW	3	c.
Verona, str.,	27 33	123 1	.74	SW	5	k.
Fushun, str.,	26 13	120 22	.72	SW	3	m.
Fuping, str.,	24 50	119 20	.78	SW	3	p.
Nanyang, str.,	24 36	119 1	.77	SSW	2	c.
H.I.A.M.S. Aurora,	23 22	117 37	.81	SW	1	k.
Frejr, str.,	22 0	113 52	.73	SSE	4	q.
Activ, str.,	20 10	110 10	.71	SW	2	...
Jenny, sch.,	19 47	121 6	...	...	4	k.
Glenfalloch, str.,	18 38	113 30	.78	S	5	c.
Gisela, str.,	17 22	114 1	.77	SSW	5	o.
Cromarty, str.,	17 10	113 36	.77	SSW	5	k.
Loosok, str.,	15 46	109 43	.73	var.	1	op.
Wingsang, str.,	14 54	113 2	.80	SSW	4	c.
Kong Beng, str.,	13 50	112 25	.80	SSW	5	q.
Chingtu, str.,	12 54	120 36	.85	SSE	2	c.
Propontis, str.,	12 14	109 26	.73	SW	1	k.
Devawongse, str.,	11 14	109 1	.78	SW	4	k.
Ocampo, str.,	8 57	107 5	.89	WSW	4	o.
Shantung, str.,	1 28	104 30	.86	S	2	oq.
August 11th.						
John Baizley, bk.,	42 5	132 30	29.74	E	2	f.
Taksang, str.,	40 35	122 0	.55	N	3	k.
Marie Berg, bk.,	38 20	119 7	...	ESE	1	k.
Peru, str.,	36 55	144 39	.99	N	2	c.
Riojun Maru, str.,	34 40	135 12	.96	SW	2	b.
Mascotte, str.,	33 56	128 54	.87	SW	4	crq.
Gaelic, str.,	32 32	129 33	.76	SSW	3	cpq.
Pallas, str.,	30 52	127 28	.80	SW	4	o.
Fushun, str.,	29 52	122 37	.80	E	2	k.
Nanyang, str.,	28 31	122 3	.76	var.	1	o.
Kaisar-i-Hind, str.,	27 29	121 30	.73	SSW	2	o.
Toonan, str.,	26 29	120 40	.76	NW	3	c.
Verona, str.,	25 1	119 35	.84	SW	3	o.
H.I.A.M.S. Aurora,	24 22	118 8	.82	SW	1	or.
Gisela, str.,	21 56	114 0	.77	var.	4	q.
Machew, str.,	21 30	113 37	.75	SSW	6	orq.
Siam, str.,	21 19	115 21	.80	SW	5	o.
Zafiro, str.,	21 ...	115 ...	.81	SSW	5	c.
Cromarty, str.,	20 47	113 54	.77	SW	6	q.
Hongkong, str.,	20 40	111 48	.72	SE	...	o.
Activ, str.,	20 36	111 28	.75	S	2	o.
August 11th.						
Frejr, str.,	20° 17′	110° 57′	29.74	...	0	oq.
Loosok, str.,	19 30	108 40	.75	SW	4	oq.
Jenny, sch.,	19 28	121 44	...	WNW	5	k.
Wingsang, str.,	18 50	113 58	.80	SSW	5	c.
Propontis, str.,	15 49	108 24	.73	...	0	k.
Kong Beng, str.,	11 0	110 46	.82	SW	4	k.
Sabine Rickmers, str.,	10 19	107 29	.86	SW	4	...
Chingtu, str.,	8 43	121 54	.86	SSW	2	c.
Devawongse, str.,	8 41	106 9	.83	SW	4	k.
Memnon, str.,	8 29	119 11	.81	NE	2	o.
Sishan, str.,	5 13	105 42	.84	var.	1	k.
August 12th.						
John Baizley, bk.,	42 38	132 57	29.89	ESE	2	k.
Taksang, str.,	40 35	122 0	.79	S	1	k.
Ching Ping, str.,	38 3	120 38	.89	SE	2	k.
Riojun Maru, str.,	34 40	135 11	30.03	S	2	b.
Gaelic, str.,	31 46	128 32	29.88	SSE	4	c.
Mascotte, str.,	31 19	125 55	.92	SE	3	c.
Toonan, str.,	30 6	122 36	.75	E	2	c.
Bygdo, str.,	28 40	122 12	.78	S	3	o.
Pallas, str.,	28 19	123 53	.79	SSW	4	k.
Jacob Christensen, str.,	26 2	120 47	...	S	1	c.
H.I.A.M.S. Aurora,	24 28	118 4	.79	...	0	k.
Kaisar-i-Hind, str.,	23 50	118 17	.72	SSW	1	op.
Verona, str.,	22 32	115 47	.79	SE	2	or.
Loosok, str.,	20 4	110 20	.74	var.	1	oq.
Propontis, str.,	19 31	108 27	.70	E	2	o.
Siam, str.,	19 26	112 39	.77	SSW	5	...
Jenny, sch.,	18 48	122 25	...	WNW	5	k.
Machew, str.,	18 34	111 48	.76	SW	6	k.
Zafiro, str.,	17 ...	117 ...	.82	SW	2	b.
Memnon, str.,	11 48	119 46	.79	N	2	c.
Sabine Rickmers, str.,	11 28	111 11	.83	SW	3	b.
P. N. Blanchard, sh.,	10 20	109 56	...	SW	3	k.
Sishan, str.,	9 22	106 54	.80	var.	1	...
Kong Beng, str.,	7 54	108 46	.81	SW	2	k.
Chingtu, str.,	4 56	123 20	.85	SSW	3	cm.
August 13th.						
John Baizley, bk.,	42 42	134 12	29.92	NW	2	k.
Mascotte, str.,	29 26	123 33	.88	SSW	3	c.
Gaelic, str.,	28 33	123 56	.78	SSE	3	c.
Jacob Christensen, str.,	28 33	123 35	...	ESE	5	c.
Bygdo, str.,	25 45	120 16	.80	SSW	2	or.
Pallas, str.,	25 38	120 33	.80	W	4	o.
Ravenna, str.,	24 35	118 55	.77	NE	2	c.
H.I.A.M.S. Aurora,	24 20	118 50	.81	SW	1	k.
Peiyang, str.,	23 8	117 23	.80	SE	1	c.
Loosok, str.,	21 57	113 49	.75	SE	2	oq.
Jenny, sch.,	17 47	123 11	...	NW	...	q.
Siam, str.,	16 38	111 7	.77	SSW	5	k.
Yuensang, str.,	16 6	118 43	.77	...	0	b.
Machew, str.,	15 13	110 26	.77	S	5	k.
Memnon, str.,	15 6	117 59	.75	...	0	c.
Sabine Rickmers, str.,	12 26	115 5	.82	...	0	v.
P. N. Blanchard, sh.,	11 41	111 20	...	SSW	4	k.
Chowfa, str.,	8 45	106 14	.80	N	2	k.
Framnes, str.,	8 22	105 14	.78	NW	1	k.
Kong Beng, str.,	4 28	106 22	.79	var.	1	k.
Manila, str.,	4 11	105 48	.84	var.	1	k.
Chingtu, str.,	1 18	125 30	.85	SSE	5	op.
August 14th.						
John Baizley, bk.,	42 59	135 44	29.88	SW	1	k.
Ching Ping, str.,	36 30	122 46	.93	SSE	3	m.
Riojun Maru, str.,	34 22	132 28	30.00	S	1	b.
Oopack, str.,	31 35	125 12	.00	S	3	k.
Jacob Christensen, str.,	30 59	126 5	...	E	5	c.
Hohenzollern, str.,	30 51	127 16	29.93	SE	2	k.
Preussen, str.,	29 54	122 38	.88	SSE	4	c.
Ravenna, str.,	28 41	122 13	.85	NE	2	k.
Mascotte, str.,	27 0	121 24	.86	E	4	c.
Peiyang, str.,	26 22	120 38	.85	NE	2	cq.
Gaelic, str.,	25 7	119 47	.77	NE	1	c.
H.I.A.M.S. Aurora,	24 33	119 24	.84	...	0	or.
Glenfalloch, str.,	23 14	117 25	.83	E	1	c.
Bygdo, str.,	23 14	117 20	.86	SW	2	o.
Pallas, str.,	23 1	117 7	.88	SW	4	o.
Ask, str.,	22 12	118 30	...	WNW	2	orq.
Activ, str.,	21 53	113 44	.82	SW	2	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 14th.						
Sungkiang, str.,	21° 27′	114° 51′	29.84	SSW	3	or.
Airlie, str.,	19 39	115 53	.85	SW	2	k.
Yuensang, str.,	19 12	116 25	.83	SW	2	b.
Catherine Apcar, str.,	18 53	114 12	.86	S	4	k.
Brindisi, str.,	18 30	111 54	.81	SSW	4	b.
Memnon, str.,	18 26	116 20	.79	W	2	b.
Jenny, sch.,	17 17	124 23	...	NNW	2	k.
P. N. Blanchard, sh.,	13 36	112 4	...	SSE	4	k.
Siam, str.,	13 28	109 55	.82	S	5	k.
Sabine Rickmers, str.,	12 2	118 27	.86	E	1	c.
Machew, str.,	11 39	109 13	.76	S	3	k.
Chowfa, str.,	11 38	109 12	.80	SE	1	k.
Framnes, str.,	10 42	108 20	.83	...	0	c.
Manila, str.,	7 37	108 25	.88	SW	3	c.
Arratoon Apcar, str.,	4 17	106 4	.87	...	var.	k.
Natal, str.,	3 4	105 1	.88	S	1	k.
August 15th.						
John Baizley, bk.,	44 38	138 21	29.64	WSW	6	o.
Riojun Maru, str.,	34 22	132 28	.89	S	1	b.
Siam, str.,	33 53	131 11	.84	var.	2	k.
Ching Ping, str.,	33 51	122 49	.83	S	3	o.
Jacob Christensen, str.,	33 31	128 36	...	...	0	m.
Nanyang, str.,	31 23	122 20	.78	WSW	3	c.
Fushun, str.,	30 46	122 17	.81	SE	2	k.
Lyeemoon, str.,	30 37	122 26	.80	SE	3	b.
Peiyang, str.,	30 2	122 38	.82	SE	2	c.
Hohenzollern, str.,	27 31	122 45	.81	ESE	1	k.
Taisang, str.,	26 59	120 56	.83	S	3	c.
Glenfalloch, str.,	26 29	120 39	.81	NE	2	c.
H.I.A.M.S. Aurora,	24 53	119 55	.81	...	0	k.
Mascotte, str.,	24 39	119 7	.82	...	0	b.
Kwanglee, str.,	23 26	117 38	.78	S	2	b.
Ask, str.,	22 58	120 12	.80	W	2	k.
Gaelic, str.,	22 20	115 10	.74	SW	1	c.
Memnon, str.,	21 40	114 30	.74	W	2	b.
Activ, str.,	20 18	111 5	.77	S	3	o.
Hongkong, str.,	20 15	110 40	.77	SE	...	c.
Sungkiang, str.,	18 14	117 45	.82	SW	2	c.
Jenny, sch.,	16 45	124 30	...	NW	4	k.
Airlie, str.,	15 55	118 27	.82	NW	1	...
Chowfa, str.,	15 47	110 17	.74	SSE	3	k.
P. N. Blanchard, sh.,	15 29	113 29	...	S	4	k.
Catherine Apcar, str.,	15 11	112 58	...	S	5	...
Brindisi, str.,	14 59	110 6	.80	S	4	b.
Framnes, str.,	14 15	110 4	.78	SE	1	k.
Picciola, str.,	12 25	120 50	.77	SW	4	or.
Wm. le Lacheur, bk.,	11 30	110 19	...	SSE	2	c.
Sabine Rickmers, str.,	11 19	121 19	.83	SW	3	p.
Manila, str.,	11 15	110 50	.85	S	2	k.
Tailee, str.,	10 25	109 1	.79	S	3	q.
Siam, str.,	10 21	108 30	.78	SSW	4	k.
Natal, str.,	8 25	106 42	.86	WNW	2	o.
Machew, str.,	8 1	107 46	.84	var.	4	orq.
Arratoon Apcar, str.,	7 46	108 42	.84	NNW	...	k.
August 16th.						
John Baizley, bk.,	46 44	139 41	29.92	SSW	2	or.
Jacob Christensen, str.,	36 52	130 0	...	NW	1	k.
Nanyang, str.,	36 4	122 50	.74	NE	2	cm.
Riojun Maru, str.,	34 22	132 27	.80	W	2	b.
Benvenue, str.,	32 45	128 10	...	NE	1	cm.
Siam, str.,	31 53	127 5	.78	...	0	k.
Ching Ping, str.,	30 53	122 55	.75	S	2	o.
Glenfalloch, str.,	30 20	122 33	.78	E	1	c.
Fushun, str.,	27 6	121 7	.77	SW	2	k.
Kwanglee, str.,	26 44	120 51	.76	NE	3	b.
Lyeemoon, str.,	26 23	120 31	.75	NE	1	b.
H.I.A.M.S. Aurora,	25 26	120 23	.76	N	2	k.
Hohenzollern, str.,	24 13	118 35	.71	ESE	2	or.
Taisang, str.,	23 52	117 56	.74	SW	2	c.
Ask, str.,	22 58	120 12	.66	W	3	p.
Mascotte, str.,	22 50	116 27	.74	WSW	3	b.
Activ, str.,	21 29	109 5	.68	SSW	4	oq.
Frejr, str.,	20 36	111 30	.70	S	3	b.
Hongkong, str.,	20 5	110 18	.71	SE	...	c.
Chowfa, str.,	19 28	112 19	.71	S	2	k.
Framnes, str.,	17 57	111 22	.71	SSE	2	k.
Tailee, str.,	17 45	113 0	.76	W	4	q.
Kaisar-i-Hind, str.,	17 40	113 36	.77	SW	3	c.
August 16th.						
P. N. Blanchard, sh.,	17° 2′	113° 58′	...	SW	4	k.
Jenny, sch.,	16 24	125 0	...	SW	3	k.
Manila, str.,	15 11	112 51	29.80	E	2	k.
Picciola, str.,	15 10	118 34	.71	NW	4	o.
Sungkiang, str.,	14 45	119 59	.77	NE	3	c.
China, str.,	12 55	109 35	.74	ENE	1	k.
Airlie, str.,	12 14	120 54	.78	NW	3	op.
Catherine Apcar, str.,	12 5	110 54	.81	SW	4	k.
Arratoon Apcar, str.,	11 17	110 56	.75	W	...	k.
Brindisi, str.,	11 10	109 5	.74	S	3	c.
Wm. le Lacheur, bk.,	10 5	112 35	...	var.	6	q.
Siam, str.,	7 24	106 54	.82	SW	4	k.
Machew, str.,	4 57	105 58	.81	SSW	4	c.
Matterhorn, bk.,	4 29	106 29	...	SW	4	o.
August 17th.						
John Baizley, bk.,	47 0	140 1	29.89	NE	1	k.
Jacob Christensen, str.,	40 14	131 24	...	...	0	c.
Nanyang, str.,	39 51	121 21	.72	NE	5	or.
Riojun Maru, str.,	34 22	132 27	.88	SSW	2	b.
Benvenue, str.,	30 36	124 44	.80	SE	1	cm.
Kwanglee, str.,	30 33	122 25	.76	SE	4	b.
Siam, str.,	28 56	123 51	.72	ESE	2	k.
Chinkiang, str.,	27 55	121 46	.73	...	0	k.
H.I.A.M.S. Aurora,	26 3	120 35	.76	NNE	1	k.
Tsinan, str.,	24 10	118 13	.70	NE	2	c.
Verona, str.,	24 9	118 40	.72	NE	2	k.
Fushun, str.,	23 59	118 20	.76	NW	1	...
Preussen, str.,	23 25	117 42	.72	NNW	1	c.
Lyeemoon, str.,	23 24	117 10	.72	ESE	1	b.
Ask, str.,	22 58	120 12	.72	WNW	2	p.
Activ, str.,	21 29	109 5	.68	var.	4	orqtl.
Framnes, str.,	21 14	113 32	...	SE	3	o.
Bisagno, str.,	19 6	112 22	.72	...	2	k.
Manila, str.,	18 52	113 37	.75	NW	2	k.
P. N. Blanchard, sh.,	18 22	113 52	...	SSW	4	k.
Picciola, str.,	17 30	116 22	.71	NW	3	c.
China, str.,	16 35	110 17	.70	S	1	k.
Jenny, sch.,	15 13	125 32	...	SW	6	...
Arratoon Apcar, str.,	15 10	113 4	.71	SW	...	k.
Sungkiang, str.,	14 35	120 57	.74	...	0	c.
Kaisar-i-Hind, str.,	13 15	111 47	.73	SW	3	c.
Tailee, str.,	11 56	116 50	.73	var.	4	oq.
Wm. le Lacheur, bk.,	10 7	112 58	...	WSW	9	...
Keong Wai, str.,	9 6	103 39	.78	SW	4	or.
Catherine Apcar, str.,	8 38	109 28	.82	SW	5	k.
Airlie, str.,	8 4	121 45	.81	SW	2	k.
Matterhorn, bk.,	8 0	107 12	...	SW	4	o.
Brindisi, str.,	7 48	107 25	.80	WSW	4	o.
Siam, str.,	4 7	105 9	.82	S	4	or.
Azamor, str.,	3 31	105 26	.86	var.	2	or.
August 18th.						
John Baizley, bk.,	47 51	139 44	30.16	ESE	1	o.
Taksang, str.,	37 33	121 25	29.65	SE	1	o.
Ancona, str.,	34 33	138 36	.92	NE	3	k.
Riojun Maru, str.,	34 22	132 28	.88	E	2	b.
Orient, bk.,	31 7	123 9	.78	SE/E	5	o.
Aden, str.,	29 10	122 25	.78	SSE	4	k.
Guthrie, str.,	29 8	122 17	.80	S/E	4	k.
Benvenue, str.,	28 3	121 57	.80	SE	1	cm.
City of Peking, str.,	27 38	173 54	30.03	var.	4	epq.
Tsinan, str.,	27 26	121 7	29.74	NE	3	c.
Verona, str.,	27 19	122 39	.75	E	3	k.
H.I.A.M.S. Aurora,	26 35	120 42	.78	ENE	1	or.
Siam, str.,	25 55	120 38	.70	SSE	2	k.
Ching Ping, str.,	25 10	119 45	.71	NNE	3	o.
Pallas, str.,	23 28	115 12	.72	ENE	2	c.
Activ, str.,	21 29	109 5	.70	var.	4	orqtl.
Esmeralda str.,	20 43	115 21	.77	var.	1	c.
Picciola, str.,	20 37	114 43	.71	NW	2	b.
China, str.,	19 39	112 32	.73	SE	2	k.
Arratoon Apcar, str.,	19 18	113 32	.73	N	...	k.
P. N. Blanchard, sh.,	19 15	114 0	...	SSE	4	k.
Holstein, str.,	18 37	111 43	.66	S	2	...
Bisagno, str.,	15 50	110 44	.72	SSE	2	k.
Sungkiang, str.,	14 35	120 57	.76	W	2	c.
Jenny, sch.,	14 22	127 54	...	SSW	6	...
Natal, str.,	14 14	110 8	.72	NW	1	k.
Tailee, str.,	12 19	120 39	.76	var.	1	oq.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
August 18th.						
Wm. le Lacheur, bk.,	10° 52′	113° 11′	...	WSW	5	o.
Matterhorn, bk.,	9 48	109 50	...	WNW	4	o.
Keong Wai, str.,	9 36	107 9	29.76	SW	3	c.
Kaisar-i-Hind, str.,	9 14	109 47	.75	SW	4	...
Azamor, str.,	6 30	107 37	.82	W	3	orq.
Catherine Apcar, str.,	5 51	107 20	.85	SW	4	o.
Airlie, str.,	4 30	123 41	.85	S	2	k.
Brindisi, str.,	4 7	105 36	.84	S	4	opq.
August 19th.						
John Baizley, bk.,	48 15	140 11	30.14	SW	5	o.
Taksang, str.,	37 4	123 17	29.85	E	1	...
Ancona, str.,	34 40	135 11	.88	var.	1	k.
Riojun Maru, str.,	34 22	132 28	.90	W	1	b.
Tsinan, str.,	30 48	122 10	.79	NE	2	c.
Verona, str.,	30 20	126 18	.77	ENE	6	o.
City of Peking, str.,	29 6	167 42	30.03	E	3	c.
Meefoo, str.,	27 52	121 42	29.74	N	2	op.
H.I.A.M.S. Aurora,	26 52	121 15	.76	N	4	...
Guthrie, str.,	26 8	119 39	.70	NE	2	o.
Benvenue, str.,	25 7	119 42	.72	N	1	cm.
Pallas, str.,	24 54	119 35	.70	NNE	5	k.
Ching Ping, str.,	23 8	117 15	.71	ENE	1	m.
Activ, str.,	20 10	110 10	.67	S	3	c.
P. N. Blanchard, sh.,	19 56	113 52	...	SW	2	o.
Natal, str.,	19 6	112 6	.74	NE	1	o.
Esmeralda, str.,	17 9	118 11	.77	SW	2	k.
Holstein, str.,	15 22	109 59	.62	SSE	2	...
Sungkiang, str.,	14 35	120 57	.70	WSW	2	o.
Jenny, sch.,	13 21	129 15	...	SSW	7?	orq.
Keong Wai, str.,	12 52	109 30	.72	var.	1	cv.
Wm. le Lacheur, bk.,	12 39	113 38	.70	WNW	1	o.
Bisagno, str.,	12 1	110 5	.72	S	3	or.
Matterhorn, bk.,	11 53	111 43	...	S	1	o.
Azamor, str,	9 38	109 34	.75	WSW	4	o.
Phra Chom Klao, str.,	8 26	105 28	.80	NW	5	or.
Kaisar-i-Hind, str.,	5 27	107 0	.78	SSW	3	or.
Catherine Apcar, str.,	3 13	105 23	.83	S	4	orq.
Airlie, str.,	0 45	125 40	.83	SW	5	oq.
August 20th.						
John Baizley, bk.,	51 13	140 54	29.74	SSW	6	orq.
Taksang, str.,	33 21	123 17	.83	SE	3	...
Ancona, str.,	34 40	135 11	.81	SSW	3	...
City of Peking, str.,	30 22	161 35	.98	var.	2	c.
H.I.A.M.S. Aurora,	28 10	122 24	.77	NE	6	...
Orient, bk.,	27 46	121 45	.76	NNE	6	o.
Pallas, str.,	27 15	123 7	.69	NNE	5	o.
Ask, str.,	23 35	117 40	.70	E	1	k.
Benvenue, str.,	22 57	116 41	.70	NE	4	cm.
Meefoo, str.,	22 32	119 3	.72	NE	4	c.
Frejr, str.,	21 50	113 38	.74	ENE	3	p.
Cassius, str.,	21 32	113 38	.74	NE	2	k.
Yuensang, str.,	21 31	114 49	.73	NE	3	c.
Namyong, str.,	21 31	115 58	.74	NE	2	...
Glenfruin, str.,	21 13	114 13	.71	E	4	cp.
P. N. Blanchard, sh.,	20 25	113 53	...	NE	4	k.
Activ, str.,	20 18	111 10	.73	var.	2	orq.
Preussen, str.,	17 45	113 30	.71	SE	2	c.
Keong Wai, str.,	16 37	110 44	.73	S	2	cv.
Sungkiang, str.,	14 35	120 57	.73	W	4	or.
Lothair, bk.,	14 16	118 56	...	N	2	...
Wm. le Lacheur, bk.,	13 45	113 38	.71	SW	2	oq.
Matterhorn, bk.,	13 20	112 20	...	var.	1	o.
Jenny, sch.,	12 27	130 36	...	SSW	4	k.
Sishan, str.,	12 20	109 24	.69	var.	1	k.
Azamor, str.,	11 59	111 43	.74	var.	1	k.
Holstein, str.,	11 37	109 12	...	S	2	...
Phra Chom Klao, str.,	10 47	108 34	.79	NW	3	k.
Bisagno, str.,	8 55	109 10	.78	WSW	5	or.
Stanfield, bk.,	8 32	118 56	.82	S	2	k.
Bengal, str.,	4 22	106 3	.83	ENE	2	o.
Machew, str.,	4 5	104 8	.81	SW	2	c.
August 21st.						
Riojun Maru, str.,	33 58	130 55	29.74	NNE	3	c.
Ancona, str.,	33 49	131 26	.70	NW	2	k.
Empress of India, str.,	33 47	132 26	.68	NE	4	k.
Toonan, str.,	33 40	122 42	.78	NNE	3	c.
Gisela, str.,	32 25	125 32	.79	NE	6	o.
City of Peking, str.,	31 34	155 38	.91	NE	3	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
August 21st.						
H.I.A.M.S. Aurora,	30° 26′	122° 13′	29.80	N	5	k.
Taksang, str.,	29 42	122 36	.71	N	3	...
Pallas, str.,	29 22	125 54	.63	NE	6	o.
Namoa, str.,	23 20	116 44	.68	...	0	k.
Chi Yuen, str.,	23 6	116 36	.67	...	0	k.
Natal, str.,	22 40	115 53	.74	E	1	k.
Fuping, str.,	22 21	114 57	.72	N	3	k.
P. N. Blanchard, sh.,	21 18	113 58	...	N	3	k.
Hongkong, str.,	20 20	110 55	.75	E	...	b.
Frejr, str.,	20 5	110 20	.70	NE	2	b.
Keong Wai, str.,	19 59	112 37	.75	NE	4	crq.
Propontis, str.,	19 42	112 42	.76	E	1	c.
Cromarty, str.,	19 27	113 42	.73	E	4	k.
Yuensang, str.,	18 22	117 12	.68	W	1	c.
Namyong, str.,	18 17	114 10	.74	var.	1	...
Cassius, str.,	18 7	111 46	.74	S	1	k.
Glenfruin, str.,	16 43	113 30	.71	...	0	cp.
Sishan, str.,	15 52	110 37	.71	...	0	k.
Lothair, bk.,	15 51	118 23	...	SE	2	...
Azamor, str.,	15 22	112 50	.73	W	1	c.
Sungkiang, str.,	14 35	120 57	.72	WSW	4	or.
Phra Chom Klao, str.,	14 30	110 4	.79	N	2	k.
Wm. le Lacheur, bk.,	14 12	113 46	.72	var.	1	k.
Matterhorn, bk,	14 1	112 15	...	...	0	o.
Preussen, str.,	12 39	111 33	.72	SSW	2	c.
Jenny, sch.,	11 33	131 55	...	SSW	6	...
Stanfield, bk.,	10 24	120 14	.80	SW	5	c.
Bengal, str.,	8 28	109 6	.79	W	5	oq.
Phra Nang, str.,	8 17	105 2	.75	WNW	2	orq.
Machew, str.,	7 45	102 35	.79	W	4	o.
Bisagno, str.,	6 36	109 36	.80	WSW	5	or.
Niobe, str.,	5 19	106 10	.86	WSW	4	op.
Siam, str.,	4 16	105 14	.83	WSW	2	o.
Chelydra, str.,	3 44	105 38	.86	SW	3	or.
August 22nd.						
Toonan, str.,	37 36	122 17	29.76	NW	3	c.
Verona, str.,	34 33	134 48	.47	E	7	orq.
Gisela, str.,	33 48	128 39	.67	NE	9	o.
City of Peking, str.,	33 6	149 10	.83	NNE	4	c.
Pallas, str.,	31 39	129 17	.51	NNE	5	o.
H.I.A.M.S. Aurora,	31 20	121 40	.75	NNE	2	k.
Kwanglee, str.,	30 12	122 33	.70	NE	3	b.
Taksang, str.,	26 42	120 34	.64	N	3	k.
Natal, str.,	25 35	120 8	.68	NE	3	k.
Namoa, str.,	24 28	118 4	.67	NNE	1	o.
Chi Yuen, str.,	24 26	118 29	.66	E	1	o.
Fuping, str.,	24 0	118 3	.76	NE	2	b.
Aden, str.,	23 11	117 15	.72	NW	1	k.
Sishan, str.,	19 10	112 20	.75	NE	1	k.
Azamor, str.,	18 37	113 31	.74	NE	4	k.
Phra Chom Klao, str.,	18 10	111 12	.80	NE	1	k.
Loosok, str.,	18 5	108 16	.82	...	0	k.
Lothair, bk.,	17 26	117 49	...	SE	2	...
Propontis, str.,	16 30	111 ...	.77	var.	1	c.
Cromarty, str.,	15 39	113 9	.76	var.	1	k.
Yuensang, str.,	15 21	119 39	.75	SW	4	orl.
Namyong, str.,	15 12	112 40	.76	SW	2	...
Matterhorn, bk.,	15 0	112 33	...	var.	1	...
Cassius, str.,	14 37	110 0	.74	SW	4	k.
Wm. le Lacheur, bk.,	14 35	114 0	.73	SW	1	k.
Sungkiang, str.,	14 35	120 57	.79	W	4	or.
Stanfield, bk.,	13 30	117 51	.80	WSW	6	oq.
Bengal, str.,	13 0	111 55	.75	SW	1	k.
Glenfruin, str.,	12 48	111 23	.73	SW	2	c.
Phra Nang, str.,	10 40	108 26	.74	WNW	3	...
Jenny, sch.,	10 32	133 8	...	SW	4	k.
Oopack, str.,	8 49	108 9	.83	W	5	orq.
Preussen, str.,	8 10	108 54	.77	SW	6	org.
Siam, str.,	7 56	106 30	.80	WSW	5	or.
Chelydra, str.,	7 9	108 15	.84	NW	4	o.
Martha, str.,	4 0	105 54	.86	E	2	orq.
Bisagno, str.,	3 33	105 20	.88	SSW	2	o.
Letimbro, str.,	1 36	104 30	.84	SE	2	k.
August 23rd.						
Toonan, str.,	38 53	117 51	29.78	NNE	4	o.
Verona, str.,	34 40	135 11	.61	...	0	k.
Riojun Maru, str.,	34 22	132 27	.60	...	0	c.
City of Peking, str.,	34 15	142 47	.79	var.	1	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
August 23rd.						
Bentala, str.,	32° 22′	129° 39′	29.36	NNE	5	...
Empress of India, str.,	31 48	125 45	.53	N	5	k.
Peiyang, str.,	31 15	121 43	.65	NNW	4	c.
Ancona, str.,	30 42	126 30	.47	N	6	k.
Natal, str.,	29 29	122 37	.66	NW	2	k.
Chi Yuen, str.,	26 57	120 25	.65	SSW	2	k.
Fuping, str.,	26 30	120 5	.69	ESE	3	b.
Kwanglee, str.,	26 14	120 31	.71	SW	3	b.
Namoa, str.,	26 8	119 39	.66	W	1	o.
Taksang, str.,	23 47	119 44	.65	S	1	m.
Azamor, str.,	22 3	114 2	.77	SW	2	k.
Activ, str.,	21 39	113 21	.76	SW	3	oq.
Framnes, str.,	21 38	113 47	.79	W	3	c.
Phra Chom Klao, str.,	21 31	113 26	.82	NE	2	k.
Lothair, bk.,	18 11	117 10	...	SSE	1	...
Bengal, str.,	17 45	113 28	.87	SW	2	k.
Loosok, str.,	15 41	108 36	.82	...	0	k.
Wm. le Lacheur, bk.,	15 11	114 3	.77	SE	1	o.
Matterhorn, bk.,	15 5	113 33	...	var.	1	p.
Sungkiang, str.,	14 35	120 57	.82	SW	2	c.
Yuensang, str.,	14 34	120 52	.83	SW	5	c.
Stanfield, bk.,	14 24	116 27	.82	SW	6	kq.
Phra Nang, str.,	14 8	110 7	.76	NE	1	k.
Propontis, str.,	12 41	110 14	.71	SSE	4	c.
Namyong, str.,	12 18	110 54	.79	SSW	2	...
Cromarty, str.,	12 14	111 15	.75	SSW	4	o.
Niobe, str.,	11 40	110 56	.80	E	2	m.
Cassius, str.,	10 52	108 48	.75	WSW	6	k.
Chelydra, str.,	10 51	110 35	.78	W	3	p.
Jenny, sch.,	9 57	134 1	...	WSW	2	k.
Glenfruin, str.,	9 40	108 52	.76	SW	5	oq.
Martha, str.,	6 56	107 29	.82	WSW	5	orq.
Letimbro, str.,	4 58	106 0	.89	WSW	3	o.
Preussen, str.,	4 15	106 11	.94	SW	2	c.
August 24th.						
Toonan, str.,	38 53	147 51	29.78	N	4	o.
Evandale, str.,	38 51	146 30	.67	NW	2	c.
Nanyang, str.,	37 27	122 49	.65	N	4	c.
Riojun Maru, str.,	34 22	132 27	.49	NE	3	c.
Verona, str.,	34 7	135 0	.45	NE	4	k.
Bentala, str.,	30 23	126 48	.33	NW	...	...
Chi Yuen, str.,	29 52	122 36	.60	NW	4	c.
Fuping, str.,	28 31	121 53	.64	NW	3	o.
Ancona, str.,	27 48	122 13	.64	NW	4	k.
Peiyang, str.,	27 38	121 22	.63	NW	1	o.
Namoa, str.,	26 8	119 39	.63	var.	1	o.
Taisang, str.,	25 0	119 39	.68	SSW	4	c.
Kwanglee, str.,	23 17	117 40	.69	SW	2	g.
Fushun, str.,	23 4	117 16	.71	SW	2	m.
Bygdo, str.,	21 23	114 46	.77	SW	2	k.
Activ, str.,	20 10	110 33	.73	SSW	2	c.
Frejr, str.,	20 10	110 0	.70	SE	3	p.
Lothair, bk.,	19 8	116 47	...	SE	1	...
Framnes, str.,	18 23	112 15	.78	SSW	3	c.
Phra Nang, str.,	17 57	111 14	.72	ESE	1	k.
Wm. le Lacheur, bk.,	16 12	114 8	.75	SW	2	o.
Matterhorn, bk.,	16 6	113 40	...	var.	2	o.
Stanfield, bk.,	15 18	116 0	.82	SW	6	k.
Niobe, str.,	15 14	112 47	.77	S	2	cp.
Chelydra, str.,	14 39	112 54	.77	S	3	cp.
Sungkiang, str.,	14 35	120 57	.81	SSW	4	c.
Tailee, str.,	13 1	120 29	.83	...	0	o.
Loosok, str.,	11 49	109 17	.81	SW	1	k.
Ocampo, str.,	11 3	109 12	.81	W	5	k.
Sabine Rickmers, str.,	10 26	121 51	.82	SW	3	c.
Namyong, str.,	9 56	110 2	.78	SW	4	...
Martha, str.,	9 53	109 40	.80	W	5	c.
Propontis, str.,	9 45	109 30	.79	SW	5	o.
Jenny, sch.,	9 39	135 20	...	...	...	k.
Cromarty, str.,	9 33	109 47	.81	WSW	7	c.
Letimbro, str.,	8 13	108 4	.84	WSW	3	k.
Glenfruin, str.,	6 30	106 47	.79	SW	4	c.
August 25th.						
Toonan, str.,	38 38	117 5	29.74	N	3	o.
City of Peking, str.,	34 25	138 39	.69	SSE	3	c.
Verona, str.,	34 25	138 21	.62	SE	5	o.
Gisela, str.,	34 25	134 17	.41	SE	10	c.
Riojun Maru, str.,	34 22	132 28	.19	E	2	or.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
August 25th.						
Nanyang, str.,	32° 54′	123° 1′	29.58	NNW	4	c.
Natal, str.,	31 20	124 8	.58	NNE	2	k.
Fuping, str.,	30 29	122 41	.67	WNW	5	o.
Bentala, str.,	28 31	124 9	.56	NW	4	...
Taisang, str.,	28 31	122 1	.64	NNE	4	c.
Tsinan, str.,	28 6	121 31	.60	SE	4	cm.
Rohilla, str.,	27 12	121 15	.66	var.	1	...
Empress of India, str.,	26 50	120 52	.62	...	0	k.
Fushun, str.,	26 33	120 8	.68	ENE	2	...
Namoa, str.,	26 8	119 39	.62	W	1	o.
Peiyang, str.,	24 36	119 5	.63	S	2	...
Ancona, str.,	24 34	119 1	.67	SSE	2	k.
Lyeemoon, str.,	22 30	115 31	.66	S	1	b.
Activ, str.,	21 17	109 10	.72	WNW	3	c.
Phra Nang, str.,	21 8	113 35	.70	WNW	2	k.
Lothair, bk.,	20 49	116 3	...	SE	2	...
Frejr, str.,	20 39	111 40	.70	W	1	b.
Niobe, str.,	19 19	113 28	.73	S	3	c.
Memnon, str.,	19 16	115 13	.75	WSW	2	c.
Chelydra, str.,	18 47	113 38	.73	var.	1	c.
Bygdo, str.,	18 3	116 56	.73	SW	3	k.
Matterhorn, bk.,	17 41	113 56	...	W	2	o.
Wm. le Lacheur, bk.,	17 38	114 16	.70	W	4	p.
Stanfield, bk.,	17 23	115 7	.70	WSW	1	...
Zafiro, str.,	16 0	119 5	.78	SSW	4	or.
Framnes, str.,	15 16	110 20	.76	S	2	orq.
Sungkiang, str.,	14 35	120 57	.83	S	4	or.
Ocampo, str.,	14 23	109 29	.76	N	2	k.
Sabine Rickmers, str.,	13 29	120 4	.84	SW	4	o.
Martha, str.,	13 13	110 40	.79	SW	2	k.
Letimbro, str.,	11 3	110 56	.84	SW	4	k.
Jenny, sch.,	9 10	136 26	...	W	...	k.
Donar, str.,	9 3	106 9	.81	SW	4	c.
Loosok, str.,	8 47	107 18	.87	SW	5	k.
Cromarty, str.,	6 39	107 40	.84	SW	6	orq.
Propontis, str.,	6 5	107 43	.85	SW	2	op.
Gartha, bk.,	3 40	110 35	.87	SSW	2	c.
Glenfruin, str.,	2 53	104 41	.90	SW	4	orq.
August 26th.						
Toonan, str.,	38 38	117 3	29.82	var.	1	c.
Riojun Maru, str.,	34 22	132 28	.66	SSW	1	c.
Fuping, str.,	32 32	122 57	.86	NW	5	k.
City of Peking, str.,	32 31	134 4	.73	SW	4	c.
Helene Rickmers, str.,	32 23	128 50	.70	W	3	k.
Fushun, str.,	29 31	122 25	...	N	2	o.
Nanyang, str.,	28 55	122 23	.78	NW	2	ogd.
Choysang, str.,	28 6	121 41	.79	NNE	2	or.
Bentala, str.,	26 37	121 25	.73	SE	2	...
Lyeemoon, str.,	25 22	119 55	.72	NE	1	o.
Tsinan, str.,	24 59	119 28	.70	S	3	c.
Bengal, str.,	24 34	119 5	.69	SE	2	k.
Namoa, str.,	24 24	119 30	.71	NE	1	o.
Rohilla, str.,	23 32	117 47	.72	S	2	k.
Empress of India, str.,	23 27	117 41	.68	SSW	1	k.
Guthrie, str.,	23 13	117 23	.70	SW/S	1	k.
Peiyang, str.,	22 32	115 45	.69	SSW	4	cq.
Ancona, str.,	22 20	114 55	.70	WSW	3	o.
Lothair, bk.,	22 5	114 51	...	SE	2	...
Activ, str.,	21 29	109 5	.71	E	3	oq.
Matterhorn, bk.,	18 44	114 12	...	S	2	o.
Wm. le Lacheur, bk.,	18 40	114 15	...	var.	5	o.
Stanfield, bk.,	18 33	114 28	...	SW	4	k.
Ocampo, str.,	18 7	108 24	.75	W	4	or.
Martha, str.,	16 37	110 46	.75	WNW	5	o.
Sabine Rickmers, str.,	16 21	118 9	.79	SW	3-8	orq.
Bygdo, str.,	15 27	119 38	.81	S	3	oq.
Memnon, str.,	15 9	116 28	.75	var.	5	orq.
Sungkiang, str.,	14 35	120 57	.88	...	0	or.
Letimbro, str.,	14 23	113 15	.79	SSW	3	o.
Donar, str.,	12 2	109 4	.72	var.	3	b.
Framnes, str.,	11 30	108 59	.77	S	4	o.
Jenny, sch.,	9 6	137 19	...	W	? 2	...
Gartha, bk.,	5 35	110 35	.87	W	4	q.
Loosok, str.,	5 23	106 7	.91	SW	3	k.
Propontis, str.,	4 25	105 53	.86	SW	4	o.
Cromarty, str.,	3 34	105 47	.88	SW	4	orq.
Cambusdoon, bk.,	2 15	107 35	.86	SW	5	orq.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 27th.						
Toonan, str.,	40° 13′	121° 47′	29.93	var.	2	b.
Asloun, str.,	35 22	146 34	...	SSW	4	orq.
Riojun Maru, str.,	34 22	132 28	.91	SSW	1	b.
City of Peking, str.,	31 47	129 36	.91	var.	1	c.
Victoria, str.,	31 8	122 1	...	NNE	9	cu.
Helene Rickmers, str.,	30 36	125 22	.92	W	1	k.
Bengal, str.,	28 23	122 ...	.90	NE	5	or.
Nanchang, str.,	25 35	119 59	.80	NNE	5	k.
Nanyang, str.,	25 18	119 59	.77	NNE	5	cp.
Bentala, str.,	24 32	119 1	.80	NE	5	...
Choysang, str.,	24 27	119 1	.77	NNE	3	c.
Namoa, str.,	24 28	118 4	.75	NE	2	o.
Mascotte, str.,	22 54	116 30	.77	NE	2	c.
Activ, str.,	21 29	109 5	.76	NNE	2	c.
Benvenue, str.,	21 17	113 41	.74	SE	2	ogr.
Matterhorn, bk.,	20 24	114 3	...	E	4	q.
Wm. le Lacheur, bk.,	19 55	114 16	.72	var.	2	k.
Stanfield, bk.,	19 38	114 3	.74	SE	2	k.
Martha, str.,	19 34	112 31	.74	var.	1	or.
Sabine Rickmers, str.,	18 8	116 4	.75	SW	4	p.
Letimbro, str.,	18 3	114 20	.76	SW	3	o.
Donar, str.,	15 4	110 6	.73	SE	2	b.
Sungkiang, str.,	14 35	120 57	.84	ESE	4	c.
Memnon, str.,	11 18	117 40	.83	SSW	3	o.
Jenny, sch.,	9 8	137 28	...	W?	4	orq.
Framnes, str.,	8 54	107 ...	.88	WSW	4	o.
Devawongse, str.,	8 53	106 23	.86	SW	5	or.
Gartha, bk.,	8 32	111 6	.79	W	5	c.
Cambusdoon, bk.,	4 8	106 55	.81	SW	4	k.
August 28th.						
Toonan, str.,	40 35	121 59	29.98	NNW	2	c.
Asloun, str.,	35 25	142 21	30.07	WSW	2	k.
Riojun Maru, str.,	34 22	132 28	.03	WSW	1	b.
City of Peking, str.,	32 44	129 50	29.97	SSW	1	c.
Bengloe, str.,	32 35	127 55	.93	E.	...	k.
Lyeemoon, str.,	30 18	122 35	.85	ENE	2	or.
Helene Rickmers, str.,	28 24	122 20	.76	ESE	4	...
Nanchang, str.,	27 37	120 57	.78	NW	5	o.
Mascotte, str.,	24 43	119 4	.79	NNE	5	or.
Gaelic, str.,	24 19	118 18	.71	NE	4	orq.
Namoa, str.,	23 26	117 5	.72	N	2	q.
Meefoo, str.,	23 0	116 40	.73	NE	4	o.
Nanyang, str.,	22 43	116 11	.71	NNE	3	orq.
Ching Ping, str.,	22 24	114 58	.72	NNE	4	q.
Sabine Rickmers, str.,	21 57	114 7	.73	NE	4-7	op.
Frejr, str.,	21 46	113 33	.72	N	3	c.
Letimbro, str.,	21 40	114 0	.71	NNE	4	o.
Matterhorn, bk.,	21 10	113 55	...	var.	4	q.
Wm. le Lacheur, bk.,	20 29	114 15	.76	var.	1	o.
Stanfield, bk.,	20 24	113 31	.75	NE	4	cp.
Activ, str.,	20 4	110 20	.74	ENE	3	oq.
Arratoon Apcar, str.,	19 13	111 59	.69	NE	...	k.
China, str.,	19 7	111 50	.71	NNE	3	o.
Benvenue, str.,	18 18	111 27	.70	NNW	2	op.
Donar, str.,	18 8	111 8	.71	NW	4	eq.
Sungkiang, str.,	14 35	120 57	.82	SW	4	c.
Devawongse, str.,	11 59	109 22	.76	NE	2	k.
Gartha, bk.,	11 58	112 0	.75	SW	6	cp.
Siam, str.,	11 6	108 53	.81	WSW	2	k.
Jenny, sch.,	9 28	138 10	...	W	2	k.
Framnes, str.,	8 40	103 58	.93	WNW	2	oq.
Memnon, str.,	7 39	116 46	.84	SWS	5	o.
Cambusdoon, bk.,	5 48	107 3	.84	S	4	or.
August 29th.						
Toonan, str.,	40 34	121 59	30.02	E	2	o.
Riojun Maru, str.,	34 22	132 28	.08	S	1	c.
Evandale, str.,	34 20	137 18	.14	SSW	2	b.
Natal, str.,	34 16	138 14	.11	NE	1	k.
Gisela, str.,	33 58	130 55	.01	var.	2	k.
City of Peking, str.,	30 36	126 41	29.88	SSE	4	eq.
Nanchang str.,	30 26	122 52	.81	NW	4	c.
Bengloe, str.,	30 15	124 57	.84	ESE	2	cp.
Victoria, str.,	30 9	122 53	...	N	3	cd.
Mascotte, str.,	26 47	124 25	.76	NE	5	o.
Helene Rickmers, str.,	25 36	120 13	.69	NNE	4	...
Meefoo, str.,	25 8	119 37	.71	N	4	op.
Gaelic, str.,	24 44	119 9	.69	NNE	4	orq.
Ching Ping, str.,	23 27	117 42	.72	NE	5	orq.
August 29th.						
Namoa, str.,	23° 20′	116° 44′	29.69	NE	1	o.
Keong Wai, str.,	21 54	114 14	.70	N	4	c.
Matterhorn, bk.,	21 11	114 34	...	NNE	4	q.
Donar, str.,	21 8	113 8	.69	N	6	b.
Stanfield, bk.,	21 2	112 43	...	var.	1	k.
Hongkong, str.,	20 38	107 9	.72	NE	...	c.
Wm. le Lacheur, bk.,	20 42	113 13	.69	N	6	c.
Activ, str.,	20 28	111 13	.74	N	3	orq.
Phra Chom Klao, str.,	18 52	111 33	...	N	4	o.
Sungkiang, str.,	16 15	118 46	.69	SW	4	c.
Devawongse, str.,	15 56	110 23	.75	N	4	or.
China, str.,	15 40	110 17	.75	W	1	orq.
Arratoon Apcar, str.,	15 33	110 13	.72	W	...	k.
Japan, bk.,	15 23	144 40	...	S	6	q.
Benvenue, str.,	15 1	109 32	.72	NW	3	op.
Siam, str.,	14 8	110 11	.76	WSW	4	o.
Gartha, bk.,	13 56	113 46	.71	SW	4	c.
Engelhorn, bk.,	11 21	110 37	...	SW	5	oq.
Kong Beng, str.,	8 32	105 26	.80	W	3	o.
Machew, str.,	8 31	105 53	.82	var.	2	o.
Cambusdoon, bk.,	7 22	107 35	.82	SW	2	o.
Loosok, str.,	1 38	104 24	.77	...	0	k.
August 30th.						
Victoria, str.,	50 2	175 11	29.73	W	5	b.
Toonan, str.,	40 34	121 59	.78	S	4	eq.
Evandale, str.,	34 40	135 11	...	NE	2	c.
Riojun Maru, str.,	34 22	132 28	30.10	SW	1	b.
Nanchang, str.,	34 4	122 47	29.90	var.	2	c.
Victoria, str.,	33 54	122 53	.90	var.	2	orq.
Gisela, str.,	32 3	127 9	.95	SE	6	o.
Mascotte, str.,	28 35	123 35	.83	E	4	or.
Gaelic, str.,	28 11	123 27	.75	ENE	4	cp.
Bengloe, str.,	27 54	122 15	.78	SE	3	p.
City of Peking, str.,	27 12	121 55	.80	SE	2	c.
Meefoo, str.,	26 54	120 24	.78	NNE	5	or.
Ching Ping, str.,	25 33	119 40	.78	NNE	6	o.
Helene Rickmers, str.,	23 4	117 8	.66	NE	5	...
Niobe, str.,	23 2	116 9	.71	N	6	ou.
Ask, str.,	22 59	120 13	...	WNW	2	p.
Oldenburg, str.,	22 30	115 30	.68	NNW	6	orq.
Hohenzollern, str.,	22 22	115 9	.71	ENE	5	u.
Activ, str.,	21 50	113 35	.72	NE	5	k.
Matterhorn, bk.,	21 27	114 23	...	NNW	...	q.
Stanfield, bk.,	21 22	112 34	.74	N	5	...
Wm. le Lacheur, bk.,	21 3	112 38	.70	N	4	k.
Zafiro, str.,	20 38	115 21	.70	N	4	c.
Sungkiang, str.,	19 22	116 31	.67	N	3	c.
Devawongse, str.,	19 20	112 3	.73	N	4	k.
Keong Wai, str.,	18 32	111 56	.71	N	5	c.
Rohilla, str.,	17 40	113 33	.67	NE	4	k.
Siam, str.,	17 17	111 17	.74	N	4	k.
Gartha, bk.,	15 43	114 47	.67	W	4	cpq.
Phra Chom Klao, str.,	15 11	109 36	.63	var.	3	opq.
Japan, bk.,	15 9	141 18	...	S	2	or.
Engelhorn, bk.,	13 38	112 8	...	NW	2	o.
China, str.,	11 52	109 19	.71	SE	1	o.
Arratoon Apcar, str.,	11 25	109 13	.69	SSW	4	...
Benvenue, str.,	11 12	108 57	.66	N	3	o.
Kong Beng, str.,	11 3	108 46	.72	W	2	k.
Loosok, str.,	5 54	103 31	.88	SW	1	k.
Machew, str.,	4 8	108 51	.75	W	var.	k.
August 31st.						
Victoria, str.,	48 39	168 11	29.97	SW	3	c.
Toonan, str.,	40 35	121 59	.80	SW	5	eq.
Nanchang, str.,	37 32	122 12	.90	N	3	k.
Riojun Maru, str.,	34 22	132 28	30.00	...	0	b.
Kagoshima Maru, str.,	34 5	132 23	.06	S	1	b.
Gaelic, str.,	31 46	128 0	29.90	E	4	c.
Mascotte, str.,	30 24	126 12	.93	E	5	c.
Gisela, str.,	29 13	123 48	.83	SE	5	or.
Fushun, str.,	28 57	122 11	.84	ESE	3	orq.
Meefoo, str.,	28 51	122 10	.78	E	4	or.
Ching Ping, str.,	27 24	120 45	.74	N/E	4	md.
Bengloe, str.,	25 8	119 41	.68	NNE	4	od.
Niobe, str.,	25 2	119 9	.71	NE	6	cm.
Oldenburg, str.,	25 ...	120 ...	.68	NNE	4	o.
Hohenzollern, str.,	24 29	119 9	.68	NE	5	c.
Ancona, str.,	23 25	117 40	.66	NE	2	k.

AUGUST, 1895.

August 31st.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
City of Peking, str.,	23° 14′	117° 29′	29.72	var.	2	c.
Ask, str.,	22 59	120 12	...	SSE	1	o.
Devawongse, str.,	21 40	113 40	.69	E	4	k.
Wm. le Lacheur, bk.,	21 15	113 5	.64	SW	...	...
Frejr, str.,	20 30	111 19	.69	NNE	5	q.
Siam, str.,	20 17	113 4	.66	NNE	4	...
Guthrie, str.,	18 25	116 14	.70	ENE	4	p.
Zafiro, str.,	17 34	118 14	.68	SE	3	c.
Gartha, bk.,	16 16	115 11	.71	NE	2	oq.
Japan, bk.,	15 9	139 10	...	S	...	orq.

August 31st.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Keong Wai, str.,	14° 51′	110° 13′	29.70	NW	3	c.
Machew, str.,	14 34	110 10	.67	N	2	k.
Kong Beng, str.,	14 26	110 4	.68	NW	2	k.
Engelhorn, bk.,	14 11	112 16	...	NE	2	oq.
Rohilla, str.,	13 16	111 38	.64	WSW	2	c.
Cambusdoon, bk.,	11 51	112 2	.62	W	2	k.
Phra Chom Klao, str.,	11 5	108 40	.65	SW	4	o.
Arratoon Apcar, str.,	8 34	108 24	.69	W/N	7	...
Loosok, str.,	8 19	102 38	.77	W	1	q.

SEPTEMBER, 1895.

September 1st.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Victoria, str.,	46° 52′	160° 48′	29.98	S	3	c.
Toonan, str.,	40 35	121 59	.82	SW	2	o.
Esang, str.,	35 2	122 50	.87	SSE	2	o.
Kagoshima Maru, str.,	31 0	130 50	30.00	SE	1	b.
Riojun Maru, str.,	30 18	126 33	29.93	SE	4	c.
Taisang, str.,	29 37	122 22	.84	SE	3	c.
Oldenburg, str.,	29 30	122 15	.81	SE	3	c.
Ching Ping, str.,	28 20	121 53	.80	ESE	3	o.
Fushun, str.,	27 31	121 14	.81	ESE	3	m.
Niobe, str.,	27 1	123 8	.82	SE	6	c.
Hohenzollern, str.,	26 54	123 30	.80	E	4	c.
Ancona, str.,	26 18	121 20	...	E	5	k.
Gisela, str.,	26 15	120 39	.78	SE	5	c.
Kwanglee, str.,	23 30	117 22	.79	NE	1	b.
Bengloe, str.,	22 55	116 39	.73	ENE	2	k.
Phra Nang, str.,	21 57	113 52	.74	WNW	1	k.
Wm. le Lacheur, bk.,	21 14	113 27	.71	NE	4	k.
Sishan, str.,	20 47	114 30	.71	NE	2	k.
Machew, str.,	18 6	111 25	.64	N	3	oq.
Kong Beng, str.,	17 50	111 15	.67	N	4	q.
Esmeralda, str.,	17 15	118 14	.76	var.	1	k.
Gartha, bk.,	16 49	115 31	.63	ENE	1	o.
Japan, str.,	15 9	136 0	.74	S	...	orq.
Engelhorn, bk,	15 8	111 34	...	var.	1	...
Guthrie, str.,	15 0	119 8	...	SE/S	2	orq.
Tailee, str.,	14 28	120 10	.64	SW	4	orq.
Cambusdoon, bk.,	12 59	113 9	.64	var.	var.	p.
Holstein, str.,	12 0	109 21	.62	N	1	...
Keong Wai, str.,	10 54	108 34	.72	SW	3	or.
Loosok, str.,	10 40	101 31	.81	W	4	q.
Rohilla, str.,	9 22	109 15	.71	WSW	5	o.
Phra Chom Klao, str.,	8 55	106 41	.73	WSW	6	o.
Arratoon Apcar, str.,	5 38	107 11	.77	SW	6	...
Bombay, str.,	4 20	105 56	.85	SW/W	4	c.
Guildhall, str.,	3 12	105 15	.83	SW	2	k.

September 2nd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Victoria, str.,	45 29	155 8	30.09	NE	4	b.
Toonan, str.,	40 35	121 59	29.86	SSW	2	c.
Verona, str.,	34 42	139 7	.92	NNE	3	k.
Gaelic, str.,	33 46	132 25	.93	E	1	c.
Ching Ping, str.,	31 31	122 56	.79	S	3	k.
Esang, str.,	31 16	123 6	.83	S	3	k.
Chi Yuen, str.,	29 52	122 36	.83	SSE	1	k.
Hohenzollern, str.,	29 22	128 21	.88	E	4	c.
Ancona, str.,	29 19	125 4	.82	E	3	k.
Kagoshima Maru, str.,	28 55	127 22	.98	E	4	b.
Niobe, str.,	28 9	126 5	.78	E	6	cq.
Riojun Maru, str.,	27 12	123 15	.85	SE	3	b.
Kwanglee, str.,	26 13	119 55	.84	NE	6	b.
Taisang, str.,	25 57	120 13	.82	ENE	2	c.
Fushun, str.,	24 13	118 24	.72	NE	2	...
Gisela, str.,	23 8	117 14	.73	NNE	6	c.
Ask, str.,	22 59	120 12	...	W	2	o.
Activ, str.,	21 48	113 40	.70	SW	2	oq.
Wm. le Lacheur, bk.,	21 39	113 14	.75	var.	2	k.
Machew, str.,	21 28	113 31	.70	NE	4	k.
Kong Beng, str.,	21 2	113 3	.76	NNE	3	o.
Esmeralda, str.,	20 35	115 31	.77	E	5	k.
Phra Nang, str.,	20 10	110 23	.75	var.	1	orq.
Gartha, bk.,	18 18	115 15	.69	NE	3	o.
Sishan, str.,	17 24	111 36	.67	var.	2	orq.
Tailee, str.,	17 14	117 22	.61	NE	4	q.
Engelhorn, bk.,	15 35	112 35	...	var.	1	orq.
Japan, str.,	15 18	134 31	.74	S	...	orq.

September 2nd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Holstein, str.,	15° 0′	110° 15′	29.65	NW	4	...
Cambusdoon, bk.,	14 42	113 0	.62	...	0	k.
Cassius, str.,	14 38	110 12	.74	WNW	5	or.
Guthrie, str.,	12 14	120 50	.73	SSW	5	orq.
Phra Chom Klao, str.,	8 42	104 2	.80	W	5	orq.
Keong Wai, str.,	8 8	107 0	.76	SW	4	o.
Bombay, str.,	7 43	108 17	.86	W	3	orq.
Guildhall, str.,	6 5	107 10	.86	SW	2	k.
Rohilla, str.,	5 55	107 23	.84	SW	3	o.
Benlarig, str.,	5 0	106 9	.92	SW	4	o.
Arratoon Apcar, str.,	2 42	104 58	.87	SW/S	4	...

September 3rd.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Victoria, str.,	42 49	148 27	29.93	var.	2	fp.
Toonan, str.,	37 33	121 26	.87	W	2	b.
Verona, str.,	34 37	135 10	.96	S/W	2	k.
Ching Ping, str.,	34 33	123 9	.84	N	4	o.
Hohenzollern, str.,	32 23	133 33	.97	E	2	c.
Ancona, str.,	32 19	129 10	.85	E	4	k.
Niobe, str.,	30 7	129 9	.85	ESE	7	c.
Kwanglee, str.,	29 32	122 23	.84	NNE	5	b.
Esang, str.,	27 47	121 16	.74	NNE	8	orq.
Chi Yuen, str.,	27 1	120 26	.69	NE/N	7	oq.
Kagoshima Maru, str.,	26 46	124 19	.62	ENE	5	b.
Hailoong, str.,	25 13	121 9	.65	NE/N	8	orq.
Riojun Maru, str.,	25 8	121 45	.61	NE/N	4	o.
Tailee, str.,	23 7	114 56	.66	N/E	4	c.
Ask, str.,	22 59	120 12	.36	N	5	orq.
Sabine Rickmers, str.,	22 48	116 21	.67	E	1	v.
Frejr, str.,	22 2	113 52	.65	W	4	p.
Wm. le Lacheur, bk.,	21 36	113 29	.69	NW	2	k.
Activ, str.,	20 19	111 5	.75	var.	2	oq.
Gartha, bk.,	19 51	114 17	.69	NE	3	c.
Holstein, str.,	17 9	110 48	.64	N	2	...
Cassius, str.,	16 59	110 36	.68	NNW	4	cv.
Engelhorn, bk.,	15 46	113 8	...	var.	1	k.
Japan, bk.,	15 21	133 0	.78	S	7	...
Cambusdoon, bk.,	15 18	113 20	.64	var.	2	k.
Sishan, str.,	13 28	109 38	.74	SW	2	orq.
Phra Chom Klao, str.,	11 20	101 36	.68	SW	4	orq.
Bombay, str.,	11 11	110 54	.77	WSW	6	c.
Guildhall, str.,	8 56	109 32	.90	SW	4	or.
Guthrie, str.,	8 51	121 52	.80	SW	5	m.
Benlarig, str.,	8 3	108 43	.87	SW	4	o.
Khedive, str.,	4 50	105 56	.91	SSW	3	o.
Keong Wai, str.,	4 41	106 2	30.00	S	4	o.
Rohilla, str.,	2 8	104 38	29.90	SW/S	3	k.

September 4th.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
Victoria, str.,	39 6	144 9	30.00	S	2	b.
Ching Ping, str.,	37 33	122 23	29.92	...	0	k.
Toonan, str.,	35 37	122 50	.88	S	2	c.
Gaelic, str.,	34 28	138 27	30.02	E	1	c.
Verona, str.,	34 2	130 47	29.94	E S	4	k.
Mary, bk.,	32 13	126 55	...	E	6	orq.
Niobe, str.,	32 5	133 6	.98	SE/E	5	c.
Evandale, str.,	31 29	122 54	.96	SSW	5	b.
Mount Lebanon, str.,	29 37	128 13	.80	ESE	6	k.
Chi Yuen, str.,	29 7	120 26	.58	NE	6	orq.
Osaka, bk.,	28 41	123 19	...	NE/E	7	...
Esang, str.,	27 47	121 16	.56	NE	6	o.
Kagoshima Maru, str.,	25 11	121 25	.27	N	7	cr.
Riojun Maru, str.,	25 9	121 45	.37	N	6	orq.
Hailoong, str.,	24 27	118 4	.55	NNE	7	...
Choysang, str.,	23 12	116 54	.58	NNW	1	c.
Ask, str.,	22 59	120 12	...	N	9	orq.
Nanyang, str.,	22 21	114 52	.60	NW	3	c.

SEPTEMBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 4th.						
Activ, str.,	21° 29′	109° 5′	29.73	...	0	c.
Gartha, bk.,	21 16	114 21	.61	WNW	3	k.
Sungkiang, str.,	20 59	115 15	.59	NW	4	...
Frejr, str.,	20 5	110 20	.63	W	4	b.
Holstein, str.,	20 2	112 34	.59	WNW	4	...
Cassius, str.,	19 42	112 30	.69	WNW	3	cv.
Engelhorn, bk.,	16 38	114 24	...	NW	5	k.
Cambusdoon, bk.,	16 3	113 10	.67	WNW	2	k.
Japan, bk.,	15 50	130 0	...	SSW	7	orq.
Bombay, str.,	14 41	112 32	.73	NW	4	cp.
Guildhall, str.,	12 2	111 37	.80	SW	4	cp.
Benlarig, str.,	11 25	111 18	.77	WSW	4	o.
Sishan, str.,	9 13	109 12	.81	WSW	5	k.
Wandering Jew, sh.,	9 10	109 4	...	WSW	5	oq.
Khedive, str.,	8 52	108 43	.87	SW	3	o.
Guthrie, str.,	5 6	123 27	...	S	4	c.
Keong Wai, str.,	1 31	104 33	.84	SSE	5	o.
September 5th.						
Ching Ping, str.,	38 15	120 3	...	WNW	4	k.
Fuping, str.,	36 6	122 51	29.90	NNE	2	o.
Victoria, str.,	35 25	141 42	30.03	S	2	b.
Niobe, str.,	34 2	137 9	29.99	ESE	4	c.
Ancona, str.,	33 46	132 5	.86	NE	2	k.
Asloun, str.,	33 42	129 59	.81	E	2	o.
Bellona, str.,	33 21	134 23	...	ESE	6	orq.
Toonan, str.,	32 7	122 40	...	NE	4	o.
Mount Lebanon, str.,	28 58	126 46	.55	ESE	8	...
Osaka, bk.,	27 53	123 0	...	NE E	9	or.
Esang, str.,	27 47	121 16	.28	NNW	4	orq.
Chi Yuen, str.,	27 9	120 26	.31	NNW	7	or.
Kagoshima Maru, str.,	25 55	122 10	28.89	W	10	or.
Choy Sang, str.,	25 45	119 45	...	NW	4	og.
Riojun Maru, str.,	25 9	121 45	29.20	WSW	9	orq.
Hailoong, str.,	23 34	117 19	.52	WSW	...	...
Activ, str.,	21 29	109 5	.72	N	1	c.
Letimbro, str.,	19 23	112 14	.70	WSW	4	o.
Engelhorn, bk.,	19 22	114 34	...	NNW	2	k.
Donar, str.,	19 4	112 2	.68	W	4	b.
Bombay, str.,	18 32	113 42	.71	W	4	c.
Sungkiang, str.,	17 46	117 35	.67	W	4	c.
Cambusdoon, bk.,	17 32	113 20	.68	WSW	4	k.
Japan, bk.,	16 47	127 14	.74	SW	6	...
Guildhall, str.,	15 16	112 44	.77	SW	4	k.
Benlarig, str.,	15 1	113 5	.77	SW	4	o.
Khedive, str.,	12 41	111 21	.77	W	2	k.
Wandering Jew, sh.,	12 15	111 10	.78	S	2	k.
Sishan, str.,	5 47	107 13	.84	SSW	2	or.
Guthrie, str.,	1 7	125 32	.84	S	5	k.
September 6th.						
Marie Berg, bk.,	38 46	120 20	...	NNE	...	k.
Ching Ping, str.,	38 53	117 51	...	N	4	k.
Fuping, str.,	36 25	122 48	29.70	N	6	o.
Siam, str.,	34 2	130 48	.64	SE E	5	...
Asloun, str.,	32 57	128 1	.43	SSE	gale	orq.
Bellona, str.,	31 34	131 51	...	ESE	9	orq.
Verona, str.,	31 12	128 13	.35	SSE	8	...
Toonan, str.,	30 43	122 16	.44	NNW	8	orq.
Mount Lebanon, str.,	29 55	126 20	28.90	ESE	12	or.
Choysang, str.,	27 23	120 48	29.57	W	3	c.
Empress of India, str.,	27 8	121 5	.52	NNW	6	c.
Osaka, bk.,	27 4	123 12	...	WNW	7	or.
Esang, str.,	26 40	120 11	.53	S	...	k.
Chi Yuen, str.,	25 58	120 2	.54	WSW	2	k.
Nanyang, str.,	25 10	119 43	.60	var.	1	c.
Riojun Maru, str.,	25 9	121 45	.57	WSW	4	c.
Kagoshima Maru, str.,	25 9	121 45	.49	SW	4	c.
Hailoong, str.,	23 21	116 40	.69	NW	...	...
Engelhorn, bk.,	21 22	114 49	...	NW	2	...
Hongkong, str.,	20 38	107 8	.74	NW	...	b.
Activ, str.,	20 4	110 20	.75	E	1	c.
Cambusdoon, bk.,	19 40	113 46	.67	NW	3	k.
Benlarig, str.,	18 49	113 40	.74	SW	4	k.
Guildhall, str.,	18 33	113 32	.76	WNW	4	k.
Japan, bk.,	18 21	124 46	.74	SSW	5	o.
Phra Nang, str.,	18 5	108 22	.78	NW	2	k.
Gisela, str.,	17 58	113 52	...	WSW	4	c.
Khedive, str.,	16 53	113 12	.77	SW	3	k.
Letimbro, str.,	16 6	110 31	.75	SW	3	o.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 6th.						
Donar, str.,	16° 0′	110° 4′	29.80	S	1	b.
Sungkiang, str.,	14 41	120 7	.83	SW	4	clq.
Wandering Jew, sh.,	13 43	112 22	.76	SW	2	k.
Propontis, str.,	6 19	105 57	.89	SW	4	c.
Changsha, str.,	3 40	124 17	.88	NW	1	k.
Sishan, str.,	2 42	104 40	.88	SSW	1	o.
Keong Wai, str.,	2 26	104 25	.85	W	2	o.
September 7th.						
Jacob Christensen, str.,	40 7	131 13	...	NE	6	or.
Marie Berg, bk.,	38 27	120 27	...	E N	var.	k.
Natal, str.,	34 53	139 21	29.84	S	2	k.
Hohenzollern, str.,	33 49	135 7	.67	SE	6	c.
Victoria, str.,	33 41	135 16	.71	SE	5	c.
Fuping, str.,	32 50	122 39	.79	NW N	7	o.
Siam, str.,	32 29	126 54	.44	N/E	5	...
Empress of India, str.,	31 11	121 56	.73	NW	8	k.
Asloun, str.,	31 7	127 30	.29	NNW	12	o.
Bellona, str.,	30 16	131 12	...	SSE	10	orq.
Toonan, str.,	30 8	122 32	.74	WNW	6	c.
Verona, str.,	30 7	127 58	.18	NW	10	q.
Lycemoon, str.,	30 6	121 56	.82	NW/N	3	c.
Choysang, str.,	30 0	122 34	.74	NNW	7	c.
Mount Lebanon, str.,	28 55	124 18	.74	NNE	5	k.
Nanyang, str.,	28 14	121 45	.77	N	6	b.
Osaka, bk.,	26 4	120 27	...	N/W	...	...
Riojun Maru, str.,	25 9	121 45	.82	N W	3	b.
Kagoshima Maru, str.,	25 9	121 45	.73	NW	3	b.
Esang, str.,	23 27	117 41	.78	NNE	3	k.
Khedive, str.,	21 6	113 55	.82	NNE	4	...
Activ, str.,	20 40	111 36	.85	N	4	k.
Cambusdoon, bk.,	20 31	113 18	...	NNE	4	k.
Japan, bk.,	18 22	124 6	...	...	0	...
Yuensang, str.,	14 59	119 48	.82	SW	6	cp.
Wandering Jew, sh.,	14 48	113 7	.78	WSW	2	k.
Sungkiang, str.,	14 35	120 57	.85	SW	5	o.
Phra Nang, str.,	14 31	109 22	.80	SW	2	k.
Gisela, str.,	13 54	112 16	.81	SW	3	c.
Letimbro, str.,	12 25	109 45	.80	S	3	k.
Donar, str.,	12 6	109 5	.80	S	4	b.
Benvenue, str.,	10 20	107 39	.84	W	2	k.
Propontis, str.,	9 49	107 5	.85	SW	3	c.
Changsha, str.,	7 3	121 55	.88	WNW	2	k.
Keong Wai, str.,	6 46	102 49	.84	WNW	3	b.
September 8th.						
Marie Berg, bk.,	38 39	119 56	...	N	4	k.
Gaelic, str.,	37 29	144 56	29.84	SSE	4	c.
Jacob Christensen, str.,	36 20	131 9	...	W	6	c.
Natal, str.,	32 15	137 20	.78	SW	3	or.
Empress of India, str.,	31 33	124 34	.88	NNW	5	k.
Nanyang, str.,	31 15	121 43	.92	NW	4	c.
Evandale, str.,	30 10	122 50	30.08	WNW	2	c.
Fuping, str.,	29 6	122 28	.01	W N	4	b.
Bellona, str.,	29 2	129 52	...	WNW	6	o.
Siam, str.,	29 0	123 23	...	NE	4	...
Asloun, str.,	28 32	126 4	29.89	NNW	5	k.
Verona, str.,	28 13	124 15	.91	NW/N	4	k.
Bengal, str.,	28 12	121 54	.96	NW	4	k.
Kwanglee, str.,	27 45	121 27	.94	N	4	b.
Orient, bk.,	26 28	122 25	.94	N	1	k.
Toonan, str.,	26 15	120 29	.93	NE	2	c.
Lycemoon, str.,	25 42	120 11	.96	NE	1	b.
Riojun Maru, str.,	25 9	121 45	.94	NE	3	b.
Kagoshima Maru, str.,	25 9	121 45	.90	ENE	3	c.
Tai Lee, str.,	22 54	116 58	.90	NE	6	k.
Fushun, str.,	22 24	115 15	.95	ENE	3	k.
Activ, str.,	22 0	113 45	.94	N	3	k.
Cambusdoon, bk.,	21 16	112 58	...	NNE	4	k.
Japan, bk.,	18 30	123 26	...	NE	...	orq.
Yuensang, str.,	18 19	117 11	.85	NE	1	cp.
Wandering Jew, sh.,	15 46	113 0	...	SSW	2	k.
Sungkiang, str.,	14 35	120 57	.86	W	1	c.
Devawongse, str.,	14 27	109 54	.83	W	2	o.
Benvenue, str.,	12 38	109 31	.85	NW	3	o.
Changsha, str.,	11 15	121 25	.86	NW	4	or.
Keong Wai, str.,	10 40	101 35	.84	W	4	c.
Loosok, str.,	10 34	102 17	.85	SW	3	k.
Gisela, str.,	10 17	109 47	.89	SW	6	q.
Donar, str.,	9 2	107 1	.92	SW	4	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 8th.						
Letimbro, str.,	8° 54′	108° 16′	...	SW	4	k.
Memnon, str.,	8 18	119 16	29.89	W	4	c.
Namyong, str.,	7 7	107 4	.92	SW	2	...
Pingsuey, str.,	4 35	106 24	.97	S	3	c.
Kutsang, str.,	3 54	106 1	.95	S	2	c.
September 9th.						
Gaelic, str.,	40 24	151 11	30.10	S	4	c.
Marie Berg, bk.,	40 8	121 30	...	SW	5	m.
Victoria, str.,	38 ...	121 30	...	S	...	b.
Ancona, str.,	33 40	136 27	29.96	NNE	1	k.
Lyderhorn, str.,	30 32	126 41	30.02	N	5	c.
Evandale, str.,	29 55	122 25	.14	NE	5	c.
Bellona, str.,	28 17	125 36	...	N	5	k.
Meefoo, str.,	28 12	121 56	.11	NE	1	o.
Orient, bk.,	27 22	121 50	.04	NE	4	k.
Asloun, str.,	26 19	122 24	03	E	2	k.
Fuping, str.,	25 39	120 11	.06	NNE	4	o.
Verona, str.,	25 17	119 59	.00	NEE	4	k.
Siam, str.,	25 14	119 51	...	NE	5	...
Riojun Maru, str.,	25 9	121 45	29.99	E	3	o.
Kagoshima Maru, str.,	25 9	121 45	.95	E	2	c.
Tailee, str.,	24 46	119 21	.99	NEN	7	c.
Bengal, str.,	24 10	118 13	.98	NE	5	o.
Fushun, str.,	24 9	118 19	30.05	NE	4	o.
Kwanglee, str.,	24 7	118 27	29.99	NE	6	b.
Toonan, str.,	23 25	117 26	.96	NE	5	b.
Lyeemoon, str.,	22 42	116 15	...	NE	3	b.
Yuensang, str.,	21 46	114 35	.95	NE	6	c.
Cambusdoon, bk.,	21 40	113 17	...	ENE	var.	o.
Esmeralda, str.,	20 46	118 50	.86	NE	4	k.
Japan, bk.,	19 48	119 41	...	NE	6	k.
Wandering Jew, sh.,	15 56	112 51	...	N	...	orq.
Benvenue, str.,	15 50	110 8	.86	NNW	2	k.
Changsha, str.,	14 55	119 12	.81	NWN	3	og.
Sungkiang, str.,	14 35	120 57	.84	NW	2	o.
Memnon, str.,	11 59	119 37	.81	N	4	orq.
Devawongse, str.,	10 28	108 9	.89	SW	2	o.
Namyong, str.,	10 25	108 44	.90	WSW	4	..
Loosok, str.,	8 35	105 22	.97	S	1	k.
Pingsuey, str.,	8 22	109 10	.93	W	4	c.
Jenny, sch.,	8 13	137 47	...	WSW	6	...
Donar, str.,	8 9	103 9	.89	W	5	orq.
Phra Nang, str.,	7 29	107 7	.86	WSW	3	k.
Kutsang, str.,	7 14	108 26	.92	W	3	c.
Gisela, str.,	6 32	107 34	.91	WSW	4	c.
Letimbro, str.,	5 42	106 41	.90	SW	4	o.
September 10th.						
Gaelic, str.,	42 58	157 46	30.16	SSE	2	op.
Ching Ping, str.,	38 12	120 14	.20	SSE	4	k.
Empress of India, str.,	34 9	132 53	.16	NE	4	k.
Natal, str.,	33 58	130 28	.18	N	1	k.
Victoria, str.,	32 10	133 14	.13	E	4	c.
Lyderhorn, str.,	28 23	122 30	.01	NE	4	o.
Orient, bk.,	27 52	121 54	.05	NE	5	o.
Tailee, str.,	26 32	121 22	.04	NEN	5	erq.
Bellona, str.,	26 20	121 34	...	ENE	4	k.
Fushun, str.,	25 36	119 49	.02	NNE	4	o.
Riojun Maru, str.,	25 9	121 45	.01	ENE	4	or.
Kagoshima Maru, str.,	25 9	121 45	29.94	E	3	c.
Meefoo, str.,	24 54	119 13	.98	NE	4	o.
Asloun, str.,	24 12	118 44	.95	NE	6	k.
Fuping, str.,	23 23	117 14	.99	EN	4	bm.
Bombay, str.,	23 14	116 47	.95	NE	6	c.
Taisang, str.,	22 59	116 40	.93	NE	4	c.
Evandale, str.,	22 52	116 37	.98	ENE	5	b.
Sabine Rickmers, str.,	22 31	115 43	.93	NE	5	b.
Siam, str.,	22 28	115 13	.89	NE	3	...
Activ, str.,	21 50	113 48	.94	NE	3	c.
Cambusdoon, bk.,	21 38	113 29	...	NE	5	o.
Kong Beng, str.,	20 52	114 28	.84	NE	4	o.
Japan, bk.,	20 44	115 53	...	NE	6	...
Hongkong, str.,	20 30	107 52	.84	NE	...	b.
Frejr, str.,	20 26	111 12	.89	ENE	6	c.
Benvenue, str.,	18 7	110 56	.83	NE	7	oq.
Changsha, str.,	18 0	117 8	.79	NEE	7	o.
Wandering Jew, sh.,	17 47	112 43	...	NNE	7	k.
Esmeralda, str.,	16 23	119 46	.78	NE	3	od.
Memnon, str.,	15 31	117 53	.73	var.	2	od.
September 10th.						
Sungkiang, str.,	14° 35′	120° 57′	29.78	N	3	o.
Namyong, str.,	12 51	109 46	.77	NW	5	...
Pingsuey, str.,	12 7	111 36	.77	WNW	5	opq.
Loosok, str.,	11 0	108 48	.85	var.	1	k.
Kutsang, str.,	10 46	110 59	.80	W	3	c.
Devawongse, str.,	8 26	104 49	.82	NW	1	k.
Jenny, sch.,	6 24	137 18	...	SWW	6	k.
Phra Nang, str.,	4 10	105 43	.83	SSW	3	o.
Gisela, str.,	2 59	104 56	.85	SSW	3	k.
Letimbro, str.,	2 43	104 53	.85	SSW	3	o.
September 11th.						
Gaelic, str.,	45 5	164 45	30.17	NNW	4	o.
Victoria, str.,	35 28	122 53	...	...	0	b.
Braemar, str.,	34 32	138 57	.17	NE	2	or.
Empress of India, str.,	34 31	135 7	.12	SSW	2	...
Hohenzollern, str.,	34 20	133 30	.19	NW	2	c.
Natal, str.,	32 9	127 20	.13	SW	2	o.
Tailee, str.,	29 9	123 47	.07	NEN	4	o.
Victoria, str.,	29 6	128 57	.03	ENE	4	b.
Orient, bk.,	27 35	122 45	.03	NE	3	o.
Fushun, str.,	27 18	120 45	...	NE	2	k.
Lyderhorn, str.,	25 52	120 13	29.92	NE	7	orq.
Riojun Maru, str.,	25 9	121 45	.96	ENE	2	o.
Kagoshima Maru, str.,	25 9	121 45	.93	NE	2	or.
Bombay, str.,	24 26	118 29	.91	NE	7	or.
Bellona, str.,	23 27	117 48	...	ENE	5	k.
Taisang, str.,	22 55	119 1	.94	NNE	7	o.
Ask, str.,	22 35	115 30	.88	ENE	6	op.
Mongkut, str.,	22 14	114 16	.86	NE	1	c.
Frejr, str.,	21 57	113 40	.88	E	6	p.
Changsha, str.,	21 4	114 47	.79	NEE	7	cp.
Cambusdoon, bk.,	20 44	114 20	.80	NE	6	o.
Activ, str.,	20 18	111 40	.84	NE	5	c.
Benvenue, str.,	19 59	112 29	.82	NE	7	k.
Memnon, str.,	18 51	115 58	.81	ENE	5	cg.
Wandering Jew, sh.,	18 35	111 40	.77	ENE	9	oq.
Kong Beng, str.,	17 40	111 17	.72	NNE	4	oq.
Pingsuey, str.,	15 46	112 56	.65	E	7	o.
Sungkiang, str.,	14 35	120 57	.76	...	0	c.
Namyong, str.,	13 51	109 50	.69	NNE	6	orq.
Loosok, str.,	13 34	109 43	.76	var.	4	oq.
Kutsang, str.,	13 28	112 21	.64	NNE	3	c.
Devawongse, str.,	10 11	101 45	.75	NW	2	o.
Framnes, str.,	10 5	107 51	.77	SW	2	o.
Jenny, sch.,	6 58	137 7	...	SW/W	6	k.
Shantung, str.,	2 36	108 25	.77	SSW	3	k.
September 12th.						
Gaelic, str.,	46 42	172 25	30.15	WSW	4	c.
Ching Ping, str.,	34 45	122 46	.18	...	0	k.
Braemar, str.,	34 34	135 10	.09	var.	2	...
Tailee, str.,	31 49	127 5	.07	NE	3	k.
Victoria, str.,	31 45	123 14	...	ENE	3	od.
Fushun, str.,	30 37	122 26	.07	NE	1	k.
Oldenburg, str.,	30 0	122 30	.05	ENE	3	c.
Orient, bk.,	28 22	122 39	.00	NE	2	k.
Victoria, str.,	27 6	123 25	.00	ESE	3	b.
Bombay, str.,	26 9	120 26	29.94	NNE	6	c.
Riojun Maru, str.,	25 9	121 45	.93	E	3	b.
Kagoshima Maru, str.,	25 9	121 45	.92	E	3	b.
Ask, str.,	23 30	117 30	...	NE	4	k.
Lyderhorn, str.,	23 9	117 23	.86	NE	7	orq.
Benharig, str.,	22 57	117 3	.94	NE	5	k.
Bellona, str.,	22 14	114 17	...	ENE	5	k.
Benvenue, str.,	22 0	113 52	.91	ENE	3	k.
Activ, str.,	21 29	109 5	.87	ENE	4	c.
Cambusdoon, bk.,	21 16	114 4	.82	ENE	4	o.
Machew, str.,	21 14	114 2	.85	NE	6	k.
Pingsuey, str.,	19 38	113 39	.85	var.	3	or.
Wandering Jew, sh.,	18 47	112 7	.78	ENE	5	oq.
Mongkut, str.,	18 42	111 43	.82	N	5	o.
Kutsang, str.,	17 0	113 20	.82	E	4	cp.
Namyong, str.,	16 46	110 44	.75	E	6	orq.
Loosok, str.,	16 35	110 34	.78	E	4	q.
Sungkiang, str.,	14 35	120 59	.84	W	4	c.
Kong Beng, str.,	14 4	109 22	.65	S	4	c.
Framnes, str.,	12 26	109 24	.76	SSE	1	k.
Jenny, sch.,	7 31	134 42	...	SW	6	k.
Shangtung, str.,	6 7	109 19	.79	SSW	4	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 13th.						
Niobe, str.,	33° 7′	136° 7′	29.89	WSW	3	c.
Ching Ping, str.,	32 31	122 50	30.08	ENE	3	o.
Hohenzollern, str.,	30 33	126 48	.00	NNE	3	c.
Kachidate Maru, str.,	30 16	126 48	29.99	NW	2	k.
Bombay, str.,	29 22	122 14	.99	NE	2	c.
Orient, bk.,	29 11	122 20	.98	NE	3	k.
Victoria, str.,	28 13	121 42	...	NE	2	c.
Kagoshima Maru, str.,	25 51	122 25	.91	NE	4	c.
Chi Yuen, str.,	25 49	119 50	.93	NNE	4	c.
Riojun Maru, str.,	25 8	121 45	.94	ENE	3	b.
Benlarig, str.,	25 1	119 27	.92	NNE	6	o.
Oldenburg, str.,	25 ...	119 45	.92	NNE	4	b.
Victoria, str.,	24 8	118 31	.93	NE	4	c.
Changsha, str.,	22 27	115 5	.96	E	4	c.
Frejr, str.,	21 50	113 43	.92	ENE	3	p.
Activ, str.,	21 29	109 5	.87	ENE	5	c.
Kutsang, str.,	20 35	113 45	.88	NE	3	b.
Wandering Jew, sh.,	19 55	113 47	.87	ENE	...	k.
Namyong, str.,	19 40	111 37	.87	ENE	4	k.
Loosok, str.,	19 27	112 13	.91	ENE	4	...
Machew, str.,	18 10	111 12	.83	ESE	6	q.
Bygdo, str.,	16 35	118 21	.85	W	2	o.
Framnes, str.,	15 2	110 28	.85	S	2	...
Mongkut, str.,	14 51	110 3	.80	S	2	o.
Sungkiang, str.,	14 34	120 58	.86	W	3	c.
China, str.,	12 14	109 23	.79	SSW	1	o.
Kong Beng, str.,	10 36	108 10	.84	WSW	3	c.
Shantung, str.,	9 4	110 29	.86	S	2	k.
Phra Chom Klao, str.,	8 23	104 58	.86	SW	4	oq.
Saratow, str.,	7 0	108 5	.87	S	4	c.
September 14th.						
Empress of India, str.,	37 28	145 5	30.05	NE	4	k.
Ancona, str.,	35 13	139 44	...	NE	3	k.
Ravenna, str.,	31 5	122 47	29.91	ESE	4	o.
Orient, bk.,	29 49	122 39	.97	E	2	k.
Ching Ping, str.,	29 29	122 33	.96	SE	2	k.
Chi Yuen, str.,	28 42	121 55	.94	NE	1	k.
Kagoshima Maru, str.,	28 32	124 52	.87	NE	3	b.
Hohenzollern, str.,	27 54	121 58	.86	E	2	c.
Kachidate Maru, str.,	27 35	123 4	.92	var.	2	k.
Benlarig, str.,	27 7	122 58	.93	NE	4	k.
Ask, str.,	24 40	119 0	...	NNE	4	k.
Changsha, str.,	24 30	118 40	.90	NE	5	c.
Oldenburg, str.,	22 15	114 30	.91	NE	4	b.
Yuensang, str.,	21 29	114 51	.94	NE	4	c.
Verona, str.,	21 8	114 7	.86	ENE	4	k.
Wandering Jew, sh.,	20 55	114 9	...	ENE	2	k.
Activ, str.,	20 14	109 59	.82	E	5	oq.
Frejr, str.,	20 2	110 20	.84	E	3	q.
Bygdo, str.,	19 10	115 59	.87	NE	3	c.
Framnes, str.,	18 21	111 23	.85	SE	2	o.
Zafiro, str.,	16 0	118 50	.79	var.	3	cp.
China, str.,	15 13	110 13	.79	NW	1	c.
Sungkiang, str.,	14 34	120 58	.83	SW	2	c.
Shantung, str.,	12 47	111 40	.81	SW	3	k.
Mongkut, str.,	11 25	109 4	.80	SW	4	k.
Phra Chom Klao, str.,	10 36	108 21	...	SW	4	k.
Saratow, str.,	10 28	111 19	.86	WSW	4	c.
Kong Beng, str.,	8 32	105 29	.87	SW	4	k.
Canton, str.,	1 19	104 21	.95	SW	3	k.
September 15th.						
Ancona, str.,	34 10	135 10	29.95	var.	2	k.
Jacob Christensen, str.,	33 18	128 34	.92	SE	2	k.
Kagoshima Maru, str.,	31 22	127 23	.84	E	3	b.
Riojun Maru, str.,	31 9	127 29	.87	ESE	3	c.
Ravenna, str.,	31 7	127 54	.81	ESE	4	c.
Orient, bk.,	30 11	123 5	.90	SE	2	k.
Benlarig, str.,	29 30	126 14	.87	ESE	4	k.
Choysang, str.,	29 2	122 14	.86	SE	1	b.
Sydney, str.,	27 41	121 41	.85	...	0	k.
Changsha, str.,	27 40	121 29	.88	NNE	2	k.
Ching Ping, str.,	26 25	120 44	.84	var.	1	k.
Ask, str.,	25 11	121 25	...	ENE	2	k.
Kachidate Maru, str.,	24 59	119 29	.85	NE	2	k.
Hohenzollern, str.,	24 4	118 26	.83	E	2	c.
Kwanglee, str.,	23 21	117 6	.82	NE	3	b.
Toonan, str.,	23 11	116 53	.83	NE	3	b.
Lyeemoon, str.,	22 29	115 25	.85	NE/E	2	b.
September 15th.						
Pingsuey,	22° 22′	117° 5′	29.73	NE	4	b.
Framnes, str.,	21 19	113 20	...	NE	3	m.
Wandering Jew, sh.,	21 14	114 4	.79	ENE	2	k.
Activ, str.,	20 24	110 20	.79	E	4	orq.
Zafiro, str.,	19 ...	116 ...	.79	ENE	4	c.
China, str.,	18 29	111 26	.79	ESE	2	c.
Yuensang, str.,	18 17	117 11	.82	ENE	4	cq.
Verona, str.,	16 33	113 36	.79	SE	3	c.
Shantung, str.,	15 56	112 47	.77	var.	1	o.
Sungkiang, str.,	14 34	120 58	.81	S	2	c.
Saratow, str.,	13 58	114 14	.77	NNW	2	ogrq.
Phra Chom Klao, str.,	13 22	109 59	...	NW	3	op.
Propontis, str.,	11 58	109 25	.79	var.	1	c.
Machew, str.,	11 6	108 47	.81	SW	7	k.
Keong Wai, str.,	10 13	102 42	.86	WSW	4	c.
Kong Beng, str.,	10 0	102 36	.84	WSW	3	k.
Mongkut, str.,	8 52	106 32	.80	SW	2	c.
Canton, str.,	5 24	106 26	.93	SSE	3	k.
Rosetta, str.,	4 38	106 10	.89	SSE	2	c.
September 16th.						
Nanchang, str.,	35 19	122 55	29.92	NNW	3	c.
Ancona, str.,	34 40	135 11	.93	ENE	3	k.
Kagoshima Maru, str.,	33 57	130 27	.89	S	3	c.
Tailee, str.,	33 2	128 5	.93	SW/W	2	k.
Benlarig, str.,	32 20	129 20	.95	SE	4	k.
Ravenna, str.,	32 7	132 54	.90	ESE	6	c.
Jacob Christensen, str.,	31 0	126 0	.92	...	0	k.
Orient, bk.,	30 50	124 10	.92	NNE	3	k.
Changsha, str.,	30 15	121 46	.96	NNE	4	k.
Kwanglee, str.,	26 15	119 55	.86	NE	4	b.
Peiyang, str.,	26 1	120 9	.89	NNE	3	c.
Toonan, str.,	25 49	119 45	.87	NNE	4	b.
Choysang, str.,	25 27	119 58	...	NE	3	c.
Formosa, str.,	25 11	121 25	.86	E	2	k.
Ask, str.,	25 11	121 25	....	ENE	2	k.
Lyeemoon, str.,	24 53	119 17	.88	NE	4	c.
Ching Ping, str.,	23 52	118 12	.84	NE	4	k.
Sydney, str.,	23 19	117 36	.86	NW	3	k.
Kachidate Maru, str.,	22 44	115 49	.85	N	2	k.
China, str.,	21 36	113 14	.84	NE	1	k.
Activ, str.,	21 34	113 0	.85	NE	2	c.
Wandering Jew, sh.,	21 7	114 55	...	NE/E	1	k.
Shantung, str.,	19 15	113 35	.80	NE	3	k.
Phra Chom Klao, str.,	17 31	110 26	...	N	3	op.
Saratow, str.,	17 23	116 46	.76	ENE	2	gq.
Ocampo, str.,	17 9	108 17	.86	SSE	2	orq.
Yuensang, str.,	15 10	119 55	.80	S	3	c.
Propontis, str.,	14 36	110 19	.80	N	4	c.
Sungkiang, str.,	14 34	120 58	.79	W	2	c.
Verona, str.,	12 36	111 7	.77	NW	5	cp.
Mongkut, str.,	9 26	103 13	.84	NNW	4	q.
Canton, str.,	9 6	108 55	.84	WNW	4	k.
Rosetta, str.,	8 40	109 15	.85	WSW	4	cv.
Keong Wai, str.,	8 34	105 58	.84	SSW	4	c.
Machew, str.,	7 33	107 15	.85	SW	6	k.
September 17th.						
Ancona, str.,	34 40	135 11	29.94	SW	4	k.
Riojun Maru, str.,	34 22	132 28	30.01	NW	1	b.
Kagoshima Maru, str.,	34 22	132 28	...	NE	1	b.
Ravenna, str.,	33 44	137 37	29.98	ENE	4	c.
Changsha, str.,	31 26	121 30	30.02	N	2	k.
Orient, bk.,	31 32	123 3	29.98	NNE	3	k.
Nanchang, str.,	31 27	123 9	.99	ENE	4	c.
Celeste Burrill, sh.,	30 37	122 26	...	ENE	5	k.
Tailee, str.,	30 31	125 5	30.00	NNE	2	k.
Kwanglee, str.,	29 43	122 30	29.95	NE	3	p.
Pingsuey, str.,	29 21	122 23	.99	NNE	4	b.
Toonan, str.,	28 56	122 0	.96	NNE	3	c.
Lyeemoon, str.,	28 46	122 3	.99	NE N	2	o.
Jacob Christensen, str.,	28 36	123 26	.99	N	5	c.
Ask, str.,	25 11	121 25	...	NNE	2	k.
Formosa, str.,	25 11	121 25	.89	NE	2	cp.
H.M.S. Peacock,	23 59	118 31	.89	ENE	4	c.
Lyderhorn, str.,	23 8	116 52	.85	NE	4	...
Ching Ping, str.,	22 23	114 55	.86	ENE	4	k.
H.M.S. Redbreast,	21 49	113 55	.90	E	3	c.
Frejr, str.,	20 10	110 8	.90	E	2	b.
Saratow, str.,	20 6	119 52	.81	NE	4	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
September 17th.						
Phra Chom Klao, str.,	19° 55′	112° 28′	...	NE	4	k.
Propontis, str.,	17 16	111 8	29.87	NNE	4	c.
Sungkiang, str.,	14 34	120 58	.80	...	0	c.
Ocampo, str.,	13 8	109 44	.91	WNW	2	o.
Rosetta, str.,	13 4	112 2	.79	N	4	cp.
Canton, str.,	12 32	111 29	.86	N	5	k.
Sishan, str.,	12 6	109 21	.81	NNE	1	k.
Verona, str.,	8 4	109 3	.87	NW	5	or.
Catherine Apcar, str.,	4 4	106 6	.97	WNW	...	or.
Glengyle, str.,	3 53	105 44	.87	var.	1	k.
Machew, str.,	3 52	105 38	.92	var.	var.	kq.
September 18th.						
Peru, str.,	37 3	145 57	29.95	SE	3	cm.
Riojun Maru, str.,	34 22	132 27	30.03	SE	1	c.
Kagoshima Maru, str.,	34 22	132 27	29.97	NW	2	c.
Benlarig, str.,	33 47	131 41	30.03	E	2	o.
Ancona, str.,	33 46	131 46	29.93	SW	2	c.
Taisang, str.,	32 12	119 30	30.12	N	3	b.
Orient, bk.,	31 51	123 56	.08	NNE	7?	k.
Tailee, str.,	27 50	121 56	.01	NE	7	kq.
Fushun, str.,	27 46	121 26	.04	NE	3	o.
Nanchang, str.,	27 42	121 38	.02	NNE	7	c.
Nanyang, str.,	27 25	121 18	29.98	NNE	5	cm.
Celeste Burrill, sh.,	27 20	122 10	...	NE	6	...
Jacob Christensen, str.,	26 7	120 28	.92	NNE	11	or.
Ask, str.,	25 11	121 25	...	NNE	4	orq.
Lyderhorn, str.,	25 5	119 33	.84	NE	6	...
H.M.S. Pique,	22 58	120 12	.69	NNE	...	oq.
H.M.S. Peacock,	22 58	120 12	.70	N	7-8	o.
Thales, str.,	22 58	120 12	.65	NNE	7	o.
Saratow, str.,	22 49	121 26	.64	N/E	9	oug.
Activ, str.,	21 46	113 50	.89	S	1	c.
Frejr, str.,	20 30	111 24	.89	NNE	3	p.
Propontis, str.,	19 51	112 32	.91	NNE	4	c.
Memnon, str.,	19 27	115 29	.82	NE	4	c.
H.M.S. Redbreast,	18 46	112 8	.89	NE	4	c.
Rosetta, str.,	17 30	113 28	.84	NNE	6	cv.
Sungkiang, str.,	16 20	118 48	.78	NW	2	c.
Canton, str.,	16 17	113 8	.88	NE	5	c.
Sishan, str.,	15 5	110 27	.86	N	1	opq.
Keong Wai, str.,	14 16	110 3	.87	NW	4	o.
Invertay, str.,	11 8	109 0	...	ENE	1	c.
Ocampo, str.,	10 18	107 18	.89	NW	5	k.
Catherine Apcar, str.,	8 8	108 31	.91	NW	4	oq.
Glengyle, str.,	7 24	108 9	.85	SW	5	oqp.
Verona, str.,	4 21	106 21	.94	WSW	4	c.
September 19th.						
Peru, str.,	34 52	140 16	29.95	WSW	4	c.
Benlarig, str.,	34 40	135 11	.98	NE	4	o.
Riojun Maru, str.,	34 22	132 27	30.03	NNE	2	c.
Kagoshima Maru, str.,	34 22	132 27	29.97	NE	2	c.
Orient, bk.,	32 19	123 39	30.13	...	...	o.
Taisang, str.,	32 12	119 30	.14	E	3	c.
H.I.A.M.S. Aurora,	31 15	121 32	.16	NE	2	o.
Namyong, str.,	26 24	120 5	29.88	NE	7	opq.
Ask, str.,	25 11	121 25	...	SE	5	orq.
Tailee, str.,	24 54	119 22	.78	NE	8	...
Fushun, str.,	24 30	118 42	.74	SE	3	o.
Saratow, str.,	24 18	122 5	.82	ESE	5	c.
Celeste Burrill, sh.,	24 13	119 46	...	...	0	...
Jacob Christensen, str.,	24 10	118 13	...	NNE	5	...
Nanchang, str.,	24 6	118 46	.73	SE	8	cr.
Monmouthshire, str.,	23 30?	117 50?	.02	NE	12	c.
Victoria, str.,	23 22	117 54	...	...	0	ou.
Hailoong, str.,	23 19	116 44	.51	NW/W	9	orq.
Chunshan, str.,	23 14	116 47	.34	WNW	8	...
Thales, str.,	23 9	119 36	.75	S	6	c.
Meefoo, str.,	23 4	116 45	.54	W	5	or.
H.M.S. Peacock,	22 7	118 56	.69	SW	6	cq.
H.M.S. Pique,	22 4	119 20	.68	S	3-8	cq.
Canton, str.,	20 20	113 22	.82	NW	5	k.
Activ, str.,	20 18	111 20	.79	W	4	c.
Sungkiang, str.,	19 35	116 36	.76	W	4	c.
Sishan, str.,	18 22	111 45	.81	NNW	2	k.
Keong Wai, str.,	17 36	111 14	.86	N	4	b.
Sydney, str.,	17 30	110 53	.84	NW	2	c.
H.M.S. Redbreast,	15 38	110 31	.82	NNW	4	c.
Memnon, str.,	15 14	116 35	.76	var.	2	om.
September 19th.						
Invertay, str.,	13° 16′	110° 6′	29.79	NNW	5	k.
Catherine Apcar, str.,	11 29	110 54	.88	var.	5	o.
Glengyle, str.,	11 3	110 18	.83	WNW	3	o.
Devawongse, str.,	10 21	102 22	.91	NW	7	c.
September 20th.						
Riojun Maru, str.,	34 22	132 27	30.06	var.	1	b.
Kagoshima Maru, str.,	34 22	132 27	.91	N	1	b.
Cosmopolit, str.,	33 12	128 38	.12	NNW	1	...
Orient, bk.,	33 6	123 8	.14	N	1	c.
Taisang, str.,	32 12	119 30	.14	SE	3	c.
H.I.A.M.S. Aurora,	31 2	123 18	...	ENE	4	or.
Ancona, str.,	30 26	126 19	.03	NNE	4	c.
Chi Yuen, str.,	28 10	121 30	.10	NE	4	oq.
Ask, str.,	25 11	121 25	...	NE	4	k.
Nanyang, str.,	25 6	119 41	29.92	NE	6	omq.
Lyderhorn, str.,	24 30	116 41	.87	NE	5	...
Meefoo, str.,	24 27	118 34	.92	NE	4	k.
Celeste Burrill, sh.,	22 58	117 9	...	NE	5	k.
Nanchang, str.,	22 24	115 9	.84	var.	var.	orq.
H.M.S. Peacock,	21 55	116 12	.86	NE	3	c.
Activ, str.,	21 28	109 5	.86	N	5	c.
Sishan, str.,	21 23	113 38	.85	N	1	k.
Keong Wai, str.,	20 37	112 54	.86	NNE	4	cp.
Invertay, str.,	16 27	110 42	.79	...	0	k.
Catherine Apcar, str.,	15 18	112 54	.85	NNW	2	k.
Glengyle, str.,	14 0	112 8	.77	N	4	k.
H.M.S. Redbreast,	12 10	109 33	.85	S	1	c.
Sydney, str.,	11 44	109 14	.83	SW	2	k.
Memnon, str.,	11 17	117 45	.76	SW	4	cq.
Devawongse, str.,	8 29	105 46	.85	WNW	4	c.
September 21st.						
Peru, str.,	34 28	138 46	30.01	NE	4	c.
Kagoshima Maru, str.,	34 22	132 27	29.97	NE	1	c.
Mascotte, str.,	33 53	130 17	30.05	ENE	3	c.
Orient, bk.,	33 47	122 33	.12	NNE	3	c.
Niobe, str.,	33 8	134 8	.04	NNE	6	om.
Taisang, str.,	32 12	119 30	.05	NE	3	c.
Bombay, str.,	31 55	125 55	.02	NE	4	c.
H.I.A.M.S. Aurora,	31 16	124 4	...	NNE	3	o.
Cosmopolit, str.,	31 5	126 14	.04	NNE	4	...
Ancona, str.,	27 16	122 31	29.95	NE	5	c.
Meefoo, str.,	25 33	119 38	.92	NNE	5	o.
Lyderhorn, str.,	25 9	119 14	.92	NNE	10	...
Chi Yuen, str.,	24 59	119 28	.96	NNE	6	og.
Chunshan, str.,	24 17	118 10	.86	ENE	6	c.
Rosetta, str.,	23 33	117 39	.91	NE	7	oq.
Ask, str.,	23 33	119 30	...	NNE	6	or.
Sabine Rickmers, str.,	22 37	115 54	.86	NE	7	...
Nanyang, str.,	22 33	115 39	.88	NE	4	cm.
Activ, str.,	21 29	109 5	.87	N	5	or.
Invertay, str.,	19 16	112 13	...	NE	7	orq.
Loosok, str.,	19 6	112 8	.83	E	5	...
Zafiro, str.,	19 ...	116 ...	.85	NE	7	o.
Catherine Apcar, str.,	18 48	114 2	.81	N	4	q.
Velocity, bk.,	18 32	148 5	...	SE	2	orq.
Glenogle, str.,	17 48	113 20	.73	NNE	...	odgq.
Rio, str.,	15 3	110 9	.82	NW	5	c.
H.M.S. Redbreast,	18 46	108 9	.88	WSW	2	c.
Kriemhild, str.,	4 48	106 5	.89	SSW	3	c.
Karlsruhe, str.,	4 41	105 49	.94	SE	1	o.
September 22nd.						
Orient, bk.,	34 45	122 28	30.03	NE	2	o.
Riojun Maru, str.,	34 22	132 27	29.98	NE	2	b.
Kagoshima Maru, str.,	34 22	132 27	.90	...	2	b.
Peru, str.,	32 42	133 34	.97	NE	5	c.
Mascotte, str.,	32 27	126 46	.95	ENE	4	c.
Changsha, str.,	31 36	121 28	.98	E	2	k.
Taisang, str.,	31 8	122 2	.96	ESE	3	c.
Niobe, str.,	31 3	131 3	.86	NE	8	om.
H.I.A.M.S. Aurora,	31 0	125 0	.94	NE	4	o.
Kwanglee, str.,	30 6	122 35	.93	ENE	2	b.
Cosmopolit, str.,	29 4	123 43	.91	NNE	5	k.
Khedive, str.,	27 30	121 24	.92	N	4	k.
Meefoo, str.,	26 57	120 25	.88	NE	4	k.
Rosetta, str.,	26 24	120 19	.88	NNE	5	cp.
Lyderhorn, str.,	25 47	120 2	.88	NE	5	...
Formosa, str.,	25 20	121 0?	.85	NE	4	k.
Ancona, str.,	23 58	118 19	.82	NE	5	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 22nd.						
Sabine Rickmers, str.,	23° 57′	117° 55′	29.85	NE	6	b.
Ask, str.,	22 59	120 12	...	N	4	k.
Frejr, str.,	21 57	113 40	.87	E	4	b.
Framnes, str.,	21 34	113 43	.87	E	3	...
Activ, str.,	21 29	109 5	.83	N	2	c.
Invertay, str.,	21 29	112 51	.84	ENE	5	k.
Benvenue, str.,	21 20	113 26	.86	ESE	2	k.
Glengyle, str.,	21 14	113 48	.80	NE	5	...
Velocity, bk.,	18 25	146 22	...	E	4	...
Rio, str.,	18 6	110 6	.69	W	2	orq.
Esmeralda, str.,	16 4	119 7	.80	var.	1	k.
Zafiro, str.,	16 ...	119 ...	.83	SW	5	b.
Loosok, str.,	15 55	110 16	.76	NW	5	q.
Sydney, str.,	9 19	106 51	.85	SW	4	oq.
Karlsruhe, str.,	9 17	108 25	.87	WSW	4	orq.
Donar, str.,	8 4	104 6	.90	SW	6	c.
Kriemhild, str.,	8 3	108 12	...	SSW	5	c.
H.M.S. Redbreast,	6 6	106 54	.91	SSW	4	c.
Bisagno, str,	3 34	105 40	.94	SSW	3	k.
September 23rd.						
Orient, bk.,	35 27	122 20	30.02	NNE	1	k.
Riojun Maru, str.,	34 22	132 27	29.88	NNE	2	o.
Kagoshima Maru, str.,	34 22	132 27	.79	N	2	c.
Changsha, str.,	32 16	125 36	.88	NE	6	k.
Peru, str.,	32 5	129 37	.81	NNE	4	c.
Pingsuey, str.,	31 30	125 22	.83	NE	5	c.
H.I.A.M.S. Aurora,	30 25	126 28	.81	NE	4	o.
Mascotte, str.,	30 10	123 51	.83	NNE	5	c.
Rosetta, str.,	29 51	122 37	.86	NE	5	cp.
Niobe, str.,	29 6	127 8	.71	NNE	8	o.
Manila, str.,	28 32	121 57	.85	N	4	c.
Meefoo, str.,	28 32	121 48	.85	N	4	o.
Lyderhorn, str.,	27 54	123 1	.80	NE	8	...
Taisang, str.,	27 27	121 10	.84	N	5	c.
Cosmopolit, str.,	27 0	121 15	.87	N	6	c.
Kwanglee, str.,	26 2	120 25	.86	NNE	5	b.
Formosa, str.,	25 11	121 25	.80	NNE	2	o.
Victoria, str.,	24 10	118 13	...	NE	4	c.
Khedive, str.,	23 31	117 47	.83	NE	5	o.
Ask, str.,	22 59	120 12	...	N/W	6	k.
Rio, str.,	20 43	112 48	.77	ESE	4	c.
Activ, str.,	20 4	110 20	.79	E	4	c.
Esmeralda, str.,	19 25	116 37	.78	N	5	c.
Velocity, bk.,	18 25	114 55	...	E	2	o.
Framnes, str.,	18 25	111 17	.74	E	3	oq.
Devawongse, str.,	17 52	110 56	.75	E	4	p.
Benvenue, str.,	17 29	110 27	.73	SSE	2	op.
Karlsruhe, str.,	13 28	110 10	.78	WSW	4	o.
Loosok, str.,	11 37	109 8	.85	SW	4	q.
Kriemhild, str.,	11 0	109 56	.80	SW	6	c.
Donar, str.,	10 3	108 2	.83	W	6	c.
Bisagno, str.,	6 50	107 59	.90	WSW	4	c.
Brindisi, str.,	6 21	106 55	.90	SW	4	c.
Sydney, str.,	4 4	105 8	.90	SSW	3	c.
H.M.S. Redbreast,	3 32	105 15	.94	SW	2	c.
September 24th.						
Orient, bk.,	35 51	122 58	29.98	N	3	k.
Riojun Maru, str.,	34 22	132 27	.84	NNE	2	o.
Kagoshima Maru, str.,	34 22	132 27	.74	NE	1	or.
Bombay, str.,	33 43	131 40	.84	E	2	or.
Changsha, str.,	33 29	129 55	.84	NE	6	orq.
Pingsuey, str.,	32 45	129 50	.78	ENE	5	c.
Toonan, str.,	31 30	122 17	.89	NNE	4	c.
Victoria, str.,	31 8	122 1	...	NEE	9	cu.
H.I.A.M.S. Aurora,	30 24	127 23	.77	NE	4-5	or.
Taksang, str.,	29 40	122 55	.76	N	5	o.
Lyderhorn, str.,	29 15	125 29	.79	NNE	8	...
Mascotte, str.,	27 11	121 10	.79	ENE	5	c.
St. James, bk.,	27 8	121 43	...	NNE	7	or.
Niobe, str.,	27 5	123 9	.68	N	8	omd.
Manila, str.,	26 6	119 47	.77	NW	3	k.
Sabine Rickmers, str.,	25 26	119 55	.78	NNE	7	b.
Formosa, str.,	25 11	121 25	.75	N	6	orq.
Cosmopolit, str.,	24 28	114 2	.79	NNE	4	k.
Taisang, str.,	24 6	118 13	.78	NE	4	c.
Ask, str.,	23 35	119 39	...	N	8	...
Kwanglee, str.,	23 3	116 59	.78	NE	2	b.
Devawongse, str.,	21 53	113 2	.81	NE	3	k.
September 24th.						
Activ, str.,	20 26	111 10	29.82	N	3	c.
Velocity, bk.,	18° 34′	143° 2′	...	NE	4	b.
Karlsruhe, str.,	18 16	111 30	.82	NNE	3	c.
Framnes, str.,	14 31	109 54	.77	SE	2	oq.
Kriemhild, str.,	14 3	110 27	.78	WNW	4	c.
Benvenue, str.,	12 54	109 35	.77	SW	3	k.
Donar, str.,	12 8	109 7	.80	NW	4	b.
Bisagno, str.,	10 17	110 20	.87	W	5	cp.
Brindisi, str.,	9 20	109 14	.85	WSW	4	op.
Loosok, str.,	9 5	106 38	.86	SW	4	o.
Phra Nang, str.,	8 37	105 39	.86	SSW	2	or.
Menmuir, str.,	5 1	123 17	.86	NW	2	c.
Wingsang, str.,	3 31	105 40	.93	SSE	4	c.
Emily Whitney, sh.,	1 22	119 20	...	WSW	4	k.
September 25th.						
Orient, bk.,	36 54	124 6	30.08	NNW	5	c.
Toonan, str.,	35 5	122 37	.12	N/W	4	b.
Riojun Maru, str.,	33 58	130 55	29.98	N	2	c.
Changsha, str.,	33 42	132 8	.98	ENE	4	k.
Pingsuey, str,	33 34	129 47	.99	NE	6	m.
Lyderhorn, str.,	30 25	124 52	.97	NNE	5	...
H.I.A.M.S. Aurora,	30 3	128 9	.96	SSE	1	or.
Peru, str.,	30 1	126 7	.94	NNE	5	cd.
Glenfalloch, str.,	28 38	122 13	.94	NE	8	o.
Sabine Rickmers, str.,	26 58	120 48	.76	N	10	...
St. James, bk.,	26 0	121 10	...	NNE	9	or.
Formosa, str.,	25 11	121 25	.60	NNE	9	or.
Niobe, str.,	25 9	120 0	.53	NNE	9	op.
Mascotte, str.,	24 20	118 29	.68	N	4	cq.
Peiyang, str.,	23 43	117 41	.71	NNW	4	c.
Ask, str.,	23 35	119 39	...	N½W	12	hazy.
Cosmopolit, str.,	22 44	116 8	.76	NW	5	c.
Phra Chom Klao, str.,	22 10	114 2	.75	NE	2	k.
Activ, str.,	21 55	113 45	.79	N	5	k.
Sungkiang, str.,	21 27	114 55	.80	NE	4	c.
Chunshan, str.,	20 47	120 48	.76	N	5	k.
China, str.,	19 34	112 10	.79	N	3	k.
Velocity, bk.,	18 33	140 51	...	NW	1	k.
Kriemhild, str.,	17 35	111 10	.77	N	3	cg.
Donar, str.,	16 1	110 7	.83	N	3	b.
Bisagno, str.,	13 49	112 16	.87	var.	2	op.
Brindisi, str.,	12 40	111 22	.80	NW	3	c.
Phra Nang, str.,	11 10	108 53	.82	SW	3	k.
Framnes, str.,	10 49	108 31	.82	SW	3	o.
Benvenue, str.,	10 46	106 43	.79	W	2	o.
Loosok, str.,	9 26	103 13	.88	var.	1	op.
Menmuir, str.,	7 58	122 23	.86	S	1	o.
Wingsang, str.,	7 1	107 58	...	SSW	3	c.
Emily Whitney, sh.,	1 37	120 15	...	...	0	k.
September 26th.						
Toonan, str.,	37 33	121 25	30.22	NNE	2	c.
Orient, bk.,	37 19	122 46	.16	NW	3	c.
Changsha, str.,	34 40	135 12	.07	SE	4	k.
Kagoshima Maru, str.,	34 22	132 27	29.99	NE	2	b.
Riojun Maru, str.,	34 6	126 58	30.11	NNE	3	b.
Lyderhorn, str.,	32 7	128 4	.00	NE/N	4	...
H.I.A.M.S. Aurora,	30 50	127 19	.01	NE/E	4	or.
Glenfalloch, str.,	28 10	120 28	29.83	NNE	9	orq.
Sabine Rickmers, str.,	26 53	121 24	.89	NNE	9	o.
Peru, str.,	26 29	121 19	.91	N	7	cgr.
Taksang, str.,	25 58	120 3	.82	NE	8	orq.
Manila, str.,	25 21	119 55	.83	NE	7	or.
St. James, bk.,	25 20	120 40	...	NNE	9	or.
Formosa, str.,	25 11	121 23	.82	E	4	cp.
Ask, str.,	23 33	119 30	...	S	2	...
Niobe, str.,	23 9	118 2	.75	E	8	omd.
Tailee, str.,	22 54	116 44	.53	N	6-9	q.
Kriemhild, str.,	20 24	112 50	.78	N	6	c.
Donar, str.,	19 1	112 2	.80	N	5	...
Velocity, bk.,	18 53	139 0	...	...	0	...
Phra Chom Klao, str.,	18 44	111 30	...	NW	4	o.
Sungkiang, str.,	17 52	117 26	.77	S	4	c.
Chunshan, str.,	17 44	111 17	.78	NNW	5	k.
Bisagno, str.,	17 21	113 28	.83	N	2	k.
Brindisi, str.,	16 5	113 5	.83	N	3	c.
China, str.,	16 4	110 8	.81	NNW	1	k.
Phra Nang, str.,	14 9	110 17	.81	NW	3	...
Holstein, str.,	12 48	109 28	.83	NNE	4	q.

SEPTEMBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 26th.						
Menmuir, str.,	10° 56′	121° 29′	29.88	W	2	c.
Wingsang, str.,	10 3	110 4	...	WSW	4	c.
Mongkut, str.,	9 23	103 13	.82	WNW	2	o.
Framnes, str.,	8 34	106 13	.85	WSW	3	o.
Emily Whitney, sh.,	1 53	120 24	...	...	0	k.
September 27th.						
Toonan, str.,	38 52	118 3	30.27	NE	2	b.
Orient, bk.,	37 42	122 24	.16	NNW	3	k.
Riojun Maru, str.,	37 11	123 3	.13	NW	3	b.
Pingsuey, str.,	34 40	135 11	.03	E	3	o.
Kagoshima Maru, str.,	34 22	132 27	29.95	...	3	b.
H.I.A.M.S. Aurora,	31 2	127 37	30.04	ENE	4	or.
Lubeck, str.,	30 31	127 48	29.96	NE	5	c.
Lyeemoon, str.,	29 17	122 17	30.10	NE	5	o.
Sabine Rickmers, str.,	27 46	121 57	29.96	NNE	7	od.
Osaka, bk,	26 3	120 16	...	NE	...	..
Taksang, str.,	24 59	119 35	.90	NE	6	o.
Peiyang, str.,	24 46	118 49	...	NE	4	c.
St. James, bk.,	24 34	119 45	.88	NNE	7	or.
Ask, str.,	22 59	120 12	...	N	3	k.
Peru, str.,	22 52	116 48	.91	NE	6	cmr.
Niobe, str.,	22 2	114 3	.85	E	6	omd.
Hongkong, str.,	21 34	113 12	.86	NE	...	or.
Bisagno, str.,	20 34	114 5	.88	NNE	3	c.
Frejr, str.,	20 24	111 11	.90	NNE	6	q.
Brindisi, str.,	19 31	113 50	.85	N	2	o.
Velocity, bk.,	19 3	138 16	...	var.	1	...
Phra Nang, str.,	17 36	110 47	.78	NE	3	...
Holstein, str.,	15 47	110 22	.83	NNE	1	k.
Phra Chom Klao, str.,	14 51	109 35	.85	NW	4	k.
Sungkiang, str.,	14 32	120 15	.85	S	4	cpq.
Menmuir, str.,	14 12	119 42	.86	SW	3	k.
Wingsang, str.,	13 50	112 11	...	...	0	c.
Chunshan, str.,	13 49	109 39	.88	E	4	cp.
China, str.,	11 39	109 13	.86	ESE	1	o.
Ocampo, str.,	11 28	109 32	.85	var.	2	or.
Framnes, str.,	9 55	102 58	.88	WSW	3	oq.
Mongkut, str.,	9 0	106 22	.83	W	2	oq.
September 28th.						
Riojun Maru, str.,	38 53	121 51	30.21	NW	2	b.
Toonan, str.,	38 8	117 44	.23	var.	1	b.
Orient, bk.,	38 4	121 5	.20	NE	1	k.
Ravenna str.,	35 10	139 44	...	NE	2	o.
Kagoshima Maru, str.,	34 22	132 27	29.94	E	1	c.
H.I.A.M.S. Aurora,	31 10	128 17	30.04	NNE	4	or.
Sabine Richmers, str.,	29 21	122 25	.01	NNE	7	or.
Lubeck, str.,	28 18	123 54	29.97	NE	7	orq.
Lyeemoon, str.,	27 25	121 10	30.06	NE N	6	or.
Peiyang, str.,	26 38	120 8	.00	NNE	4	oq.
Osaka, bk.,	25 27	121 49	...	NNE	7	o.
Ask, str.,	23 55	118 50	...	NE	5	p.
Ancona, str.,	23 13	117 10	29.93	NE	6	k.
Hohenzollern, str.,	23 6	117 18	.92	ENE	6	o.
Frejr, str.,	21 54	113 34	...	NNE	7	orq.
Hongkong, str.,	20 13	110 44	.90	NE	...	k.
Phra Nang, str.,	20 6	112 48	.84	NW	3	k.
Velocity, bk.,	20 2	137 21	...	WSW	1	q.
Holstein, str.,	18 38	111 31	.85	N	4	q.
Menmuir, str.,	17 23	117 29	.86	W	2	o.
Wingsang, str.,	17 14	113 42	...	N	2	c.
Ocampo, str.,	13 10	111 42	.89	N	2	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 28th.						
Mongkut, str.,	11° 29′	109° 6′	29.89	ENE	2	oq.
Phra Chom Klao, str.,	10 22	108 7	.90	var.	1	k.
Chunshan, str.,	9 48	107 43	.87	E	3	k.
Emily Whitney, sh.,	2 10	123 34	...	SSE	2	k.
September 29th.						
Orient, bk.,	38 40	120 54	30.18	ENE	2	m.
Toonan, str.,	38 8	117 44	.18	var.	1	b.
Riojun Maru, str.,	38 53	121 51	.17	E	2	o.
Coptic, str.,	34 39	143 49	.02	NE	5	c.
Braemar, str.,	34 23	133 49	.09	N	3	k.
Ravenna, str.,	34 15	135 1	.04	NNE	4	c.
Kagoshima Maru, str.,	34 9	129 54	.06	NE	2	b.
Victoria, str.,	33 9	122 50	...	NNE	4	or.
Sabine Rickmers, str.,	32 5	122 48	29.98	NNE	4	od.
H.I.A.M.S. Aurora,	31 48	128 4	.96	NE E	5	o.
Peiyang, str.,	28 55	122 6	.94	N	4	omr.
Natal, str.,	28 32	122 6	.94	N	1	or.
Osaka, bk.,	25 40	122 15	...	SSW	2	k.
Lubeck, str.,	25 29	120 14	.88	NNE	6	orq.
Hohenzollern, str.,	25 21	121 2	.85	NE	6	o.
Ancona, str.,	25 20	120 6	.89	NE	6	o.
Lyeemoon, str.,	23 43	118 1	.92	NE	4	c.
Holstein, str.,	21 16	113 13	.87	NNW	4	q.
Wingsang, str.,	21 2	113 42	.89	N/W	5-6	c.
Tailee, str.,	20 41	115 14	.84	SW	4	q.
Velocity, bk.,	20 9	137 2	...	W	1	k.
Menmuir, str.,	20 7	115 34	.86	W	2	k.
Propontis, str.,	19 39	112 38	.93	W	4	b.
Mongkut, str.,	13 51	109 58	.83	N	3	c.
Phra Chom Klao, str.,	8 36	104 20	.94	W	2	c.
Chunshan, str.,	5 56	106 2	.91	N	2	k.
Arratoon Apear, str.,	3 35	105 36	.90	NE/N	...	k.
Emily Whitney, sh.,	2 37	124 39	...	SE	2	k.
September 30th.						
Riojun Maru, str.,	38 53	121 51	30.01	S	1	b.
Toonan, str.,	38 38	117 5	.00	var.	1	b.
Orient, bk.,	38 36	119 52	.06	E	2	m.
Coptic, str.,	35 25	139 38	.06	NE	2	c.
Sabine Rickmers, str.,	34 53	123 34	29.89	NNE	7	or.
Braemar, str.,	34 0	129 50	.77	ESE	4	or.
Pingsuey, str.,	33 40	135 19	.98	ESE	5	op.
H.I.A.M.S. Aurora,	32 38	129 20	.78	S	7-10	orq.
Lyderhorn, str.,	31 17	127 24	.75	SW	8	...
Hohenzollern, str.,	28 10	126 4	.84	NW	5	o.
Ancona, str.,	27 34	123 12	.91	NNW	6	oq.
Osaka, bk.,	26 15	123 50	...	NNE	3	o.
Natal, str.,	23 52	118 8	.91	NNW	1	o.
Lubeck, str.,	22 53	116 52	.92	N	4	o.
Velocity, bk.,	20 37	136 41	...	WNW	1	c.
Ocampo, str.,	19 22	113 41	.90	N	5	o.
Yuensang, str.,	19 6	116 32	.96	NNW	4	cp.
Tailee, str.,	17 2	113 39	.94	W	4	oq.
Mongkut, str.,	16 56	110 34	.95	NNW	2	c.
Propontis, str.,	16 5	110 53	.98	N	2	p.
Ixion, str.,	12 30	110 4	30.03	N	4	c.
Shanghai, str.,	11 23	110 57	29.96	NNE	3	k.
Machew, str.,	8 24	104 58	.95	var.	var.	k.
Arratoon Apear, str.,	6 51	107 56	.95	NE	...	k.
Emily Whitney, sh.,	2 40	125 15	...	SSE	2	k.
Chunshan, str.,	2 5	104 38	.97	SSW	3	k.

OCTOBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 1st.						
John Baizley, bk.,	49° 56′	140° 46	29.81	WSW	4	k.
Toonan, str.,	38 38	117 5	.89	var.	1	b.
Orient, bk.,	38 34	119 11	.96	W	2	k.
Sabine Rickmers, str.,	37 53	122 7	.90	NW	5	c.
Pingsuey, str.,	33 29	135 57	.77	SE	6	o.
Hohenzollern, str.,	31 3	131 18	.77	N	3	o.
Ancona, str.,	30 2	126 16	.92	N	5	c.
Lyderhorn, str.,	29 27	124 12	.96	N	5	...
Osaka, bk.,	27 16	123 15	...	NE N	6	o.
Chi Yuen, str.,	24 49	118 41	.98	NE	3	k.
Velocity, bk.,	19 47	136 6	...	W	1	c.
Shanghai, str.,	15 29	112 48	.98	NNW	4	k.
Tailee, str.,	13 25	111 44	.98	W	2	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 1st.						
Propontis, str.,	12° 5′	109° 26′	30.04	...	0	c.
Benvenue, str.,	11 21	108 58	.01	NE	2	o.
Machew, str.,	10 29	108 1	29.95	var.	1	c.
Kong Beng, str.,	10 13	102 40	.97	var.	2	p.
Arratoon Apear, str.,	9 55	110 0	.96	NNE	...	k.
Catherine Apear, str.,	9 52	109 33	30.00	...	0	k.
Ixion, str.,	7 54	108 32	.04	WSW	4	c.
October 2nd.						
John Baizley, bk.,	47 54	139 30	29.69	NE	5	om.
Orient, bk.,	38 47	118 12	.95	E	2	k.
Toonan, str.,	38 20	119 45	.91	E	2	b.
Kagoshima Maru, str.,	34 45	125 15	...	NNW	3	b.
Riojun Maru, str.,	34 43	122 49	.93	SW	3	c.

OCTOBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For. 0-12	Weather.
			ins.			
October 2nd.						
Hohenzollern, str.,	33° 44′	136° 53′	29.73	N	4	o.
Sagami Maru, str.,	33 30	136 0	.73	WSW	1	k.
Iser, str.,	32 48	126 4	.91	N	4	k.
Ancona, str.,	32 43	129 50	.91	NE	3	k.
Coptic, str.,	32 43	135 7	.87	N	5	c.
Meefoo, str.,	28 16	121 57	...	NNW	2	k.
Ching Ping, str.,	28 9	121 33	30.00	NNE	2	k.
Osaka, bk.,	27 34	124 31	...	N/E	5	k.
Chi Yuen, str.,	27 5	120 50	.00	NNE	2	k.
Lyderhorn, str.,	26 52	121 21	29.99	N	2	...
Nanyang, str.,	23 57	118 9	.93	NE	3	b.
Kwanglee, str.,	23 54	117 52	.98	NE	3	b.
Kriemhild, str.,	23 25	117 27	.99	NNE	4	cm.
Menmuir, str.,	23 4	117 6	.94	NE	5	k.
Keong Wai, str.,	20 47	113 25	30.00	ESE	4	c.
Sishan, str.,	20 32	114 32	29.95	NE	2	k.
Hongkong, str.,	20 22	108 38	.98	N	...	k.
Frejr, str.,	20 16	111 8	.99	E	2	b.
Mascotte, str.,	20 15	111 30	30.01	E	4	b.
Shanghai, str.,	19 49	113 49	.02	NE	3	k.
Velocity, bk.,	19 36	136 1	...	...	0	b.
Picciola, str.,	19 33	112 27	29.97	S	3	b.
Benvenue, str.,	14 41	110 15	.97	ENE	2	k.
Arratoon Apcar, str.,	13 33	111 57	.92	NNE	...	k.
Machew, str.,	13 17	109 42	.94	NNE	2	k.
Tailee, str.,	10 0	109 40	.93	S	1	k.
Kong Beng, str.,	8 39	105 50	.95	SE	2	k.
Propontis, str.,	8 0	107 48	.98	...	0	b.
Catherine Apcar, str.,	5 58	107 32	.97	...	0	k.
Ixion, str.,	3 40	105 50	30.01	WSW	1	b.
Cromarty, str.,	3 17	108 39	29.97	N	2	k.
Emily Whitney, sh.,	2 37	127 23	...	WSW	2	k.
October 3rd.						
John Baizley, bk.,	46 58	138 54	29.91	N	2	k.
Kagoshima Maru, str.,	38 12	121 55	.93	N	2	b.
Toonan, str.,	35 34	122 44	.97	SE	2	b.
Iser, str.,	35 4	129 28	30.00	NNE	2	k.
Changsha, str.,	34 40	135 11	29.97	E	2	k.
Sagami Maru, str.,	34 40	135 11	.93	E	2	k.
Progress, str.,	33 57	122 31	...	W	1	k.
Ravenna, str.,	33 53	130 15	.93	W	2	k.
Ancona, str.,	33 52	131 14	30.00	NE	1	k.
Coptic, str.,	31 49	129 38	29.93	NNE	4	c.
Ching Ping, str.,	30 58	122 54	30.00	N	1	k.
Riojun Maru, str.,	30 20	122 49	.01	NE	2	b.
Chi Yuen, str.,	29 52	122 36	29.96	N/E	3	k.
Osaka, bk.,	28 27	123 15	...	N	2	k.
Kwanglee, str.,	26 56	120 24	30.01	NNE	1	c.
Nanyang, str.,	26 55	120 27	29.97	NE	1	cm.
Menmuir, str.,	25 50	119 57	.97	NE	4	k.
Kriemhild, str.,	25 12	121 7	30.01	NNE	3	b.
Meefoo, str.,	24 59	119 38	.01	N	2	k.
Empress of Japan, str.,	24 56	119 30	.00	NE	4	k.
Lyderhorn, str.,	24 5	118 43	.00	N	2	...
Mascotte, str.,	20 36	107 20	29.95	SSE	2	cp.
Velocity, bk.,	19 39	135 39	...	N	1	b.
Benvenue, str.,	18 28	111 35	.95	ENE	2	k.
Glenfalloch, str.,	18 14	113 34	.96	ESE	3	c.
Natal, str.,	17 29	111 40	.94	SE	1	o.
Sishan, str.,	17 15	111 28	.92	ESE	4	k.
Keong Wai, str.,	17 10	110 42	.98	ESE	4	c.
Arratoon Apcar, str.,	17 5	113 19	.93	NE	...	k.
Machew, str.,	16 58	110 45	.89	ENE	4	k.
Picciola, str.,	16 11	110 30	.95	SE	3	b.
Kong Beng, str.,	11 6	108 49	.92	NW	2	o.
Cromarty, str.,	6 33	109 22	.96	NNW	2	c.
Tailee, str.,	6 27	106 56	.93	SW	3	k.
Propontis, str.,	4 34	106 5	.98	SW	1	b.
Chunshan, str.,	4 18	103 56	.93	W	4	k.
Emily Whitney, sh.,	3 8	128 47	...	SSW	2	k.
Catherine Apcar, str.,	3 5	105 27	.92	SW	2	k.
October 4th.						
John Baizley, bk.,	46 24	138 35	30.04	SSW	5	o.
Kagoshima Maru, str.,	38 53	121 51	.03	S	1	b.
Iser, str.,	38 11	131 20	.12	ENE	4	k.
Progress, str.,	37 33	122 37	...	...	0	k.
Ancona, str.,	34 40	135 11	.01	NE	4	ogr.
Ching Ping, str.,	34 27	122 58	.12	NE	3	k.
October 4th.						
Sagami Maru, str.,	34° 20′	133° 39′	29.97	N	2	op.
Changsha, str.,	33 58	130 55	.97	NW	2	k.
Ravenna, str.,	32 0	128 46	.89	N	4	k.
Toonan, str.,	31 16	122 14	30.06	W	1	c.
Kwanglee, str.,	30 15	122 34	.05	NNE	2	c.
Nanyang, str.,	30 9	122 37	.04	N	2	c.
Empress of Japan, str.,	30 8	122 36	.08	NNE	4	k.
Menmuir, str.,	28 46	122 3	.04	NNE	4	k.
Osaka, bk.,	28 45	123 35	...	N/E	5	k.
Kriemhild, str.,	27 13	125 26	.00	N	3	cq.
Riojun Maru, str.,	26 6	120 39	.07	N	3	b.
Nanchang, str.,	23 21	117 4	29.98	NE	4	k.
Lyderhorn, str.,	22 22	115 7	30.01	NE	2	...
Benvenue, str.,	21 43	113 52	29.98	ENE	3	k.
Mascotte, str.,	20 59	107 1	.96	SE	3	p.
Arratoon Apcar, str.,	20 54	113 46	.98	NE	...	k.
Yuensang, str.,	20 50	115 19	.97	ENE	3	c.
Machew, str.,	20 21	112 52	30.00	E	var.	k.
Velocity, bk.,	20 4	133 43	...	N	5	c.
Zafiro, str.,	16 ...	119 ...	29.96	...	0	c.
Kong Beng, str.,	14 38	110 15	.94	ESE	3	k.
Glenfalloch, str.,	14 15	112 24	.97	SE	2	cp.
Keong Wai, str.,	13 8	109 33	.98	E	2	c.
Sishan, str.,	13 6	109 34	.93	SE	2	k.
Picciola, str.,	12 22	109 26	.94	S	4	b.
Memnon, str.,	12 10	119 38	.93	NNW	2	b.
Natal, str.,	12 10	109 30	.96	...	0	c.
Cromarty, str.,	9 50	109 29	.95	NNE	1	c.
Chunshan, str.,	8 5	102 24	.94	var.	1	c.
Florida, str.,	3 56	105 39	...	var.	1	c.
Tailee, str.,	3 4	104 55	.93	SW	5	q.
Emily Whitney, sh.,	2 52	129 18	...	...	0	k.
Shantung, str.,	0 40	104 28	.96	S	4	o.
October 5th.						
John Baizley, bk.,	45 55	138 6	30.32	SSE	1	k.
Iser, str.,	41 35	132 0	.23	N	3	k.
Ching Ping, str.,	37 32	122 1	.24	E	1	k.
Pingsuey, str.,	37 19	141 31	29.87	NE	9	or.
Kagoshima Maru, str.,	36 41	122 46	30.25	SE	2	b.
Ancona, str.,	34 40	135 11	29.96	NE	3	k.
Sagami Maru, str.,	33 58	130 55	30.09	N	2	k.
Hohenzollern, str.,	33 40	136 33	29.94	NNW	4	o.
Changsha, str.,	32 32	128 0	30.13	NE	4	k.
Coptic, str.,	29 49	125 37	.01	NNE	4	c.
Kriemhild, str.,	29 47	129 10	.01	NNE	4	cq.
Osaka, bk.,	29 32	122 48	...	NEN	2	k.
Ravenna, str.,	28 50	124 31	.04	NNE	4	k.
Nanchang, str.,	25 35	119 56	.09	NNE	5	o.
Brindisi, str.,	22 21	114 50	.04	ENE	4	o.
Hongkong, str.,	21 45	113 30	.01	E	...	c.
Bisagno, str.,	21 27	114 20	.04	E	6	opq.
Mascotte, str.,	20 59	107 1	29.94	SE	5	orq.
Velocity, bk.,	20 32	131 23	...	N	4	k.
Taiyuan, str.,	19 ...	117 ...	.99	NE/E	4	k.
Zafiro, str.,	19 ...	117 ...	30.01	ENE	5	c.
Kong Beng, str.,	18 26	111 23	29.94	E	3	k.
Yuensang, str.,	17 32	117 41	.91	SE	3	b.
Memnon, str.,	15 50	117 51	.92	NNE	1	b.
Cromarty, str.,	13 22	111 54	.97	N	2	k.
Chunshan, str.,	11 58	101 0	.90	NNE	3	l.
Glenfalloch, str.,	10 38	110 27	.94	SSW	1	b.
Keong Wai, str.,	9 34	107 37	.96	SSW	2	c.
Loosok, str.,	8 35	105 29	.96	S	2	k.
Florida, str.,	6 46	107 28	...	SW	1	c.
October 6th.						
John Baizley, bk.,	44 45	138 21	30.25	WSW	2	k.
Pingsuey, str.,	40 32	141 48	.27	N	4	b.
Ching Ping, str.,	38 5	120 38	.30	E	2	o.
Sagami Maru, str.,	33 58	130 55	.10	ESE	3	k.
Ancona, str.,	33 58	136 34	.07	NE	4	o.
Kagoshima Maru, str.,	32 23	122 33	.20	E	2	b.
Kriemhild, str.,	31 53	132 42	.06	NE	7	cq.
Empress of Japan, str.,	31 38	124 52	.15	ENE	6	o.
Osaka, bk.,	29 51	123 0	...	NE	5	k.
Changsha, str.,	29 16	123 44	.13	NE	5	k.
Rosetta, str.,	28 50	122 18	.19	ENE	5	c.
Nanchang, str.,	28 29	121 48	.16	N	4	c.
Coptic, str.,	25 50	120 35	.02	NNE	5	c.

OCTOBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 6th.						
Ravenna, str.,	25° 26′	120° 2′	30.03	NNE	4	k.
Brindisi, str.,	24 7	118 13	.04	NE	5	c.
Taisang, str.,	23 8	116 47	.05	E	5	c.
Argyll, str.,	22 21	114 49	.01	E	4	b.
Ask, str.,	21 45	113 30	.06	ENE	3	k.
Kong Beng, str.,	21 6	113 25	29.97	ENE	6	k.
Rio, str.,	21 6	114 18	.97	ENE	4	c.
Velocity, bk.,	21 0	129 33	...	N	6	c.
Mascotte, str.,	20 59	107 1	.97	NNW	1	cr.
Frejr, str.,	20 10	110 5	.98	ESE	3	p.
Memnon, str.,	19 30	116 56	.94	NE	4	pq.
Cassius, str.,	17 47	108 5	.89	SSE	4	cv.
Bisagno, str.,	17 37	113 29	.98	SE	2	cp.
Cromarty, str.,	16 31	113 9	.95	N	3	k.
Yuensang, str.,	14 30	120 17	.83	SE	2	c.
Loosok, str.,	11 7	108 47	.93	var.	1	k.
Florida, str.,	9 15	109 29	...	...	0	c.
Glenfalloch, str.,	6 51	108 10	.93	SW	1	c.
Keong Wai, str.,	5 55	105 53	.96	S	3	c.
Emily Whitney, sh.,	4 25	130 39	...	SSW	3	k.
Chingtu, str.,	2 21	125 1	.87	NW	1	c.
Torrisdale, bk.,	0 10	119 9	.91	SSW	4	k.
October 7th.						
John Baizley, bk.,	44 54	137 47	30.22	SW/W	6	o.
Sagami Maru, str.,	33 39	129 52	.10	NE	4	k.
Kriemhild, str.,	33 24	135 53	.05	NE	9	ogq.
Bombay, str.,	32 45	126 19	.10	NE	6	c.
Nanchang, str.,	31 33	122 11	.14	NE	5	k.
Osaka, bk.,	31 32	122 48	...	NE	4	k.
Kagoshima Maru, str.,	28 23	122 40	.06	NE	3	b.
Brindisi, str.,	25 54	120 55	29.98	N/E	5	o.
Changsha, str.,	25 39	120 10	30.02	NNE	6	k.
Taisang, str.,	25 19	119 33	29.98	N	6	b.
Rosetta, str.,	24 15	118 47	.98	NE	6	cm.
Argyll, str.,	23 8	117 17	.96	NE	5	b.
Ravenna, str.,	22 26	115 7	.96	NNE	5	k.
Coptic, str.,	22 23	115 4	.99	NE	2	c.
Velocity, bk.,	21 11	126 27	...	N	6	c.
Mascotte, str.,	20 59	107 1	30.04	SE	4	c.
Frejr, str.,	20 30	111 20	.00	ENE	4	p.
Cromarty, str.,	19 34	113 37	29.97	NE	5-8	c.
Rio, str.,	18 3	110 57	.86	NE	4	k.
Loosok, str.,	14 31	110 25	.93	NE	2	k.
Cassius, str.,	13 51	109 28	.90	SE	2	c.
Bisagno, str.,	13 47	112 4	.88	NE	2	cr.
Florida, str.,	12 16	111 15	...	NNE	2	c.
Framnes, str.,	10 35	102 6	...	...	0	c.
Chingtu, str.,	6 10	122 33	.83	NW	2	c.
Marquis Becqueham, str.,	5 39	107 0	.85	var.	1	or.
Emily Whitney, sh.,	3 40	132 37	...	WSW	3	k.
Glenfalloch, str.,	3 31	105 50	.88	WSW	3	cp.
Keong Wai, str.,	2 9	104 37	.91	ESE	2	c.
Torrisdale, bk.,	0 55	119 44	.91	SW	1	k.
October 8th.						
John Baizley, bk.,	44 52	137 35	30.14	...	0	o.
Nanchang, str.,	35 27	122 46	.12	N	2	k.
Hohenzollern, str.,	34 37	135 7	29.97	E	2	k.
Kriemhild, str.,	34 34	138 50	.99	NE	6	crq.
Empress of Japan, str.,	33 50	132 33	30.00	NE	6	o.
Tacoma, str.,	33 42	135 12	.00	NW	4	o.
Osaka, bk.,	31 42	122 38	...	N	5	k.
Sagami Maru, str.,	31 3	126 54	.03	N	4	k.
Taisang, str.,	28 17	121 39	.07	N	5	b.
Brindisi, str.,	28 4	123 41	.01	NNE	5	c.
Kagoshima Maru, str.,	25 16	121 22	.00	NE	3	c.
Argyll, str.,	24 8	119 19	29.96	NE	6	cm.
Phra Nang, str.,	23 2	116 43	30.01	ENE	4	...
Changsha, str.,	22 38	115 44	.00	NE	5	k.
Mascotte, str.,	20 59	107 1	.04	ESE	2	c.
Loosok, str.,	17 50	111 26	29.96	NE	5	k.
Sungkiang, str.,	16 43	119 32	.86	N	3	c.
Florida, str.,	15 3	112 40	...	NE	1	or.
Rio, str.,	13 51	109 58	.83	var.	2	orq.
Bisagno, str.,	10 30	110 10	.88	var.	1	c.
China, str.,	10 19	107 27	...	E	1	k.
Chingtu, str.,	10 13	121 50	.85	var.	1	c.
Cassius, str.,	9 21	108 5	.88	SW	1	cv.
Marquis Becqueham, str.,	9 3	109 37	.85	...	0	c.
October 8th.						
Phra Chom Klao, str.,	8° 28′	105° 27′	...	var.	2	k.
Framnes, str.,	8 26	104 49	...	...	0	c.
Torrisdale, bk.,	1 21	120 33	29.90	...	0	k.
October 9th.						
John Baizley, bk.,	44 1	135 54	29.94	NW	5	k.
Orient, bk.,	38 54	119 8	30.22	NNE	1	k.
Empress of Japan, str.,	34 34	135 10	29.95	SW	2	o.
Bengloe, str.,	53 47	130 9	.98	NNW	2	k.
Hohenzollern, str.,	33 22	129 28	.95	NW	2	k.
Osaka, bk.,	32 17	124 36	...	N	7	k.
Brindisi, str.,	30 25	126 46	.97	N	4	c.
Sagami Maru, str.,	28 24	123 25	30.09	N	5	k.
Argyll, str.,	25 14	120 59	.04	NE/N	6	cm.
Kagoshima Maru, str.,	23 35	119 39	29.99	NE	6	b.
Peru, str.,	23 35	117 57	30.04	NE	6	c.
Lyeemoon, str.,	23 16	116 55	.00	E/N	5	c.
Lyderhorn, str.,	22 57	116 34	.06	NE	4	...
Velocity, bk.,	21 48	119 20	...	ESE	2	c.
Mascotte, str.,	20 37	107 35	.10	E/S	4	c.
Loosok, str.,	20 29	112 46	.04	NE	5	k.
Sungkiang, str.,	20 0	119 0	29.96	NNE	4	c.
Phra Nang, str.,	19 50	113 31	.98	NE/E	3	...
Florida, str.,	17 32	114 1	...	NE	5	orq.
Chingtu, str.,	14 5	119 46	.87	NNW	1	c.
Marquis Becqueham, str.,	12 57	111 55	.89	ENE	3	c.
China, str.,	12 24	109 25	.90	N	2	or.
Picciola, str.,	11 1	108 47	.93	NE	4	b.
Phra Chom Klao, str.,	10 45	108 29	.91	E	4	c.
Framnes, str.,	10 2	107 40	...	NE	3	oq.
Rio, str.,	9 50	107 46	...	NE	2	k.
Bisagno, str.,	6 44	107 55	.92	...	0	c.
Cassius, str.,	5 50	106 11	.89	SW	3	cv.
Emily Whitney, sh.,	3 45	135 45	...	SE	2	k.
Torrisdale, bk.,	1 50	120 47	.91	...	0	k.
Keong Wai, str.,	1 17	104 5	.93	W	2	c.
October 10th.						
John Baizley, bk.,	42 46	134 36	29.94	SSW	5	...
Orient, bk.,	39 56	121 28	30.18	NE	7	oq.
Tacoma, str.,	34 27	134 3	29.96	NNW	4	b.
Osaka, bk.,	32 56	123 35	...	N/E	5	k.
Bengloe, str.,	31 55	126 51	...	NE	4	k.
Glengyle, str.,	31 43	125 23	.97	N	4	c.
Hohenzollern, str.,	31 19	127 49	.95	N	6	k.
Chi Yuen, str.,	28 23	121 55	30.09	N/W	3	k.
Kwanglee, str.,	27 59	121 33	.06	NNE	4	c.
Argyll, str.,	26 27	123 15	29.98	N	7	cq.
Peru, str.,	26 21	121 19	30.07	NE	6	c.
Meefoo, str.,	25 45	119 43	.07	NNE	4	k.
Sagami Maru, str.,	25 34	120 10	...	NE	4	k.
Lyeemoon, str.,	25 33	119 57	.04	NE/N	4	c.
Lyderhorn, str.,	25 1	119 20	.06	NE	5	...
Kagoshima Maru, str.,	23 35	119 39	29.97	NE	5	c.
Sungkiang, str.,	23 18	118 24	30.06	NNE	7	c.
Velocity, bk.,	22 8	116 51	...	N	6	b.
Hongkong, str.,	20 28	111 ...	.01	NE	5	...
Mascotte, str.,	20 19	111 3	.08	NE/E	4	c.
Florida, str.,	20 14	114 28	...	NE	5	c.
Chingtu, str.,	17 42	117 13	29.89	NE	5	cp.
Marquis Becqueham, str.,	16 44	113 25	.91	NE	7	or.
Phra Nang, str.,	16 38	110 39	.95	NNE	4	or.
China, str.,	15 10	110 17	.90	NNE	3	k.
Picciola, str.,	13 26	110 20	.93	N	3	b.
Phra Chom Klao, str.,	13 13	110 13	.92	N	4	c.
Rio, str.,	5 59	105 50	...	var.	2	orq.
Oanfa, str.,	5 35	107 4	.95	N	1	cq.
Keong Wai, str.,	5 18	103 26	.93	...	0	c.
Emily Whitney, sh.,	4 21	136 42	...	var.	1	k.
Java, str.,	4 3	105 48	.94	NE	2	k.
Bisagno, str.,	3 22	105 41	.92	S	2	c.
Torrisdale, bk.,	2 27	121 3	.90	var.	1	...
Cassius, str.,	2 10	104 36	.89	S	3	cv.
October 11th.						
John Baizley, bk.,	42 11	132 49	30.14	NNW	6	k.
Orient, bk.,	40 9	120 19	.28	W	1	k.
Victoria, str.,	36 31	122 52	...	NNE	4	c.
Osaka, bk.,	33 50	122 18	...	N/E	5	k.
Bengloe, str.,	29 29	123 52	.18	NNE	4	k.
Peru, str.,	29 7	124 45	.06	N	5	c.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For. 0-12	Weather.
			ins.			
October 11th.						
Lyeemoon, str.,	28° 48′	122° 2′	30.09	NNE	5	c.
Meefoo, str.,	28 34	121 51	.09	N	3	k.
Hohenzollern, str.,	27 53	123 7	.10	N	5	o.
Argyll, str.,	27 34	125 53	29.98	NNE	6	c.
Lyderhorn, str.,	27 25	121 33	30.13	NE	5	...
Peiyang, str.,	27 24	121 14	.14	NNE	3	c.
Chi Yuen, str.,	25 12	119 35	.07	NE N	4	k.
Sungkiang, str.,	24 21	118 9	.13	E	4	c.
Kwanglee, str.,	24 17	118 43	.08	NE	5	b.
Kagoshima Maru, str.,	23 35	119 39	...	NE	5	b.
Sagami Maru, str.,	22 48	116 33	.05	NE	4	k.
Frejr, str.,	22 22	114 52	29.97	E	4	p.
Bygdo, str.,	22 16	115 9	30.02	E	3	k.
Mascotte, str.,	22 3	113 54	...	NE E	3	b.
Chingtu, str.,	21 13	114 45	.01	NE	4	c.
Marquis Becqueham, str.,	20 23	113 46	.02	NE	6	op.
China, str.,	18 1	111 1	29.98	NE	4	o.
Phra Chom Klao, str.,	16 10	110 32	.99	ENE	6	orq.
Picciola, str.,	15 50	110 52	.95	NNE	5	or.
Framnes, str.,	14 15	110 28	.89	var.	4	orq.
Phra Nang, str.,	12 10	109 24	.87	var.	2	q.
Keong Wai, str.,	9 16	101 58	.91	NNW	3	crq.
Oanfa, str.,	8 59	109 27	.93	NE	3	c.
Java, str.,	7 34	108 12	.94	NE	3	cp.
Tailee, str.,	4 59	107 6	.88	N	4	oq.
Emily Whitney, sh.,	4 50	136 48	...	var.	1	or.
Torrisdale, bk.,	2 7	122 2	.92	N E	2	k.
Rio, str.,	2 3	104 42	.89	S	1	o.
Propontis, str.,	1 10	103 42	.89	E	3	p.
October 12th.						
John Baizley, bk.,	42 42	132 51	30.06	NNW	6	k.
Gaelic, str.,	37 16	175 2	.13	NW	3	c.
Empress of Japan, str.,	36 41	143 38	29.62	NE N	10	orq.
Osaka, bk.,	34 24	124 53	...	N	4	k.
Glengyle, str.,	33 53	131 9	.98	var.	2	c.
Ancona, str.,	33 14	139 45	.76	N	5	k.
Victoria, str.,	32 47	123 16	...	N	3	c.
Peru, str.,	32 7	128 44	30.03	NNE	4	cq.
Toonan, str.,	30 46	122 12	.19	NE	2	c.
Argyll, str.,	28 58	128 35	29.98	NNE	5	c.
Lyderhorn, str.,	28 54	124 10	30.13	N	4	...
Bengloe, str.,	26 50	121 5	.13	N	3	k.
Hohenzollern, str.,	24 6	118 39	.14	NE	5	o.
Ravenna, str.,	23 26	117 30	.06	NE E	6	k.
Frejr, str.,	23 26	117 32	.08	NE	6	b.
Bygdo, str.,	23 16	117 18	.02	NE	4	k.
Mascotte, str.,	23 3	116 39	.10	NE E	5	c.
Sungkiang, str.,	22 15	114 25	.08	NE	4	c.
Kwanglee, str.,	22 13	114 22	.07	ENE	5	b.
China, str.,	20 20	112 36	29.98	NE	5	k.
Memnon, str.,	19 32	115 20	.98	NE	4	c.
Phra Chom Klao, str.,	19 20	111 43	30.07	NE	6	oq.
Kong Beng, str.,	19 7	111 53	.00	ENE	4	o.
Picciola, str.,	18 37	111 27	29.98	NNE	4	or.
Framnes, str.,	16 51	110 45	.91	NNE	4	oq.
Oanfa, str.,	12 50	111 26	.94	NE	2	c.
Java, str.,	10 52	110 12	.91	NE	4	cpq.
Sishan, str.,	10 17	107 14	.88	E	1	k.
Salazie, str.,	10 16	107 32	.95	NE	3	o.
Phra Nang, str.,	8 17	107 8	.87	SSE	2	k.
Tailee, str.,	7 54	109 36	.86	NE	1	c.
Emily Whitney, sh.,	5 21	137 23	...	NE	2	k.
Cassius, str.,	4 42	105 43	.90	NNE	1	c.
Propontis, str.,	4 23	105 21	.90	NW	2	c.
Torrisdale, bk.,	2 7	123 0	.88	var.	1	ortl.
October 13th.						
Progress, str.,	40 21	121 57	...	ENE	5	k.
Empress of Japan, str.,	39 10	148 16	30.17	NW	7	o.
Pingsuey str.,	38 59	141 58	.21	SW	3	b.
Gaelic, str.,	37 20	168 22	.15	SE	3	c.
Glengyle, str.,	34 40	135 11	.12	NE	2	c.
Osaka, bk.,	34 24	122 57	...	NE	2	k.
Ancona, str.,	33 57	135 3	.17	NW	3	k.
Tacoma, str.,	33 43	130 0	.23	var.	2	b.
Memnuir, str.,	33 37	129 7	.17	NE	5	k.
Lyderhorn, str.,	31 4	127 20	.18	NE	3	...
Argyll, str.,	30 37	131 40	.12	NNE	2	c.
Bombay, str.,	28 26	122 2	.16	NNE	2	c.
October 13th.						
Taisang, str.,	28° 17′	121° 53′	30.18	NE	4	c.
Sabine Rickmers, str.,	27 35	121 35	.13	N	4	b.
Nanyang, str.,	27 28	121 26	.12	NE	3	c.
Toonan, str.,	27 1	120 53	.13	NE	2	c.
Ravenna, str.,	26 7	120 56	.12	NE N	6	k.
Bygdo, str.,	24 58	119 28	.06	NE	4	k.
Bengloe, str.,	24 5	118 23	.11	NE	4	m.
Choysang, str.,	23 1	116 42	.06	NE	5	b.
Riojun Maru, str.,	22 28	120 26	.04	WNW	3	b.
Kagoshima Maru, str.,	22 28	120 26	.02	NW	2	b.
Phra Chom Klao, str.,	21 25	113 26	29.99	E	4	k.
Zafiro, str.,	21 ...	119 ...	30.06	ENE	3	c.
Benvenue, str.,	20 27	112 55	.04	ENE	4	k.
Picciola, str.,	20 20	112 30	.01	NE	5	c.
Framnes, str.,	19 7	112 1	29.98	ENE	5	oq.
Oanfa, str.,	16 45	113 15	.98	NE	5	cq.
Memnon, str.,	15 36	116 32	.92	var.	1	or.
Kong Beng, str.,	15 15	109 56	30.03	SE	3	cp.
Salazie, str.,	14 30	110 9	29.95	N	3	o.
Java, str.,	14 21	112 20	.91	ENE	2	k.
Sishan, str.,	12 37	109 29	.91	N	4	k.
Arratoon Apcar, str.,	11 31	110 40	.85	var.	1	k.
Tailee, str.,	10 54	111 40	.88	var.	4	q.
Chunshan, str.,	8 50	104 7	.95	var.	3	orq.
Cassius, str.,	8 28	106 41	.85	E/S	3	cp.
Propontis, str.,	7 53	106 41	...	NW	1	b.
Emily Whitney, sh.,	6 34	136 22	...	var.	1	k.
Phra Nang, str.,	4 27	105 30	.87	SSE	1	...
Torrisdale, bk.,	2 58	123 33	.89	SE	4	or.
October 14th.						
Empress of Japan, str.,	42 38	156 2	30.33	WNW	6	o.
Nanchang, str.,	38 52	118 12	.02	S	2	k.
Progress, str.,	37 37	121 27	...	SSW	5	...
Osaka, bk.,	37 30	122 33	...	SE	3	o.
Gaelic, str.,	37 4	162 19	.33	N	4	opq.
Pingsuey, str.,	34 59	140 16	.36	E	4	o.
Ancona, str.,	34 40	135 11	.22	NE	3	k.
Memnuir, str.,	34 9	133 7	.16	E	5	oq.
Argyll, str.,	32 29	134 33	.10	E	4	orq.
Tacoma, str.,	31 9	126 11	.07	var.	2	or.
Ravenna, str.,	29 24	124 49	.04	N	4	o.
Bygdo, str.,	27 45	121 44	.06	NNE	2	k.
Choysang, str.,	25 11	119 41	.06	N W	3	c.
Sabine Rickmers, str.,	24 47	119 13	.04	NNE	4	b.
Taisang, str.,	24 51	118 59	.07	NE N	4	b.
Nanyang, str.,	24 3	118 28	.01	NNE	3	c.
Marquis Becqueham, str.,	23 55	118 22	.04	NNE	4	o.
Riojun Maru, str.,	22 28	120 26	.01	SW	2	b.
Kagoshima Maru, str.,	22 28	120 26	29.97	SW	2	b.
Bengloe, str.,	22 22	115 8	30.03	ENE	2	k.
Framnes, str.,	21 29	114 15	.03	NE	5	c.
Oanfa, str.,	21 1	113 42	.04	NE	4	c.
Salazie, str.,	18 26	111 19	.01	NE	4	o.
Java, str.,	17 55	113 25	29.93	E	6	k.
Zafiro, str.,	17 ...	120 ...	.98	E	2	c.
Benvenue, str.,	16 31	109 56	.95	ENE	3	c.
Sishan, str.,	15 24	110 39	.88	E	5	q.
Tailee, str.,	13 52	114 26	.88	E	3	q.
Memnon, str.,	11 34	117 37	.95	NE	1	c.
Kong Beng, str.,	10 52	108 37	...	E	3	o.
Chunshan, str.,	9 50	107 23	.85	E	4	or.
Arratoon Apcar, str.,	7 59	108 30	.83	S/W	1	k.
Emily Whitney, sh.,	7 25	136 10	...	var.	1	k.
Torrisdale, bk.,	3 56	123 47	.90	...	0	k.
October 15th.						
Empress of Japan, str.,	45 12	163 44	30.34	NW	7	o.
Osaka, bk.,	38 51	120 25	...	WSW	2	k.
Progress, str.,	37 36	121 34	...	ENE	1	k.
Gaelic, str.,	36 28	155 30	.50	NE	4	c.
Ancona, str.,	33 47	131 40	.02	W	3	k.
Peru, str.,	33 42	132 10	.01	NW	3	c.
Argyll, str.,	33 41	137 25	29.94	SE	4	orq.
Ravenna, str.,	32 28	129 17	30.01	N	4	k.
Bygdo, str.,	30 50	122 49	.06	NNW	1	k.
Choysang, str.,	28 20	121 47	.12	NE	2	c.
Tacoma, str.,	28 18	123 13	.13	NW	2	b.
Marquis Becqueham, str.,	27 1	121 15	.11	NE	4	...
Chingtu, str.,	23 15	117 28	.02	NE	5	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 15th.						
Kagoshima Maru, str.,	22° 28′	120° 20′	29.99	W	1	b.
Riojun Maru, str.,	22 28	120 27	30.02	WNW	2	b.
Java, str.,	21 58	113 59	.00	E	6	k.
Machew, str.,	20 55	114 49	29.99	var.	6	k.
Ask, str.,	20 30	111 20	.95	ENE	3	...
Sishan, str.,	18 46	111 49	.92	ENE	5	k.
Tailee, str.,	17 23	115 43	.90	ENE	4	c.
Chunshan, str.,	12 18	109 29	.87	NNE	4	orq.
Benvenue, str.,	11 33	109 12	.83	NW	1	od.
Kong Beng, str.,	8 24	104 54	.95	SW	3	k.
Emily Whitney, sh.,	8 19	135 35	...	var.	1	k.
Memnon, str.,	7 35	116 47	.90	var.	1	p.
Mirzapore, str.,	4 30	105 40	.95	...	...	...
Arratoon Apcar, str.,	4 28	106 13	...	SW/S	...	k.
Torrisdale, bk.,	3 45	123 50	.90	NE	1	...
October 16th.						
Empress of Japan, str.,	47 36	172 20	30.31	N	7	o.
Osaka, bk.,	38 47	118 3	...	NE	5	o.
Gaelic, str.,	35 59	149 7	.04	SE	6	o.
Progress, str.,	35 15	122 55	...	S	2	o.
Bygdo, str.,	34 36	122 54	.10	E	2	k.
Peru, str.,	33 39	136 31	.06	E	2	c.
Ravenna, str.,	33 28	129 37	.08	ENE	4	k.
Chingtu, str.,	26 18	120 35	.02	NE	4	o.
Bombay, str.,	25 51	119 57	.01	NE	4	...
Tacoma, str.,	25 30	120 9	.05	NNW	4	c.
Cromarty, str.,	23 3	117 8	.03	NE	4	k.
Taiyuan, str.,	23 ...	117 ...	.00	NE/E	3	c.
Riojun Maru, str.,	22 28	120 27	.02	SW	2	b.
Sishan, str.,	21 37	113 54	29.97	NE	4	k.
Tailee, str.,	20 55	116 21	.97	NE	4	k.
Hongkong, str.,	20 25	110 52	.95	NE	3	...
Machew, str.,	17 53	111 39	.97	var.	1	k.
Yuensang, str.,	16 14	118 47	.82	E	3	b.
Chunshan, str.,	15 31	110 28	.91	NE	5	k.
Kong Beng, str.,	11 10	101 43	.95	E	3	cp.
Emily Whitney, sh.,	9 2	135 9	...	NE	2	k.
Mirzapore, str.,	8 22	108 16	.88	NNE	3	c.
Memnon, str.,	6 48	116 52	.84	ENE	2	c.
Jenny, sch.,	6 9	135 11	...	NE	2	...
Phra Nang, str.,	3 59	104 10	.78	NW	1	...
Torrisdale, bk.,	3 26	124 26	.88	NE	1	cp.
Airlie, str.,	3 19	124 17	.84	ENE	3	c.
October 17th.						
Chittagong, str.,	47 24	177 36	29.69	var.	var.	or.
Bygdo, str.,	38 40	121 20	30.06	N	1	k.
Gaelic, str.,	34 50	143 20	.15	var.	4	c.
Progress, str.,	32 26	123 9	...	S	2	o.
Lyeemoon, str.,	31 15	121 40	29.89	WNW	3	o.
Lyderhorn, str.,	31 12	127 32	...	SSE	2	...
Ravenna, str.,	30 28	134 31	.05	ENE	2	k.
Ancona, str.,	30 18	126 14	.97	S	4	or.
Chingtu, str.,	30 11	122 36	.97	NW	3	c.
Meefoo, str.,	28 9	122 2	.96	SW	1	k.
Braemar, str.,	27 43	121 53	.94	S	3	o.
Taiyuan, str.,	26 ...	121 ...	.94	S	2	k.
Salazie, str.,	25 36	117 49	.97	...	0	k.
Tacoma, str.,	23 3	116 59	30.02	W	2	b.
Sunda, str.,	22 26	115 10	...	ENE	3	b.
Java, str.,	22 20	114 47	29.96	ENE	2	k.
Yuensang, str.,	19 20	116 24	.86	NE	3	b.
Chunshan, str.,	18 59	111 54	.88	NE	3	k.
Machew, str.,	14 13	109 54	.88	var.	1	o.
Mirzapore, str.,	12 9	110 45	.89	NE	4	c.
Emily Whitney, sh.,	9 36	134 59	...	ENE	2	k.
Phra Nang, str.,	7 50	102 41	.84	NNW	2	p.
Airlie, str.,	7 ...	122 8	.82	var.	1	c.
Jenny, sch.,	6 20	134 52	...	NE	2	...
Torrisdale, bk.,	3 59	124 33	.89	...	0	o.
October 18th.						
Salazie, str.,	30 22	120 17	30.01	N	4	c.
Progress, str.,	29 21	122 32	...	NW	2	o.
Lyderhorn, str.,	29 15	124 5	.02	W	3	...
Toonan, str.,	29 5	122 15	.00	N	4	b.
Taiyuan, str.,	29 ...	125 ...	29.97	NW	3	k.
Lyeemoon, str.,	27 23	121 20	.98	NNE	3	o.
Ancona, str.,	27 20	122 24	30.01	NW	2	o.
Chi Yuen, str.,	26 23	120 31	29.94	NNE	2	og.
October 18th.						
Meefoo, str.,	24° 56′	119° 35′	29.96	...	0	k.
Sunda, str.,	24 55	119 33	...	...	0	b.
Java, str.,	24 26	119 2	.95	var.	1	k.
Riojun Maru, str.,	22 36	120 15	.98	S	1	b.
Bombay, str.,	22 30	115 21	.97	ENE	2	c.
Chunshan, str.,	22 11	114 5	.90	E	2	k.
Ask, str.,	21 50	113 25	.88	ENE	1	...
Cosmopolit, str.,	21 38	113 28	.94	SW	...	k.
Picciola, str.,	21 26	113 35	.91	ESE	3	b.
Mirzapore, str.,	16 23	113 18	.89	NE	4	c.
Airlie, str.,	10 50	121 41	.85	...	0	b.
Emily Whitney, sh.,	10 7	134 42	...	ENE	2	k.
Machew, str.,	10 5	108 15	.85	NE	4	cp.
Prinz Heinrich, str.,	5 40	106 48	.81	N	1	c.
Torrisdale, bk.,	4 14	124 50	.89	ESE	1	c.
October 19th.						
Chittagong, str.,	46 24	173 39	29.39	WSW	var.	op.
Peru, str.,	34 58	140 12	.90	SE	1	c.
Taiyuan, str.,	31 ...	130 ...	.93	N	4	k.
Chi Yuen, str.,	29 10	122 5	30.07	N	4	o.
Sunda, str.,	28 40	122 11	...	NNE	5	o.
Java, str.,	27 57	121 44	.06	NE/N	6	op.
Lyderhorn, str.,	26 41	121 18	.12	N	3	...
Progress, str.,	26 23	120 31	...	NNE	6	o.
Frejr, str.,	24 34	118 54	.03	NE	4	o.
Ancona, str.,	24 7	118 30	.03	N	3	o.
Lyeemoon, str.,	23 57	118 12	.01	NE	4	o.
Meefoo, str.,	22 37	116 13	.02	E	2	o.
Riojun Maru, str.,	22 36	120 15	.01	NW	2	b.
Framnes, str.,	21 28	113 31	29.99	E	3	c.
Mirzapore, str.,	21 21	113 52	.87	ENE	4	c.
Sungkiang, str.,	21 11	118 58	.96	E	4	c.
Ask, str.,	20 4	110 20	.88	ENE	3	...
Picciola, str.,	17 52	111 12	.92	ESE	3	b.
Airlie, str.,	14 35	119 30	.88	NE	2	b.
Emily Whitney, sh.,	11 53	134 24	...	ENE	4	k.
Prinz Heinrich, str.,	10 5	110 0	.86	NE	4	...
Keong Wai, str.,	8 30	105 32	.90	ENE	...	crq.
Machew, str.,	6 25	106 25	.82	var.	1	cpq.
Torrisdale, bk.,	4 24	125 32	.87	NE	4	c.
Repton, str.,	3 36	105 50	.83	...	0	k.
October 20th.						
Chittagong, str.,	46 2	170 38	...	E	5	or.
Peru, str.,	37 16	145 45	29.98	NE	4	cp.
Ravenna, str.,	34 30	138 34	.97	ESE	6	k.
Gaelic, str.,	34 29	138 48	30.00	NE	4	c.
Menmuir, str.,	34 25	134 10	.05	S	2	cp.
Taiyuan, str.,	33 ...	134 ...	.00	ENE	6	k.
Salazie, str.,	33 31	121 57	.12	NE	3	c.
Java, str.,	31 24	121 31	.15	NE/N	2	k.
Choy Sang, str.,	27 46	121 28	.10	NE	2	c.
Lyderhorn, str.,	24 6	118 51	.08	NE	5	...
Progress, str.,	23 58	118 16	...	NE	5	o.
Kwanglee, str.,	23 23	117 5	.05	NE	5	c.
Riojun Maru, str.,	22 36	120 16	.01	SW	2	b.
Peiyang, str.,	22 16	116 52	.06	ENE	4	o.
Activ, str.,	21 30	113 25	.00	NE	4	cm.
Ask, str.,	21 29	109 5	...	E	3	...
China, str.,	21 25	113 30	29.96	ENE	3	k.
Phra Chom Klao, str.,	19 3	111 32	.98	E	5	c.
Airlie, str.,	18 19	117 15	.91	NE	5	c.
Framnes, str.,	17 59	111 33	.95	E	3	c.
Sungkiang, str.,	16 48	119 19	.88	SE	4	c.
Prinz Heinrich, str.,	15 5	112 49	.86	NE	4	...
Emily Whitney, sh.,	14 26	134 3	...	NNE	4	k.
Picciola, str.,	13 56	109 53	.91	ESE	3	b.
Keong Wai, str.,	10 43	108 10	.92	NE	4	c.
Propontis, str.,	10 17	107 19	.92	ENE	2	c.
Repton, str.,	6 29	107 24	.83	NE	4	orq.
Torrisdale, bk.,	5 0	124 5	.88	NNE	4	c.
Machew, str.,	2 31	104 48	.80	var.	var.	pq.
October 21st.						
Chittagong, str.,	45 30	167 37	30.19	var.	2	k.
Peru, str.,	39 35	151 25	.03	N	2	c.
Taiyuan, str.,	35 ...	139 ...	.02	NE	4	k.
Brindisi, str.,	33 56	130 27	29.99	var.	2	b.
Gaelic, str.,	32 1	133 29	.93	NE	1	c.
Chusan, str.,	28 54	122 20	30.01	SE	3	ogr.

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October 21st.						
Kwanglee, str.,	25° 33′	120° 2′	30.00	NE	3	c.
Choysang, str.,	24 20	118 48	29.99	NE	3	c.
Riojun Maru, str.,	22 36	120 15	30.00	SW	1	b.
Mirzapore, str.,	22 27	115 8	.00	NE	4	o.
Progress, str.,	22 20	114 52	...	ENE	5	...
Lyderhorn, str.,	22 19	115 43	.00	E	4	...
Airlie, str.,	21 54	114 41	29.93	ENE	4	c.
Ask, str.,	21 29	109 5	...	SE	1	...
Prinz Heinrich, str.,	20 41	113 50	.93	E	3	c.
Activ, str.,	20 10	110 15	.93	S	2	c.
Bombay, str.,	18 36	113 34	.95	SSW	4	orq.
China, str.,	17 53	111 4	.93	S	2	k.
Emily Whitney, sh.,	16 58	132 50	...	NE	4	k.
Phra Chom Klao, str.,	15 33	109 41	.93	var.	1	o.
Framnes, str.,	14 25	110 21	.90	...	0	oq.
Keong Wai, str.,	13 29	109 43	.97	N	3	c.
Propontis, str.,	12 13	109 20	.96	N	2	c.
Cassius, str.,	11 ...	108 46	.90	NNE	4	c.
Picciola, str.,	10 33	107 50	.88	NE	3	b.
Repton, str.,	8 54	109 6	.83	NE	5	o.
Torrisdale, bk.,	5 14	124 47	.88	...	0	k.
October 22nd.						
Chittagong, str.,	44 2	162 24	30.09	S	4	o.
Peru, str.,	41 48	157 20	29.99	W	1	c.
City of Peking, str.,	41 16	179 5	30.06	WSW	4	...
Salazie, str.,	34 20	131 20	29.97	E	1	o.
Menmuir, str.,	33 44	130 1	.82	SE	2	op.
Kriemhild, str.,	32 12	132 30	.94	SW	2	ogr.
Brindisi, str.,	31 17	126 34	.84	W	3	op.
Kwanglee, str.,	28 51	122 8	.96	NE	2	c.
Peiyang, str.,	28 41	121 56	.96	N	2	c.
Chusan, str.,	25 32	119 58	.99	...	0	oq.
Frejr, str.,	25 12	121 4	.92	E	1	p.
Mirzapore, str.,	25 0	119 38	.95	ENE	1	c.
Riojun Maru, str.,	22 36	120 15	.93	N	2	b.
Cromarty, str.,	22 27	115 49	30.01	var.	1	k.
Sagami Maru, str.,	22 22	114 35	29.92	E	4	c.
Braemar, str.,	22 22	115 49	.96	var.	1	k.
Choysang, str.,	22 21	114 46	.97	var.	1	c.
Activ, str.,	21 28	109 5	.94	SW	2	k.
Ask, str.,	20 4	110 20	...	NE	2	...
Emily Whitney, sh.,	19 24	131 46	...	NE	4	k.
Keong Wai, str.,	17 6	110 58	.97	ESE	2	c.
Propontis, str.,	15 23	110 32	.94	N	1	b.
Bombay, str.,	14 26	112 25	.92	E S	2	c.
China, str.,	13 50	109 48	.86	S	1	k.
Cassius, str.,	13 47	110 0	.91	NNE	1	c.
Repton, str.,	11 49	110 52	.89	NE	4	k.
Phra Chom Klao, str.,	11 14	108 58	...	var.	2	c.
Phra Nang, str.,	10 55	102 0	.91	var.	1	k.
Framnes, str.,	10 44	108 26	.84	NE	3	k.
Torrisdale, bk.,	5 19	123 51	.89	...	0	k.
October 23rd.						
Peru, str.,	43 44	163 42	29.97	var.	1	c.
Chittagong, str.,	42 14	158 29	30.09	...	4	or.
City of Peking, str.,	40 39	171 54	.05	var.	2	om.
Osaka, bk.,	38 55	119 0	...	N	5	o.
Salazie, str.,	34 39	132 51	29.88	...	0	b.
Toonan, str.,	32 51	122 25	30.10	N	6	c.
Menmuir, str.,	31 1	126 25	.00	NW	4	cp.
Kriemhild, str.,	30 30	129 0	29.96	NNW	4	crq.
Mirzapore, str.,	28 57	122 7	30.13	NE	5	c.
Brindisi, str.,	28 12	123 17	.02	N W	5	o.
Chingtu, str.,	27 33	121 30	.11	NW	1	op.
Sagami Maru, str.,	24 1	118 30	29.96	NE	7	c.
Riojun Maru, str.,	23 50	118 16	.95	NNE	7	c.
Taisang, str.,	23 9	116 48	.98	NE	6	or.
Activ, str.,	21 29	109 5	.94	SW	3	o.
Emily Whitney, sh.,	21 15	131 46	...	NE	4	k.
Ask, str.,	20 30	111 30	...	E N	3	...
Keong Wai, str.,	20 18	112 51	.98	E	2	c.
Propontis, str.,	18 47	111 59	.98	E	1	b.
Cassius, str.,	17 16	111 9	.94	NE	1	c.
Repton, str.,	14 19	113 11	.89	NE	4	k.
Bombay, str.,	10 44	110 9	.91	NE	3	c.
China, str.,	10 25	107 36	...	E	1	k.
Phra Chom Klao, str.,	8 32	105 40	88	E	4	c.
Phra Nang, str.,	8 24	104 38	.87	E	2	...

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 23rd.						
Framnes, str.,	8° 20′	104° 56′	29.85	var.	2	oq.
Torrisdale, bk.,	4 54	124 23	.89	W/N	1	cp.
Verona, str.,	4 43	106 23	.90	N	1	cp.
Letimbro, str.,	3 57	105 17	.85	NNE	3	o.
Rio, str.,	3 38	105 32	.90	...	0	orq.
October 24th.						
Peru, str.,	45 6	169 35	29.21	NW	6	cp.
Chittagong, str.,	40 29	153 46	30.19	...	6	o.
City of Peking, str.,	40 5	165 24	29.77	NW	5	oq.
Osaka, bk.,	39 21	121 3	...	N	2	k.
Toonan, str.,	35 28	122 41	30 05	NW	6	c.
Marquis Becqueham, str.,	32 18	125 33	.11	NW	4	...
Kriemhild, str.,	28 50	125 4	.17	NNW	6	cq.
Gaelic, str.,	28 13	123 56	.12	WNW	5	o.
Menmuir, str.,	27 58	122 57	.14	NW	6	cp.
Sagami Maru, str.,	25 46	120 22	.10	NNE	6	c.
Taisang, str.,	25 1	119 10	.09	NNE	7	c.
Brindisi, str.,	25 0	119 39	.10	NE	6	op.
Riojun Maru, str.,	24 29	118 30	.10	NE	4	c.
Emily Whitney, sh.,	23 16	130 56	...	E	4	o.
Hohenzollern, str.,	23 8	117 25	.06	NE	8	o.
Frejr, str.,	22 57	120 3	29.98	NNE	4	c.
Braemar, str.,	21 32	113 34	30.01	N	4	or.
Activ, str.,	21 29	109 5	.05	NNW	4	c.
Propontis, str.,	21 2	113 28	.04	NE	6	...
Cassius, str.,	19 52	112 40	.00	NNE	6	op.
Cromarty, str.,	19 48	112 38	.02	NNE	6	o.
Repton, str.,	17 49	113 27	29.95	NE	5	orq.
Jacob Christensen, str.,	13 16	110 5	.88	ENE	...	k.
Framnes, str.,	10 49	102 2	.89	E	2	oq.
Kong Beng, str.,	10 23	102 29	.86	var.	3	q.
Verona, str.,	8 19	108 59	.88	NE E	5	b.
Rio, str.,	7 7	107 29	.87	NE	5	k.
Letimbro, str.,	6 54	107 2	.85	NE	4	or.
Bombay, str.,	6 38	107 40	.89	E	4	c.
October 25th.						
John Baizley, bk.,	40 50	131 30	30.14	N	4	k.
Osaka, bk.,	39 38	120 43	...	NNE	5	k.
City of Peking, str.,	39 6	158 56	.11	SE	4	om.
Toonan, str.,	37 34	121 25	.23	NE	2	b.
Pingsuey, str.,	34 45	139 59	29.85	WSW	3	c.
Ravenna, str.,	34 42	139 7	.86	WSW	5	o.
Marquis Becqueham, str.,	33 56	129 52	30.19	NNW	4	...
Sunda, str.,	31 43	125 48	.24	N	4	b.
Chi Yuen, str.,	28 44	121 52	.28	NNW	3	c.
Sagami Maru, str.,	28 38	122 15	.24	N	5	c.
Taisang, str.,	27 31	120 53	.20	NE	5	b.
Kriemhild, str.,	26 33	121 20	.25	NNE	4	c.
Hohenzollern, str.,	25 6	120 35	.14	NE	6	o.
Menmuir, str.,	24 55	119 30	.14	NE	6	cp.
Gaelic, str.,	24 36	119 12	.13	NE	6	o.
Riojun Maru, str.,	24 29	118 30	.16	NE	5	b.
Emily Whitney, sh.,	24 10	130 13	...	NE	5	o.
Chusan, str.,	24 0	117 55	.14	NE	3	k.
Brindisi, str.,	22 27	115 26	.08	ENE	5	b.
Cassius, str.,	22 3	113 52	.12	NNE	5	c.
Activ, str.,	21 29	109 5	.06	var.	2	c.
Repton, str.,	20 1	113 16	.07	NE	9	orq.
Braemar, str.,	18 3	111 0	.00	NE	4	k.
Cromarty, str.,	16 32	110 44	29.97	NE	6	orq.
Jacob Christensen, str.,	16 5	110 46	.94	ENE	9	...
Phra Nang, str.,	12 34	109 31	.90	NNW	2	...
Verona, str.,	12 17	111 18	.94	NE	5	b.
Picciola, str.,	10 58	108 30	.88	ENE	4	c.
Letimbro, str.,	8 54	109 27	.95	NW-NE	3-6	or.
Kong Beng, str.,	8 26	105 10	.90	NE	3	oq.
Memnon, str.,	7 49	118 58	.93	NE	2	c.
Ulysses, str.,	4 55	106 26	.91	NNE	2	o.
Torrisdale, bk.,	4 3	124 17	.91	...	0	o.
Bombay, str.,	3 24	105 26	.94	SW	4	or.
Shantung, str.,	2 22	120 11	.86	W	2	k.
Kutsang, str.,	1 40	104 41	.94	WNW	3	op.
Malacca, str.,	1 17	103 50	.89	SE	2	c.
October 26th.						
Iser, str.,	42 7	131 53	30.22	NW	2	k.
Bygdo, str.,	40 34	122 0	.10	SW	3	k.
Nanchang, str.,	40 20	121 37	.16	S	4	k.
John Baizley, bk.,	38 55	129 52	.26	ESE	5	orq.

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October 26th.						
Toonan, str.,	38° 53′	117° 51′	30.23	S	1	b.
City of Peking, str.,	37 47	153 30	.01	WNW	4	o.
Chittagong, str.,	37 21	146 11	...	N	2	k.
Ravenna, str.,	34 40	135 12	.19	S	2	k.
Pingsuey, str.,	34 16	135 1	.16	N	4	b.
Argyll, str.,	34 9	137 45	.11	NE	4	c.
Sagami Maru, str.,	31 5	122 24	.21	...	0	c.
Taisang, str.,	30 49	122 16	.21	NNE	2	c.
Hohenzollern, str.,	27 29	125 30	.18	ENE	4	o.
Emily Whitney, sh.,	25 56	128 58	...	NE	4	k.
Frejr, str.,	24 20	118 15	.13	NNE	4	p.
Mascotte, str.,	23 50	117 55	.16	NE	5	c.
Kriemhild, str.,	23 37	117 53	.13	NNE	6	c.
Riojun Maru, str.,	23 35	117 46	.12	NNE	4	b.
Lyeemoon, str.,	23 31	117 22	.12	ENE	3	c.
Cosmopolit, str.,	21 15	112 43	.08	ENE	5	o.
Activ, str.,	20 4	110 20	.05	ESE	4	c.
Jacob Christensen, str.,	18 10	111 44	29.99	NE	5	...
Verona, str.,	16 5	113 27	.96	ENE	4	cp.
Zafiro, str.,	16 ...	119 ...	.95	NNE	2	c.
Phra Nang, str.,	15 39	110 26	.93	E	4	...
Braemar, str.,	13 50	109 40	.96	SW	2	k.
Rio, str.,	13 4	109 47	.97	N	2	k.
Benvenue, str.,	12 57	109 57	.96	NNE	2	k.
Cromarty, str.,	12 50	110 14	.97	var.	1	...
Picciola, str.,	12 48	110 33	.92	NNE	4	b.
Memnon, str.,	11 32	119 58	.92	E	1	cp.
Letimbro, str.,	10 54	111 44	.95	NE	3	o.
Kong Beng, str.,	10 14	107 52	.95	ENE	2	c.
Ulysses, str.,	8 28	109 9	.95	NNE	1	o.
Shantung, str.,	5 22	121 25	.85	NW	1	k.
Kutsang, str.,	5 10	107 0	.97	N/E	1	c.
Malacca, str.,	4 31	106 14	.99	var.	1	c.
Torrisdale, bk.,	4 2	125 18	.89	var.	1	c.
October 27th.						
Toonan, str.,	38 38	117 3	30.06	SW	2	b.
Iser, str.,	37 56	131 28	.16	ESE	4	k.
John Baizley, bk.,	37 44	129 18	.09	SE	...	k.
Bygdo, str.,	37 22	122 45	.14	SW	2	k.
Nanchang, str.,	36 56	122 46	.16	S	2	k.
City of Peking, str.,	36 18	147 10	.12	var.	4	c.
Chittagong, str.,	35 52	141 38	...	NNE	2	op.
Taiyuan, str.,	35 ...	139 ...	.04	E	4	og.
Argyll, str.,	34 35	135 9	.06	N	3	o.
Ravenna, str.,	33 42	132 5	.08	NNW	3	k.
Sunda, str.,	33 26	129 25	...	W	2	b.
Hohenzollern, str.,	30 40	130 27	.07	N	3	o.
Emily Whitney, sh.,	26 32	129 22	...	NE	4	k.
Lyeemoon, str.,	26 24	120 2	.05	NNE	3	o.
Frejr, str.,	23 40	117 45	.08	NE	4	p.
Meefoo, str.,	22 59	116 36	.03	NE	4	k.
Mascotte, str.,	22 3	114 12	...	ENE	3	c.
Ask, str.,	21 40	113 20	...	ENE	3	...
Activ, str.,	20 45	111 24	.03	ENE	4	c.
Sishan, str.,	20 35	114 33	29.99	ENE	4	c.
Jacob Christensen, str.,	20 15	113 24	30.01	NE	5	...
Verona, str.,	20 8	114 6	.03	NE/E	2	b.
Zafiro, str.,	19 32	116 25	.01	NE	5	c.
Phra Nang, str.,	18 37	111 46	29.98	NE/E	3	k.
Rio, str.,	16 22	110 42	.99	NE	3	or.
Benvenue, str.,	15 56	112 1	.97	NE	3	...
Picciola, str.,	15 5	112 1	.94	NNE	4	b.
Memnon, str.,	14 58	118 12	.92	N	4	c.
Letimbro, str.,	13 14	113 58	.95	NE	5	o.
Kong Beng, str.,	12 56	109 36	.96	NNW	3	c.
Ulysses, str.,	12 35	111 18	.95	N	4	c.
Braemar, str.,	9 26	108 26	.94	NE	2	o.
Cromarty, str.,	9 16	109 9	.96	SW	2	c.
Kutsang, str.,	8 34	109 10	.98	N/W	3	c.
Shantung, str.,	8 22	121 49	.81	var.	4	o.
Malacca, str.,	7 58	109 9	.98	WNW	2	c.
Torrisdale, bk.,	5 7	127 18	.90	W	5	o.
Namyong, str.,	3 0	105 25	30.00	NE	1	...
October 28th.						
Michael Jebsen, str.,	39 2	121 3	29.89	S/W	6-7	...
Toonan, str.,	38 38	117 3	.88	NW	4	o.
John Baizley, bk.,	37 11	129 49	30.06	NNW	4	k.
City of Peking, str.,	35 13	140 50	.03	var.	4	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 28th.						
Pingsuey, str.,	34° 25′	134° 6′	30.01	var.	2	b.
Chittagong, str.,	34 12	137 22	...	NW	3	k.
Bygdo, str.,	33 53	122 50	.02	SW	1	k.
Hohenzollern, str.,	33 32	136 11	.01	N	3	o.
Nanchang, str.,	32 59	122 58	.04	SE	2	c.
Ravenna, str.,	32 24	126 26	.06	NE	2	o.
Victoria, str.,	30 8	122 46	...	ENE	2	o.
Lyeemoon, str.,	29 53	122 35	.01	NE/E	3	o.
Emily Whitney, sh.,	27 19	129 37	...	NE	2	k.
Chingtu, str.,	25 25	119 58	.03	N	3	od.
Sabine Rickmers, str.,	24 35	118 47	.00	NE	4	...
Phra Nang, str.,	21 43	113 47	29.93	NE/E	2	...
Mascotte, str.,	20 11	110 41	30.00	E/S	4	c.
Rio, str.,	19 35	112 40	29.93	NE	2	k.
Benvenue, str.,	19 28	113 11	.96	NE	2	k.
Memnon, str.,	18 8	116 36	.94	NE	5	c.
Picciola, str.,	17 9	113 40	.89	NNE	4	c.
Sishan, str.,	17 9	111 33	.92	var.	1	k.
Ulysses, str.,	16 19	113 31	.92	NE	5	c.
Kong Beng, str.,	16 3	110 30	.93	NNE	3	c.
Letimbro, str.,	15 31	115 27	.90	NNE	4	o.
Kutsang, str.,	12 2	110 56	.93	N	3	c.
Malacca, str.,	11 53	111 5	.93	NNE	4	o.
Shantung, str.,	11 40	121 19	.75	N	4	or.
Cromarty, str.,	5 35	107 10	...	SW/S	7	or.
Namyong, str.,	5 34	106 50	30.00	N	2	...
Braemar, str.,	5 15	106 40	29.89	S	6	o.
Torrisdale, bk.,	5 7	130 16	.89	SW	6	od.
October 29th.						
Toonan, str.,	38 38	117 3	30.07	SE	2	o.
John Baizley, bk.,	36 38	130 36	.12	SW	...	o.
Michael Jebsen, str.,	36 19	123 3	.03	S	3	k.
Shanghai, str.,	34 57	139 30	.16	NE	3	k.
Victoria, str.,	34 10	122 54	...	E	2	o.
Chittagong, str.,	32 41	134 20	...	NE	2	...
Kwanglee, str.,	31 22	121 40	29.94	...	0	or.
Bygdo, str.,	30 10	122 58	.91	SSE	2	or.
Nanchang, str.,	29 6	122 36	.96	ENE	4	or.
Emily Whitney, sh.,	28 59	128 ...	...	ENE	5	or.
Meefoo, str.,	27 41	121 2	.95	N	3	or.
Sabine Rickmers, str.,	26 55	120 45	.93	N	6	...
Yuensang, str.,	22 52	116 28	.93	ENE	3	c.
Chingtu, str.,	22 34	115 39	.90	N	1	c.
Kachidate Maru, str.,	22 28	115 16	.91	ENE	3	f.
Memnon, str.,	21 47	114 56	.92	ENE	2	c.
Ulysses, str.,	20 54	113 52	.90	NE	2	c.
Picciola, str.,	20 24	113 47	.89	NE	4	b.
Brindisi, str.,	19 43	112 42	.89	ESE	3	o.
Kong Beng, str.,	19 21	112 1	.90	NNE	2	o.
Letimbro, str.,	18 18	115 35	.90	NNE	4	o.
Malacca, str.,	15 35	113 6	.89	N/E	4	o.
Kutsang, str.,	15 16	112 59	.92	NNE	4	c.
Shantung, str.,	14 34	119 30	.74	NE	4	o.
Sishan, str.,	13 29	109 25	.89	...	0	o.
Namyong, str.,	8 48	108 10	.98	SSW	6	...
Torrisdale, bk.,	6 21	133 21	.88	W	6	o.
Cromarty, str.,	2 43	105 15	.89	SW/S	3	k.
Braemer, str.,	1 32	104 42	.94	SW	2	k.
Selkirk, sh.,	1 7	119 57	...	SW	5	...
October 30th.						
Toonan, str.,	38 38	117 3	29.92	var.	2	o.
John Baizley, bk.,	35 0	129 12	.90	NE	5	o.
Pingsuey, str.,	33 56	129 55	.79	E	3	or.
Michael Jebsen, str.,	32 56	122 48	30.00	var.	2	o.
Chittagong, str.,	31 40	131 46	...	...	6	or.
Taisang, str.,	31 17	121 47	.05	NW	3	c.
Meefoo, str.,	30 30	122 28	.00	NW/N	5	o.
Emily Whitney, sh.,	30 14	126 59	...	N	4	o.
Sabine Rickmers, str.,	29 44	122 28	29.99	NW	5	og.
Kwanglee, str.,	27 23	121 14	30.02	N	3	c.
Bygdo, str.,	26 50	121 0	29.98	N	1	o.
Nanchang, str.,	25 42	120 22	.97	NE	4	o.
Kachidate Maru, str.,	24 47	119 20	.94	NE	4	c.
Tacoma, str.,	24 22	118 8	.93	N	3	c.
Choysang, str.,	23 20	117 3	.91	NNE	2	c.
Letimbro, str.,	21 36	114 18	.92	NE	2	o.
Activ, str.,	21 35	113 35	.94	N	4	o.
Malacca, str.,	19 41	114 30	.89	NE	4	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
October 30th.						
Kutsang, str.,	19° 1′	113° 47′	29.90	N	4	o.
Keong Wai, str.,	18 50	112 2	.91	NE	3	c.
Shantung, str.,	17 18	118 44	.74	NE	4	ol.
Brindisi, str.,	15 58	110 7	.83	N	3	o.
Namyong, str.,	11 55	109 18	.94	N	2	...
Sishan, str.,	10 17	107 6	.86	SW	3	o.
Torrisdale, bk.,	8 40	134 1	.87	W	5	o.
Rohilla, str.,	3 48	105 46	.84	NNE	1	k.
Selkirk, sh.,	2 32	123 6	...	S	...	...
John R. Kelly, sh.,	1 4	120 25	...	...	0	k.
October 31st.						
Toonan, str.,	38 55	118 25	30.34	NE	8	osq.
John Baizley, bk.,	34 0	126 50	.18	NNW	4	k.
City of Peking, str.,	33 18	136 7	29.98	NW	4	c.
Pingsuey, str.,	31 48	124 47	30.17	NNE	3	b.
Chittagong, str.,	30 5	128 35	...	N	6	k.
Michael Jebsen, str.,	29 29	122 32	.14	ESE	4	or.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
October 31st.						
Taisang, str.,	27° 2′	121° 4′	30.11	NNE	4	om.
Kachidate Maru, str.,	26 56	122 49	.05	NE	5	c.
Tacoma, str.,	25 48	120 13	.00	NNE	6	c.
Choysang, str.,	25 33	119 38	29.96	NE	6	og.
Bygdo, str.,	24 20	118 30	.98	NE	4	or.
Kwanglee, str.,	23 55	118 12	.98	NE	6	c.
Yuensang, str.,	23 30	118 20	.96	NE	4	cq.
Nanchang, str.,	23 7	117 11	30.00	NE	6	o.
Chunshan, str.,	20 38	114 22	29.86	NE	7	og.
Activ, str.,	20 13	110 59	.91	NE	3	o.
Shantung, str.,	20 0	116 3	.73	NE E	6	or.
Keong Wai, str.,	15 1	110 16	.82	NNW	4	o.
Namyong, str.,	14 48	110 25	.86	NW N	6	...
Brindisi, str.,	11 52	109 19	.79	...	0	c.
Torrisdale, bk.,	11 4	124 28	.87	WNW	2	m.
Rohilla, str.,	7 33	108 13	.80	WSW	3	k.
Guthrie, str.,	1 51	125 12	.68	NW	4	k.
John R. Kelly, sh.,	1 45	121 38	...	...	0	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
November 1st.						
Toonan, str.,	38° 0′	120° 57′	...	NNE	6	o.
John Baizley, bk.,	34 49	124 46	30.28	NE N	5	o.
Sagami Maru, str.,	34 12	122 49	.29	N E	7	og.
Argyll, str.,	33 54	132 33	.16	var.	1	c.
Java, str.,	32 2	126 27	.12	NE N	1	c.
Pingsuey, str.,	31 14	121 30	.18	NE	4	p.
City of Peking, str.,	31 2	130 50	.19	var.	3	c.
Kachidate Maru, str.,	29 21	126 37	.08	NE	5	o.
Tacoma, str.,	29 7	122 19	.10	NNE	3	or.
Chittagong, str.,	28 32	125 13	.09	NE	5	o.
Choysang, str.,	28 19	121 54	.02	NNE	4	ogr.
Peiyang, str.,	28 11	121 53	.10	NE	3	or.
Michael Jebsen, str.,	26 12	120 41	.00	NNE	7	orq.
Taisang, str.,	23 45	117 44	.14	NE	5	c.
Store Nordiske, str.,	23 34	119 44	...	NNE	5	o.
Bygdo, str.,	22 20	115 15	29.91	ENE	4	o.
Tailee, str.,	20 49	114 56	.88	NE/E	6	o.
Ask, str.,	20 20	111 15	...	NE	6	...
I.M.C.C. Likin,	20 13	109 55	.85	NNE	5	c.
Yuensang, str.,	19 12	118 58	.86	E	5	c.
Chunshan, str.,	18 6	110 54	.55	SE	7	o.
Sungkiang, str.,	16 14	118 56	.79	WNW	3	c.
Namyong, str.,	16 6	110 51	.68	W	10	k.
Torrisdale, bk.,	12 9	134 31	.89	...	0	cp.
Rohilla, str.,	11 17	110 30	.76	SW	4	...
Keong Wai, str.,	11 10	108 49	.79	SW	4	c.
Brindisi, str.,	8 40	106 46	.84	W	4	o.
Guthrie, str.,	5 12	123 7	.83	WNW	3	k.
Catherine Apcar, str.,	4 2	106 0	.93	var.	...	o.
Selkirk, sh.,	1 55	125 15	...	W	1	...
John R. Kelly, sh.,	1 53	122 17	...	W	1	orqtl.
Daniel Barnes, sh.,	0 2	118 58	...	SSE	2	...
November 2nd.						
Sagami Maru, str.,	37 18	122 44	30.32	N	2	c.
John Baizley, bk.,	35 40	122 52	...	NNE	4	od.
Toonan, str.,	34 40	122 45	.29	N	3	og.
Shanghai, str.,	34 1	130 1	.23	NNE	4	...
Marquis Becqueham, str.,	33 21	128 49	.23	NE	2	...
Iser, str.,	32 42	127 35	.24	N W	5	o.
Kachidate Maru, str.,	32 23	129 50	.14	NNE	5	or.
Tacoma, str.,	31 23	121 35	.29	NNW	8	od.
Lyderhorn, str.,	31 13	127 27	.18	N	6	...
Choysang, str.,	30 45	122 21	.21	NE	7	ogr.
Chittagong, str.,	26 15	123 0	...	NE	9	or.
Peiyang, str.,	24 29	118 48	.02	NNE	6	o.
Michael Jebsen, str.,	23 39	117 56	29.91	NNE	10	o.
Malacca, str.,	22 15	114 41	.99	N	4	oq.
Ask, str.,	21 20	112 20	...	NE	9	...
Mongkut, str.,	20 16	111 43	30.04	NNE	6	oq.
I.M.C.C. Likin,	20 13	109 55	.08	N	8	oq.
Sungkiang, str.,	19 4	116 48	29.71	NW	6	op.
Tailee, str.,	18 14	111 12	.88	E	5	orq.
Namyong, str.,	17 45	110 40	.90	N	8	...
Yuensang, str.,	15 1	119 58	.87	SW	4	oq.
Rohilla, str.,	15 0	113 6	.74	var.	1	o.
Chunshan, str.,	14 53	110 5	.71	S	5	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
November 2nd.						
Torrisdale, bk.,	13° 56′	133° 1′	29.94	NE	5	k.
China, str.,	13 11	109 44	.77	NNE	1	k.
Guthrie, str.,	8 51	121 51	.88	WNW	3	orq.
Keong Wai, str.,	8 38	106 7	.86	WSW	4	c.
Catherine Apcar, str.,	7 44	108 12	.89	WSW	2	cp.
Brindisi, str.,	4 52	105 51	.85	SW	3	c.
Selkirk, sh.,	2 5	126 33	...	WSW	...	orq.
John R. Kelly, sh.,	1 47	125 0	...	W	2	k.
Daniel Barnes, sh.,	1 20	119 58	...	S	4	opq.
November 3rd.						
John Baizley, bk.,	36 5	123 44	30.10	var.	5	kq.
Taiyuan, str.,	34 ...	134 ...	29.73	WNW	3	og.
Java, str.,	33 25	129 33	.99	NNW	7	o.
Shanghai, str.,	32 13	124 57	30.09	NW	5	o.
Iser, str.,	30 28	124 26	.07	NNW	6	o.
City of Peking, str.,	30 20	126 49	.02	NW	4	or.
Marquis Becqueham, str.,	29 58	125 7	.09	NNW	6	...
Lyderhorn, str.,	29 26	124 26	.14	NW	9	...
Ravenna, str.,	28 35	122 23	.16	NNW	6	o.
Malacca, str.,	23 37	117 48	.03	NNE	6	cq.
Zafiro, str.,	23 32	118 22	.01	NE	8	c.
Taisang, str.,	22 21	114 44	.17	N W	7	c.
Ask, str.,	22 20	113 30	...	N/W	7	...
Peiyang, str.,	22 18	114 53	...	N	6	c.
Michael Jebsen, str.,	22 18	114 40	.04	NNW	7	c.
Sungkiang, str.,	21 17	115 4	.04	N	5	c.
I.M.C.C. Likin,	20 13	109 55	.13	NNW	1	c.
Mongkut, str.,	20 10	110 36	.08	N	4	c.
Namyong, str.,	19 18	111 0	.09	N	6	...
Rohilla, str.,	18 34	113 31	29.89	N E	5	o.
Torrisdale, bk.,	15 49	131 32	.95	NE	4	k.
China, str.,	15 22	110 18	.94	NNE	8	k.
Tailee, str.,	14 4	110 22	.94	N	6	or.
Guthrie, str.,	12 45	120 43	.88	NW	4	k.
Catherine Apcar, str.,	10 52	110 19	.92	N W	5	o.
Framnes, str.,	10 42	102 10	.86	NE	3	o.
Chunshan, str.,	10 23	108 57	.88	var.	2	c.
Phra Chom Klao, str.,	10 8	107 58	.93	N	2	oq.
Keong Wai, str.,	9 38	103 4	.90	S	2	orq.
Selkirk, sh.,	3 28	128 33	...	SW	...	k.
John R. Kelly, sh.,	2 30	125 25	...	W	2	or.
Daniel Barnes, sh.,	2 15	121 33	...	W	1	...
Brindisi, str.,	1 16	104 7	.92	WSW	3	c.
November 4th.						
John Baizley, bk.,	37 15	124 42	30.29	WNW	6	...
Java, str.,	34 25	134 12	.08	WNW	4	c.
Tacoma, str.,	32 30	126 2	.17	N	5	c.
Iser, str.,	27 27	121 55	.28	NNW	5	...
Lyderhorn, str.,	27 14	121 58	.36	NNW	8	...
Marquis Becqueham, str.,	26 48	121 26	.33	N	5	...
City of Peking, str.,	26 38	121 45	.30	NNW	5	o.
Malacca, str.,	25 26	120 8	.19	NE	6	cq.
Ravenna, str.,	24 29	118 51	.17	NNW	6	k.
Benvenue, str.,	23 27	117 22	.22	NNE	4	k.
Namyong, str.,	21 4	112 37	.20	NNE	8	...
Devawongse, str.,	20 25	114 4	.16	NNE	5	o.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For. 0-12	Weather.
November 4th.						
I.M.C.C. Likin,	20° 5′	110° ...′	30.27 ins.	NNE	4	c.
Zafiro, str.,	19 41	119 0	.11	NE	6	c.
Chingtu, str.,	18 36	116 36	.12	NE	7	oq.
Phra Nang, str.,	18 28	111 31	.15	NE N	3	k.
China, str.,	17 13	110 36	.11	N E	7	o.
Torrisdale, bk.,	16 50	130 25	29.95	NE	4	c.
Guthrie, str.,	16 0	118 25	...	NNE	5	c.
Catherine Apcar, str.,	13 21	111 34	.98	N E	8	...
Phra Chom Klao, str.,	11 45	109 32	.94	N	7	ou.
Tailee, str.,	9 26	108 56	.98	N	6	o.
Framnes, str.,	8 26	104 49	.92	ENE	5	oq.
Chunshan, str.,	6 25	106 44	.95	SW	3	c.
Selkirk, sh.,	3 42	130 53	...	WSW	...	k.
John R. Kelly, sh.,	3 12	126 33	...	SW	1	o.
Daniel Barnes, sh.,	2 11	122 36	...	W	1	...
November 5th.						
Marie Berg, bk.,	39 32	119 36	...	NNE	2	...
John Baizley, bk.,	36 31	123 39	30.39	NW	5	k.
Taiyuan, str.,	34 ...	130 ...	.27	NNW	5	c.
Tacoma, str.,	33 59	130 52	.19	NNW	5	cq.
Hohenzollern, str.,	33 42	129 59	.25	NW	5	o.
Malacca, str.,	28 29	122 2	.44	NNE	5	c.
Benvenue, str.,	25 20	119 52	.29	NNE	7	o.
Iser, str.,	24 43	119 20	.30	N	5	o.
Lyderhorn, str.,	24 43	119 16	.36	NNE	8	...
Marquis Becquehan, str.,	23 43	118 11	.34	NE	6	...
City of Peking, str.,	22 52	116 44	.33	NNW	4	c.
Kong Beng, str.,	22 14	114 25	...	ENE	4	k.
Mascotte, str.,	20 37	107 33	.30	NNE	6	c.
I.M.C.C. Likin,	20 4	112 20	.31	NNE	4	c.
Memnon, str.,	19 21	115 19	.19	NNE	6	o.
China, str.,	18 9	111 5	.18	NNE	8	o.
Torrisdale, bk.,	18 5	129 6	29.95	NE	4	c.
Guthrie, str.,	18 5	117 16	30.16	NNE	9	oq.
Devawongse, str.,	17 11	110 35	.17	NE	6	o.
Zafiro, str.,	15 36	119 54	.04	NE	3	c.
Chingtu, str.,	15 24	119 13	29.97	NE	4	op.
Phra Nang, str.,	14 32	109 49	30.19	NNE	5	k.
Catherine Apcar, str.,	14 27	113 35	.03	N	9	orq.
Phra Chom Klao, str.,	11 42	109 53	...	N/E	8	ou.
Framnes, str.,	9 30	107 4	...	NNW	6	orq.
Tailee, str.,	5 54	106 19	.00	NE	4	or.
Selkirk, sh.,	5 5	132 53	...	WSW	5	...
John R. Kelly, sh.,	4 4	128 8	...	S	2	o.
Chunshan, str.,	2 22	104 53	29.96	W	4	c.
Daniel Barnes, sh.,	1 52	123 53	...	NW	2	...
November 6th.						
Sagami Maru, str.,	37 38	122 20	30.34	SW	2	c.
John Baizley, bk.,	37 6	123 22	.44	WSW	2	k.
Ching Ping, str.,	35 24	122 47	.52	WSW	2	k.
Tacoma, str.,	33 58	130 56	.31	SE	3	c.
Hohenzollern, str.,	32 15	129 4	.39	NW	3	o.
Malacca, str.,	31 16	121 49	.50	N	4	k.
Taiyuan, str.,	31 ...	125 ...	.42	N/W	4	c.
Benvenue, str.,	28 16	121 45	.39	NNE	6	k.
Meefoo, str.,	28 12	121 58	.43	NNW	5	o.
Lyeemoon, str.,	27 15	121 12	.40	NE/N	6	c.
Rohilla, str.,	23 37	117 34	.27	NE	5	o.
Verona, str.,	23 19	117 30	.29	NNE	5	b.
Lyderhorn, str.,	22 34	116 0	.29	NNE	9	...
Iser, str.,	22 30	115 49	.27	NNE	5	k.
Ask, str.,	21 50	113 10	...	N	5	...
Activ, str.,	20 50	111 30	.34	N	5	c.
Guthrie, str.,	20 34	115 17	...	NNE	8	orq.
Torrisdale, bk,	20 5	126 38	29.98	NE N	9	k.
I.M.C.C. Likin,	20 4	110 20	30.27	NE	3	c.
Catherine Apcar, str.,	15 58	115 15	.03	NE	8	...
Memnon, str.,	15 51	116 12	.04	NE	7	eq.
Devawongse, str.,	12 55	109 38	.02	NNE	5	o.
Phra Chom Klao, str.,	11 50	110 24	.01	NNE	7	pq.
Framnes, str.,	11 21	108 58	29.89	N	7	o.
Phra Nang, str.,	10 22	108 4	.91	N	2	k.
Machew, str.,	8 33	104 29	30.03	NNE	var.	k.
Selkirk, sh.,	8 21	132 53	...	var.	2	or.
John R. Kelly, sh.,	4 2	132 2	...	SW	5	o.
Daniel Barnes, sh.,	2 25	124 33	...	NW ?	3	...
John R. Kelly, sh.,	1 18	104 20	29.96	W	4	o.
November 7th.						
John Baizley, bk.,	38° 41′	121° 3′	30.19 ins.	SW	4	k.
Sagami Maru, str.,	37 29	126 36	.20	W	3	c.
Marie Berg, bk.,	37 22	122 47	...	SW/W	5	...
Tacoma, str.,	34 40	135 11	.28	NE	2	m.
Java, str.,	33 47	135 10	.27	NNW	3	k.
Ching Ping, str.,	31 58	122 47	.40	...	0	k.
Benvenue, str.,	31 10	125 38	.32	NE	3	o.
Pingsuey, str.,	29 48	122 34	.37	NE	3	b.
Sabine Rickmers, str.,	29 19	122 35	.32	E	2	c.
Hohenzollern, str.,	28 49	124 20	.29	NE	4	o.
Taiyuan, str.,	28 ...	122 ...	.26	N E	6	c.
Shanghai, str.,	27 35	121 26	.23	NNE	4	k.
Rohilla, str.,	25 38	120 12	.20	NNE	7	o.
Verona, str.,	25 23	120 12	.19	N	7	opq.
Meefoo, str.,	25 5	119 36	.20	NNE	6	o.
Gaelic, str.,	24 3	118 17	.18	NE	4	c.
Lyeemoon, str.,	23 29	117 45	.16	NE	5	o.
Bygdo, str.,	22 20	115 30	.14	N	2	o.
Mascotte, str.,	21 51	113 31	.18	NNW	5	b.
Torrisdale, bk.,	21 7	123 17	.02	NE/N	9	op.
Cosmopolit, str.,	20 29	111 17	.12	NE	6	k.
Ask, str.,	20 15	110 30	...	NE	3	...
I.M.C.C. Likin,	20 4	110 20	.16	NE	3	c.
Catherine Apcar, str.,	19 11	114 43	.08	NE	6	...
Mongkut, str.,	17 55	108 25	...	NE	3	c.
Phra Chom Klao, str.,	12 14	110 7	29.88	N	7	pq.
Memnon, str.,	12 13	117 29	.94	var.	1	orq.
Framnes, str.,	11 47	109 13	.90	NNE	8	orq.
Sishan, str.,	11 16	108 57	.93	N	6	or.
Machew, str.,	9 57	107 27	30.01	N	var.	g.
Devawongse, str.,	9 7	107 20	29.95	WNW	3	o.
Selkirk, sh.,	8 53	132 40	...	WNW	2	...
Phra Nang, str.,	8 31	104 32	.92	NE	3	k.
Chingtu, str.,	7 10	121 52	.90	S	2	c.
John R. Kelly, sh.,	5 57	134 24	...	S	6	o.
Agamemnon, str.,	3 8	105 28	.94	NNW	...	k.
Daniel Barnes, sh.,	2 34	125 33	...	NW	1	...
November 8th.						
John Baizley, bk.,	40 35	121 59	29.99	SW	...	c.
Marie Berg, bk.,	35 51	123 34	...	WSW	2	c.
Java, str.,	35 16	139 44	30.12	N	2	k.
Benvenue, str.,	33 46	130 4	.19	NNE	1	k.
Tacoma, str.,	33 39	136 31	.14	NE	4	b.
Rohilla, str.,	29 13	122 25	.10	var.	2	o.
Ching Ping, str.,	28 40	122 12	.14	...	0	...
Verona, str.,	28 7	123 34	.08	E/N	3	c.
Nanyang, str.,	27 40	121 29	.09	NW	2	og.
Pingsuey, str.,	26 8	119 39	.05	NE	2	c.
Sabine Rickmers, str.,	26 3	120 21	.07	N	5	o.
Hohenzollern, str.,	25 13	119 54	.04	ENE	3	o.
Gaelic, str,	24 45	119 4	.03	NE N	2	c.
Bygdo, str.,	24 10	118 30	.03	NE	3	o.
Taiyuan, str.,	24 ...	118 ...	.04	NW	4	c.
Torrisdale, bk.,	22 0	119 56	29.96	NE	5	...
I.M.C.C. Likin,	20 4	110 20	30.05	NNE	2	c.
Kutsang, str.,	19 14	112 6	.13	NE E	4	c.
Choysang, str.,	18 21	121 59	.14	W	1	og.
Mongkut, str.,	13 27	109 30	...	NW	6	og.
Phra Chom Klao, str.,	12 56	110 0	29.94	NNW	7	pq.
Framnes, str.,	12 39	109 27	.89	NW	9	orq.
Machew, str.,	12 38	109 28	.97	N	7	oq.
Sishan, str.,	12 10	109 22	.90	NNW	6	o.
Phra Nang, str.,	11 16	101 55	.95	NW/N	2	k.
Selkirk, sh.,	10 0	132 59	.87	NW	5	...
John R. Kelly, sh.,	9 19	134 24	...	ENE	8	...
Memnon, str.,	9 6	117 1	.87	SSW	7	erq.
Agamemnon, str.,	6 9	107 17	...	NW	...	k.
Devawongse, str.,	5 11	105 27	.96	W	4	o.
Macduff, str.,	4 23	106 33	.91	NNW	3	o.
Zweena, str.,	3 47	105 50	.88	WNW	4	k.
Wingsang, str.,	3 15	105 36	30.00	NW	3	c.
Daniel Barnes, sh.,	3 0	127 20	...	S	4	...
November 9th.						
Sagami Maru, str.,	35 48	125 45	30.05	SW	2	c.
Tacoma, str.,	35 25	139 39	.03	NE	3	c.
Marie Berg, bk.,	35 12	123 24	...	W	1	k.
Ancona, str.,	35 6	139 39	.04	N	2	k.
Kachidate Maru, str.,	30 43	127 27	.10	SE	2	cfl.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	For.	Weather.
November 9th.						
			ins.		0-12	
Verona, str.,	30° 16′	127° 35′	30.08	ESE	2	o.
Gaelic, str.,	28 8	123 45	.08	NE N	4	op.
Bygdo, str.,	26 30	120 40	.06	NNE	4	or.
Ching Ping, str.,	25 26	120 10	.06	NE N	4	or.
Choysang, str.,	24 57	119 29	.07	NNE	4	og.
Nanyang, str.,	24 8	118 32	.01	NNE	4	o.
Shanghai, str.,	24 5	118 11	29.98	ENE	4	k.
Guthrie, str.,	23 24	117 22	...	ENE	5	...
Torrisdale, bk.,	22 21	116 31	.93	NE	6	cp.
Hohenzollern, str.,	22 21	114 54	...	NE	3	k.
Hongkong, str.,	20 35	111 20	...	NE	4	...
Kong Beng, str.,	20 5	115 20	.99	NE	5	o.
I.M.C.C. Likin,	20 4	110 20	30.01	NE	1	c.
Kutsang, str.,	15 5	110 13	.02	N	5	c.
Machew, str.,	14 20	110 12	29.97	N	8	o.
Sishan, str.,	14 6	110 1	.89	NW N	6	o.
Phra Chom Klao, str.,	13 59	110 14	.83	NW	5	pq.
Framnes, str.,	13 57	109 48	.88	NNW	8	o.
Selkirk, sh.,	11 43	133 32	.62	W	12	orq.
Mongkut, str.,	9 25	107 51	...	N	1	c.
John R. Kelly, sh.,	9 21	135 35	...	W	10	...
Agamemnon, str.,	8 33	109 13	.89	...	0	k.
Memnon, str.,	7 51	116 44	.85	SW	5	orq.
Macduff, str.,	7 34	108 25	.87	NNW	4	oq.
Zweena, str.,	7 6	107 49	.88	NW	4	p.
Wingsang, str.,	6 4	108 5	...	W	3	c.
Pakling, str.,	4 21	106 20	.90	NNW	4	k.
Polyphemus, str.,	3 32	105 30	...	N	2	q.
Daniel Barnes, sh.,	2 30	129 40	...	SW/S	6	...
St. Frances, sh.,	0 13	119 24	...	var.	5	k.
November 10th.						
Orient, bk.,	39 39	121 8	30.27	S/W	3	c.
Hainan, str.,	38 49	131 24	.17	NE	4	k.
Brunhilde, str.,	37 54	121 55	...	SE	2	k.
Victoria, str.,	35 51	122 18	...	NE	3	c.
Tacoma, str.,	35 25	139 39	.00	var.	2	c.
Ancona, str.,	34 21	135 3	.10	N	1	k.
Oanfa, str.,	33 25	135 52	.04	WSW	4	b.
Marie Berg, bk.,	33 9	123 58	...	ENE	1	k.
Sagami Maru, str.,	33 36	128 33	.17	NNW	4	c.
Gaelic, str.,	31 41	128 2	.19	NE	5	c.
Bygdo, str.,	29 20	122 10	.18	N	2	k.
Kachidate Maru, str.,	28 10	124 1	.18	NE	4	f.
Nanchang, str.,	25 33	119 38	.05	NE	6	o.
Guthrie, str.,	25 28	120 5	...	NE	6	...
Taisang, str.,	24 1	117 58	...	NE	6	c.
Ching Ping, str.,	23 2	117 2	.08	NE	5	o.
Sungkiang, str.,	22 31	114 50	.05	NE	4	c.
Nanyang, str.,	22 13	114 18	.05	NE	3	o.
Activ, str.,	21 40	113 35	.03	NE	3	c.
Ask, str.,	20 20	111 10	...	NE	5	...
I.M.C.C. Likin,	20 4	110 20	.02	NE	4	c.
Michael Jebsen, str.,	19 54	115 27	29.93	NE	7	q.
Machew, str.,	16 31	110 28	.95	N	8	orq.
Kong Beng, str.,	16 26	113 37	.88	NE	5	c.
Sishan, str.,	15 53	110 17	.85	N W	6	or.
Phra Chom Klao, str.,	15 25	110 37	.85	N	6	pq.
Framnes, str.,	13 40	109 40	.86	NNW	10	orq.
Selkirk, sh.,	11 37	134 1	.57	sw/w	10-11	...
Agamemnon, str.,	10 45	111 5	.87	wsw	gale	...
Kutsang, str.,	10 24	109 3	.97	W	4	c.
Macduff, str.,	10 5	110 3	.85	W	2	k.
Zweena, str.,	9 54	109 30	...	NW	4	...
Loosok, str.,	9 49	102 54	.97	NE	3	k.
John R. Kelly, sh.,	9 40	136 30	...	WSW	9	...
Wingsang, str.,	8 50	110 3	.95	SW	2	c.
Pakling, str.,	7 33	109 11	.99	NW	5	k.
Polyphemus, str.,	6 53	107 47	30.04	N	2	k.
Glenogle, str.,	4 22	106 10	...	W	2	c.
St. Frances, sh.,	1 54	120 28	...	SW	2	...
Daniel Barnes, sh.,	1 40	132 53	...	SW	2	...
November 11th.						
Orient, bk.,	38 46	120 57	30.16	SE E	5	c.
Tacoma, str.,	36 47	144 5	.18	N E	3	op.
Brunhilde, str.,	35 12	122 40	...	S	3	k.
Hainan, str,	34 22	130 50	.27	NE	3	k.
Verona, str.,	33 50	132 15	.20	NE	3	b.
Gaelic, str.,	32 44	129 50	.18	NNE	3	c.

Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	For.	Weather.
November 11th.						
			ins.		0-12	
Bygdo, str.,	32° 31′	122° 42′	30.22	NE	4	k.
Victoria, str.,	31 58	123 4	...	E	4	c.
Marie Berg, bk.,	30 41	123 31	...	NE	3	k.
Guthrie, str.,	28 16	121 15	.26	NNE	6	k.
Taisang, str.,	26 2	119 55	.20	NNE	6	c.
Kachidate Maru, str.,	25 42	120 32	.15	NE	5	o.
Sungkiang, str.,	23 53	117 43	.07	NE	6	c.
Pingsuey, str.,	23 28	117 41	.08	NE	6	c.
Lyderhorn, str.,	23 5	116 45	.06	NE	6	...
Ask, str.,	22 0	113 40	.00	NE	3	...
I.M.C.C. Likin,	20 4	110 20	.00	ENE	3	c.
Machew, str.,	18 27	111 17	.01	NE N	8	o.
Michael Jebsen, str.,	18 19	116 43	29.85	NE E	9	q.
Sishan, str.,	17 35	110 12	.92	NNE	7	q.
Phra Chom Klao, str.,	17 23	110 22	.89	N E	6	pq.
Framnes, str.,	12 53	109 23	.90	NW	...	or.
Agamemnon, str.,	12 48	113 14	.70	WNW	9?	...
Kong Beng, str.,	12 34	111 2	.80	NW	5	o.
Zweena, str.,	12 22	110 14	...	NW	8	...
Macduff, str.,	12 16	111 45	.77	NNW	5	...
John R. Kelly, sh.,	12 12	136 31	...	SW	8	...
Selkirk, sh.,	11 40	134 17	.77	SW W	9?	...
Wingsang, str.,	11 24	112 10	.83	WSW	5	o.
Holstein, str.,	10 54	108 20	.96	E	2	k.
Pakling, str.,	10 32	112 15	.82	WNW	5	cq.
Polyphemus, str.,	9 50	110 3	30.02	WSW	4	q.
Loosok, str.,	8 57	106 20	29.97	NE	2	k.
Glenogle, str.,	8 5	108 24	.97	W	2	k.
Albingia, str.,	6 33	108 20	30.05	S	1	b.
St. Frances, sh.,	2 37	121 32	...	E	1	k.
Brodick Castle, sh.,	1 54	164 15	...	NW	2	or.
Daniel Barnes, sh.,	1 48	133 31	...	...	0	...
Mongkut, str.,	1 27	104 40	.02	SSW	3	crq.
November 12th.						
Tacoma, str.,	39 25	149 20	30.25	NNW	4	c.
Osaka, bk.,	38 26	121 22	...	NNE	2	o.
Orient, bk.,	37 5	122 48	.32	NNW	3	c.
Bygdo, str.,	36 11	122 27	.30	N	4	o.
Verona, str.,	34 40	135 11	.11	...	0	c.
Gaelic, str.,	33 43	132 14	.13	E	1	c.
Brunhilde, str.,	32 12	122 51	...	W	1	k.
Benvenue, str.,	32 7	126 47	.20	N	4	k.
Taisang, str.,	28 57	122 6	.20	N E	5	b.
Marie Berg, bk.,	28 32	122 25	...	NNE	6	k.
Nanchang, str.,	26 44	120 14	.15	NE	6	...
Lyderhorn, str.,	24 20	118 37	.08	NE	6	o.
Kachidate Maru, str.,	23 5	117 12	.06	NE	5	f.
Machew, str.,	20 11	112 33	.01	NE	9	o.
I.M.C.C. Likin,	20 4	110 20	.04	NNE	2	c.
Sishan, str.,	18 49	111 5	29.97	NE N	6	o.
Phra Chom Klao, str.,	18 31	111 12	30.02	N E	6	pq.
Michael Jebsen, str.,	18 20	117 19	29.86	NE E	10-11	q.
John R. Kelly, sh.,	15 5	136 9	...	NE	...	og.
Agamemnon, str.,	13 43	114 2	.55	WNW	8-9	oq.
Zweena, str.,	13 30	111 9	...	NW	8?	orq.
Selkirk, sh.,	13 13	133 17	.87	NW	4	...
Holstein, str.,	13 10	109 35	.99	NW	6	...
Framnes, str.,	13 5	109 36	.90	NW	8	orq.
Pakling, str.,	13 5	113 19	.76?	W	8	orq.
Macduff, str.,	13 4	111 29	.81?	NNW	9	o.
Wingsang, str.,	12 36	113 29	.80	W N	6	o.
Polyphemus, str.,	12 18	111 52	...	NW	6	q.
Loosok, str.,	11 33	109 10	29 97	NE	1	k.
Glenogle, str.,	10 43	110 35	.86	NNW	...	k.
Albingia, str.,	9 7	110 47	30.02	NW	3	b.
Kong Beng, str.,	8 11	109 12	.00	var.	2	k.
Devawongse, str.,	3 54	104 15	29.94	var.	2	o.
Erato, str.,	3 43	105 46	...	NW	2	o.
Brodick Castle, sh.,	3 14	164 44	...	NW	2	c.
St. Frances, sh.,	2 54	121 40	...	var.	1	var.
Kutsang, str.,	2 49	105 18	30.02	NW/W	2	c.
Daniel Barnes, sh.,	1 25	133 59	...	N	2	...
November 13th.						
Tacoma, str.,	42 6	154 12	30.08	SE	5	c.
Bygdo, str.,	37 50	121 10	.46	N	4	o.
Osaka, bk.,	35 45	123 19	...	NNW	6	o.
Sagami Maru, str.,	35 5	129 7	.10	NW	4	b.
Verona, str.,	34 40	135 11	.00	N	2	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
November 13th.						
Gaelic, str.,	34° 40′	135° 11′	29.98	NNW	2	o.
Oanfa, str.,	34 25	134 20	.92	WNW	4	c.
Ancona, str.,	33 53	131 12	30.05	NW	3	k.
Sunda, str.,	30 32	122 28	...	N	5	b.
Brunhilde, str.,	29 10	122 31	...	NNW	7	k.
Benvenue, str.,	28 54	123 13	.35	N	7	o.
Nanchang, str.,	28 23	121 46	.23	N	6	...
Marie Berg, bk.,	26 9	120 10	...	NNW	7	o.
Lyderhorn, str.,	25 36	120 0	.21	NE	6	...
Peiyang, str.,	22 54	116 32	.20	NE	6	c.
Ask, str.,	21 40	113 20	.11	NNE	5	cp.
Sungkiang, str.,	20 53	118 48	.09	NE	6	c.
Sishan, str.,	20 12	112 18	.05	NE	9	o.
I.M.C.C. Likin,	20 4	110 20	.12	NNE	6	c.
Phra Chom Klao, str.,	19 37	112 10	.04	NE	6	pq.
Shantung, str.,	19 30	112 15	.08	NE	6	o.
Shanghai, str.,	19 8	112 21	.03	NE	6	o.
Michael Jebsen, str.,	17 45?	118 10?	29.93	NE	10	q.
John R. Kelly, sh.,	16 53	135 27	...	NE	8	o.
Zafiro, str.,	16 25	118 0	...	NE	6	c.
Yuensang, str.,	16 24	118 47	.89	ENE	4	c.
Zweena, str.,	15 12	112 20	...	W/N	9?	...
Agamemnon, str.,	15 10	114 27	.58	NE	4	...
Selkirk, sh.,	15 2	134 2	...	N/W	5	q.
Holstein, str.,	14 56	110 6	.98	NNW	8	oq.
Pakling, str.,	14 55	113 32	.71	NW	6	m.
Macduff, str.,	14 40	110 42	.91	NNW	10	o.
Framnes, str.,	14 20	110 3	.94	NNW	10	orq.
Polyphemus, str.,	14 16	112 36	.89	NW	7	q.
Wingsang, str.,	13 47	114 25	.71	W/S	6	od.
Loosok, str.,	13 21	110 20	.97	NNW	6	o.
Glenogle, str.,	12 55	112 2	.88	WNW	...	o.
Albingia, str.,	11 33	112 44	.93	NW/W	5	g.
Jenny, sch.,	8 41	136 37	...	N	4	k.
Devawongse, str.,	7 51	103 10	.96	var.	1	k.
Erato, str.,	6 25	107 54	...	NNE	2	k.
Brodick Castle, sh.,	4 33	164 22	...	NE/N	4	k.
Kong Beng, str.,	4 23	106 21	30.00	SSW	2	o.
Arratoon Apcar, str.,	3 31	105 45	...	var.	1	k.
St. Frances, sh.,	3 22	121 43	...	var.	1	var.
Daniel Barnes, sh.,	1 50	135 22	...	WSW	4	opq.
November 14th.						
Tacoma, str.,	44 7	159 18	29.74	SE	7	o.
Sagami Maru, str.,	37 3	130 6	30.17	NW	6	c.
Verona, str.,	34 46	139 17	29.67	NW	4	b.
Gaelic, str.,	34 38	139 5	.74	NW	9	c.
Hainan, str.,	34 4	130 20	30.31	NW	3	k.
Osaka, bk.,	32 36	124 ...	...	N/W	3	o.
Orient, bk.,	31 37	124 9	.40	N	2	c.
Nanchang, str.,	31 4	122 9	.40	NNW	5	o.
Lyderhorn, str.,	27 37	121 37	.50	NE	4	...
Brunhilde, str.,	26 13	120 37	...	NE	5	o.
Sunda, str.,	25 49	120 21	...	NE/N	5	o.
Benvenue, str.,	25 33	120 12	.47	NE	6	od.
Meefoo, str.,	24 28	118 33	.27	NNE	7	o.
Peiyang, str.,	24 24	118 32	.34	NE/N	6	c.
Phra Chom Klao, str.,	21 35	112 27	.27	NE	5	oq.
Sishan, str.,	21 26	113 30	.18	NE/E	9	or.
Namyong, str.,	20 50	114 38	.15	NE	7	o.
Pingsuey, str.,	20 35	115 45	.16	NE	8	o.
I.M.C.C. Likin,	20 4	110 20	.18	NNE	8	o.
Zafiro, str.,	20 ...	116 ...	.12	ENE	10	o.
Yuensang, str.,	19 25	115 46	.08	NE	9	oq.
Michael Jebsen, str.,	18 21	118 30?	.08	NE	11	...
John R. Kelly, sh.,	17 42	134 7	...	NE	8	orq.
Wingsang, str.,	16 49	115 51	29.99	ENE	8	cp.
Agamemnon, str.,	16 48	115 12	30.00	ENE	8?	q.
Pakling, str.,	16 43	113 52	...	NE	8	orq.
Sungkiang, str.,	16 35	118 38	29.99	ENE	7	c.
Zweena, str.,	16 30	113 40	...	ESE	9	or.
Holstein, str.,	16 6	110 28	.84	N	10	orq.
Selkirk, sh.,	16 4	132 43	30.02	NE/N	8	...
Macduff, str.,	15 56	110 22	29.91	N/E	11	o.
Glenogle, str.,	15 33	113 8	.78	SE/E	...	o.
Shantung, str.,	15 27	110 17	...	NE/E	6	orq.
Framnes, str.,	15 11	110 24	.83	NNW	10	orq.
Polyphemus, str.,	15 6	114 15	.92	SE	5	q.
Albingia, str.,	14 32	112 53	.83	SE/S	4	f.
November 14th.						
Loosok, str.,	14° 20′	110° 27′	29.80	NNW	7	opq.
Devawongse, str.,	11 37	101 23	.95	N	5	k.
Erato, str.,	8 45	109 43	...	NNE	6	c.
Jenny, sch.,	8 27	135 34	...	NW	4	k.
Arratoon Apcar, str.,	6 26	107 52	.92	NE	1	k.
Brodick Castle, sh.,	5 30	162 52	...	N	...	orq.
St. Frances, sh.,	3 26	122 12	...	NW	4	var.
Daniel Barnes, sh.,	3 17	136 27	...	WNW	3	opq.
Pectan, str.,	2 41	101 20	30.00	SW	3	c.
November 15th.						
Tacoma, str.,	43 47	160 46	28.55	SW/S	12	...
Sagami Maru, str.,	39 0	127 34	30.15	NW	4	c.
Gaelic, str.,	35 25	139 38	.22	NW/N	2	c.
Nanchang, str.,	34 45	122 45	.30	W	3	o.
Hainan, str.,	32 37	126 9	.42	NW	3	k.
Osaka, bk.,	32 0	124 2	...	SSW	1	o.
Taisang, str.,	31 21	121 38	.33	SSW	4	c.
Ancona, str.,	30 44	126 56	.41	...	0	c.
Orient, bk.,	30 35	123 53	.36	SSE	1	c.
Lyderhorn, str.,	29 53	123 52	.46	ENE	1	...
Peiyang, str.,	26 49	120 18	.34	NE/N	5	o.
Meefoo, str.,	25 46	119 42	.31	N	6	o.
Brunhilde, str.,	23 49	118 13	...	N	3	c.
Benvenue, str.,	22 48	116 19	.27	NE	4	o.
Sunda, str.,	22 39	115 47	...	NE	3	o.
Yuensang, str.,	21 50	113 51	.23	NE	5	o.
China, str.,	21 24	113 28	.23	NE	6	o.
Ask, str.,	21 10	109 5	.26	NNE	3	...
I.M.C.C. Likin,	20 13	110 4	.18	NNE	8	c.
Wingsang, str.,	19 27	114 53	.14	ENE	6	o.
Pakling, str.,	18 59	114 27	...	NNE	7	o.
Catherine Apcar, str.,	18 56	111 42	.10	ENE	6	or.
Agamemnon, str.,	18 53	114 16	.10	ENE	8?	q.
John R. Kelly, sh.,	18 27	132 30	...	NE	6	...
Polyphemus, str.,	18 23	114 30	.08	ENE	6	or.
Pingsuey, str.,	18 17	118 22	.09	NE	6	c.
Glenogle, str.,	18 13	113 58	.04	ENE	...	o.
Zweena, str.,	17 59	114 2	...	ESE	7?	...
Holstein, str.,	17 49	110 39	29.96?	E?	7?	...
Albingia, str.,	17 38	113 2	30.08	E	8	oq.
Michael Jebsen, str.,	17 26	118 54	.08	NE	6	k.
Selkirk, sh.,	16 12	132 2	.02	NE	8?	...
Framnes, str.,	13 20	109 49	29.93	W	4	...
Loosok, str.,	12 53	110 19	.97	W	3	o.
Macduff, str.,	12 29	109 31	.91	var.	...	...
Shantung, str.,	11 23	109 23	30.00	SSW	4	k.
Erato, str.,	11 7	111 27	...	E	2	k.
Shanghai, str.,	8 59	108 55	29.94	SSW	3	k.
Arratoon Apcar, str.,	8 45	109 35	.98	NE	...	k.
Jenny, sch.,	7 54	134 59	...	NW	3	...
Brodick Castle, sh.,	6 41	162 47	...	NE	4	o.
Daniel Barnes, sh.,	4 53	137 44	...	WNW	2	k.
St. Frances, sh.,	4 8	122 40	...	NW	4	var.
Tailee, str.,	2 24	106 40	30.01	NE	4	orq.
Pectan, str.,	1 16	103 51	29.99	NNE	2	p.
November 16th.						
Tacoma, str.,	43 40	161 8	29.28	NNW	10	...
Sagami Maru, str.,	39 51	128 31	30.15	WSW	4	b.
Nanchang, str.,	37 56	121 10	.16	WSW	2	k.
Gaelic, str.,	35 25	139 38	.33	NNE	1	bm.
Oanfa, str.,	32 41	127 8	.33	W/S	3	c.
Malacca, str.,	32 10	126 27	.37	S	2	c.
Lyderhorn, str.,	32 0	127 41	.34	ENE	1	...
Osaka, bk.,	31 16	122 40	...	S/E	1	o.
Hainan, str.,	29 47	123 9	.30	SSW	3	k.
Orient, bk.,	29 40	122 48	.27	S	3	c.
Meefoo, str.,	28 41	121 57	.26	NNW	2	k.
Taisang, str.,	27 37	121 26	.29	NNE	4	c.
Ancona, str.,	27 25	122 32	.27	E	4	k.
Sabine Rickmers, str.,	22 34	116 0	.22	NE	5	...
Glenogle, str.,	21 52	114 7	.18	ENE	...	c.
Zweena, str.,	21 11	113 56	...	NE	5	k.
I.M.C.C. Likin,	20 13	110 4	.12	NNE	6	od.
Albingia, str.,	20 13	113 36	.14	E/N	5	b.
Holstein, str.,	20 10	111 30	.08	NE	6	orq.
John R. Kelly, sh.,	19 46	129 34	...	NE	5	orq.
Amy Turner, bk.,	18 23	178 6	...	NE	6	k.
China, str.,	17 59	110 52	29.99	E/S	5	o.

NOVEMBER, 1895.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
November 16th						
Seikirk, sh.,	17° 51′	130° 34′	30.02	NE	6	q.
Loosok, str.,	16 25	111 34	.04	ESE	3	...
Framnes, str.,	15 18	108 47	.02	var.	2	...
Catherine Apcar, str.,	11 46	109 40	29.98	SSE	4	k.
Erato, str.,	14 34	112 50	...	NE N	2	k.
Pingsuey, str.,	11 34	120 58	30.05	ESE	2	b.
Namyong, str.,	14 27	109 5	.03	SSE	4	...
Michael Jebsen, str.,	14 12	119 52	.02	E S	5	k.
Arratoon Apcar, str.,	11 29	111 51	.00	NE	...	k.
Shantung str.,	9 19	107 23	.04	var.	1	k.
Brodick Castle, sh.,	7 45	161 39	...	NE	4	c.
Daniel Barnes, sh.,	6 3	138 2	...	WNW	2	...
Shanghai, str.,	4 49	106 3	29.95	NE	2	k.
St. Frances, sh.,	4 45	122 54	...	WNW	4	cp.
Kong Beng, str.,	3 36	104 11	30.04	NE	3	k.
Tailee, str.,	3 20	109 7	29.99	N	2	or.
Pectan, str.,	1 28	104 32	30.02	NE	3	c.
November 17th.						
Tacoma, str.,	43 57	167 17	29.58	NW/W	8	cq.
Sagami Maru, str.,	42 56	131 57	30.11	NNW	3	c.
Gaelic, str.,	37 46	145 13	.17	W	2	or.
Java, str.,	34 36	139 2	.24	W	5	k.
Oanfa, str.,	31 5	122 16	.28	SSW	3	b.
Osaka, bk.,	30 59	123 44	...	...	0	k.
Orient bk.,	29 17	122 31	.23	...	0	k.
Mirzapore, str.,	26 50	121 6	.25	NE	4	c.
Hainan, str.,	26 28	120 45	.25	N	3	m.
Taisang, str.,	24 18	118 34	.17	NNE	4	c.
Ancona, str.,	24 6	118 25	.17	NW	4	k.
Choysang, str.,	22 23	117 10	.15	NNE	2	b.
John R. Kelly, sh.,	21 36	127 8	...	NE	6	k.
I.M.C.C. Likin,	20 13	110 4	.15	NE	5	c.
Holstein, str.,	19 54	112 6	.16	E	6	k.
Selkirk, sh.,	19 49	126 28	.02	NNE	6	...
Zafiro, str.,	19 40	116 ...	.18	NNE	5	c.
Loosok, str.,	19 34	112 39	.08	ENE	4	k.
Erato, str.,	18 14	113 12	...	NE	6	c.
Amy Turner, bk.,	18 13	174 20	...	NE	6	...
Arratoon Apcar, str.,	14 28	113 36	.00	NE N	4	...
China, str.,	13 54	109 34	29.99	SE E	3	o.
Brodick Castle, sh.,	9 53	160 39	...	NE	4	k.
Namyong, str.,	9 45	108 54	.99	NE	4	k.
Catherine Apcar, str.,	9 15	109 0	.90	E	2	k.
Kong Beng, str.,	7 31	103 0	30.04	NE	3	k.
Daniel Barnes, sh.,	6 5	138 2	...	W S	2	k.
St. Frances, sh.,	5 54	123 34	...	WNW	4	var.
Tailee, str.,	5 9	113 12	29.86	E	3	k.
Pectan, str.,	4 35	106 9	30.00	NE	4	b.
Glenfarg, str.,	3 25	105 42	.01	NNE	3	b.
Shantung, str.,	3 16	105 2	29.99	E	2	k.
Azamor, str.,	1 19	104 21	.98	NE	1	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
November 18th.						
Tacoma, str.,	44° 33′	173° 54′	29.99	NNW	5	c.
Gaelic, str.,	40 48	151 14	30.07	NW	5	c.
Java, str.,	34 40	135 11	.28	NE	1	o.
Osaka, bk.,	28 53	122 35	...	NNE	6	k.
Orient, bk.,	27 19	121 14	.26	N	8?	o.
Choysang, str.,	25 20	119 52	.18	NNE	6	c.
Hainan, str.,	23 32	117 47	.21	N	6	m.
Mirzapore, str.,	23 15	117 24	.21	N	5	c.
Erato, str.,	21 57	113 52	...	NE	6	k.
Selkirk, sh.,	21 46	121 45	.07	NNE	6	...
John R. Kelly, sh.,	21 38	120 52	...	...	5	k.
I.M.C.C. Likin,	20 13	110 4	.18	NE	3	c.
Osaka, bk.,	18 5	170 8	...	NE	6	...
Arratoon Apcar, str.,	17 52	113 18	.05	NE	6	c.
Zafiro, str.,	16 49	118 ...	.08	NE	5	c.
Framnes, str.,	16 37	108 38	.07	E	4	o.
Kong Beng, str.,	11 29	101 28	.03	NE	3	k.
Macduff, str.,	11 24	109 9	29.93	NNE	4	cpq.
Brodick Castle, sh.,	11 23	158 33	...	E	6	k.
China, str.,	10 20	107 24	.94	NE	2	k.
Tailee, str.,	8 14	106 23	.96	NE	4	c.
Daniel Barnes, sh.,	7 45	137 14	...	WSW	1	...
Pectan, str.,	7 19	108 2	.99	NE	5	o.
Glenfarg, str.,	6 44	107 50	30.00	NE/N	5	cm.
Namyong, str.,	6 -7	106 30	29.99	NE	3	k.
St. Frances, sh.,	6 6	123 2	...	NNE	4	var.
Catherine Apcar, str.,	5 29	107 9	...	NE	2	k.
Azamor, str.,	4 0	106 14	.99	NE	3	k.
November 19th.						
Tacoma, str.,	46 25	179 38	29.55	S	5	or.
Gaelic, str.,	43 35	158 10	30.08	NW	6	cq.
Choysang, str.,	27 58	121 21	.30	NNE	5	c.
Osaka, bk.,	25 49	119 48	...	NNE	8	o.
Sabine Rickmers, str.,	22 46	116 18	.20	NE	6	b.
John R. Kelly, sh.,	22 5	118 25	...	NE	8	...
Selkirk, sh.,	21 59	117 52	...	NNE	6	q.
Activ, str.,	21 35	113 30	.21	ENE	3	c.
Arratoon Apcar, str.,	21 0	113 40	.18	NE	6	k.
Ask, str.,	20 35	111 25	.23	NE	4	k.
I.M.C.C. Likin,	20 13	110 4	.23	E	4	c.
Framnes, str.,	18 29	110 30	.15	NNE	6	...
Osaka, bk.,	18 15	166 10	...	S	4	oq.
Macduff, str.,	14 41	110 20	.05?	NE N	4	k.
Brodick Castle, sh.,	13 42	155 38	...	ENE	6	orq.
Tailee, str.,	11 50	118 38	29.96	NE	4	k.
Pectan, str.,	9 32	109 42	30.01	NE	6	c.
Glenfarg, str.,	9 25	109 41	.01	NE N	7	c.
Daniel Barnes, sh.,	7 56	137 2	...	WNW	2	...
Azamor, str.,	6 50	108 0	29.95	NE	4	k.
St. Frances, sh.,	5 54	122 23	...	NE	4	var.
Catherine Apcar, str.,	2 39	104 48	...	NE	2	k.
Namyong, str.,	2 18	104 58	.97	NE	3	k.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JANUARY, 1895.

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,...	30.023	30.016	30.015	30.016	30.027	30.022	30.034	30.044	30.064	30.050	30.039	30.004	29.960	29.924	29.919	29.930	29.936	29.945	29.962	29.975	29.972	29.977	29.963	29.952	29.990
„ 2,...	29.942	29.933	29.933	29.931	29.940	29.950	29.973	29.989	.002	.006	29.990	29.965	.932	.904	.898	.909	.917	.936	.946	.960	.964	.964	.957	.960	.950
„ 3,...	.949	.937	.934	.940	.952	.962	30.002	30.027	.064	.047	30.034	30.012	.995	.984	.989	.996	30.003	30.036	30.061	30.081	30.094	30.099	30.112	30.119	30.018
„ 4,...	30.120	30.132	30.122	30.131	30.145	30.153	.180	.196	.209	.197	.174	.138	30.106	30.087	30.075	30.074	.091	.092	.098	.120	.144	.148	.148	.148	.135
„ 5,...	.156	.134	.118	.110	.107	.110	.136	.153	.166	.149	.135	.094	.054	.030	.014	.015	.025	.029	.038	.042	.047	.047	.037	.035	.083
„ 6,...	.020	.027	.020	.016	.033	.034	.037	.046	.055	.050	.038	.015	29.985	29.964	29.952	29.956	29.956	29.960	29.978	29.995	29.999	.007	29.994	29.992	.005
„ 7,...	29.988	29.983	29.971	29.966	29.970	29.972	29.979	.013	.038	.036	.026	29.991	.958	.938	.932	.934	.950	.964	.978	.999	.999	.005	.995	.995	29.982
„ 8,...	.988	.978	.959	.957	.961	.982	.998	.016	.022	.018	29.997	.934	.936	.911	.911	.905	.914	.919	.934	.940	.943	29.944	.946	.960	.958
„ 9,...	.956	.954	.949	.940	.939	.952	.965	29.995	.010	.012	30.000	.963	.929	.900	.896	.899	.906	.924	.938	.946	.955	.960	.961	.956	.950
„ 10,...	.946	.944	.940	.940	.934	.961	.982	30.001	.019	.010	.003	.977	.944	.930	.912	.910	.918	.922	.933	.940	.950	.954	.953	.951	.953
„ 11,...	.956	.961	.951	.955	.964	.982	.974	29.982	.011	.028	.013	.973	.934	.910	.902	.908	.921	.923	.938	.941	.952	.952	.956	.961	.956
„ 12,...	.956	.959	.940	.947	.952	.963	.988	30.015	.034	.036	.015	.986	.943	.913	.914	.918	.938	.941	.956	.963	.974	.971	.976	.976	.966
„ 13,...	.975	.975	.966	.958	.974	.979	.992	.014	.040	.041	.039	30.000	.963	.959	.950	.952	.967	.982	.988	.995	.996	30.013	.999	30.011	.989
„ 14,...	30.008	30.004	30.003	30.012	30.027	30.041	30.076	.100	.120	.113	.097	.070	30.052	30.043	30.034	30.036	30.050	30.055	30.078	30.087	30.091	.094	30.088	.083	30.061
„ 15,...	.089	.084	.074	.076	.077	.082	.096	.107	.124	.121	.108	.079	.043	.017	.006	.006	.011	.022	.034	.048	.048	.047	.033	.023	.061
„ 16,...	.011	.010	29.993	29.984	29.975	29.973	29.986	.001	.012	.009	29.993	29.959	29.930	29.906	29.899	29.916	29.923	29.938	29.951	29.979	29.987	29.992	29.992	29.993	29.971
„ 17,...	29.979	29.975	.975	.987	.990	30.011	30.037	.063	.083	.092	30.094	30.078	30.051	30.033	30.027	30.035	30.056	30.070	30.091	30.096	30.102	30.107	30.102	30.100	30.051
„ 18,...	30.107	30.109	30.113	30.110	30.106	.136	.164	.186	.209	.206	.187	.162	.134	.121	.112	.110	.131	.130	.137	.151	.168	.172	.167	.179	.146
„ 19,...	.193	.181	.142	.131	.142	.166	.176	.197	.221	.229	.193	.188	.153	.124	.107	.108	.112	.118	.135	.153	.150	.154	.152	.151	.157
„ 20,...	.146	.142	.130	.109	.131	.138	.142	.161	.177	.178	.155	.122	.097	.080	.065	.070	.084	.098	.113	.130	.142	.157	.167	.164	.129
„ 21,...	.162	.146	.134	.143	.145	.169	.187	.205	.213	.204	.194	.179	.156	.140	.127	.129	.148	.160	.186	.201	.207	.221	.228	.223	.175
„ 22,...	.220	.200	.195	.187	.185	.193	.204	.222	.233	.228	.210	.174	.136	.105	.092	.106	.111	.120	.139	.151	.157	.177	.184	.179	.171
„ 23,...	.169	.149	.129	.119	.111	.129	.136	.150	.170	.169	.162	.142	.116	.102	.077	.080	.097	.105	.121	.136	.146	.151	.150	.154	.132
„ 24,...	.152	.130	.106	.095	.086	.083	.106	.125	.138	.135	.116	.093	.067	.048	.039	.045	.052	.073	.089	.095	.103	.114	.133	.135	.098
„ 25,...	.135	.109	.113	.104	.104	.117	.121	.132	.146	.131	.113	.088	.056	.039	.024	.021	.032	.035	.045	.050	.048	.048	.047	.050	.079
„ 26,...	.050	.044	.023	.021	.022	.018	.024	.037	.045	.050	.029	.003	29.980	29.962	29.953	29.951	29.953	29.967	29.976	29.988	29.991	29.999	29.999	.006	.004
„ 27,...	.013	.017	.015	.010	.004	.017	.033	.055	.061	.052	.038	.020	.985	.974	.964	.971	.983	30.009	30.029	30.052	30.057	30.065	30.068	.084	.024
„ 28,...	.087	.089	.080	.081	.082	.098	.116	.113	.111	.125	.124	.096	30.068	30.044	30.036	30.040	30.041	.054	.065	.084	.082	.081	.089	.096	.083
„ 29,...	.109	.112	.116	.105	.127	.135	.158	.185	.204	.204	.200	.164	.136	.122	.116	.102	.114	.124	.145	.162	.171	.172	.167	.147	.146
„ 30,...	.147	.146	.132	.131	.118	.131	.137	.154	.166	.167	.155	.126	.075	.040	.025	.010	.015	.018	.027	.041	.036	.042	.033	.028	.087
„ 31,...	.017	.016	29.996	29.989	29.980	29.981	.009	.017	.026	.041	.042	29.993	29.957	29.933	29.920	29.928	29.949	29.962	29.988	.010	.023	.033	.029	.037	29.995
Means,.....	30.057	30.051	30.042	30.039	30.042	30.053	30.069	30.087	30.103	30.101	30.088	30.059	30.027	30.006	29.996	29.999	30.010	30.020	30.035	30.049	30.055	30.060	30.059	30.060	30.049

TABLE II.

TEMPERATURE FOR THE MONTH OF JANUARY, 1895.

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,	61.6	61.5	61.0	60.7	59.6	59.5	59.6	60.6	61.6	64.1	65.1	67.4	67.7	69.4	67.8	65.4	64.6	62.0	60.6	60.4	60.6	60.9	60.8	61.4	62.7	69.6	59.0
„ 2,	61.8	62.0	62.1	62.0	62.1	61.7	62.3	62.9	64.3	64.0	64.6	64.6	64.4	64.6	64.7	64.2	63.6	62.6	62.6	62.9	62.9	63.1	62.9	63.3	63.2	65.2	61.0
„ 3,	63.5	63.5	63.5	63.4	63.3	62.5	62.5	62.6	62.6	62.3	63.8	64.8	63.2	63.0	62.7	61.6	60.6	60.4	59.6	57.6	57.0	56.6	56.6	56.2	61.4	65.8	56.1
„ 4,	55.6	54.2	54.6	53.9	52.5	53.3	52.4	53.2	54.6	56.2	57.8	58.5	58.6	57.6	57.8	57.2	56.9	57.2	57.2	57.3	56.9	56.7	57.2	56.7	56.0	59.9	52.3
„ 5,	56.3	55.7	55.4	55.3	55.0	54.6	54.4	55.6	57.5	58.2	59.5	60.2	61.0	61.9	60.3	59.8	58.2	57.3	57.6	58.0	58.6	58.6	58.8	58.7	57.8	61.9	54.2
„ 6,	58.5	58.5	58.4	58.2	58.4	58.2	58.1	57.9	58.2	58.0	60.0	60.6	60.9	61.2	60.8	60.0	59.2	58.4	58.6	58.7	59.0	59.1	59.5	59.3	59.1	61.4	57.2
„ 7,	59.1	59.2	58.6	59.5	59.0	58.8	59.0	59.5	61.1	61.4	62.9	63.3	64.9	64.3	63.9	63.9	62.0	61.3	60.6	60.3	60.1	60.0	59.7	59.4	60.9	65.3	58.0
„ 8,	59.3	59.1	58.7	58.9	58.9	58.9	58.9	61.8	64.3	65.4	66.8	67.3	65.5	65.2	64.0	63.8	62.7	61.0	60.6	60.0	60.1	59.8	59.4	59.5	61.7	67.3	58.3
„ 9,	59.7	59.5	59.3	58.9	58.5	58.2	58.0	63.1	64.2	62.8	63.1	64.0	65.1	65.2	64.8	63.9	63.0	61.7	60.8	60.6	60.0	60.5	60.0	59.7	61.4	65.8	58.0
„ 10,	60.0	59.6	59.4	59.2	58.8	58.9	59.1	60.7	61.0	60.9	61.9	62.0	62.1	64.1	64.2	64.2	62.0	62.0	61.7	62.0	61.6	61.6	61.2	61.6	61.2	64.2	58.4
„ 11,	61.2	61.0	61.0	61.1	60.4	60.3	59.8	60.6	60.7	60.3	61.4	62.1	62.1	62.0	61.6	61.0	60.1	59.6	59.9	59.8	60.0	60.5	60.8	60.6	60.7	63.2	59.5
„ 12,	60.5	60.1	59.9	59.6	58.2	57.5	57.7	58.1	57.6	58.0	58.1	59.3	61.0	61.0	60.0	60.0	58.6	58.6	58.2	58.0	57.6	56.0	56.1	55.6	58.6	61.2	55.6
„ 13,	56.2	55.1	55.0	55.1	54.4	54.4	55.0	55.1	55.7	55.3	55.6	55.6	55.8	55.7	55.7	55.6	55.0	55.4	55.0	55.2	55.0	55.2	55.3	55.2	55.3	56.6	54.4
„ 14,	55.3	55.0	54.1	53.7	53.5	52.7	52.3	52.7	52.9	52.8	54.2	52.4	52.1	51.6	50.7	50.4	50.7	49.4	49.7	49.6	49.4	49.4	48.9	49.5	51.8	55.3	48.7
„ 15,	48.7	48.2	47.9	48.0	48.8	49.5	49.9	50.3	51.6	53.3	53.1	51.6	51.9	52.0	51.4	51.3	51.0	50.2	49.6	49.7	49.5	49.6	49.2	49.4	50.2	53.3	47.4
„ 16,	49.5	49.4	49.8	50.1	50.6	50.8	51.2	53.1	52.8	53.2	53.7	53.6	53.6	53.1	53.4	52.7	52.6	51.8	51.6	51.4	51.8	52.4	52.7	52.1	52.0	54.2	49.2
„ 17,	52.2	51.5	50.8	50.1	50.4	50.2	50.3	50.4	51.2	51.8	52.2	51.4	51.3	50.5	50.3	49.4	49.5	49.3	48.7	48.5	48.4	48.3	48.2	48.2	50.1	52.2	48.1
„ 18,	47.6	47.5	47.6	46.6	46.8	46.0	46.0	46.1	46.7	48.1	48.7	48.4	47.5	47.2	46.1	46.0	47.0	46.9	47.3	47.3	47.4	47.4	47.5	47.1	47.1	49.3	45.8
„ 19,	45.4	45.5	44.9	44.4	43.8	44.0	44.0	45.1	45.6	45.6	44.9	44.8	45.3	46.4	46.1	45.3	44.8	44.6	44.6	44.6	44.6	44.6	45.2	45.2	45.0	47.1	43.5
„ 20,	45.7	45.1	45.4	45.2	45.1	44.9	45.8	45.9	47.5	48.8	49.2	49.5	51.1	50.6	50.5	50.0	49.8	49.4	49.5	49.4	49.2	48.3	48.4	48.3	48.0	52.0	44.9
„ 21,	48.7	48.3	48.3	48.9	50.5	50.8	50.9	51.0	51.7	52.7	52.9	52.6	53.4	54.0	54.1	54.0	54.0	53.2	52.1	51.7	52.1	52.0	50.7	50.5	51.6	54.5	48.2
„ 22,	50.3	50.0	49.6	49.8	49.8	49.5	50.1	50.2	50.4	52.4	53.8	55.9	57.1	58.5	58.9	58.6	56.7	55.9	55.4	55.0	54.1	52.1	51.3	50.8	53.2	60.2	49.5
„ 23,	51.2	50.1	49.8	49.5	49.0	48.8	49.3	50.8	53.1	53.3	55.6	57.3	58.1	58.9	59.0	57.5	56.1	55.4	55.0	54.4	53.3	52.6	52.7	51.9	53.4	59.0	48.8
„ 24,	52.1	52.2	52.1	51.8	51.6	51.8	52.9	55.5	57.7	59.4	60.5	61.9	62.9	61.3	61.1	60.3	59.4	57.6	57.0	57.1	57.1	56.9	57.3	57.0	56.9	63.4	51.0
„ 25,	56.8	56.2	56.2	55.6	55.5	55.0	53.9	57.8	61.3	61.1	61.2	60.6	59.9	59.1	58.4	58.5	58.1	56.7	56.6	56.4	56.8	56.8	56.6	56.8	57.6	62.6	53.9
„ 26,	56.7	56.5	56.5	56.4	56.2	55.8	55.9	57.0	60.4	60.6	61.0	61.9	62.7	63.0	62.0	60.0	59.2	58.0	57.5	57.4	57.3	57.9	57.1	57.2	58.5	63.1	55.8
„ 27,	57.1	57.4	57.0	57.5	57.1	57.1	57.3	58.8	60.5	61.9	64.3	66.0	67.8	66.4	66.5	67.1	66.0	62.5	61.8	60.1	59.5	59.5	59.0	57.4	61.1	68.6	56.3
„ 28,	56.4	55.6	54.4	54.0	54.7	54.3	54.5	56.4	58.3	57.7	58.9	60.3	59.1	58.9	57.9	58.0	57.4	56.4	56.4	56.3	56.8	56.5	56.8	56.7	56.8	61.3	53.5
„ 29,	56.8	56.7	56.5	55.0	54.8	54.8	55.0	56.9	60.6	61.2	63.9	67.1	65.2	64.8	64.8	63.8	60.9	59.6	57.9	58.0	57.7	57.3	56.9	57.0	59.3	67.8	54.4
„ 30,	57.0	56.5	55.6	55.6	54.6	55.2	54.6	55.2	57.9	60.9	61.5	62.4	62.0	61.8	60.8	59.6	58.8	57.2	57.4	57.5	57.2	57.4	57.4	57.3	58.0	63.0	54.4
„ 31,	57.1	57.1	57.1	57.2	57.1	56.8	56.5	58.0	60.2	61.2	63.6	67.1	66.8	67.1	69.1	65.9	64.8	62.7	62.4	62.6	64.3	64.4	62.6	60.4	61.8	70.4	56.3
Means,	55.4	55.1	54.9	54.7	54.5	54.3	54.4	55.6	56.9	57.5	58.5	59.2	59.4	59.4	59.0	58.4	57.5	56.6	56.2	56.1	56.0	55.9	55.7	55.5	56.5	60.8	53.3

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JANUARY, 1895.

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, ...	58.2	58.5	58.5	58.0	57.2	56.8	57.5	58.5	58.5	59.4	59.7	61.0	60.9	61.1	60.2	60.0	60.0	58.1	57.9	57.8	58.2	58.3	58.4	59.4	58.8	128.3
" 2, ...	59.4	59.5	59.6	59.6	59.6	59.7	60.0	60.0	61.1	60.8	60.8	60.8	60.6	60.8	60.7	60.6	60.4	59.9	61.5	60.7	60.5	60.5	60.4	60.5	60.3	106.6
" 3, ...	60.6	60.6	60.5	60.5	60.5	60.2	60.6	60.6	60.7	60.8	61.3	61.3	60.8	60.4	60.2	60.7	59.2	57.7	57.0	55.7	53.1	51.2	50.8	51.0	58.6	128.7
" 4, ...	49.7	48.7	47.6	47.8	46.5	46.6	46.2	47.2	48.3	49.7	51.2	51.9	52.1	51.8	52.7	51.9	51.6	52.1	52.0	51.5	50.1	50.6	51.1	52.3	50.0	112.4
" 5, ...	51.2	51.0	50.8	50.4	50.2	49.8	49.5	49.9	50.8	51.8	52.4	53.1	53.0	54.1	53.8	53.1	52.8	52.2	52.4	52.6	52.7	53.0	52.9	53.5	52.0	120.8
" 6, ...	53.6	53.6	53.7	54.1	54.1	53.8	53.9	54.0	54.6	54.1	54.7	54.7	55.6	55.4	55.4	55.7	56.2	55.0	54.8	54.9	55.4	55.6	54.9	55.3	54.7	118.5
" 7, ...	55.1	55.4	55.6	55.8	55.4	55.2	55.7	55.8	56.8	57.1	57.8	57.9	59.0	58.4	58.4	58.4	57.8	57.1	57.6	57.3	57.7	57.9	57.6	57.5	57.0	123.4
" 8, ...	57.3	57.1	56.7	56.5	56.2	55.8	56.3	57.7	58.3	58.1	59.0	58.7	59.8	59.7	58.2	58.1	57.6	58.1	58.5	57.6	57.8	56.4	56.5	56.6	57.6	120.3
" 9, ...	57.7	57.4	57.3	57.2	57.1	57.2	56.8	59.7	60.1	60.0	59.9	60.7	61.1	61.5	61.1	60.7	60.6	60.1	59.6	59.5	58.7	59.3	58.3	57.9	59.1	129.5
" 10, ...	58.0	58.0	58.0	57.8	57.8	58.0	57.7	58.8	58.3	58.3	58.5	59.0	59.0	59.1	59.1	59.5	59.6	58.6	59.0	59.3	59.1	59.3	58.5	58.5	58.6	119.7
" 11, ...	58.7	58.6	58.0	58.0	57.8	56.5	57.2	56.8	56.7	56.7	57.1	57.1	57.4	57.3	57.3	57.4	57.2	56.8	57.0	57.0	57.1	57.5	57.8	57.7	57.4	120.3
" 12, ...	57.5	57.6	57.6	57.6	57.0	56.1	55.8	55.7	54.5	54.4	55.2	56.2	56.3	56.1	55.8	55.5	55.0	55.1	54.6	54.6	54.6	54.5	54.5	54.2	55.7	99.1
" 13, ...	54.2	53.5	53.2	53.0	52.6	53.0	53.1	53.7	53.8	53.4	54.0	54.4	54.2	54.3	54.5	54.5	54.1	54.2	54.1	54.3	54.1	54.0	53.8	53.6	53.8	74.6
" 14, ...	53.9	53.6	53.5	52.8	52.3	51.8	50.9	51.0	51.1	50.6	51.7	50.3	49.8	49.3	48.2	48.0	47.9	47.2	47.2	47.5	47.2	47.2	47.0	46.3	49.8	63.3
" 15, ...	46.2	46.0	45.6	45.6	47.0	47.2	47.0	47.6	48.2	49.4	49.1	47.3	47.4	48.4	48.2	47.8	47.7	46.8	47.3	47.3	47.2	47.0	47.1	47.4	47.3	77.8
" 16, ...	47.5	47.6	47.7	47.9	48.6	48.7	49.8	51.3	51.2	51.8	51.3	52.0	52.0	52.1	52.5	51.9	51.6	51.0	50.9	50.2	50.8	51.2	51.2	51.4	50.5	65.1
" 17, ...	51.3	49.7	49.3	48.3	47.6	46.9	46.2	45.9	46.3	46.3	46.9	44.8	45.0	44.0	43.6	43.6	43.5	43.2	43.2	42.6	42.7	42.8	42.9	42.8	45.4	68.1
" 18, ...	42.4	42.5	42.2	41.9	41.8	42.1	42.1	42.3	42.8	43.9	44.0	43.8	43.3	42.7	42.8	42.7	43.1	42.9	42.8	42.9	42.8	42.8	43.1	42.9	42.8	59.9
" 19, ...	42.7	42.8	42.2	42.2	42.3	42.5	42.3	42.2	42.7	42.8	43.0	43.3	44.2	45.2	44.8	44.0	43.6	43.4	43.4	43.6	43.6	43.6	44.1	44.4	43.3	59.4
" 20, ...	44.2	44.2	44.2	44.4	44.3	44.5	44.8	44.9	46.2	46.9	47.1	43.6	47.8	47.2	47.0	46.5	46.4	46.4	46.5	46.4	46.4	46.4	46.8	47.0	45.8	79.5
" 21, ...	47.2	47.3	47.1	47.4	47.3	47.4	47.7	48.0	48.3	49.2	49.1	48.9	49.4	48.9	49.2	49.0	48.8	49.5	48.6	48.2	48.6	48.7	49.0	48.4	48.4	76.5
" 22, ...	47.6	47.4	47.4	47.4	47.3	47.3	47.0	47.3	47.1	48.3	48.9	50.0	51.1	51.7	51.8	51.9	50.0	50.0	49.0	49.1	47.4	46.1	45.3	46.1	48.4	119.2
" 23, ...	45.5	45.6	45.6	45.6	45.4	45.5	46.9	46.1	48.3	48.1	50.1	51.2	50.9	51.8	52.1	51.9	51.5	50.6	50.1	50.1	50.0	49.1	49.2	49.3	48.8	115.0
" 24, ...	49.4	49.4	49.5	49.4	49.4	49.5	50.3	50.6	52.3	52.1	52.8	53.0	53.9	51.1	50.0	50.1	51.5	50.6	50.5	51.6	52.1	52.2	51.2	51.1	51.0	119.8
" 25, ...	51.1	50.5	49.8	48.7	48.0	48.0	48.1	50.3	51.2	51.3	52.0	50.8	50.9	51.3	52.6	52.5	53.0	52.8	52.9	53.6	53.6	53.6	53.5	53.5	51.4	115.4
" 26, ...	53.7	53.4	53.5	53.6	53.5	53.5	53.7	53.9	55.4	55.3	54.6	54.0	54.8	55.9	55.5	55.8	55.5	54.6	54.9	54.9	55.0	54.8	54.7	55.0	54.6	116.7
" 27, ...	54.9	55.4	55.3	55.2	54.1	52.1	51.7	51.8	51.9	52.1	53.9	56.1	56.8	54.4	54.9	55.0	54.2	51.6	50.1	49.6	49.1	48.7	48.6	47.9	52.7	120.2
" 28, ...	47.8	47.7	46.9	46.6	47.3	47.6	47.6	49.2	50.6	50.6	52.0	50.8	51.9	48.8	50.4	50.1	50.1	49.8	50.9	51.4	51.2	51.0	51.3	51.3	49.7	115.7
" 29, ...	51.4	50.7	50.8	49.9	49.4	49.0	49.4	50.6	51.7	52.7	54.1	57.4	55.6	55.9	56.1	55.8	55.1	53.0	53.2	51.5	52.3	52.7	52.5	52.7	52.6	123.2
" 30, ...	53.4	52.3	51.0	51.4	51.1	51.6	51.4	51.7	52.0	52.1	51.3	49.0	49.1	48.9	49.3	50.3	52.0	52.1	52.7	53.1	53.5	53.8	54.3	54.3	51.7	116.9
" 31, ...	54.2	53.5	53.7	53.8	53.9	53.8	54.4	55.0	55.7	56.1	56.5	58.2	58.2	58.7	60.8	59.8	58.6	57.7	57.8	58.3	57.4	57.5	54.6	53.1	56.3	124.6
Means, ...	52.1	51.9	51.7	51.6	51.4	51.2	51.3	51.9	52.4	52.7	53.2	53.3	53.6	53.4	53.5	53.3	53.1	52.5	52.5	52.4	52.3	52.2	52.0	52.0	52.4	104.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JANUARY, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	79	0.353	Jan. 1,.....	78	0.446
2 „	79	.352	„ 2,.....	84	.486
3 „	79	.349	„ 3,.....	84	.457
4 „	80	.349	„ 4,.....	63	.283
5 „	80	.346	„ 5,.....	65	.313
6 „	80	.343	„ 6,.....	74	.371
7 „	79	.345	„ 7,.....	77	.415
8 „	76	.345	„ 8,.....	77	.422
9 „	72	.342	„ 9,.....	87	.476
10 „	71	.342	„ 10,.....	84	.460
11 „	68	.343	„ 11,.....	81	.430
Noon.	66	.336	„ 12,.....	83	.407
1 p.	67	.342	„ 13,.....	91	.396
2 „	65	.336	„ 14,.....	86	.332
3 „	67	.344	„ 15,.....	80	.289
4 „	70	.347	„ 16,.....	90	.349
5 „	73	.353	„ 17,.....	66	.243
6 „	75	.348	„ 18,.....	68	.220
7 „	77	.353	„ 19,.....	86	.259
8 „	76	.351	„ 20,.....	85	.283
9 „	77	.349	„ 21,.....	78	.299
10 „	77	.349	„ 22,.....	68	.278
11 „	77	.346	„ 23,.....	70	.285
Midt.	78	.349	„ 24,.....	64	.297
			„ 25,.....	62	.299
			„ 26,.....	77	.376
			„ 27,.....	53	.288
			„ 28,.....	57	.264
			„ 29,.....	61	.310
			„ 30,.....	62	.302
			„ 31,.....	69	.382
Means,.....	75	0.346	Means.	75	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.
1895.														
Jan. 1,.....	...	...	...	...	0.4	...	0.6	1.0	1.0	1.0	1.0	0.5	...	5.5
„ 2,.....	...	...	0.1	...	...	...	...	...	...	0.1	...	...	...	0.2
„ 3,.....	...	...	0.1	...	...	0.6	...	...	...	...	...	...	...	0.7
„ 4,.....	...	...	...	...	...	0.1	0.8	0.2	...	...	...	...	...	1.1
„ 5,.....	...	0.2	1.0	1.0	0.9	0.4	1.0	1.0	0.9	1.0	1.0	0.1	...	8.5
„ 6,.....	...	...	0.1	0.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	7.4
„ 7,.....	...	...	0.7	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.0
„ 8,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.8
„ 9,.....	...	0.2	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	0.4	...	9.5
„ 10,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.6
„ 11,.....	...	...	...	...	...	0.5	0.9	1.0	0.9	0.8	0.8	...	...	4.9
„ 12,.....	...	...	...	...	...	...	...	...	...	0.1	...	...	...	0.1
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,.....	...	...	...	...	...	0.4	1.0	1.0	1.0	1.0	0.2	0.3	...	4.9
„ 23,.....	...	0.4	1.0	0.2	...	...	0.7	1.0	1.0	1.0	1.0	0.5	...	6.8
„ 24,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	1.0	0.5	...	9.9
„ 25,.....	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.9
„ 26,.....	...	0.1	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.6	...	9.4
„ 27,.....	...	0.4	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.8
„ 28,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.8
„ 29,.....	...	0.3	1.0	0.8	0.7	0.7	1.0	0.9	0.3	0.4	0.6	0.4	...	7.1
„ 30,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 31,.....	...	...	0.9	1.0	0.3	0.7	0.6	1.0	0.9	1.0	1.0	0.2	...	7.6
Sums,.....	...	4.1	13.5	13.0	13.0	14.3	17.6	18.1	16.9	17.3	16.6	6.8	...	151.2

TABLE VI.

RAINFALL FOR THE MONTH OF JANUARY, 1895.

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,	...	...	...	0.060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	1
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	0.015	3
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	2
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	...	...	0.010	16
„ 14,	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	0.010	12
„ 15,	0.010	...	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.025	4
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...	...	0.005	...	0.045	0.065	9
„ 17,	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	1
„ 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 19,	...	...	0.005	0.005	0.020	0.005	...	...	...	...	...	0.020	0.030	0.005	0.005	0.010	0.005	0.015	0.010	0.010	...	...	...	...	0.145	21
„ 20,	...	0.005	0.010	0.010	0.015	0.020	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.065	8
„ 21,	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	2
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.015	0.010	0.020	0.085	0.040	0.030	0.005	...	...	0.005	...	0.020	0.030	0.005	0.005	0.010	0.010	0.015	0.035	0.015	...	0.010	...	0.045	0.410	80

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JANUARY, 1895.

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,	10	9	...	1	...	0	2	4	30	3	1	2	...	0	1	6	28	4	23	7	22	9	23	9	24	6	12	8	12	10	26	12	24	8	26	7	27	6	27	4	27	3	27	3	...	1	7	4	126	5.2	26
" 2,	7	6	7	11	7	10	7	9	7	6	8	11	9	10	7	14	8	11	8	16	9	15	9	16	9	14	9	13	9	15	9	13	9	14	9	18	8	16	8	12	8	15	8	17	8	15	7	14	311	13.0	8
" 3,	9	17	8	18	7	19	8	21	7	17	8	23	7	19	7	21	7	17	8	20	8	22	8	19	9	16	8	13	7	13	9	10	32	10	32	11	1	7	1	12	2	19	1	23	2	11	2	6	384	16.0	6
" 4,	1	8	31	10	1	14	32	11	30	8	2	11	1	11	32	7	32	11	1	8	5	17	6	13	7	14	7	13	8	15	7	14	6	13	4	10	3	9	1	10	1	9	1	6	1	6	3	6	254	10.6	3
" 5,	1	8	5	12	5	18	5	18	4	17	5	17	5	18	5	16	5	14	7	13	8	15	9	14	10	12	10	10	9	11	8	14	9	11	10	9	9	11	9	11	7	12	7	13	7	16	7	20	330	13.8	7
" 6,	7	25	7	23	7	22	7	21	5	19	6	17	7	25	6	27	6	26	7	25	7	27	7	26	7	25	7	21	7	17	7	20	7	20	7	20	7	18	7	20	7	17	7	14	7	16	6	19	510	21.2	7
" 7,	7	19	6	19	5	18	6	22	6	24	6	23	6	26	6	20	6	20	7	20	7	15	9	15	10	16	9	16	9	17	9	16	9	15	8	20	9	14	7	14	8	15	7	14	8	14	9	12	424	17.7	7
" 8,	9	14	8	13	9	12	10	11	10	10	10	11	11	10	10	8	10	6	10	7	9	12	10	15	8	18	8	21	8	20	8	19	9	18	8	12	9	10	9	11	10	10	10	8	8	4	9	11	291	12.1	9
" 9,	9	11	6	4	6	3	6	2	...	1	...	0	...	1	10	9	9	18	9	21	8	17	8	18	8	18	7	13	8	14	7	11	5	8	7	9	8	10	9	10	10	10	9	15	9	13	10	8	244	10.2	8
" 10,	10	11	10	12	9	11	9	9	8	4	8	9	8	8	7	14	7	17	8	22	8	21	9	21	7	25	8	22	7	22	8	21	6	23	7	21	7	22	7	23	7	23	7	24	7	27	6	27	439	18.3	7
" 11,	7	25	7	27	6	24	6	24	5	22	6	27	7	34	7	41	7	34	7	30	7	28	7	26	8	23	8	25	8	26	8	22	8	21	7	17	7	17	7	13	7	14	7	15	7	9	8	10	554	23.1	7
" 12,	7	11	7	13	8	12	7	9	3	4	4	3	10	5	5	10	7	9	7	10	7	10	7	16	7	18	6	21	6	14	7	18	7	18	7	20	6	19	7	18	6	22	6	24	7	23	7	23	350	14.6	7
" 13,	5	22	6	27	7	21	4	26	6	26	6	30	6	39	6	33	7	35	6	32	6	33	6	36	7	38	7	34	7	33	7	34	7	33	7	38	7	35	7	39	7	38	6	35	7	39	7	37	793	33.0	6
" 14,	7	35	7	34	7	32	6	21	4	18	5	19	4	14	6	9	4	8	3	10	1	7	32	4	32	9	1	5	2	8	32	6	1	8	1	3	..	1	30	5	32	4	32	4	2	3	32	7	274	11.4	5
" 15,	32	6	31	11	32	7	32	5	...	1	30	2	24	7	23	9	26	7	30	6	27	6	30	5	31	4	23	5	25	3	28	5	30	4	30	3	31	4	31	5	31	3	31	4	...	1	...	1	114	4.8	29
" 16,	31	2	...	0	32	4	...	0	...	1	31	2	31	2	10	12	10	8	9	8	7	8	8	7	8	6	12	6	17	3	24	5	24	7	1	4	...	1	1	3	1	2	1	3	24	3	24	8	105	4.4	7
" 17,	23	5	32	5	2	5	32	3	1	11	32	10	1	8	32	8	32	7	31	9	31	6	32	5	29	7	32	11	32	14	32	12	32	6	2	10	1	7	2	11	32	7	1	6	32	8	32	12	193	8.0	32
" 18,	32	17	32	10	2	14	32	14	32	12	32	12	1	13	1	14	1	13	32	7	1	7	32	7	31	10	32	13	32	10	32	11	1	8	32	8	1	14	32	8	32	11	32	12	32	14	32	14	273	11.4	32
" 19,	31	12	1	12	1	17	32	14	32	9	32	10	1	14	1	13	32	13	31	7	1	10	30	6	30	4	30	4	32	5	32	4	32	6	32	3	32	3	32	6	2	5	32	5	31	3	30	6	191	8.0	32
" 20,	32	5	32	4	30	5	31	4	31	5	31	4	31	3	31	6	31	5	31	3	6	7	8	12	5	9	7	10	7	7	2	6	32	5	32	5	32	5	32	5	1	7	1	4	1	2	1	4	132	5.5	2
" 21,	1	3	1	4	32	4	3	4	5	14	4	17	4	15	5	18	4	18	7	23	6	21	5	21	6	19	7	20	7	19	7	12	7	11	32	8	32	8	32	11	5	9	4	7	29	4	32	3	293	12.2	5
" 22,	30	7	32	5	32	6	32	9	32	5	32	4	32	7	1	10	1	9	1	6	31	6	31	6	29	4	20	5	24	6	23	3	32	7	32	6	1	4	1	11	32	11	3	13	32	14	20	4	168	7.0	32
" 23,	2	7	1	6	1	4	...	1	1	4	1	4	...	1	...	0	26	5	23	5	23	7	25	3	31	2	11	6	9	11	9	16	8	15	8	12	7	4	...	1	7	2	7	2	...	0	...	1	119	5.0	6
" 24,	...	0	...	1	11	2	15	3	15	2	15	2	15	2	...	0	...	0	15	4	11	5	11	10	10	15	10	20	9	19	9	15	8	15	9	10	7	10	7	13	6	13	7	12	7	21	7	23	217	9.0	9
" 25,	7	29	7	32	6	22	7	22	7	14	6	8	6	6	8	10	9	9	8	21	9	19	10	19	10	25	10	26	9	24	8	23	8	21	7	18	7	21	7	16	7	20	7	21	7	19	7	24	469	19.5	8
" 26,	7	25	7	24	7	22	7	16	8	15	7	12	8	12	7	13	9	14	10	13	10	14	9	23	9	19	9	18	8	20	8	17	7	18	8	14	8	13	8	9	8	7	8	3	8	3	8	2	346	14.4	8
" 27,	8	4	8	3	14	3	26	2	10	3	30	9	1	12	1	14	1	12	32	10	22	7	23	7	24	7	14	7	23	4	16	6	1	8	2	9	1	9	31	5	2	3	2	12	1	17	2	11	184	7.7	1
" 28,	1	8	3	6	3	6	3	4	5	8	6	10	6	9	7	17	7	22	7	21	8	12	9	14	9	24	7	25	7	25	7	22	7	23	8	22	7	21	7	21	7	24	7	29	7	24	7	26	423	17.6	7
" 29,	7	22	6	17	5	6	5	2	2	3	4	2	...	1	...	0	3	2	9	5	23	6	8	8	10	8	24	9	24	6	24	5	27	6	27	4	27	4	7	7	7	11	8	10	9	12	7	13	169	7.0	7
" 30,	6	12	7	13	7	8	4	6	5	8	6	8	6	6	6	10	6	10	8	14	8	20	8	19	8	23	9	20	8	22	8	22	8	21	8	20	7	20	7	24	7	27	7	23	7	27	7	25	408	17.0	7
" 31,	7	29	7	24	8	23	9	15	10	14	10	16	10	13	10	15	10	15	10	13	6	3	9	5	9	4	24	7	23	8	26	7	27	9	26	5	26	3	26	3	32	10	2	16	1	27	1	23	307	12.8	6
Sums,	...	414	...	401	...	374	...	332	...	308	...	335	...	351	...	404	...	399	...	416	...	412	...	425	...	442	...	447	...	441	...	421	...	410	...	376	...	346	...	361	...	383	...	397	...	396	...	404	9395	391.5	...
Means,	...	13.4	...	12.9	...	12.1	...	10.7	...	9.9	...	10.3	...	11.3	...	13.0	...	12.9	...	13.4	...	13.3	...	13.7	...	14.3	...	14.4	...	14.2	...	13.6	...	13.2	...	12.1	...	11.2	...	11.6	...	12.4	...	12.8	...	12.8	...	13.0	303.1	12.6	...

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
1895.												
Jan. 1, ...	10	cum.	...	10	nim.	...	10	sm-cum. / cum.	...	9	sm-cum. / cum.	...
„ 2, ...	10	cum.	...	10	cum.	...	9	cum. / R-cum.	ESE	10	str-cum.	...
„ 3, ...	9	cum.	...	10	cum.	...	10	cum.	E	10	nim.	E
„ 4, ...	10	cum.	...	10	cum.	...	8	sm-cum.	WNW	9	sm-cum. / cum.	E
„ 5, ...	10	cum.	...	8	cum.	...	2	sm-cum. / cum.	...	6	sm-cum.	S
„ 6, ...	10	cum.	...	10	cum.	...	7	sm-cum. / cum.	WNW / E	8	cum.	E
„ 7, ...	8	cum.	ESE	9	cum.	...	4	sm-cum. / cum.	E	7	cum.	E
„ 8, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 9, ...	4	cum.	SE	2	cum.	...	0	...	...	1	sm-cum. / cum.	ESE
„ 10, ...	0	...	...	0	...	...	0	...	...	1	cum.	...
„ 11, ...	10	cum.	E	10	cum.	E	7	cum. / R-cum.	E N	10	str-cum.	E
„ 12, ...	10	cum.	E	10	nim.	E	10	str-cum.	ENE	10	str-cum.	E
„ 13, ...	10	cum.	ENE	10	cum.	ENE	10	nim.	ENE	10	nim.	ENE
„ 14, ...	10	cum.	ENE	10	nim.	...	10	nim.	ENE	10	cum-nim.	ENE
„ 15, ...	10	cum.	...	10	cum.	...	10	cum-nim.	...	10	str-cum.	...
„ 16, ...	10	cum.	...	10	cum.	...	10	str-cum.	E	10	cum-nim.	E
„ 17, ...	10	cum.	...	10	cum.	...	10	str-cum.	...	10	str-cum.	...
„ 18, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	ENE
„ 19, ...	10	nim.	...	10	nim.	...	10	str. / cum.	E	10	nim.	...
„ 20, ...	10	cum.	...	10	nim.	...	10	nim.	...	10	str-cum.	ENE
„ 21, ...	10	cum.	...	10	cum.	...	10	R-cum.	E	10	str-cum.	E
„ 22, ...	10	cum.	...	10	cum.	...	10	cum-nim.	ESE	10	sm-cum.	WNW
„ 23, ...	6	sm-cum.	WNW	4	sm-cum.	...	1	cum.	...	10	sm-cum. / cum.	S
„ 24, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 25, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 26, ...	4	cum.	E	7	cum.	...	1	cum.	...	0	...	...
„ 27, ...	4	cum.	...	3	cum.	...	0	...	...	0	...	...
„ 28, ...	0	...	...	0	...	...	0	...	...	1	cum.	...
„ 29, ...	0	...	...	0	...	...	1	sm-cum.	...	8	sm-cum.	W
„ 30, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 31, ...	10	cum.	...	5	cum.	...	3	sm-cum.	SSE	9	str-cum.	...
Means,...	6.9	...	...	6.7	...	...	5.6	...	...	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	
1895.													
Jan. 1,...	4	c-cum.	SSE	0	...	...	3	sm-cum.	W	3	sm-cum.	...	6.1
„ 2,...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	WSW	6	str-cum.	WSW	9.4
„ 3,...	10	str-cum.	SE	10	nim.	E	10	nim.	ENE	10	str-cum.	...	9.9
„ 4,...	10	cum.	ENE	10	R-cum.	ENE	10	cum.	ENE	10	str-cum.	NE	9.6
„ 5,...	1	cum.	...	1	cum.	...	7	sm-cum.	NW	8	sm-cum. / cum.	WNW / E	5.4
„ 6,...	2	cum.	E	1	cum.	...	1	cum.	ESE	6	cum.	ESE	5.6
„ 7,...	2	sm-cum.	E	0	...	...	0	...	...	0	...	...	3.7
„ 8,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 9,...	2	cum.	WSW	0	...	...	0	...	...	0	...	...	1.1
„ 10,...	3	cum.	E	2	cum.	E	4	cum.	E	8	cum.	E	2.3
„ 11,...	9	sm-cum.	WNW	5	sm-cum.	WNW	8	sm-cum.	WNW	9	sm-cum. / cum.	WNW / E	8.5
„ 12,...	10	cum. / R-cum.	WNW / E	9	sm-cum. / cum.	ESE	10	str-cum.	E	10	nim.	E	9.9
„ 13,...	10	nim.	ENE	10	nim.	E	10	nim.	...	10	nim.	E	10.0
„ 14,...	10	str-cum.	NE	10	str-cum.	NE	10	str.	...	10	nim.	...	10.0
„ 15,...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10	str.	...	10.0
„ 16,...	10	str-cum.	E	10	nim.	...	10	nim.	...	10	nim.	...	10.0
„ 17,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str.	...	10.0
„ 18,...	10	str-cum.	NE	10	str-cum.	NE	10	str-cum.	...	10	str.	...	10.0
„ 19,...	10	nim.	ENE	10	nim.	...	10	nim.	...	10	nim.	...	10.0
„ 20,...	10	sm-cum. / cum.	ENE	10	str-cum.	ENE	10	str-cum.	...	10	str-cum.	...	10.0
„ 21,...	10	str-cum.	ENE	10	str-cum.	ENE	10	cum.	E	10	nim.	...	10.0
„ 22,...	5	sm-cum. / cum.	WNW / N	9	sm-cum. / cum.	WNW / N	10	cum.	...	0	...	...	8.0
„ 23,...	1	cum.	...	0	...	...	0	...	...	0	...	...	2.7
„ 24,...	3	cum.	N	0	...	...	0	...	...	0	...	...	0.4
„ 25,...	0	...	...	2	sm-cum.	WNW	0	...	...	0	...	...	0.3
„ 26,...	0	...	...	0	...	...	0	...	...	0	...	...	1.5
„ 27,...	0	...	...	0	...	...	0	...	...	0	...	...	0.9
„ 28,...	0	...	...	0	...	...	0	...	...	0	...	...	0.1
„ 29,...	2	c-cum.	WNW	7	sm-cum.	W	0	...	...	0	...	...	2.2
„ 30,...	0	...	...	0	...	...	7	cum.	ESE	4	cum.	...	1.4
„ 31,...	0	...	...	1	c-cum.	W	9	cum.	...	7	cum.	N	5.5
Means,...	5.3	...	...	5.1	...	...	5.8	...	...	5.5	...	...	6.0

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JANUARY, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.6	10.5	0.5	0.3	+ 4.1	+ 10.2	E 22° N
2 „	4.6	10.4	0.2	0.1	4.4	10.3	E 23° N
3 „	4.9	9.4	0.3	0.1	4.6	9.3	E 26° N
4 „	4.7	7.7	0.4	0.1	4.3	7.6	E 29° N
5 „	4.9	7.0	0.4	0.2	4.5	6.8	E 33° N
6 „	4.9	7.8	0.4	0.2	4.5	7.6	E 31° N
7 „	4.8	8.3	0.5	0.3	4.3	8.0	E 28° N
8 „	5.3	9.9	0.6	0.3	4.7	9.6	E 26° N
9 „	5.0	9.7	0.6	0.5	4.4	9.2	E 26° N
10 „	3.3	10.9	0.8	0.6	2.5	10.3	E 14° N
11 „	2.9	10.7	0.8	1.1	2.1	9.6	E 12° N
Noon.	2.5	11.6	1.4	0.8	1.1	10.8	E 6° N
1 p.	2.4	12.2	1.5	0.7	0.9	11.5	E 4° N
2 „	2.2	12.0	1.9	0.8	0.3	11.2	E 2° N
3 „	2.2	11.9	1.0	0.9	1.2	11.0	E 6° N
4 „	2.4	11.0	0.7	1.1	1.7	9.9	E 10° N
5 „	3.6	10.3	0.4	0.9	3.2	9.4	E 19° N
6 „	3.5	9.5	0.3	0.5	3.2	9.0	E 20° N
7 „	3.6	8.8	0.2	0.4	3.4	8.4	E 22° N
8 „	4.3	8.7	0.2	0.3	4.1	8.4	E 26° N
9 „	4.7	9.5	0.3	0.1	4.4	9.4	E 25° N
10 „	5.3	9.7	0.2	0.1	5.1	9.6	E 28° N
11 „	4.8	9.4	0.1	0.2	4.7	9.2	E 27° N
Midt.	4.7	9.9	0.3	0.4	+ 4.4	+ 9.5	E 25° N
Means, ...	4.0	9.9	0.6	0.5	+ 3.42	+ 9.41	E 20° N

PHENOMENA :—

Lunar corona :—on the 7th.

Fog :—on the 9th, 10th and 24th.

Slight fog :—on the 29th.

Haze :—on the 16th, 23rd and 31st.

Unusual visibility :—on the 10th.

Dew :—on the 8th, 9th, 12th, 17th, 23rd and 26th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF FEBRUARY, 1895.

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,...	30.044	30.037	30.042	30.047	30.055	30.066	30.075	30.076	30.083	30.078	30.057	30.027	29.990	29.980	29.948	29.956	29.958	29.961	29.977	29.986	29.986	29.979	29.969	29.956	30.014
„ 2,...	29.944	29.937	29.929	29.935	29.929	29.936	29.954	29.966	29.971	29.970	29.937	29.890	.866	.834	.799	.790	.786	.790	.799	.811	.811	.805	.797	.798	29.874
„ 3,...	.787	.776	.767	.753	.751	.741	.761	.771	.779	.769	.761	.734	.696	.666	.637	.634	.634	.633	.650	.666	.677	.683	.689	.667	.712
„ 4,...	.657	.666	.651	.642	.632	.642	.661	.674	.684	.686	.695	.663	.630	.612	.615	.608	.620	.624	.640	.662	.688	.693	.696	.710	.656
„ 5, ..	.715	.707	.701	.691	.713	.732	.750	.783	.814	.846	.854	.848	.826	.822	.808	.812	.831	.856	.889	.917	.934	.954	.969	.970	.823
„ 6,...	.962	.958	.946	.946	.949	.976	.999	30.032	30.055	30.063	30.060	30.033	30.009	.986	.969	.967	.973	.994	30.002	30.013	30.025	30.046	30.045	30.034	30.002
„ 7,...	30.039	30.018	30.017	.989	.976	.987	.997	.014	.016	.009	.004	29.980	29.934	.899	.880	.883	.856	.882	29.914	29.932	29.916	29.948	29.919	29.931	29.956
„ 8, ..	29.911	29.900	29.886	.881	.890	.927	.928	29.938	29.964	29.956	29.951	.946	.919	.886	.875	.882	.883	.890	.897	.916	.929	.937	.938	.934	.915
„ 9,...	.935	.940	.943	.930	.934	.931	.960	.983	.982	30.008	30.009	.982	.962	.935	.919	.915	.935	.924	.944	.952	.976	.975	.966	.979	.955
„ 10,...	.979	.980	.974	.972	.955	.962	.977	.990	30.006	.028	.033	30.016	.985	.960	.952	.945	.960	.968	.992	30.017	30.016	30.032	30.047	30.052	.992
„ 11,...	30.061	30.058	30.046	30.041	30.045	30.037	30.046	30.071	.094	.098	.097	.070	30.051	30.011	.995	.998	30.014	30.011	30.024	.040	.056	.045	.044	.037	30.045
„ 12,...	.034	.011	.018	.004	.003	.014	.018	.040	.057	.077	.070	.042	.008	29.978	.964	.944	29.950	29.961	29.971	29.976	29.978	29.990	29.986	29.983	.003
„ 13,...	29.969	29.936	29.936	29.940	29.920	29.937	29.963	29.979	29.995	29.997	29.981	29.958	29.923	.889	.877	.867	.869	.881	.888	.904	.901	.907	.909	.896	29.926
„ 14, ..	.886	.873	.863	.860	.865	.876	.894	.904	.910	.911	.897	.868	.842	.823	.802	.797	.798	.800	.805	.823	.831	.830	.825	.818	.850
„ 15,...	.812	.809	.804	.792	.791	.800	.811	.820	.824	.831	.820	.805	.767	.750	.730	.746	.762	.781	.812	.844	.871	.888	.906	.913	.812
„ 16,...	.922	.913	.920	.924	.937	.964	.986	.989	30.025	30.040	30.041	30.013	.996	.965	.924	.914	.925	.943	.967	.971	.981	.997	.991	.991	.968
„ 17, ..	.988	.965	.960	.941	.956	.998	.989	.986	.012	.009	.003	29.983	.960	.942	.929	.922	.930	.934	.949	.966	.976	.990	.994	.993	.970
„ 18,...	.985	.976	.969	.964	.970	.986	30.008	30.021	.036	.050	.046	30.023	.997	.972	.961	.961	.971	.983	30.001	30.023	30.033	30.042	30.056	30.063	30.004
„ 19,...	30.062	30.063	30.069	30.073	30.067	30.107	.140	.159	.178	.180	.188	.164	30.130	30.110	30.086	30.081	30.086	30.105	.132	.145	.155	.156	.160	.149	.123
„ 20,...	.137	.127	.106	.101	.102	.116	.137	.160	.171	.189	.175	.167	.133	.102	.087	.088	.101	.110	.120	.134	.153	.163	.162	.153	.133
„ 21,...	.143	.143	.138	.137	.141	.156	.177	.193	.207	.203	.174	.147	.113	.120	.106	.103	.113	.137	.156	.184	.194	.206	.215	.218	.159
„ 22, ..	.210	.198	.194	.189	.183	.189	.204	.202	.200	.210	.198	.168	.135	.101	.080	.077	.089	.101	.110	.126	.142	.144	.151	.141	.156
„ 23,...	.132	.120	.100	.095	.097	.121	.143	.146	.160	.161	.137	.126	.126	.100	.091	.082	.078	.078	.089	.099	.108	.102	.098	.092	.112
„ 24,...	.087	.078	.071	.055	.057	.077	.097	.110	.116	.128	.123	.095	.076	.047	.038	.032	.033	.041	.062	.074	.086	.100	.104	.107	.079
„ 25,	.100	.081	.065	.064	.065	.076	.089	.106	.120	.116	.124	.092	.067	.043	.016	.013	.019	.022	.025	.040	.047	.051	.045	.049	.064
„ 26,...	.040	.032	.021	.015	.013	.029	.043	.068	.064	.079	.090	.057	.020	.009	29.992	29.985	29.983	29.980	29.984	.008	.031	.028	.022	.011	.025
„ 27,...	.006	29.996	29.988	29.966	29.980	29.996	.016	.034	.052	.047	.045	.025	.013	29.998	.993	.996	30.006	30.007	30.015	.038	.056	.060	.066	.062	.019
„ 28, ..	.046	30.029	30.017	.999	.992	30.012	.018	.032	.051	.059	.050	.024	29.994	.958	.944	.945	29.947	29.945	29.961	29.983	.000	.008	.011	.007	.001
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.985	29.976	29.969	29.962	29.963	29.978	29.994	30.009	30.022	30.028	30.021	29.998	29.970	29.946	29.929	29.927	29.932	29.941	29.956	29.973	29.984	29.991	29.992	29.990	29.977

TABLE II.

TEMPERATURE FOR THE MONTH OF FEBRUARY, 1895.

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,	60.1	59.0	58.0	57.2	56.3	56.5	56.0	57.4	59.6	61.6	63.1	64.0	66.8	67.4	67.3	62.3	60.1	57.8	57.4	57.2	56.7	56.4	56.6	56.8	59.6	67.4	56.0
„ 2,	56.8	56.1	55.6	55.2	54.9	54.8	54.6	54.6	54.8	57.0	57.6	58.1	58.2	57.5	57.3	57.1	56.4	56.8	57.1	57.5	57.6	57.3	57.5	57.7	56.6	59.0	54.6
„ 3,	57.8	58.0	57.3	57.1	57.2	56.9	57.2	57.0	57.3	57.3	57.7	57.6	58.1	58.4	58.3	57.9	57.6	57.5	57.9	58.3	58.8	58.6	58.8	59.1	57.8	59.1	56.1
„ 4,	58.8	58.9	58.9	58.8	59.0	59.1	59.2	59.5	59.6	58.7	58.6	58.8	59.3	60.0	59.8	60.1	59.3	59.4	59.9	60.6	60.9	61.0	61.7	59.1	59.5	61.8	58.3
„ 5,	58.2	59.0	59.3	59.4	59.4	59.2	59.9	59.8	59.1	59.5	58.7	59.7	59.0	59.3	59.7	59.3	59.2	58.1	57.7	57.0	56.7	56.3	55.5	55.3	58.5	59.9	55.3
„ 6,	54.4	53.8	53.5	50.5	50.0	49.3	51.0	52.0	52.7	54.5	55.4	57.0	58.1	57.1	58.9	57.4	56.3	55.7	55.2	55.0	55.1	55.2	55.2	55.5	54.5	59.4	49.3
„ 7,	55.0	55.2	55.2	54.6	54.5	55.0	54.3	54.7	54.6	55.7	56.8	57.6	58.0	57.3	57.1	57.0	56.3	55.8	56.4	56.6	56.8	57.0	57.1	56.9	56.1	59.0	53.8
„ 8,	56.8	56.4	56.3	56.0	55.8	55.2	55.6	56.1	56.3	56.4	57.4	57.6	58.5	57.8	57.9	58.9	59.2	57.1	57.6	57.2	57.6	57.6	57.3	57.7	57.1	59.2	54.9
„ 9,	57.5	57.3	57.2	57.7	58.4	58.4	58.4	58.0	57.6	57.4	56.8	58.1	57.9	58.7	58.8	58.1	56.8	56.4	56.6	55.7	56.6	56.4	56.4	56.4	57.4	58.8	55.7
„ 10,	56.7	57.0	57.4	57.8	57.9	58.0	58.2	58.9	59.0	58.4	59.6	60.0	59.6	59.6	59.6	59.2	59.7	59.0	59.4	58.8	58.9	59.5	58.4	58.0	58.7	60.4	56.1
„ 11,	57.7	57.6	57.0	57.2	57.2	57.4	56.6	57.3	57.2	57.2	58.1	58.2	57.7	58.1	57.9	57.1	56.6	56.6	56.5	57.0	56.8	56.3	56.2	56.3	57.2	59.0	55.9
„ 12,	56.0	56.3	56.1	56.2	56.1	56.2	56.6	57.0	57.3	56.9	58.2	57.7	57.8	58.3	58.8	58.9	58.6	58.9	59.4	59.5	59.6	59.7	59.7	59.6	57.9	60.0	56.0
„ 13,	59.6	59.9	60.3	60.1	59.9	59.7	59.6	59.6	59.8	60.8	60.7	62.0	62.5	62.4	62.3	63.0	61.9	61.2	61.8	61.9	61.7	61.8	61.7	62.6	61.1	63.2	58.9
„ 14,	61.9	61.9	61.4	62.4	63.0	63.3	63.4	64.3	65.3	66.7	66.8	69.8	69.0	69.0	68.4	69.8	67.0	65.1	65.3	65.4	67.3	67.1	66.8	66.5	65.7	70.0	60.6
„ 15,	67.1	67.2	66.8	66.7	66.5	66.5	66.5	66.6	67.1	67.9	69.8	68.3	68.9	68.7	64.6	61.7	63.4	62.1	61.5	60.8	59.7	59.0	58.3	57.6	63.9	70.6	57.6
„ 16,	57.6	58.0	57.6	56.4	56.8	55.2	56.6	57.0	58.2	57.4	56.7	56.5	56.3	56.7	57.2	56.8	56.5	57.9	57.7	57.3	57.1	55.7	55.4	55.8	56.8	59.0	54.3
„ 17,	56.0	55.7	56.0	56.2	55.8	55.8	56.1	56.7	56.9	57.3	56.8	57.0	57.2	58.3	58.8	59.1	58.9	58.8	59.3	59.6	59.5	59.6	59.7	60.5	57.7	60.7	55.7
„ 18,	60.6	60.7	60.8	61.0	61.6	61.7	61.8	61.9	62.3	65.2	65.7	67.6	71.0	68.9	68.4	69.7	67.6	63.7	63.2	62.8	63.8	63.4	63.0	62.6	64.1	71.3	60.5
„ 19,	61.8	62.4	61.4	60.8	59.3	58.3	58.6	59.1	60.0	61.2	60.9	59.7	60.4	60.5	61.0	59.8	59.9	59.1	59.3	59.0	58.7	58.6	59.0	58.8	59.9	62.9	57.7
„ 20,	58.5	59.0	58.4	58.3	58.5	58.5	58.3	57.9	59.0	61.2	63.1	63.0	62.5	63.0	61.8	60.0	59.2	58.5	58.6	58.6	58.8	58.7	58.6	58.7	59.6	63.6	57.9
„ 21,	59.3	58.7	59.3	59.2	59.1	59.1	59.6	60.6	61.4	62.1	63.3	63.0	62.3	62.1	62.0	61.0	59.8	59.7	59.9	60.0	60.1	59.6	59.6	59.2	60.4	63.9	58.7
„ 22,	58.9	58.0	57.1	57.0	56.2	56.2	56.7	57.0	57.9	58.8	59.9	60.7	62.1	62.9	60.6	60.1	59.1	58.6	58.7	58.9	59.1	59.3	59.5	59.4	58.9	62.9	55.3
„ 23,	59.6	59.4	59.5	59.7	59.6	60.2	60.5	63.2	64.9	66.3	66.2	69.4	68.9	66.0	65.7	65.0	65.1	64.0	62.0	63.4	61.6	61.1	60.6	60.2	63.0	70.0	58.9
„ 24,	60.0	59.8	59.0	59.2	59.4	59.0	59.8	63.0	64.8	67.8	67.7	68.0	68.2	69.0	68.0	66.8	64.9	63.6	62.8	62.4	62.0	61.4	60.7	60.7	63.2	70.1	59.0
„ 25,	60.8	60.8	60.9	60.2	60.4	60.5	62.0	63.9	65.0	64.8	66.0	66.6	65.0	67.1	67.7	67.0	64.4	62.6	62.3	62.0	61.9	62.0	62.0	61.6	63.2	67.7	59.7
„ 26,	60.8	60.4	60.4	60.6	60.7	60.6	60.8	62.2	62.4	63.3	64.3	66.0	67.0	67.0	65.1	65.2	63.9	62.9	62.1	61.9	62.4	63.0	63.3	63.2	62.9	67.2	60.4
„ 27,	63.1	62.6	62.8	63.3	63.5	63.9	64.4	65.9	66.8	68.3	68.4	69.9	69.7	70.5	69.7	69.7	68.1	66.6	66.5	66.7	65.9	65.1	64.8	64.6	66.3	72.3	62.0
„ 28,	64.7	64.0	63.8	64.1	64.6	64.9	65.5	67.1	69.4	69.2	71.0	71.3	70.7	71.1	70.6	71.0	69.9	67.8	66.8	67.0	66.3	66.7	65.6	66.0	67.5	71.3	62.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	59.1	59.0	58.8	58.7	58.6	58.5	58.9	59.6	60.2	61.0	61.6	62.3	62.5	62.6	62.3	61.8	60.9	60.0	60.0	59.9	59.9	59.8	59.6	59.5	60.2	63.9	57.2

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF FEBRUARY, 1895.

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, ...	52.6	52.0	50.9	50.0	49.5	48.8	47.8	47.9	49.7	49.2	48.8	50.1	49.2	51.2	50.7	50.3	49.6	49.1	49.0	51.1	51.2	51.4	51.4	50.5	50.1	120.7
„ 2, ...	50.0	51.2	50.6	50.6	50.9	50.9	50.2	49.4	49.6	50.2	50.6	51.7	51.8	52.0	52.3	51.2	51.8	51.5	52.2	53.6	54.0	53.1	53.5	53.4	51.5	116.9
„ 3, ...	53.5	53.2	53.5	53.8	54.1	53.9	54.7	54.6	55.2	55.2	55.8	55.6	56.0	56.4	56.5	56.6	56.8	56.7	57.1	57.6	58.1	58.0	58.2	58.5	55.8	93.2
„ 4, ...	58.3	58.4	58.4	58.5	58.5	58.6	58.7	59.2	59.1	58.5	58.4	58.6	59.0	59.3	59.6	59.6	59.0	59.2	59.8	60.4	60.6	60.8	61.4	58.9	59.2	78.0
„ 5, ...	58.1	58.8	58.7	58.4	58.3	58.1	57.3	57.0	56.9	54.8	53.8	54.0	53.0	53.1	53.0	52.2	52.7	51.7	51.2	50.9	50.2	50.1	49.5	48.8	54.2	75.2
„ 6, ...	48.3	48.1	47.4	46.5	45.9	45.7	46.1	46.9	47.1	48.2	48.9	49.9	51.0	49.8	51.9	50.2	48.8	48.9	48.9	49.0	49.2	49.1	49.4	49.8	48.5	94.5
„ 7, ...	49.6	49.8	50.1	49.9	49.8	50.0	49.6	49.6	50.5	51.4	51.6	51.9	52.4	51.8	52.1	52.2	52.2	52.9	53.5	53.9	54.6	54.7	55.0	55.0	51.8	113.9
„ 8, ...	54.4	54.4	54.2	53.8	54.2	54.0	54.2	54.9	55.7	55.3	55.8	56.1	56.6	56.4	56.6	57.0	56.8	56.0	53.1	56.2	56.5	56.7	56.5	56.7	55.5	88.9
„ 9, ...	56.5	56.2	55.3	55.6	55.8	55.5	54.6	54.7	54.6	55.4	54.9	55.2	54.9	54.7	53.9	54.7	54.3	54.8	54.9	54.2	53.8	54.2	54.4	54.3	54.9	87.0
„ 10, ...	54.7	55.1	55.4	55.6	55.8	56.0	56.3	56.8	56.9	57.0	57.8	58.6	58.5	58.4	58.5	58.7	58.9	58.1	57.8	57.5	57.3	55.9	56.0	55.8	57.0	71.9
„ 11, ...	55.1	54.8	54.2	54.3	54.0	53.5	52.9	53.9	53.7	54.1	54.7	55.0	55.2	55.0	55.1	54.8	53.8	54.0	54.2	52.1	54.7	53.9	53.7	53.7	54.2	99.8
„ 12, ...	53.1	53.2	52.8	52.8	53.0	53.4	53.7	53.9	54.1	54.3	55.3	55.1	55.2	55.3	56.0	56.1	56.1	56.0	56.8	57.1	57.3	57.3	57.3	57.5	55.1	95.0
„ 13, ...	57.7	58.2	58.2	58.2	58.0	57.6	57.7	58.4	58.6	58.2	58.3	59.6	60.1	60.3	60.4	60.0	60.3	60.2	61.4	61.3	61.4	61.3	61.6	62.2	59.6	125.2
„ 14, ...	61.7	61.5	61.4	62.4	63.1	63.3	63.0	63.8	64.7	64.8	65.3	66.5	65.9	65.8	65.7	66.3	65.1	64.9	65.2	65.3	66.5	66.3	66.3	66.0	64.6	120.9
„ 15, ...	66.2	66.7	66.8	66.6	66.2	66.2	66.4	66.5	66.8	67.8	68.8	67.8	67.6	67.8	64.2	61.0	60.0	58.1	56.7	55.3	53.8	52.9	52.6	51.9	62.7	91.6
„ 16, ...	51.9	51.8	51.0	50.9	51.0	50.4	51.7	50.9	51.6	52.3	52.6	53.2	52.6	52.6	53.3	53.4	53.4	53.6	53.1	52.7	52.2	52.3	52.6	52.9	52.2	95.8
„ 17, ...	52.3	52.4	52.8	53.0	53.1	53.6	53.6	54.5	54.6	55.9	55.3	55.8	56.2	57.2	57.0	58.1	57.8	57.9	58.4	58.7	58.6	58.8	59.1	59.7	56.0	79.8
„ 18, ...	60.2	60.1	60.5	60.8	61.5	61.5	61.6	61.5	61.9	63.8	64.0	65.1	67.3	65.8	65.7	65.9	65.1	62.8	62.6	62.7	63.7	63.4	62.9	62.5	63.0	126.8
„ 19, ...	61.4	59.6	57.5	54.8	54.0	53.6	54.2	55.1	55.8	54.4	55.6	53.0	53.0	53.7	53.4	52.8	53.1	52.8	52.7	52.6	52.2	52.5	52.8	54.8	54.4	86.5
„ 20, ...	55.2	55.3	55.0	54.2	54.4	54.4	52.3	51.7	53.2	54.4	55.2	56.7	56.3	56.6	56.4	55.4	55.1	55.2	55.0	55.3	55.3	55.9	55.7	55.3	55.0	110.6
„ 21, ...	55.7	56.0	54.9	53.4	55.3	54.5	55.2	54.6	55.3	54.0	55.4	55.1	54.8	55.4	55.2	56.9	56.0	55.6	56.1	56.2	56.0	56.0	55.8	55.4	55.4	125.0
„ 22, ...	55.1	54.5	54.5	54.6	54.3	54.5	54.8	55.1	55.0	55.2	56.3	56.0	56.2	56.1	56.0	56.2	56.0	55.3	55.8	55.7	55.6	56.0	56.2	56.4	55.5	110.3
„ 23, ...	56.1	56.3	56.1	55.9	55.8	57.0	57.1	58.3	59.1	60.4	60.5	62.4	62.4	62.0	61.7	61.2	61.0	60.3	59.4	60.7	59.5	59.3	59.1	58.6	59.2	127.6
„ 24, ...	58.6	58.6	57.7	57.6	57.9	57.6	58.2	59.7	60.2	61.6	61.4	61.0	61.1	59.1	57.1	56.9	57.1	57.0	57.1	56.7	55.2	55.6	55.6	55.6	58.1	128.0
„ 25, ...	56.2	55.6	54.6	53.1	52.7	52.0	50.0	50.7	52.0	52.2	52.7	52.4	53.7	56.4	55.8	55.9	55.9	57.9	57.2	58.4	58.3	58.2	58.4	58.2	54.9	129.0
„ 26, ...	57.8	57.3	57.6	58.4	58.6	58.6	58.2	58.8	58.6	58.8	60.0	60.6	60.9	60.1	59.0	59.8	59.6	59.8	59.5	59.7	60.7	61.4	61.5	61.5	59.5	127.5
„ 27, ...	61.0	60.8	60.9	61.1	60.9	60.5	60.9	62.3	63.5	64.8	64.4	65.2	64.8	65.3	65.1	65.2	65.0	64.5	64.7	64.8	64.3	63.8	63.3	63.3	63.3	138.5
„ 28, ...	63.4	63.6	63.3	63.4	63.7	63.9	64.7	65.2	65.8	65.8	66.7	65.9	66.2	66.3	66.2	66.4	65.8	64.9	64.6	64.6	64.3	64.5	64.1	64.4	64.9	136.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	56.2	56.2	55.9	55.6	55.7	55.6	55.6	55.9	56.4	56.7	57.1	57.4	57.6	57.6	57.4	57.4	57.0	56.8	56.7	56.9	57.0	56.9	56.9	56.8	56.6	106.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF FEBRUARY, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	82	0.420	Feb. 1,.....	46	0.237
2 „	83	.422	„ 2,.....	69	.315
3 „	82	.416	„ 3,.....	88	.421
4 „	82	.407	„ 4,.....	98	.500
5 „	82	.413	„ 5,.....	74	.365
6 „	82	.410	„ 6,.....	61	.263
7 „	80	.405	„ 7,.....	73	.329
8 „	78	.406	„ 8,.....	90	.421
9 „	77	.408	„ 9,.....	84	.399
10 „	75	.410	„ 10,.....	90	.444
11 „	74	.415	„ 11,.....	81	.382
Noon.	72	.414	„ 12,.....	82	.398
1 p.	73	.416	„ 13,.....	91	.492
2 „	72	.416	„ 14,.....	94	.595
3 „	72	.418	„ 15,.....	94	.555
4 „	75	.420	„ 16,.....	72	.331
5 „	77	.422	„ 17,.....	90	.428
6 „	81	.426	„ 18,.....	95	.563
7 „	81	.425	„ 19,.....	68	.352
8 „	82	.430	„ 20,.....	73	.374
9 „	83	.434	„ 21,.....	71	.374
10 „	83	.433	„ 22,.....	79	.398
11 „	84	.435	„ 23,.....	79	.454
Midt.	85	.433	„ 24,.....	72	.418
			„ 25,.....	56	.322
			„ 26,.....	80	.465
			„ 27,.....	84	.543
			„ 28,.....	87	.582
			.....	...	...
			.....	...	...
			.....	...	...
Means,.....	79	0.419	Means.	79	0.419

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.
1895.														
Feb. 1,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.8
„ 2,.....	...	...	...	0.1	0.2	0.8	0.3	0.4	0.2	0.3	0.1	...	...	2.4
„ 3,.....	...	...	...	...	...	...	...	...	0.1	0.1	...	...	...	0.2
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 7,.....	...	...	...	...	0.8	0.8	0.9	0.5	...	...	0.4	0.1	...	3.5
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	...	...	0.1	...	...	...	...	...	0.1
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	0.1	0.6	...	...	0.6	...	...	1.3
„ 14,.....	...	...	...	...	...	0.1	0.9	0.7	0.4	0.3	...	...	...	2.4
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	0.4	1.0	0.6	...	...	...	...	0.4	0.1	...	...	...	2.5
„ 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	0.1	...	0.2	0.5	1.0	1.0	1.0	0.9	0.4	...	5.1
„ 19,.....	...	...	..	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	0.6	0.6	1.0	1.0	1.0	1.0	0.5	...	...	...	5.7
„ 21,.....	...	...	...	...	...	0.6	0.9	0.5	...	...	...	...	...	2.0
„ 22,.....	...	...	...	...	...	0.2	...	0.2	...	...	...	...	...	0.4
„ 23,.....	...	...	0.4	0.5	0.5	0.4	0.6	...	...	...	0.4	0.4	...	3.2
„ 24,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.5	...	10.0
„ 25,.....	...	0.7	1.0	1.0	1.0	1.0	0.8	0.6	1.0	0.9	0.4	0.2	...	8.6
„ 26,.....	...	0.4	0.8	0.4	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.5	...	9.0
„ 27,.....	...	...	...	...	0.1	0.4	1.0	0.9	0.6	0.3	0.1	...	...	3.4
„ 28,.....	...	...	...	0.1	0.5	0.5	...	0.2	1.0	0.5	0.7	0.4	...	3.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	2.7	5.2	5.4	6.7	9.0	10.1	9.7	8.7	6.8	6.6	2.7	...	73.6

TABLE VI.

RAINFALL FOR THE MONTH OF FEBRUARY, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	0.005	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	0.005	0.015	0.015	1
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	0.010	0.005	0.005	0.015	0.125	0.010	...	0.020	0.005	0.020	...	...	...	...	...	0.005	0.065	0.020	...	...	0.305	8
" 9,	0.005	...	...	...	0.005	...	0.005	0.010	0.005	...	...	...	0.005	...	...	...	0.015	0.040	0.140	0.115	...	0.035	...	0.005	0.385	11
" 10,	0.010	0.005	...	...	...	0.010	...	...	...	0.020	0.005	...	0.005	...	0.015	0.010	0.010	0.005	...	...	...	...	...	...	0.095	9
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	...
" 15,	...	...	...	0.005	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	1
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	0.010	3
" 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.015	0.005	0.005	0.005	0.015	0.020	0.010	0.030	0.130	0.030	0.005	0.025	0.020	0.020	0.015	0.010	0.025	0.045	0.140	0.120	0.065	0.065	0.005	0.010	0.835	37

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF FEBRUARY, 1895.

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,	1	11	1	20	1	22	1	13	32	11	1	14	1	15	1	15	32	8	5	6	5	10	6	13	5	10	21	4	15	3	6	11	8	12	10	13	12	5	8	8	8	10	8	14	6	16	6	16	280	11.7	4
" 2,	6	21	7	24	7	24	7	24	7	28	7	25	7	28	7	27	7	32	7	30	7	30	7	30	7	28	7	28	7	26	7	24	7	25	7	26	8	25	8	26	8	31	7	27	7	28	7	27	644	26.8	7
" 3,	7	28	7	32	7	31	7	28	7	31	7	33	8	29	8	31	8	26	8	27	8	25	8	26	9	24	7	28	7	24	7	25	8	27	8	27	8	27	7	22	8	26	7	22	7	24	7	22	645	26.9	8
" 4,	7	21	7	24	7	24	8	27	8	24	8	26	8	25	8	26	7	23	7	24	7	22	7	24	7	21	7	23	8	23	7	24	8	22	8	24	8	25	8	23	8	21	8	20	5	6	26	13	538	22.4	7
" 5,	24	16	24	15	26	10	22	3	...	1	...	1	22	3	29	4	25	6	3	7	1	10	32	10	32	6	32	9	2	8	32	9	31	8	32	9	32	6	32	6	1	3	31	5	31	4	31	6	165	6.9	30
" 6,	1	7	1	5	2	9	1	10	1	4	1	4	32	7	32	6	32	7	32	6	32	4	13	3	13	3	10	5	23	3	11	6	3	7	1	5	1	4	1	4	1	4	1	5	5	7	5	10	135	5.6	2
" 7,	7	11	6	11	6	13	7	21	7	21	6	19	7	24	7	26	7	30	7	32	7	30	7	28	7	27	7	31	6	31	7	27	7	29	7	23	7	18	7	17	8	23	7	15	8	21	8	23	551	23.0	7
" 8,	7	23	7	22	7	22	7	20	8	22	8	16	9	16	9	13	31	9	9	17	10	17	10	12	10	12	9	15	9	15	9	12	9	12	8	17	8	14	8	10	9	13	10	16	8	18	10	15	378	15.7	8
" 9,	9	20	7	22	7	25	7	30	7	26	7	31	7	31	7	29	7	30	7	31	7	32	7	34	8	33	8	31	8	32	7	29	7	29	7	32	7	22	7	35	5	23	7	28	7	33	7	26	694	28.9	7
" 10,	8	27	9	17	10	16	7	19	8	21	9	22	8	20	10	17	9	16	10	14	10	8	...	1	10	8	9	10	9	7	9	6	9	2	9	6	9	3	26	2	26	2	1	5	31	4	20	4	257	10.7	9
" 11,	1	4	32	7	3	2	3	5	8	6	5	12	6	19	5	14	7	17	7	17	8	21	8	22	7	22	7	27	7	31	7	25	7	27	7	27	7	33	7	28	7	25	7	32	7	28	7	30	482	20.1	7
" 12,	7	34	7	33	7	34	7	35	7	34	7	32	7	28	7	31	7	28	7	28	7	28	7	27	7	27	8	30	8	26	8	27	8	27	8	29	8	27	8	29	8	27	7	23	8	23	8	21	688	28.7	7
" 13,	8	18	8	19	9	19	10	18	9	22	9	21	8	18	9	19	9	19	9	21	8	22	8	21	7	22	8	23	7	21	7	17	8	17	7	11	7	10	8	6	6	7	6	8	6	6	8	7	392	16.3	8
" 14,	8	9	7	7	7	2	5	4	5	5	6	5	6	8	6	7	6	8	6	11	7	9	7	10	6	9	6	4	9	5	14	5	6	10	7	9	6	6	5	6	15	3	6	2	28	3	29	3	150	6.2	7
" 15,	3	4	29	7	...	1	...	0	29	2	29	3	...	1	...	1	...	1	...	0	29	2	29	4	29	4	28	6	23	10	23	13	32	17	32	14	32	15	1	11	3	9	2	16	32	10	1	11	162	6.8	31
" 16,	32	5	1	7	32	10	1	4	3	7	8	2	8	2	7	7	7	19	6	17	4	19	7	21	6	24	6	29	6	39	7	38	7	34	7	33	7	32	7	32	7	36	7	30	7	30	7	31	508	21.2	6
" 17,	7	33	7	36	7	33	7	32	7	26	7	22	7	26	7	33	7	31	7	32	7	31	7	26	8	31	8	20	8	22	8	21	7	19	8	20	8	17	8	19	8	23	8	21	8	24	9	19	617	25.7	7
" 18,	8	23	9	21	9	20	9	18	8	14	8	18	7	20	7	17	7	17	9	14	8	11	8	10	9	10	9	8	9	3	31	3	32	4	32	4	30	6	...	1	30	2	...	1	21	5	23	9	259	10.8	8
" 19,	21	3	32	14	32	11	1	14	2	15	3	14	5	9	7	5	...	1	32	8	32	10	32	8	32	10	1	9	4	7	7	5	7	4	...	1	7	3	7	9	6	5	9	2	9	4	6	8	179	7.5	3
" 20,	3	7	5	14	7	16	6	11	7	17	7	22	7	21	6	17	7	15	8	11	8	14	10	16	9	19	9	19	9	17	9	17	9	14	9	8	7	6	8	10	8	6	9	9	8	8	8	8	322	13.4	8
" 21,	5	6	7	9	5	10	8	6	8	2	...	0	...	0	8	12	7	19	7	21	7	30	7	32	7	36	6	24	7	23	7	24	7	26	6	18	6	16	6	15	7	18	6	17	7	15	7	18	397	16.5	7
" 22,	6	19	6	17	4	17	5	15	7	12	5	12	7	11	7	15	7	18	7	17	7	16	7	14	10	17	9	14	9	16	9	17	8	16	8	16	7	13	8	15	7	9	6	10	6	9	8	10	345	14.4	7
" 23,	9	7	9	4	...	1	...	1	9	3	...	1	9	2	12	3	4	5	8	6	7	17	7	11	26	9	23	12	25	15	22	9	22	6	22	4	22	3	18	3	25	8	23	8	22	6	22	7	151	6.3	23
" 24,	22	6	22	9	26	5	26	5	...	1	..	0	19	2	...	0	...	1	13	5	10	9	11	12	11	13	9	17	10	17	9	22	8	20	8	17	7	14	8	14	7	12	9	7	10	9	10	8	225	9.4	9
" 25,	11	10	11	9	11	8	11	9	10	10	7	11	7	17	7	19	7	23	7	25	7	22	7	27	8	22	8	20	8	19	9	16	8	15	9	17	8	11	8	8	8	7	10	4	10	8	10	11	348	14.5	8
" 26,	10	14	8	16	7	17	9	14	8	14	9	16	7	15	8	22	8	23	7	22	8	22	9	18	9	19	8	23	8	23	8	23	8	24	8	22	10	18	9	15	8	7	10	9	10	9	8	12	417	17.4	8
" 27,	10	16	9	17	10	12	9	17	7	16	7	16	8	19	8	19	8	20	9	24	9	22	8	23	8	19	8	16	8	14	9	12	8	19	8	19	8	17	8	17	8	21	8	20	8	18	7	19	432	18.0	8
" 28,	8	16	8	17	7	15	10	12	7	16	10	13	8	9	10	8	7	10	10	11	8	12	8	12	8	16	7	19	7	20	7	15	7	16	8	16	8	10	8	8	8	10	8	7	8	9	8	6	303	12.6	8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	419	...	455	...	430	...	415	...	411	...	411	...	425	...	443	...	462	...	484	...	505	...	495	...	501	...	504	...	500	...	482	...	488	...	467	...	406	...	399	...	394	...	383	...	385	...	400	10664	444.3	...
Means,	...	15.0	...	16.3	...	15.4	...	14.8	...	14.7	...	14.7	...	15.2	...	15.8	..	16.5	...	17.3	...	18.0	...	17.7	...	17.9	...	18.0	...	17.9	...	17.2	...	17.4	...	16.7	...	14.5	...	14.2	...	14.1	...	13.7	...	13.8	...	14.3	380.9	15.9	...

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
1895.												
Feb. 1, ...	7	cum.	...	4	cum.	N	0	...	...	0	...	...
„ 2, ...	0	...	...	6	cum.	...	10	sm-cum. / cum.	E	9	sm-cum. / str-cum.	WNW / E
„ 3, ...	10	cum.	...	10	cum.	...	10	R-cum.	...	10	str.	...
„ 4, ...	10	cum.	...	10	cum.	...	10	str.	E	10	str.	...
„ 5, ...	10	nim.	...	10	cum.	...	10	str.	...	10	str.	...
„ 6, ...	10	cum.	NW	0	...	...	10	sm-cum. / str-cum.	...	10	str-cum.	WNW
„ 7, ...	10	cum.	ENE	10	cum.	...	10	cum.	E	9	sm-cum. / cum.	W / ENE
„ 8, ...	10	cum.	...	10	cum.	ESE	10	cum-nim.	...	10	nim.	...
„ 9, ...	10	cum.	E	10	cum.	E	10	nim.	E	10	cum-nim.	E
„ 10, ...	10	nim.	SSE	10	cum.	SSE	10	str-cum.	SE	10	nim.	ESE
„ 11, ...	10	cum.	E	10	cum.	...	10	str-cum.	ENE	10	str-cum.	ENE
„ 12, ...	10	cum.	...	10	cum.	...	10	str-cum.	E	10	str-cum.	E
„ 13, ...	10	str-cum.	ESE	10	cum.	ESE	10	str-cum.	E	10	str-cum.	ESE
„ 14, ...	10	str.	...	10	str.	...	10	fog.	...	10	str-cum.	SSW
„ 15, ...	10	str.	...	10	nim.	...	10	fog.	...	10	cum. / fog.	...
„ 16, ...	10	cum.	...	5	cum.	...	1	sm-cum.	...	10	str-cum.	...
„ 17, ...	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	ENE	10	nim.	ENE
„ 18, ...	10	str.	...	10	str.	...	10	sm-cum. / fog.	W / E	10	str-cum.	SSW
„ 19, ...	10	str.	...	0	...	...	8	cum.	...	10	str.	...
„ 20, ...	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	...	9	sm-cum.	WNW
„ 21, ...	10	str.	...	10	str.	...	10	cum.	...	10	str-cum.	...
„ 22, ...	10	str.	...	10	nim.	...	10	cum-nim.	ENE	10	str. / cum.	ENE
„ 23, ...	10	cum.	...	10	cum.	...	10	sm-cum. / cum.	ESE	9	sm-cum.	WNW
„ 24, ...	0	...	...	0	...	...	0	...	...	3	c-cum.	W
„ 25, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 26, ...	0	...	...	10	cum.	...	8	sm-cum. / cum.	W / ESE	2	sm-cum. / cum.	...
„ 27, ...	10	cum.	SE	10	cum.	SE	10	cum.	ESE	9	sm-cum. / cum.	W / ESE
„ 28, ...	10	str-cum.	ESE	10	str-cum.	ESE	10	str-cum.	ESE	9	cum.	ESE
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	8.5	...	...	8.0	...	...	8.5	...	...	8.5	...	...

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	
1895.													
Feb. 1,...	0	...	...	0	...	...	0	...	...	0	...	...	1.4
„ 2,...	5	sm-cum. / str-cum.	WSW / ESE	9	sm-cum. / R-cum.	SE	10	cum.	SE	10	cum.	SE	7.4
„ 3,...	10	sm-cum. / cum.	SE	10	sm-cum. / cum.	SSE	10	cum.	WSW	10	cum.	SSW	10.0
„ 4,...	10	str.	...	10	str.	E	10	str.	E	10	str.	S	10.0
„ 5,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	...	10.0
„ 6,...	10	cum.	WSW	10	cum.	W	10	str-cum.	...	10	cum.	W	8.7
„ 7,...	7	sm-cum. / cum.	SSE	10	cum.	SSW	10	str. / cum.	...	10	cum.	...	9.5
„ 8,...	10	nim.	...	10	cum.	SE	10	nim.	ESE	8	sm-cum. / cum.	W / ..	9.8
„ 9,...	10	cum-nim.	E	10	str-cum.	E	10	nim.	SE	9	nim.	SSE	9.9
„ 10,...	10	cum-nim.	ESE	10	nim.	E	10	nim.	...	10	str-cum.	...	10.0
„ 11,...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	E	9	cum.	E	9.9
„ 12,...	10	str-cum.	E	10	str-cum.	E	10	str-cum.	E	10	str.	...	10.0
„ 13,...	10	sm-cum. / cum.	ESE	7	sm-cum. / cum.	WSW / ESE	8	cum.	...	7	cum.	...	9.0
„ 14,...	7	cum.	SSW	8	cum.	SW	10	cum.	...	10	nim.	...	9.4
„ 15,...	10	cum. / fog.	...	10	nim.	...	9	cum.	...	8	cum.	...	9.6
„ 16,...	10	cum.	E	9	sm-cum. / cum.	E	10	str-cum.	E	10	str-cum.	E	8.1
„ 17,...	10	nim.	E	10	str-cum.	...	10	str.	...	5	cum.	...	9.4
„ 18,...	5	cum.	SSW	5	sm-cum.	W	4	cum.	...	10	fog.	...	8.0
„ 19,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	cum.	...	8.5
„ 20,...	1	cum.	...	10	cum.	NNW	10	str.	...	10	str-cum.	...	8.7
„ 21,...	6	sm-cum.	WNW	10	sm-cum. / cum.	WNW / E	8	cum.	E	10	cum.	E	9.3
„ 22,...	9	cum.	E	10	sm-cum. / cum.	ESE	9	cum.	E	9	cum.	E	9.6
„ 23,...	10	cum.	W	4	cum.	W	1	cum.	...	0	...	...	6.7
„ 24,...	5	c-cum. / cum.	W / ..	4	c-cum.	WSW	2	c-cum.	...	0	...	...	1.8
„ 25,...	6	cum.	SSE	7	sm-cum. / cum.	SSE	3	cum.	...	2	cum.	...	2.2
„ 26,...	1	sm-cum.	...	4	sm-cum.	W	3	cum.	...	7	cum.	...	4.4
„ 27,...	8	sm-cum. / cum.	WSW / E	8	sm-cum. / cum.	W / ESE	9	sm-cum. / cum.	SE	7	cum.	...	8.9
„ 28,...	8	sm-cum. / cum.	W / ESE	8	sm-cum. / cum.	WSW / SE	0	...	...	0	...	...	6.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	7.8	...	...	8.3	...	...	7.7	...	...	7.5	...	...	8.1

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF FEBRUARY, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.0	12.7	0.9	0.8	+ 2.1	+ 11.9	E 10° N
2 „	4.2	13.1	0.7	1.0	3.5	12.1	E 16° N
3 „	4.6	12.5	0.8	0.5	3.8	12.0	E 17° N
4 „	3.6	12.8	1.0	0.3	2.6	12.5	E 12° N
5 „	3.0	13.4	0.3	0.0	2.7	13.4	E 11° N
6 „	3.3	13.4	0.6	0.1	2.7	13.3	E 11° N
7 „	2.8	14.0	0.2	0.1	2.6	13.9	E 11° N
8 „	2.9	14.6	0.6	0.1	2.3	14.5	E 9° N
9 „	3.2	15.0	0.3	0.3	2.9	14.7	E 11° N
10 „	3.1	16.1	1.0	0.0	2.1	16.1	E 7° N
11 „	3.4	16.6	0.6	0.0	2.8	16.6	E 10° N
Noon.	2.9	16.4	0.8	0.1	2.1	16.3	E 7° N
1 p.	2.6	16.3	1.4	0.4	1.2	15.9	E 4° N
2 „	2.6	16.4	0.8	0.7	1.8	15.7	E 7° N
3 „	2.5	16.2	0.9	1.0	1.6	15.2	E 6° N
4 „	2.4	15.6	1.1	0.8	1.3	14.8	E 5° N
5 „	2.9	15.9	0.3	0.2	2.6	15.7	E 10° N
6 „	2.5	15.2	0.4	0.1	2.1	15.1	E 8° N
7 „	2.4	13.1	0.4	0.2	2.0	12.9	E 9° N
8 „	2.1	13.2	0.2	0.1	1.9	13.1	E 8° N
9 „	2.0	13.0	0.2	0.4	1.8	12.6	E 8° N
10 „	2.8	12.2	0.5	0.3	2.3	11.9	E 11° N
11 „	2.4	12.1	0.5	0.5	1.9	11.6	E 9° N
Midt.	2.6	12.1	0.9	1.2	+ 1.7	+ 10.9	E 9° N
Means, ...	2.9	14.2	0.6	0.4	+ 2.27	+ 13.86	E 9° N

PHENOMENA :—

Thick fog :—on the 15th and 18th.

Fog :—on the 14th.

Slight fog :—on the 4th.

Haze :—on the 5th, 13th, 14th, 21st, 23rd, 24th and 27th.

Dew :—on the 23rd and 24th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MARCH, 1895.

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,...	29.888	29.964	29.960	29.943	29.954	29.961	29.970	29.987	30.006	30.019	29.992	29.978	29.954	29.924	29.911	29.912	29.910	29.923	29.940	29.965	29.981	30.000	30.026	30.029	29.962
„ 2,...	30.038	30.035	30.018	30.018	30.014	30.047	30.056	30.086	.088	.109	30.098	30.069	30.042	30.022	30.012	30.025	30.045	30.067	30.083	30.112	30.129	.132	.130	.150	30.068
„ 3,...	.149	.147	.135	.140	.151	.158	.178	.203	.221	.212	.203	.172	.137	.108	.088	.086	.092	.100	.103	.108	.126	.132	.138	.131	.142
„ 4,...	.119	.105	.109	.108	.131	.161	.153	.169	.161	.166	.169	.151	.117	.094	.083	.074	.070	.080	.089	.099	.110	.106	.112	.116	.119
„ 5,...	.108	.101	.096	.082	.080	.093	.117	.107	.112	.100	.108	.079	.049	.024	29.997	29.989	29.995	.000	.009	.033	.045	.060	.061	.045	.062
„ 6,...	.025	.005	29.989	29.981	29.978	29.987	.004	.023	.019	.022	.010	29.970	29.944	29.905	.885	.880	.880	29.885	29.892	29.910	29.930	29.941	29.933	29.912	29.955
„ 7,...	29.880	29.858	.852	.841	.848	.875	29.878	29.903	29.963	29.937	29.908	.878	.846	.834	.805	.803	.826	.826	.850	.873	.883	.900	.902	.904	.870
„ 8,...	.871	.860	.843	.832	.842	.868	.855	.865	.863	.908	.868	.863	.832	.813	.794	.770	.776	.794	.806	.820	.826	.839	.839	.834	.837
„ 9,...	.840	.829	.832	.829	.842	.850	.860	.875	.901	.898	.882	.867	.845	.821	.806	.796	.806	.807	.839	.855	.874	.883	.885	.893	.851
„ 10,...	.890	.880	.873	.857	.874	.894	.913	.924	.936	.946	.947	.897	.864	.847	.830	.818	.820	.834	.845	.871	.895	.893	.879	.880	.879
„ 11,...	.879	.863	.845	.848	.857	.865	.881	.902	.920	.923	.922	.902	.881	.847	.823	.813	.808	.807	.826	.845	.863	.870	.868	.862	.863
„ 12,...	.845	.833	.812	.808	.821	.840	.858	.869	.885	.886	.877	.852	.827	.792	.773	.768	.764	.768	.780	.795	.808	.804	.801	.800	.819
„ 13,...	.771	.755	.732	.722	.719	.731	.753	.782	.790	.788	.778	.752	.718	.689	.676	.662	.660	.666	.674	.684	.707	.693	.691	.685	.720
„ 14,...	.675	.673	.645	.638	.647	.661	.688	.702	.716	.722	.720	.715	.690	.666	.658	.650	.651	.673	.688	.706	.717	.732	.736	.739	.688
„ 15,...	.724	.709	.705	.708	.717	.735	.768	.789	.803	.804	.810	.790	.771	.757	.742	.732	.754	.762	.781	.806	.827	.843	.848	.851	.772
„ 16,...	.856	.850	.848	.871	.876	.908	.949	.969	.985	.998	.998	.982	.953	.939	.937	.935	.962	.991	30.015	30.055	30.075	30.100	30.111	30.121	.970
„ 17,...	30.127	30.124	30.126	30.132	30.138	30.154	30.190	30.204	30.227	30.240	30.225	30.205	30.178	30.161	30.134	30.131	30.152	30.154	.173	.183	.200	.200	.186	.182	30.172
„ 18,...	.164	.151	.177	.124	.121	.144	.170	.188	.194	.192	.184	.150	.121	.085	.067	.070	.070	.073	.087	.108	.112	.114	.111	.106	.128
„ 19,...	.099	.095	.079	.075	.084	.101	.131	.152	.163	.159	.145	.115	.083	.045	.021	.012	.009	.023	.033	.058	.070	.082	.082	.074	.083
„ 20,...	.066	.045	.031	.035	.037	.055	.077	.100	.102	.100	.088	.041	.013	29.983	29.958	29.954	29.962	29.975	29.998	.013	.034	.044	.041	.046	.033
„ 21,...	.045	.035	.033	.036	.045	.065	.084	.102	.110	.105	.094	.066	.037	30.001	.980	.971	.972	.982	.988	.010	.031	.039	.031	.015	.037
„ 22,...	29.993	29.978	29.973	29.982	29.994	.014	.034	.056	.073	.070	.067	.040	.008	29.986	.972	.954	.975	.985	.994	.008	.017	.015	.004	29.980	.007
„ 23,...	.953	.932	.917	.910	.920	29.923	29.939	29.957	29.961	29.958	29.941	29.931	29.889	.860	.848	.828	.831	.832	.839	29.860	29.868	29.858	29.854	.851	29.894
„ 24,...	.837	.830	.818	.817	.830	.856	.869	.879	.898	.893	.892	.881	.852	.820	.794	.780	.782	.789	.808	.824	.844	.858	.855	.843	.840
„ 25,...	.830	.813	.803	.794	.801	.813	.828	.839	.853	.858	.840	.818	.800	.766	.742	.727	.736	.742	.763	.789	.803	.814	.798	.790	.798
„ 26,...	.787	.781	.765	.753	.758	.782	.806	.828	.846	.830	.821	.801	.788	.768	.739	.728	.723	.722	.730	.754	.765	.770	.772	.774	.775
„ 27,...	.766	.752	.740	.732	.742	.762	.785	.803	.818	.828	.829	.803	.772	.750	.726	.718	.713	.719	.727	.746	.767	.774	.771	.780	.763
„ 28,...	.768	.763	.768	.769	.785	.802	.856	.900	.942	.974	.970	.963	.960	.948	.935	.972	30.014	.994	30.052	30.084	30.081	30.095	30.117	30.110	.943
„ 29,...	30.109	30.106	30.076	30.063	30.073	30.085	30.107	30.120	30.141	30.151	30.148	30.128	30.100	30.069	30.040	30.040	.036	30.066	.082	.105	.133	.141	.155	.145	30.101
„ 30,...	.134	.126	.096	.103	.110	.129	.153	.178	.178	.151	.164	.155	.125	.100	.078	.082	.071	.093	.122	.127	.130	.131	.134	.113	.124
„ 31,...	.096	.071	.076	.075	.070	.071	.087	.116	.127	.122	.110	.090	.056	.029	.011	29.995	29.986	29.988	.001	.011	.028	.036	.033	.018	.054
Means,.....	29.946	29.938	29.928	29.923	29.931	29.948	29.968	29.986	30.000	30.002	29.994	29.971	29.944	29.918	29.899	29.893	29.898	29.907	29.923	29.942	29.957	29.964	29.965	29.961	29.946

TABLE II.

TEMPERATURE FOR THE MONTH OF MARCH, 1895.

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,	65.6	65.2	64.9	65.1	65.0	65.0	65.8	67.0	69.0	71.5	73.0	75.4	76.6	76.5	74.9	72.8	70.0	68.3	67.6	67.7	67.5	68.1	64.7	63.2	68.8	78.3	63.2
„ 2,	60.9	59.5	60.3	60.1	59.6	57.4	57.4	58.7	61.7	63.1	64.9	66.2	67.9	68.0	67.5	67.0	66.5	62.7	62.6	61.8	60.2	58.8	57.3	57.4	62.0	68.6	57.3
„ 3,	56.2	55.1	53.9	54.3	52.2	51.5	51.7	53.7	54.9	57.8	60.0	61.6	62.2	62.0	60.5	59.6	58.2	57.2	57.0	56.6	56.2	55.8	57.0	56.8	56.7	62.9	51.5
„ 4,	56.7	56.5	56.5	56.3	56.6	56.5	55.7	57.8	58.5	58.7	60.1	60.8	61.6	61.7	61.8	61.3	60.2	59.2	58.6	58.4	58.2	58.1	58.3	58.9	58.6	62.2	55.4
„ 5,	59.6	59.4	59.1	58.6	58.6	58.6	59.3	61.6	62.1	63.1	65.0	66.5	65.3	64.4	65.2	63.1	62.6	61.6	61.7	61.8	61.6	61.5	61.4	62.0	61.8	66.6	57.8
„ 6,	61.6	61.3	62.0	61.8	61.5	61.2	62.2	63.6	66.5	67.4	67.3	66.7	66.5	66.2	66.1	66.0	64.3	63.6	63.0	62.8	63.5	63.8	63.6	63.6	64.0	67.6	61.0
„ 7,	63.7	63.6	63.5	63.5	63.5	63.6	63.8	64.6	67.7	64.8	65.0	66.4	66.9	67.2	67.0	67.2	66.6	65.8	66.1	65.8	65.6	65.6	65.6	65.8	65.4	68.1	63.1
„ 8,	65.8	65.8	65.9	66.0	66.6	66.8	67.1	67.8	69.0	68.0	69.3	69.1	70.3	69.0	69.0	68.1	67.4	66.6	66.2	66.6	65.8	66.0	66.0	65.7	67.2	71.0	65.1
„ 9,	65.6	65.5	65.4	65.2	64.9	64.7	64.6	65.3	66.6	67.2	67.1	67.0	69.4	70.5	71.3	70.8	70.0	67.7	67.2	67.4	64.6	63.8	62.6	62.5	66.5	72.0	62.5
„ 10,	63.4	63.5	63.2	63.2	62.9	62.6	61.7	61.9	61.5	62.4	62.2	64.6	64.7	64.5	64.2	64.4	63.0	62.8	62.7	63.4	62.7	62.4	61.9	61.7	63.0	65.3	61.0
„ 11,	61.3	61.2	61.3	61.4	61.6	61.4	62.4	63.6	64.5	66.2	65.0	64.8	65.3	66.8	65.7	65.4	64.2	64.8	65.6	65.9	65.1	65.4	65.4	65.4	64.2	67.3	60.6
„ 12,	65.6	65.7	65.8	65.6	65.7	65.6	65.6	65.6	66.8	67.8	68.7	68.8	68.7	69.5	71.0	70.3	69.0	68.3	68.3	68.7	68.8	68.9	67.8	68.3	67.7	71.8	64.8
„ 13,	69.5	68.8	69.2	69.3	68.2	68.2	68.7	69.6	72.2	74.2	75.6	76.3	78.5	78.4	77.0	76.0	74.0	73.8	73.1	73.4	71.0	70.9	70.9	71.5	72.4	79.1	68.2
„ 14,	72.1	72.2	70.8	71.9	71.8	71.9	73.1	73.0	72.9	75.4	76.0	75.5	74.3	74.6	74.5	75.2	75.0	72.9	73.4	71.6	71.3	71.6	71.2	70.8	73.0	76.4	69.7
„ 15,	70.8	70.5	70.7	70.8	71.1	71.6	72.5	72.2	73.5	73.8	73.4	74.3	69.0	65.3	65.0	64.9	64.8	64.7	64.5	63.4	63.2	63.5	63.7	63.6	68.4	74.4	62.6
„ 16,	63.1	63.1	62.6	62.5	62.8	62.0	61.0	61.6	61.7	60.7	62.6	62.0	62.2	60.0	60.1	58.9	58.0	54.9	53.2	53.1	51.8	50.6	49.8	49.6	58.7	64.0	49.6
„ 17,	48.5	47.9	47.5	47.7	47.9	47.9	47.5	47.7	47.6	48.0	49.8	49.7	51.8	50.6	50.9	50.6	49.4	48.5	48.1	49.0	49.1	49.4	49.3	49.8	48.9	52.4	47.4
„ 18,	49.3	48.6	49.7	49.9	50.5	50.8	50.7	50.7	51.3	52.0	54.0	54.1	55.4	56.2	57.2	56.7	56.0	55.1	54.7	54.6	54.0	53.9	54.3	55.3	53.1	57.4	48.6
„ 19,	55.5	55.6	55.6	54.7	54.3	53.6	53.9	53.8	55.3	56.3	58.3	58.6	59.4	61.5	59.4	58.4	57.8	56.6	56.4	56.2	55.8	55.4	55.3	55.1	56.4	61.5	53.6
„ 20,	54.4	54.0	54.1	54.6	54.7	54.4	54.7	55.6	57.7	59.4	61.1	61.6	61.2	61.3	61.0	61.1	60.0	59.4	59.3	59.6	60.0	60.4	60.6	60.6	58.4	62.6	54.0
„ 21,	60.3	60.3	60.0	59.4	57.7	57.8	58.1	58.3	59.2	61.3	64.3	65.8	67.1	67.7	67.2	65.4	65.0	63.8	63.9	63.7	61.8	60.9	59.5	58.1	61.9	68.6	57.4
„ 22,	57.5	57.2	56.2	56.1	56.1	56.3	57.6	60.1	61.7	62.2	62.1	62.4	62.0	61.9	62.1	62.0	61.0	60.6	60.4	60.5	60.7	60.3	60.2	60.2	59.9	62.6	56.1
„ 23,	59.8	59.8	59.6	59.5	59.4	59.6	60.3	61.9	63.1	66.1	65.8	66.4	65.6	64.7	64.7	64.0	63.0	62.1	61.9	62.2	62.1	62.3	62.3	62.9	62.5	67.4	59.1
„ 24,	62.8	62.4	62.5	62.6	62.6	62.7	63.2	63.6	66.5	67.2	70.3	69.7	71.0	69.1	70.0	67.8	66.8	66.0	65.3	65.0	64.8	65.3	65.6	65.9	65.8	71.8	62.4
„ 25,	66.0	66.5	66.1	66.3	66.2	66.1	66.7	68.0	70.7	70.4	70.7	72.4	71.0	70.0	69.9	70.8	69.8	68.5	67.9	68.0	67.9	67.7	67.6	66.8	68.4	72.6	65.3
„ 26,	67.2	67.7	67.1	67.2	67.3	67.5	66.7	68.0	68.7	68.1	69.8	71.1	72.5	72.8	71.8	71.8	71.2	71.0	70.1	70.8	70.7	70.6	71.0	70.6	69.6	72.8	66.5
„ 27,	70.4	70.0	69.8	69.7	70.4	71.1	70.6	71.6	71.3	70.8	70.1	74.5	75.2	78.1	78.0	76.3	72.5	71.0	71.2	70.9	70.6	72.0	71.7	72.9	72.1	79.4	68.8
„ 28,	72.4	72.0	70.8	70.0	70.1	70.0	65.0	62.9	58.5	58.8	58.7	60.9	61.6	60.2	59.2	55.7	55.1	53.3	53.1	53.0	52.2	51.4	51.1	50.1	60.3	73.3	50.1
„ 29,	49.5	48.1	49.6	49.6	50.4	50.8	51.5	55.3	56.9	56.9	60.2	59.5	61.4	60.6	60.1	60.2	60.0	59.1	58.8	58.7	58.9	59.5	59.8	60.0	56.5	61.4	48.1
„ 30,	60.0	59.1	58.6	58.2	58.1	58.7	58.4	58.8	59.5	60.9	63.4	62.3	62.0	61.9	62.1	62.0	61.5	61.7	62.0	62.6	62.7	62.5	62.6	62.6	60.9	63.4	57.7
„ 31,	62.2	61.8	61.4	60.9	60.7	60.7	61.3	62.1	62.3	62.3	63.2	64.6	64.8	64.7	64.6	64.6	64.4	63.6	63.7	64.0	63.8	64.3	64.2	64.5	63.1	65.8	60.1
Means,	61.8	61.5	61.4	61.4	61.3	61.2	61.3	62.1	63.2	64.0	65.1	65.8	66.2	66.0	65.8	65.1	64.1	63.1	62.8	62.8	62.4	62.3	62.0	62.0	63.1	68.0	59.0

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF MARCH, 1895.

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, ...	64.3	64.3	64.4	64.5	64.5	64.4	64.7	65.0	65.9	65.8	66.1	66.9	67.8	67.7	67.6	66.1	65.4	64.7	64.3	64.4	64.6	64.7	60.0	58.0	64.8	133.5
„ 2, ...	55.9	54.0	52.8	50.7	51.4	50.6	50.0	50.0	49.9	51.2	52.1	51.9	52.0	52.0	51.6	52.0	52.0	49.7	49.3	48.4	47.0	45.9	45.2	44.9	50.4	127.1
„ 3, ...	45.0	45.0	43.9	43.6	43.2	42.6	41.9	44.1	44.6	45.4	47.0	46.9	47.3	49.8	48.8	49.0	48.1	47.4	47.6	47.3	47.8	50.7	50.9	51.7	46.6	118.8
„ 4, ...	52.0	52.3	52.2	52.0	52.0	51.8	51.1	52.1	51.5	53.1	53.2	53.7	53.3	52.3	51.6	53.1	53.0	53.2	53.7	54.3	54.6	54.8	55.3	55.8	53.0	117.7
„ 5, ...	56.4	56.0	55.2	55.1	55.5	55.6	55.6	56.7	57.0	58.2	58.9	59.4	59.2	58.9	59.3	58.6	58.1	58.2	58.6	59.2	59.1	59.2	59.4	59.7	57.8	121.5
„ 6, ...	59.5	59.4	59.7	59.4	59.1	58.9	59.4	60.0	60.9	62.0	61.9	61.8	61.7	62.0	61.9	61.8	61.1	60.8	60.6	60.5	61.6	62.0	62.0	62.2	60.8	124.5
„ 7, ...	62.4	62.2	62.4	62.4	62.4	62.5	62.6	62.7	64.0	63.1	63.4	64.0	64.1	64.0	63.8	64.1	63.6	63.3	63.2	62.9	63.2	63.5	63.0	63.1	63.2	123.4
„ 8, ...	63.1	63.1	63.3	63.7	64.0	64.2	64.3	64.9	65.4	64.8	65.6	65.4	66.3	65.9	66.0	65.4	64.9	64.6	64.4	64.9	64.2	64.9	65.1	64.8	64.7	126.2
„ 9, ...	64.8	64.7	64.6	64.4	64.4	64.1	63.7	64.2	64.7	64.9	65.1	65.8	65.7	65.9	65.6	66.3	65.5	64.5	64.3	64.4	63.8	62.8	62.1	62.0	64.5	126.0
„ 10, ...	62.1	62.1	61.9	62.0	60.8	60.3	60.2	60.7	60.3	60.3	60.0	61.4	61.6	61.4	61.5	61.4	60.1	61.2	61.0	61.2	61.4	61.1	60.9	60.7	61.1	106.0
„ 11, ...	60.1	60.0	60.2	60.1	60.1	60.4	60.9	61.6	62.6	64.0	63.0	63.9	63.2	63.9	63.3	63.4	62.8	63.6	64.4	64.6	64.2	64.6	64.5	65.2	62.7	109.5
„ 12, ...	65.0	65.2	65.4	65.1	65.3	65.2	65.3	65.2	66.2	66.4	67.0	67.1	67.2	67.7	68.5	68.3	67.8	67.9	68.0	68.2	68.5	68.3	67.7	67.9	66.9	120.6
„ 13, ...	68.0	67.8	68.0	68.1	67.6	67.6	68.1	68.3	69.1	70.2	70.6	71.1	71.7	71.6	71.3	70.6	69.9	69.4	69.8	70.0	69.2	69.3	69.1	69.9	69.4	138.5
„ 14, ...	69.9	70.3	69.5	70.2	70.1	70.2	71.2	71.0	70.9	72.2	72.6	72.3	72.2	72.0	72.2	72.3	72.2	71.1	71.4	70.7	70.4	70.5	70.4	70.3	71.1	97.0
„ 15, ...	70.4	70.2	70.1	70.8	70.6	70.9	71.6	71.6	72.2	72.5	72.2	72.7	68.0	64.7	64.0	64.3	63.8	63.6	63.4	62.8	62.6	62.7	62.9	62.8	67.6	94.8
„ 16, ...	62.6	62.3	61.4	61.1	60.5	60.4	60.1	59.6	59.6	59.8	59.7	59.8	60.0	57.8	57.9	56.0	55.3	52.0	50.9	50.6	49.2	47.8	46.8	46.1	56.6	74.0
„ 17, ...	44.8	44.4	43.9	43.5	43.5	43.7	43.8	43.6	43.8	45.0	46.0	45.6	45.2	46.2	46.5	46.5	44.8	44.6	45.4	46.2	46.0	46.4	46.2	46.6	45.1	82.8
„ 18, ...	46.1	45.8	46.6	47.0	46.8	47.7	47.0	47.1	47.1	47.8	48.9	49.0	50.5	50.7	51.7	51.0	50.9	50.4	50.8	51.0	50.4	50.5	50.9	51.4	49.0	83.2
„ 19, ...	51.8	52.3	51.8	51.2	51.6	51.0	50.7	50.1	51.4	52.1	53.6	53.5	53.6	56.4	54.8	53.1	52.6	51.8	52.0	51.9	51.4	51.3	51.9	51.7	52.2	91.5
„ 20, ...	52.0	52.3	52.4	52.3	52.3	52.0	52.0	52.6	53.7	54.9	55.6	55.9	56.2	56.0	56.2	57.0	55.9	55.8	56.0	56.1	56.2	56.7	56.7	57.0	54.7	119.4
„ 21, ...	57.2	57.0	57.0	57.4	56.0	56.2	56.2	56.1	56.7	57.5	58.2	58.9	59.3	60.6	60.1	59.8	59.2	58.6	58.5	57.7	55.6	54.1	53.0	52.0	57.2	124.2
„ 22, ...	51.1	50.8	50.7	51.1	51.4	51.4	51.5	52.7	54.4	55.2	56.2	56.1	55.3	55.7	55.7	56.6	55.9	55.8	56.3	56.6	56.8	56.2	56.4	56.8	54.4	98.9
„ 23, ...	56.7	57.0	57.0	56.6	56.5	56.2	56.1	57.3	58.0	60.4	60.1	60.8	59.6	59.3	59.6	59.1	59.2	59.6	59.7	60.4	60.5	60.6	60.7	60.7	58.8	124.8
„ 24, ...	60.6	60.5	60.4	60.5	60.2	60.4	60.6	60.8	61.9	62.9	63.2	63.8	64.7	64.0	64.2	63.8	63.0	63.1	62.7	62.9	63.2	63.4	63.6	63.8	62.4	136.7
„ 25, ...	64.2	64.7	64.8	65.0	64.8	64.9	65.4	65.9	67.2	66.8	66.8	66.5	67.1	66.7	66.8	67.2	67.0	66.6	66.5	66.7	66.9	66.8	67.0	66.5	66.2	128.8
„ 26, ...	67.0	67.3	67.0	67.0	67.2	67.3	66.6	67.7	68.5	67.9	69.4	69.6	69.9	70.0	69.8	69.8	69.5	69.6	69.3	69.7	69.3	69.4	69.5	69.3	68.6	124.6
„ 27, ...	69.0	69.0	69.2	69.4	69.5	69.6	69.9	70.3	70.2	69.6	69.7	71.6	71.6	72.0	70.2	71.9	70.6	69.5	70.0	69.7	69.6	70.6	70.5	71.0	70.2	135.8
„ 28, ...	70.9	71.0	70.7	69.7	70.0	69.9	63.1	59.8	56.1	54.4	52.6	53.7	52.7	52.0	50.8	50.8	48.3	47.4	47.5	47.1	45.4	45.0	44.9	45.2	55.8	89.0
„ 29, ...	44.8	45.0	44.8	44.7	45.0	44.1	46.2	50.0	50.1	50.1	54.0	52.4	53.3	52.6	52.0	53.7	53.3	53.6	53.2	53.6	53.8	54.0	54.3	54.5	50.5	117.1
„ 30, ...	54.6	54.2	54.4	54.3	54.2	54.1	54.3	54.4	54.6	55.4	54.9	56.3	55.8	56.0	55.9	54.7	54.9	55.0	55.2	57.5	57.2	56.9	56.9	56.4	55.3	120.5
„ 31, ...	56.5	56.7	56.4	56.1	55.1	54.0	54.7	55.4	54.8	55.8	56.9	57.6	58.1	57.7	58.2	57.6	58.0	57.9	59.1	59.5	60.0	60.8	60.4	60.5	57.4	122.7
Means, ...	59.0	58.9	58.8	58.7	58.6	58.5	58.3	58.8	59.1	59.7	60.1	60.5	60.5	60.4	60.2	60.2	59.6	59.2	59.3	59.4	59.2	59.2	59.0	59.0	59.3	114.8

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MARCH, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	83	0.478	Mar. 1,.....	80	0.561
2 „	84	.479	„ 2,.....	38	.214
3 „	84	.477	„ 3,.....	40	.186
4 „	84	.473	„ 4,.....	67	.330
5 „	84	.472	„ 5,.....	77	.427
6 „	83	.471	„ 6,.....	83	.490
7 „	81	.463	„ 7,.....	88	.552
8 „	80	.467	„ 8,.....	87	.579
9 „	77	.462	„ 9,.....	89	.581
10 „	76	.470	„ 10,.....	89	.515
11 „	72	.469	„ 11,.....	92	.551
Noon.	71	.472	„ 12,.....	96	.650
1 p.	69	.467	„ 13,.....	85	.680
2 „	69	.466	„ 14,.....	90	.737
3 „	69	.462	„ 15,.....	96	.667
4 „	72	.472	„ 16,.....	88	.432
5 „	75	.466	„ 17,.....	72	.252
6 „	77	.467	„ 18,.....	72	.296
7 „	79	.474	„ 19,.....	74	.337
8 „	79	.477	„ 20,.....	78	.381
9 „	81	.476	„ 21,.....	74	.408
10 „	81	.477	„ 22,.....	68	.352
11 „	82	.475	„ 23,.....	79	.449
Midt.	82	.475	„ 24,.....	82	.519
			„ 25,.....	89	.616
			„ 26,.....	95	.687
			„ 27,.....	90	.715
			„ 28,.....	74	.387
			„ 29,.....	63	.289
			„ 30,.....	68	.365
			„ 31,.....	68	.398
Means,.....	78	0.471	Means.	78	0.471

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.
1895.														
Mar. 1,.....	...	0.1	0.8	1.0	0.9	0.9	1.0	0.9	1.0	0.9	0.4	...	...	7.9
„ 2,.....	...	0.1	0.1	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	8.8
„ 3,.....	...	0.1	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.0
„ 4.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.1
„ 5.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	10.0
„ 6, ...	...	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	8.9
„ 7,.....	...	...	...	...	...	...	0.4	0.4	0.3	0.8	0.6	...	...	2.5
„ 8,.....	...	...	...	0.1	...	0.2	...	0.6	0.3	0.2	0.3	...	...	1.7
„ 9,.....	...	...	...	...	0.1	0.9	0.8	0.9	0.6	0.8	0.6	...	...	4.7
„ 10,.....	...	...	...	...	...	...	...	...	...	0.1	0.1	...	...	0.2
„ 11,.....	...	...	...	...	...	...	...	...	0.1	...	...	...	...	0.1
„ 12,.....	...	...	...	...	0.1	0.1	...	...	0.2	0.1	0.4	0.3	...	1.2
„ 13,.....	...	...	...	...	0.1	0.1	0.4	0.8	0.9	0.8	0.9	0.3	...	4.3
„ 14,.....	...	...	...	..	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17.....	...	...	..	...	...	...	...	...	...	...	...	...	...	...
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	...	...	...	0.9	0.8	1.0	1.0	0.4	0.6	0.1	...	4.8
„ 21.....	...	...	...	...	0.2	0.9	1.0	1.0	1.0	1.0	1.0	0.7	...	6.8
„ 22,.....	...	...	0.1	0.1	...	...	...	...	...	0.1	...	...	...	0.3
„ 23,.....	...	0.2	1.0	1.0	1.0	0.7	0.9	1.0	0.3	0.7	0.1	...	...	6.9
„ 24,.....	...	...	0.2	1.0	0.9	1.0	0.9	0.6	0.7	0.5	0.2	...	...	6.0
„ 25,.....	...	0.3	1.0	0.8	0.5	0.1	0.2	0.5	...	0.5	0.8	0.1	...	4.8
„ 26,.....	...	...	...	...	...	...	0.1	0.5	0.5	0.8	0.6	...	...	2.5
„ 27,.....	...	...	...	...	...	...	0.3	1.0	1.0	1.0	0.8	0.3	...	4.4
„ 28.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	0.5	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	10.1
„ 30,.....	...	...	...	...	0.7	0.3	...	...	...	...	...	...	...	1.0
„ 31,.....	...	...	...	...	...	...	1.0	1.0	1.0	0.8	1.0	0.2	...	5.0
Sums,.....	...	2.3	7.1	9.9	10.5	12.1	13.8	16.2	14.9	15.5	14.4	5.3	...	122.0

TABLE VI.

RAINFALL FOR THE MONTH OF MARCH, 1895.

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.
Mar. 1,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,	0.010	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	0.010	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...
„ 11,	...	...	...	0.005	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	7
„ 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	0.005	0.065	0.015	0.005	0.005	0.030	0.040	0.010	0.070	0.030	0.005	0.005	0.075	0.015	...	...	...	...	...	0.375	20
„ 16,	0.025	...	...	...	...	...	0.020	...	0.005	0.020	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	0.075	8
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	0.005	0.020	0.685	0.110	0.010	0.005	...	...	...	...	0.015	...	...	...	...	...	...	0.005	0.015	0.870	7
„ 29	0.005	0.005	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	2
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.040	0.005	...	0.010	0.005	0.020	0.105	0.710	0.130	0.035	0.040	0.040	0.010	0.070	0.030	0.020	0.005	0.075	0.015	...	...	...	0.005	0.020	1.390	46

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MARCH, 1895.

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	7	6	8	9	9	10	9	11	9	9	9	10	9	13	9	13	8	12	7	8	7	9	9	4	21	8	25	6	26	9	25	10	26	8	26	8	26	7	25	4	25	5	24	7	2	17	2	10	213	8.9	6
" 2	31	16	5	16	31	8	1	19	3	16	3	8	1	16	32	14	1	14	32	17	31	13	31	19	32	16	32	16	32	17	32	17	32	15	32	16	32	16	32	20	32	23	32	23	32	33	32	24	412	17.2	32
" 3	32	19	32	15	32	33	1	26	1	29	32	24	1	21	32	12	1	14	1	12	7	9	8	12	11	15	10	11	10	11	9	16	9	13	9	13	7	10	5	9	5	8	7	11	6	12	6	16	371	15.5	4
" 4	7	21	7	20	6	21	6	20	5	16	5	16	6	15	4	16	8	23	7	22	9	24	9	21	10	19	11	19	11	17	10	19	10	19	10	16	6	11	6	9	7	7	7	9	7	9	6	14	403	16.8	8
" 5	6	8	6	9	8	15	7	12	8	16	7	13	7	14	8	18	7	18	9	22	7	16	7	17	7	18	8	18	8	20	9	21	9	18	8	14	8	8	8	7	8	7	8	4	8	7	10	7	327	13.6	8
" 6	10	6	10	6	10	11	8	12	7	9	7	9	9	9	8	12	9	9	8	15	7	16	8	19	7	21	7	21	8	18	9	16	8	15	8	16	7	16	7	13	8	10	8	6	7	4	7	10	299	12.5	8
" 7	7	9	9	11	7	13	8	11	8	14	7	18	7	17	8	12	7	6	9	14	8	19	8	17	8	20	8	13	7	20	7	21	7	16	8	20	7	17	6	17	7	19	7	14	8	16	9	14	368	15.3	8
" 8	8	16	8	18	9	19	8	15	8	14	8	11	8	22	8	18	7	15	8	10	8	19	10	15	8	15	7	12	7	14	7	16	7	15	7	9	7	9	8	9	7	11	7	12	8	8	7	8	330	13.7	8
" 9	8	7	9	5	9	3	...	1	...	0	...	1	9	7	9	11	9	5	9	5	9	14	8	13	9	14	8	7	5	4	25	6	27	6	8	5	9	15	10	14	7	20	7	18	7	17	8	15	213	8.9	8
" 10	9	13	10	14	7	13	7	14	3	4	7	11	9	11	7	14	7	16	8	14	7	16	7	23	7	20	7	19	7	21	7	23	7	27	7	24	7	27	7	23	6	23	7	24	7	27	7	24	445	18.5	1
" 11	6	26	7	24	7	20	7	27	7	28	7	30	7	25	7	22	7	21	7	18	5	22	7	21	7	18	7	19	7	18	8	18	8	20	9	16	9	17	9	17	7	13	7	13	8	13	7	11	487	20.3	7
" 12	8	14	8	17	8	14	7	13	6	10	6	13	7	13	7	17	7	17	7	17	7	17	7	18	7	18	8	18	10	14	9	12	8	10	9	13	8	13	7	11	6	6	6	6	7	8	7	5	314	13.1	7
" 13	10	5	9	5	7	4	7	4	7	10	8	9	8	8	8	4	8	4	15	6	16	10	16	11	16	13	15	11	16	11	16	13	15	8	14	8	14	8	15	7	8	9	7	7	6	7	13	7	189	7.9	12
" 14	15	7	14	8	6	8	6	7	9	5	7	5	17	4	10	6	10	6	16	6	15	6	12	6	15	5	16	9	17	10	16	9	13	6	11	6	7	7	7	9	7	11	6	8	8	8	7	10	172	7.2	11
" 15	6	11	7	10	7	12	6	10	7	7	7	6	14	7	15	3	15	7	16	9	16	9	16	11	28	16	26	13	22	3	25	11	23	11	26	9	25	7	27	7	24	6	24	6	22	5	22	5	201	8.4	22
" 16	22	8	8	19	8	22	7	18	7	18	7	17	8	17	7	19	7	17	8	12	6	7	7	11	4	6	25	8	1	4	2	5	2	9	32	14	32	13	1	7	32	15	32	16	32	12	31	12	306	12.8	5
" 17	32	17	31	10	31	8	1	8	32	12	3	6	31	7	3	8	3	12	14	5	30	4	3	6	2	8	2	9	2	12	1	8	32	13	1	12	32	10	31	5	32	9	1	6	32	4	1	8	207	8.6	1
" 18	32	7	32	9	2	6	2	7	3	10	4	5	4	3	4	3	4	3	1	3	2	6	1	6	5	4	1	5	32	3	32	5	1	4	1	6	1	8	1	2	1	7	1	2	1	2	1	4	120	5.0	2
" 19	4	4	..	1	5	4	1	6	1	2	1	3	1	3	1	5	1	3	32	3	28	3	24	6	1	8	1	4	26	7	1	7	1	8	32	4	32	4	32	4	32	5	2	3	...	0	2	4	101	4.2	32
" 20	...	1	...	1	...	1	4	5	4	8	5	11	5	11	5	12	7	13	7	17	7	13	8	20	8	19	9	18	9	22	8	20	8	18	8	16	7	11	7	12	6	11	7	12	6	12	6	12	296	12.3	1
" 21	6	11	5	11	6	7	7	6	29	10	29	6	27	7	27	8	27	10	25	9	21	11	24	13	21	17	22	18	26	20	21	18	25	19	25	14	24	11	32	8	32	12	2	10	1	8	1	7	271	11.3	27
" 22	1	11	2	8	32	8	32	2	32	2	32	4	1	4	...	0	1	3	7	13	7	15	6	15	7	18	7	16	8	15	8	18	9	15	8	13	8	13	8	12	8	12	6	11	8	10	7	12	250	10.4	7
" 23	6	14	6	12	7	12	7	12	7	12	7	13	7	15	7	17	8	18	9	15	8	19	9	17	9	18	8	21	7	20	7	17	7	16	8	14	7	12	8	7	8	9	8	10	7	11	7	8	339	14.1	8
" 24	7	8	7	6	9	9	9	11	9	9	9	7	10	9	8	15	6	13	7	14	7	13	8	12	9	11	8	14	7	12	8	17	7	19	7	18	7	17	8	17	7	17	8	14	9	15	9	15	312	13.0	8
" 25	8	11	9	8	8	7	9	9	8	13	7	13	8	14	8	15	9	14	8	15	8	19	8	23	8	21	7	18	8	18	8	21	8	17	8	14	8	13	8	12	8	16	8	15	10	17	8	14	357	14.9	8
" 26	8	15	7	14	7	10	8	18	8	17	8	18	7	17	7	14	6	12	7	14	7	14	7	13	7	11	9	12	7	12	7	11	7	14	5	15	5	14	5	11	6	16	6	11	7	7	7	8	318	13.2	7
" 27	9	10	7	11	8	14	7	13	7	10	6	8	7	11	7	9	7	10	7	10	8	11	14	11	9	10	13	11	9	13	13	10	9	13	11	10	11	8	9	9	8	10	15	5	14	5	16	9	241	10.0	9
" 28	15	7	22	5	29	6	22	5	29	3	29	11	4	17	3	16	2	17	31	12	2	8	32	9	32	10	32	10	3	10	2	13	32	20	1	23	31	12	30	9	3	18	1	22	32	17	1	16	296	12.3	1
" 29	1	16	32	12	32	14	31	13	32	10	32	6	32	5	1	5	4	19	7	18	7	19	7	20	7	19	7	18	9	19	9	20	7	21	9	18	7	17	7	15	6	13	7	16	6	18	7	22	373	15.5	6
" 30	6	22	6	21	6	18	7	21	6	22	5	21	7	21	6	19	7	19	7	22	7	21	8	20	8	21	9	19	9	18	7	16	7	17	6	14	6	15	7	16	6	23	7	23	7	23	6	30	482	20.1	7
" 31	6	29	6	28	7	27	7	23	7	27	7	25	7	28	7	24	7	25	6	25	7	24	7	24	7	23	7	23	8	22	7	20	7	18	7	18	7	20	7	18	7	20	7	16	8	22	7	18	547	22.8	7
Sums	...	375	...	363	...	387	...	379	...	372	...	358	...	391	...	381	...	395	...	402	...	426	...	453	...	460	...	436	...	434	...	454	...	448	...	416	...	386	...	340	...	391	...	360	...	374	...	379	9560	398.3	...
Means	...	12.1	...	11.7	...	12.5	...	12.2	...	12.0	...	11.5	...	12.6	...	12.3	...	12.7	...	13.0	...	13.7	...	14.6	...	14.8	...	14.1	...	14.0	...	14.6	...	14.5	...	13.4	...	12.5	...	11.0	...	12.6	...	11.6	...	12.1	...	12.2	308.4	12.8	...

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
1895.												
March 1, ...	7	cum.	...	6	cum.	S	8	sm-cum. / cum.	W / E	4	cum.	S
„ 2, ...	10	nim.	...	10	cum.	...	8	sm-cum. / nim.	WSW	1	sm-cum.	...
„ 3, ...	10	sm-cum.	...	8	cum.	...	6	sm-cum.	W	1	sm-cum.	...
„ 4, ...	1	cum.	ESE	3	cum.	ESE	1	cum.	...	2	cum.	E
„ 5, ...	7	cum.	...	0	...	...	0	...	...	1	cum.	...
„ 6, ...	5	cum.	...	10	cum.	...	7	cum.	W	2	cum.	...
„ 7, ...	9	cum.	S	10	cum.	S	10	cum.	E	10	str-cum.	...
„ 8, ...	10	cum.	...	10	cum.	...	8	sm-cum. / cum.	W / E	10	str-cum.	E
„ 9, ...	10	cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...
„ 10, ...	10	cum.	...	10	str.	...	10	R-cum.	...	10	cum-nim.	E
„ 11, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	str-cum.	E
„ 12, ...	10	cum.	S	10	cum.	S	10	cum.	S	10	R-cum.	S
„ 13, ...	10	cum.	S	10	cum.	S	10	cum.	SW	10	cum.	S
„ 14, ...	10	cum.	SSW	10	cum.	S	10	cum. / R-cum.	SSW	10	R-cum.	SSW
„ 15, ...	10	cum.	S	10	nim.	S	10	nim.	S	10	nim.	S
„ 16, ...	10	nim.	...	10	cum.	E	10	nim.	E	10	nim.	E
„ 17, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...
„ 18, ...	10	str.	...	10	str.	...	10	str-cum.	E	10	str-cum.	...
„ 19, ...	10	str.	...	10	str.	...	10	str-cum.	...	10	str.	...
„ 20, ...	10	nim.	...	10	str.	...	10	str-cum.	ENE	10	sm-cum. / R-cum.	WSW / ENE
„ 21, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	9	sm-cum. / cum.	W / ..
„ 22, ..	0	...	...	9	cum.	...	10	cum.	...	10	sm-cum. / cum.	ESE
„ 23, ...	0	...	...	0	...	...	2	cum.	S	2	cum.	...
„ 24, ...	10	str-cum.	...	8	sm-cum.	S	10	str-cum.	...	5	c-cum. / cum.	WSW / SSE
„ 25, ...	10	str-cum.	...	10	str-cum.	...	5	str-cum.	...	8	c-cum. / cum.	SSW / ESE
„ 26, ...	6	cum.	...	10	cum.	ESE	9	sm-cum. / cum.	...	10	cum. / fog.	E
„ 27, ...	10	str.	...	10	str.	...	9	cum.	S	10	R-cum. / fog.	SW / E
„ 28, ...	10	str.	...	7	cum.	...	10	nim.	N	10	nim.	...
„ 29, ...	10	nim.	...	10	cum.	...	3	sm-cum.	W	2	c-cum. / cum.	...
„ 30, ...	6	cum.	...	10	str-cum.	...	10	sm-cum. / cum.	ENE	1	c-cum.	...
„ 31, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	sm-cum. / str-cum.	W / ..
Means, ..	8.4	...	...	8.7	...	...	8.3	...	...	7.4	...	...

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	
1895.													
March 1,...	1	cum.	...	8	sm-cum. / cum.	WNW	1	sm-cum.	...	10	cum.	...	5.6
„ 2,...	0	...	...	1	sm-cum.	...	7	cum.	W	1	c-cum. / sm-cum.	...	4.7
„ 3,...	0	...	...	0	...	...	0	...	...	0	...	...	3.1
„ 4,...	0	...	...	0	...	...	0	...	...	1	cum.	ESE	1.0
„ 5,...	1	cum.	...	1	cum.	...	1	cum.	...	2	cum.	SW	1.6
„ 6,...	1	cum.	...	2	cum.	S	0	...	...	9	cum.	SSE	4.5
„ 7,...	8	c-cum. / sm-cum. / cum.	.. / WSW / E	3	sm-cum. / cum.	W / E	9	cum.	ESE	10	R-cum.	ESE	8.6
„ 8,...	9	sm-cum. / cum.	E	8	sm-cum. / cum.	WSW / E	7	sm-cum. / cum.	WSW / E	2	sm-cum.	WSW	8.0
„ 9,...	8	sm-cum. / str-cum.	WSW / ..	7	c-cum. / cum.	...	9	cum.	W	10	str.	E	9.3
„ 10,...	10	cum.	E	10	sm-cum. / cum.	E	10	R-cum.	E	10	nim.	...	10.0
„ 11,...	10	str-cum.	E	10	str-cum.	...	10	cum.	...	10	cum.	SSE	10.0
„ 12,...	8	sm-cum. / cum.	S	9	c-cum. / cum.	S	6	str. / cum.	...	10	str-cum.	SSE	9.1
„ 13,...	8	sm-cum. / cum.	W / S	7	sm-cum. / cum.	SSW	10	str-cum.	S	10	R-cum.	...	9.4
„ 14,...	10	nim.	SSW	10	cum-nim.	SSW	10	R-cum.	SSW	10	cum.	...	10.0
„ 15,...	10	nim.	...	10	str.	...	10	nim.	...	10	nim.	...	10.0
„ 16,...	10	cum-nim.	E	10	R-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 17,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 18,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10.0
„ 19,...	10	str.	...	10	str.	...	10	str-cum.	...	10	str.	...	10.0
„ 20,...	2	cum.	...	2	cum.	...	9	cum.	...	10	str-cum.	...	7.9
„ 21,...	0	...	...	0	...	...	2	cum.	...	0	...	...	5.1
„ 22,...	10	str. / cum.	ESE	10	sm-cum.	WSW	10	cum.	...	4	cum.	...	7.9
„ 23,...	1	cum.	...	9	sm-cum.	WSW	9	sm-cum. / cum.	...	7	cum.	...	3.7
„ 24,...	7	sm-cum.	SSW	9	sm-cum.	SW	7	sm-cum.	SW	4	cum.	...	7.5
„ 25,...	9	sm-cum. / cum.	E	8	cum.	ESE	9	cum.	ESE	8	cum.	...	8.4
„ 26,...	9	cum.	SSW	9	sm-cum. / cum.	SW / SE	10	cum.	...	10	str-cum.	...	9.1
„ 27,...	7	cum.	S	8	cum.	S	8	cum.	...	10	R-cum.	...	9.0
„ 28,...	9	str-cum.	SW	10	nim.	...	10	cum.	...	10	str-cum.	...	9.5
„ 29,...	1	cum.	...	0	...	...	0	...	...	1	cum.	...	3.4
„ 30,...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	2	cum.	...	7.4
„ 31,...	10	str. / cum.	ESE	5	str. / cum.	SE	5	cum.	SE	3	cum.	...	7.9
Means,...	6.4	...	...	6.6	...	...	7.1	...	...	6.9	...	...	7.5

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF MARCH, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.6	8.4	0.8	0.3	+ 3.8	+ 8.1	E 25° N
2 „	3.6	9.3	0.7	0.2	2.9	9.1	E 18° N
3 „	4.1	9.5	0.4	0.2	3.7	9.3	E 21° N
4 „	4.1	9.7	0.3	0.2	3.8	9.5	E 22° N
5 „	4.5	9.3	0.2	0.3	4.3	9.0	E 25° N
6 „	4.3	9.2	0.1	0.3	4.2	8.9	E 25° N
7 „	3.8	10.2	0.6	0.3	3.2	9.9	E 17° N
8 „	3.7	10.2	0.3	0.2	3.4	10.0	E 19° N
9 „	4.0	10.6	0.5	0.3	3.5	10.3	E 19° N
10 „	2.9	10.5	1.2	0.4	1.7	10.1	E 10° N
11 „	2.8	11.5	1.3	0.5	1.5	11.0	E 8° N
Noon.	2.4	11.8	1.6	0.7	0.8	11.1	E 4° N
1 p.	2.9	11.5	1.8	1.0	1.1	10.5	E 6° N
2 „	2.6	10.5	1.9	1.4	0.7	9.1	E 4° N
3 „	2.6	10.8	1.7	1.2	0.9	9.6	E 5° N
4 „	2.6	10.9	2.0	1.4	0.6	9.5	E 4° N
5 „	3.5	10.6	1.0	1.4	2.5	9.2	E 15° N
6 „	3.6	9.8	1.1	0.9	2.5	8.9	E 16° N
7 „	3.7	9.3	0.5	0.8	3.2	8.5	E 20° N
8 „	3.3	8.5	0.5	0.5	2.8	8.0	E 19° N
9 „	4.8	9.5	0.0	0.4	4.8	9.1	E 28° N
10 „	4.1	8.6	0.2	0.4	3.9	8.2	E 26° N
11 „	4.3	8.9	0.5	0.2	3.8	8.7	E 23° N
Midt.	4.5	9.1	0.8	0.2	+ 3.7	+ 8.9	E 22° N
Means,.....	3.6	9.9	0.8	0.6	+ 2.80	+ 9.35	E 17° N

PHENOMENA :—

Fog :—on the 12th, 26th and 27th.

Slight fog :—on the 8th and 9th.

Haze :—on the 1st and 25th.

Unusual Visibility :—on the 2nd.

Dew :—on the 1st.

Rainbow :—on the 28th.

Thunderstorm :—on the 28th, 7.45 a.–8.30 a., NW–SW, nearest at 8.25 a. (20").

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF APRIL, 1895.

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,...	30.010	29.991	29.977	29.970	29.973	29.999	30.011	30.031	30.040	30.035	30.040	30.016	29.981	29.953	29.929	29.917	29.918	29.926	29.956	29.980	29.978	29.982	29.969	29.965	29.981
„ 2,...	29.949	.928	.931	.926	.925	.945	29.964	29.975	29.985	29.990	29.977	29.951	.911	.888	.884	.852	.847	.860	.867	.880	.897	.920	.908	.896	.919
„ 3,...	.877	.857	.846	.849	.852	.879	.898	.911	.916	.899	.892	.865	.828	.797	.773	.758	.762	.778	.782	.795	.807	.814	.809	.798	.835
„ 4,...	.765	.754	.730	.736	.738	.759	.772	.775	.773	.763	.745	.717	.691	.658	.637	.623	.641	.650	.661	.691	.735	.748	.732	.726	.717
„ 5,...	.699	.679	.669	.658	.664	.691	.694	.719	.736	.765	.733	.732	.714	.698	.677	.661	.683	.687	.704	.713	.736	.743	.745	.744	.706
„ 6,...	.733	.718	.705	.704	.724	.733	.759	.786	.793	.795	.774	.763	.738	.716	.696	.697	.699	.703	.718	.726	.747	.763	.749	.743	.737
„ 7,...	.713	.696	.698	.699	.713	.739	.770	.793	.804	.809	.802	.780	.763	.740	.724	.723	.724	.740	.759	.778	.809	.827	.830	.827	.761
„ 8,...	.820	.813	.805	.808	.821	.856	.892	.905	.920	.930	.927	.905	.894	.866	.850	.845	.840	.862	.880	.899	.924	.928	.927	.936	.877
„ 9,...	.929	.933	.923	.938	.952	.980	30.002	.997	30.006	30.032	30.036	30.013	.988	.980	.958	.940	.946	.954	.978	.999	30.015	30.015	30.022	30.018	.981
„ 10,...	30.003	.991	.970	.970	.971	.982	29.994	.997	.005	.005	.001	29.984	.962	.944	.920	.912	.910	.922	.940	.959	29.980	29.981	29.977	29.957	.968
„ 11,...	29.940	.945	.945	.948	.947	.948	.964	.986	29.994	29.983	29.974	.964	.947	.920	.900	.891	.898	.912	.928	.949	.964	.967	.967	.959	.948
„ 12,...	.937	.918	.900	.894	.897	.911	.942	.963	.984	.990	.992	.975	.950	.929	.910	.900	.906	.924	.928	.938	.956	.970	.974	.963	.940
„ 13,...	.944	.926	.914	.918	.929	.932	.962	.979	.998	30.006	30.016	.988	.968	.947	.936	.921	.920	.921	.930	.952	.978	.989	.988	.989	.956
„ 14,...	.984	.983	.974	.967	.977	.989	30.015	30.031	30.050	.058	.051	30.034	30.006	.984	.968	.953	.959	.969	.976	.982	30.012	30.012	30.007	.988	.997
„ 15,...	.979	.959	.951	.940	.940	.951	29.964	29.972	29.973	29.977	29.960	29.942	29.906	.870	.848	.828	.832	.838	.842	.854	29.861	29.862	29.852	.851	.906
„ 16,...	.830	.809	.801	.795	.802	.821	.848	.860	.866	.870	.866	.843	.806	.788	.778	.772	.766	.776	.795	.806	.820	.824	† .824	.819	.816
„ 17,...	† .817	† .817	† .816	† .817	† .819	† .822	.830	.843	.857	.854	.850	.835	.806	.796	.780	.774	.770	.786	.800	.816	.826	.844	.840	.838	.819
„ 18,...	.824	.807	.806	.793	.804	.823	.859	.875	.896	.894	.881	.860	.840	.820	.805	.799	.793	.806	.818	.834	.845	.859	.851	.853	.835
„ 19,...	.830	.835	.813	.814	.821	.841	.856	.876	.883	.892	.881	.860	.839	.819	.804	.780	.770	.775	.781	.790	.796	.802	.795	.780	.822
„ 20,...	.779	† .774	† .769	† .762	† .760	† .766	.784	.778	.791	.794	.846	.816	.760	.722	.695	.689	.701	.713	.731	.745	.756	.770	.779	.767	.760
„ 21,...	.747	.721	.710	.709	.709	.727	.752	.776	.802	.807	.802	.795	.764	.741	.724	.718	.725	.732	.740	.750	.773	.778	.792	.776	.754
„ 22,...	.755	.749	.729	.725	.732	.752	.784	.794	.804	.794	.788	.772	.747	.729	.707	.699	.700	.714	.737	.743	.771	.770	.772	.766	.751
„ 23,...	.739	.733	.721	.717	.729	.760	.784	.802	.814	.821	.810	.791	.779	.765	.739	.732	.728	.749	.757	.778	.792	.807	.804	.784	.768
„ 24,...	.762	.746	.740	.737	.747	.757	.783	.792	.800	.811	.802	.782	.756	.727	.716	.732	.732	.733	.743	.762	.797	.805	.797	.792	.765
„ 25,...	.763	.749	.744	.725	.724	.757	.770	.794	.816	.814	.808	.777	.756	.737	.727	.730	.726	.733	.763	.798	.814	.814	.814	.792	.769
„ 26,...	.779	.767	.756	.760	.771	.785	.796	.814	.827	.826	.812	.804	.790	.776	.768	.759	.752	.755	.761	.772	.800	.808	.811	.808	.786
„ 27,...	.787	.785	.773	.773	.779	.795	.812	.828	.822	.824	.818	.800	.784	.762	.748	.730	.723	.736	.746	.751	.767	.764	.745	.739	.775
„ 28,...	.730	.729	.727	.723	.733	.746	.772	.778	.778	.776	.763	.754	.739	.723	.707	.695	.702	.710	.728	.736	.750	.740	.743	.735	.738
„ 29,...	.732	.713	.713	.717	.729	.735	.749	.777	.792	.799	.794	.782	.780	.763	.744	.739	.740	.740	.752	.758	.788	.796	.807	.818	.761
„ 30,...	.814	.794	.782	.778	.778	.786	.810	.817	.830	.828	.829	.823	.814	.801	.771	.745	.744	.760	.783	.793	.788	.793	.794	.788	.793
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.832	29.821	29.811	29.809	29.815	29.832	29.853	29.867	29.878	29.881	29.876	29.857	29.834	29.812	29.794	29.784	29.785	29.795	29.809	29.824	29.843	29.850	29.847	29.841	29.831

† Approximate.

TABLE II.

TEMPERATURE FOR THE MONTH OF APRIL, 1895

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Max.	Min.
April 1,	64.2	63.8	63.7	63.7	63.6	63.6	63.8	64.6	65.7	66.9	68.1	69.2	69.0	69.1	68.8	68.6	68.3	66.6	66.2	66.6	66.3	66.1	66.2	66.4	66.2	70.2	63.2
" 2,	66.4	66.1	65.8	65.9	65.7	65.8	66.8	68.3	69.3	70.9	71.9	71.4	71.6	71.9	73.0	70.9	68.4	68.0	68.2	68.6	67.7	67.6	67.3	67.6	68.5	73.5	65.7
" 3,	67.3	67.6	67.7	67.6	67.5	67.7	68.5	69.6	71.5	71.2	71.5	77.1	76.6	77.9	76.5	75.7	73.3	71.6	72.2	71.2	70.3	70.6	70.4	70.0	71.3	78.3	66.8
" 4,	69.4	69.2	69.1	69.0	69.0	69.0	70.2	72.2	73.1	75.3	78.0	77.1	78.6	76.4	75.6	74.8	74.4	73.6	73.6	74.6	72.0	71.2	71.0	71.3	72.8	78.7	68.2
" 5,	71.6	71.7	71.9	71.2	71.0	71.0	71.7	73.0	75.8	76.2	77.1	77.2	77.4	77.0	77.5	75.2	76.2	75.2	72.2	75.7	72.6	75.6	75.6	75.7	74.4	78.4	69.8
" 6,	75.8	75.9	75.2	75.3	75.4	73.5	75.8	74.6	76.2	77.7	78.2	77.6	78.5	77.6	76.6	76.0	75.8	75.6	75.4	73.6	74.4	75.2	74.8	75.2	75.8	79.6	72.2
" 7,	74.6	74.7	74.7	74.7	75.0	75.1	75.3	75.4	78.1	77.1	77.9	78.3	77.8	77.7	77.6	77.3	75.6	74.9	73.9	73.4	73.6	73.4	73.1	72.7	75.5	79.2	72.7
" 8,	72.8	72.1	72.5	72.3	72.6	72.9	73.8	71.7	71.9	73.2	72.1	72.9	73.9	76.9	73.6	74.6	72.3	72.2	71.3	71.3	71.4	70.5	70.6	70.2	72.5	76.9	69.9
" 9,	69.9	68.7	67.8	66.6	66.0	65.9	65.5	64.9	68.2	67.9	68.0	67.8	66.4	67.0	67.6	67.0	66.6	66.8	66.8	66.5	67.2	67.1	67.4	67.0	67.1	70.2	64.9
" 10,	67.1	66.8	66.4	66.3	66.2	66.2	66.2	67.4	69.4	70.3	72.1	72.9	70.8	70.9	69.9	69.4	68.0	67.4	66.8	66.8	66.6	66.2	66.1	66.0	68.0	72.9	65.6
" 11,	66.0	66.4	65.8	65.7	65.8	65.9	66.1	66.7	67.9	68.8	71.0	71.3	71.2	70.0	70.1	69.9	68.3	68.1	67.6	67.3	67.4	67.3	67.5	66.5	67.9	71.3	65.0
" 12,	67.0	67.2	67.3	67.1	66.8	67.0	67.4	67.7	65.8	67.3	70.4	70.6	71.6	71.8	71.2	71.1	70.0	68.9	68.8	69.1	68.9	69.0	69.2	68.8	69.2	73.2	65.3
" 13,	68.8	68.7	69.2	69.5	69.6	69.5	70.7	71.3	73.1	74.3	76.0	78.3	76.8	75.0	74.7	76.0	73.3	72.0	71.1	71.9	70.9	71.2	70.7	71.0	72.2	80.1	68.1
" 14,	70.6	71.0	70.8	70.9	71.4	71.0	72.6	74.7	72.5	69.7	68.6	68.2	68.2	68.3	69.9	69.7	69.5	68.9	68.4	68.5	68.0	68.1	68.0	68.1	69.8	75.6	67.6
" 15,	67.5	67.7	66.2	66.0	66.0	66.0	65.7	66.8	68.2	68.8	70.3	72.6	73.5	72.6	71.6	70.8	71.5	69.0	68.8	68.4	68.2	68.0	67.8	67.8	68.7	74.4	65.0
" 16,	68.4	68.5	68.6	68.8	69.0	68.8	70.5	72.4	74.6	75.2	77.5	80.2	79.6	80.5	79.6	78.8	77.3	75.0	74.1	73.5	72.5	72.3	71.8	71.7	73.7	81.1	67.3
" 17,	71.4	71.2	71.0	70.8	70.9	71.0	72.7	75.8	76.7	79.7	80.0	82.9	83.0	82.2	80.9	81.3	77.6	76.0	75.3	74.9	74.8	74.0	73.9	74.4	75.9	84.8	70.0
" 18,	73.7	73.3	73.0	71.9	71.6	71.9	73.0	73.1	74.1	77.2	82.0	77.5	78.6	80.1	79.7	77.8	78.4	77.0	75.7	75.0	74.8	74.0	73.6	73.1	75.4	82.3	71.2
" 19,	73.0	72.6	72.3	71.9	71.6	71.8	73.1	74.9	75.0	76.6	79.7	78.9	79.0	79.3	79.9	79.1	78.3	78.0	73.8	74.3	74.6	74.5	73.4	73.3	75.4	80.3	71.4
" 20,	73.3	73.2	73.3	73.0	72.8	72.9	73.2	73.3	78.3	78.3	75.1	74.7	77.8	80.2	78.6	78.2	76.5	75.7	75.0	75.5	74.4	74.4	74.2	73.8	75.2	81.3	72.8
" 21,	73.6	73.4	73.0	73.5	73.4	73.2	73.2	73.7	74.7	75.6	75.0	75.1	75.7	75.2	75.1	74.4	72.8	72.0	71.5	71.6	71.2	71.4	71.4	71.4	73.4	76.4	71.2
" 22,	71.2	71.3	70.4	70.6	70.5	70.8	70.6	72.6	74.7	74.3	76.4	77.3	76.7	76.0	75.6	75.8	74.2	73.2	72.6	73.4	72.7	72.6	71.5	71.5	73.2	77.3	70.0
" 23,	71.6	71.5	71.9	71.9	72.6	72.4	73.7	74.9	76.7	76.2	78.1	79.4	79.6	79.1	78.5	78.0	74.0	73.4	73.3	73.2	72.6	72.0	72.0	72.4	74.5	80.1	71.4
" 24,	72.4	72.3	72.3	72.0	71.9	72.0	72.2	72.3	72.0	71.9	72.0	72.4	73.0	72.0	71.3	71.8	71.4	70.9	70.4	70.2	70.2	70.1	70.3	70.0	71.6	73.2	70.0
" 25,	69.8	69.8	69.7	69.8	69.6	69.3	68.7	68.4	68.1	68.4	68.8	68.9	68.7	68.6	68.5	68.3	68.6	68.3	68.5	68.5	68.9	69.0	68.9	69.1	68.9	70.8	67.6
" 26,	69.2	69.3	69.4	69.6	69.3	69.3	69.9	70.8	72.5	72.7	73.9	74.0	74.3	73.6	73.8	73.0	72.6	70.1	70.4	70.4	70.3	70.6	70.9	71.0	71.3	74.3	68.4
" 27,	71.0	70.8	70.8	70.8	70.6	71.0	71.2	71.7	72.3	73.0	74.3	72.8	74.6	74.2	74.6	73.0	72.6	71.6	71.3	71.5	71.6	71.8	72.3	72.7	72.2	76.0	70.2
" 28,	72.7	72.5	72.3	72.6	72.5	72.5	73.1	73.0	73.6	74.9	76.5	77.0	77.9	77.7	77.6	77.7	76.3	76.8	76.5	76.4	76.0	76.1	75.9	76.0	75.2	78.8	71.6
" 29,	75.6	74.5	74.2	74.4	74.2	74.0	75.2	75.3	75.4	76.2	76.1	75.6	76.0	76.3	76.4	76.3	76.0	75.9	75.8	75.6	76.1	76.2	75.5	75.6	75.5	77.3	73.6
" 30,	75.4	75.6	75.7	76.0	75.6	75.3	77.3	77.9	79.0	80.3	81.3	82.2	80.8	80.9	82.8	83.0	81.0	79.2	78.9	78.0	77.1	76.3	76.1	75.6	78.4	83.0	74.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	70.7	70.6	70.4	70.3	70.3	70.2	70.9	71.6	72.8	73.5	74.6	75.0	75.2	75.2	74.9	74.5	73.3	72.4	71.8	71.8	71.4	71.4	71.2	71.2	72.3	77.0	69.0

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF APRIL, 1895.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
April 1, ...	60.0	59.8	59.8	59.6	59.8	59.2	59.6	59.3	59.6	60.4	60.8	61.1	60.3	61.0	60.6	60.5	60.9	60.3	61.2	61.5	61.1	61.8	62.0	62.0	60.5	130.5
„ 2, ...	61.5	61.5	62.1	63.1	62.9	62.8	63.9	65.0	66.3	66.7	67.2	67.5	66.5	66.4	67.5	66.5	65.2	65.4	66.3	66.5	66.2	66.1	65.8	66.1	65.2	124.7
„ 3, ...	65.9	66.5	66.6	66.3	66.5	66.6	67.4	67.5	68.3	67.9	68.1	70.6	69.8	71.0	70.1	70.2	69.5	69.0	69.2	68.9	68.2	68.7	69.1	68.7	68.4	131.8
„ 4, ...	68.3	68.5	68.3	68.5	68.2	68.2	69.0	69.6	69.7	70.4	71.2	71.0	71.6	71.1	71.1	70.9	71.0	71.0	71.1	71.4	70.1	69.9	69.9	69.8	70.0	134.0
„ 5, ...	70.3	70.4	70.6	69.8	69.9	69.8	70.2	71.0	71.9	71.9	72.6	72.5	72.7	72.2	72.7	71.8	72.2	71.9	70.9	72.0	71.2	72.0	72.0	72.1	71.4	119.3
„ 6, ...	71.9	71.8	72.1	72.0	71.9	71.4	72.6	71.8	72.5	73.2	73.3	72.9	73.5	73.3	72.7	73.0	72.6	72.4	72.3	71.6	72.0	72.4	72.3	72.4	72.4	123.7
„ 7, ...	71.9	71.7	71.5	71.5	71.4	71.5	71.7	71.8	72.6	72.7	72.7	73.3	73.7	73.1	73.0	73.0	72.6	72.0	71.8	71.9	72.0	72.0	71.7	71.7	72.2	125.4
„ 8, ...	71.8	71.6	71.8	71.8	71.8	72.1	72.8	71.3	70.4	70.6	70.0	70.3	70.0	71.5	70.0	70.8	69.7	69.9	69.2	69.3	68.9	68.1	67.4	67.6	70.4	123.0
„ 9, ...	67.8	67.7	66.9	65.8	65.2	64.6	64.6	64.6	64.7	64.7	65.0	65.5	65.2	64.5	64.5	64.8	64.2	63.9	64.1	63.5	63.3	62.8	62.6	62.3	64.7	102.5
„ 10, ...	60.5	58.7	56.4	57.2	57.3	57.1	56.0	56.1	55.3	55.4	56.6	56.8	58.0	59.1	59.9	59.9	61.6	60.3	61.4	61.6	62.2	62.0	62.7	62.6	58.9	125.5
„ 11, ...	62.6	62.6	62.4	62.1	60.8	60.0	60.4	61.0	61.9	60.9	62.8	63.0	62.9	62.7	63.6	63.5	63.4	64.0	64.0	64.1	64.2	64.4	64.6	64.7	62.8	129.5
„ 12, ...	65.0	65.1	65.2	64.8	65.0	64.8	64.5	64.5	64.2	64.8	65.2	65.1	65.6	65.7	65.6	65.8	65.5	65.4	65.8	66.5	66.2	67.0	67.0	66.6	65.5	138.2
„ 13, ...	66.1	66.2	66.1	66.1	66.0	66.0	66.0	67.3	68.2	69.3	70.0	70.3	69.6	69.4	69.6	69.0	69.0	68.6	68.2	68.3	68.3	68.6	68.1	68.8	68.0	138.4
„ 14, ...	68.8	68.9	68.8	68.8	68.9	68.8	69.5	70.2	68.7	67.6	67.0	66.3	65.9	65.6	66.3	66.3	66.0	65.6	65.3	65.8	65.5	65.4	65.3	64.5	67.1	114.6
„ 15, ...	64.4	64.6	63.8	63.9	63.8	63.8	64.1	63.9	64.6	65.0	65.7	66.6	67.4	67.3	66.5	67.0	67.4	66.1	66.0	66.2	66.4	66.3	65.8	66.5	65.5	136.3
„ 16, ...	66.8	66.8	67.4	67.7	67.6	67.8	68.7	69.3	70.2	70.8	71.9	73.3	71.9	71.8	72.0	71.6	71.2	71.0	70.6	70.2	70.4	70.7	70.6	70.6	70.0	140.0
„ 17, ...	70.4	70.1	69.9	69.6	69.8	70.0	71.0	72.3	72.6	72.8	72.3	74.1	74.6	73.8	72.0	73.7	72.0	71.4	71.2	71.0	71.4	70.8	70.5	71.0	71.6	138.8
„ 18, ...	71.4	71.2	70.8	70.5	70.3	70.1	71.0	71.2	71.5	73.1	74.6	72.9	73.0	73.3	71.8	72.8	71.6	71.2	70.9	71.1	71.0	70.9	71.0	70.8	71.6	140.9
„ 19, ...	70.5	70.7	70.5	70.4	70.4	70.5	71.0	72.0	71.9	72.2	72.9	73.0	73.1	72.9	72.6	72.2	72.0	72.1	71.9	72.2	71.3	71.6	71.8	71.6	71.7	139.9
„ 20, ...	71.6	71.6	71.9	71.9	72.0	71.8	71.8	71.9	72.9	73.1	73.0	73.2	74.7	75.0	72.8	72.9	71.9	72.1	72.3	71.9	72.4	72.4	72.5	72.4	72.5	128.8
„ 21, ...	72.3	72.3	72.1	72.2	71.8	71.8	71.9	71.4	71.8	71.6	71.0	70.8	71.1	71.2	71.0	70.6	70.0	69.5	69.4	69.2	69.1	69.6	69.5	69.6	70.9	133.9
„ 22, ...	69.2	69.1	69.2	69.0	69.2	69.2	69.5	70.3	70.7	70.3	71.3	71.4	70.9	70.3	70.2	70.8	70.3	70.1	70.2	69.7	69.6	70.0	69.6	69.7	70.0	132.2
„ 23, ...	69.9	69.8	70.3	70.4	70.8	70.9	71.9	72.0	72.0	72.4	73.2	73.6	73.5	73.0	72.6	72.1	72.3	71.9	72.0	71.8	71.3	70.8	71.3	71.6	71.7	125.1
„ 24, ...	71.8	72.1	71.6	71.4	71.7	71.6	71.6	71.7	71.1	71.0	71.3	71.3	71.5	70.0	69.9	70.1	69.6	69.4	68.4	68.5	68.4	68.2	68.6	68.4	70.4	98.3
„ 25, ...	68.4	68.3	68.0	68.0	67.9	67.4	67.6	66.4	66.2	66.9	67.3	67.4	67.0	67.3	66.7	67.0	66.0	65.4	65.8	66.2	65.8	65.9	65.7	65.7	66.8	75.8
„ 26, ...	65.4	65.8	66.2	66.3	66.2	66.0	66.3	66.8	67.9	67.8	68.5	68.6	68.5	68.0	68.5	67.2	67.3	67.2	67.8	68.2	68.0	68.3	68.5	68.5	67.4	133.1
„ 27, ...	68.5	68.6	68.6	68.6	68.4	68.6	68.9	68.5	69.1	69.2	69.8	69.4	70.4	70.0	70.8	69.9	69.6	69.0	69.4	69.6	69.7	70.0	70.4	70.4	69.4	135.3
„ 28, ...	71.1	71.1	71.0	70.9	70.8	70.7	71.2	71.3	71.6	72.2	73.2	73.3	73.9	74.1	73.8	73.3	73.4	73.0	72.9	73.2	72.9	73.0	73.0	72.9	72.4	137.4
„ 29, ...	72.9	72.8	72.9	73.0	73.2	73.3	73.9	74.2	74.3	74.2	74.2	74.0	74.4	74.2	74.3	74.4	74.2	74.3	74.3	74.4	74.5	74.4	74.0	74.1	73.9	112.6
„ 30, ...	74.4	74.5	74.5	74.8	74.8	75.0	76.0	76.0	76.1	76.2	76.3	77.0	76.0	75.8	77.0	77.2	76.2	75.8	75.8	75.6	75.1	74.9	74.9	74.4	75.6	140.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	68.4	68.3	68.2	68.2	68.1	68.0	68.5	68.7	69.0	69.2	69.6	69.9	69.9	69.8	69.7	69.6	69.3	69.0	69.0	69.1	68.9	69.0	68.9	68.9	69.0	127.0

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF APRIL, 1895.

Hour.	Hourly Mean. Humidity.	Hourly Mean. Tension.	Date.	Daily Mean. Humidity.	Daily Mean. Tension.
			1895.		
1 a.	89	0.669	April 1,.....	70	0.453
2 „	89	.667	„ 2,.....	83	.579
3 „	89	.666	„ 3,.....	86	.657
4 „	90	.667	„ 4,.....	87	.697
5 „	89	.663	„ 5,.....	86	.730
6 „	89	.661	„ 6,.....	84	.751
7 „	88	.670	„ 7,.....	85	.747
8 „	86	.668	„ 8,.....	90	.717
9 „	82	.663	„ 9,.....	87	.580
10 „	80	.661	„ 10,.....	56	.378
11 „	77	.662	„ 11,.....	74	.505
Noon.	77	.668	„ 12,.....	81	.580
1 p.	76	.665	„ 13,.....	80	.630
2 „	75	.661	„ 14,.....	86	.629
3 „	76	.662	„ 15,.....	84	.587
4 „	77	.663	„ 16,.....	82	.685
5 „	81	.668	„ 17,.....	81	.718
6 „	83	.668	„ 18,.....	83	.724
7 „	86	.677	„ 19,.....	83	.728
8 „	87	.681	„ 20,.....	87	.764
9 „	88	.679	„ 21,.....	88	.724
10 „	88	.682	„ 22,.....	85	.692
11 „	89	.681	„ 23,.....	87	.741
Midt.	89	.681	„ 24,.....	94	.729
			„ 25,.....	90	.630
			„ 26,.....	80	.620
			„ 27,.....	86	.682
			„ 28,.....	87	.760
			„ 29,.....	93	.817
			„ 30,.....	88	.849
			.....	...	...
Means,.....	84	0.669	Means.	84	0.669

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.
1895.														
April 1,.....	...	...	0.2	0.3	...	0.6	0.6	0.9	1.0	1.0	1.0	0.4	...	6.0
„ 2,.....	...	...	0.3	0.1	0.2	0.5	0.3	0.7	0.9	0.8	0.8	0.3	...	4.9
„ 3,.....	...	...	...	...	...	...	...	0.8	0.5	0.6	0.7	...	...	2.6
„ 4,.....	...	...	0.1	1.0	1.0	1.0	1.0	1.0	0.3	0.2	...	...	...	5.6
„ 5,.....	...	...	...	...	...	0.3	0.2	0.3	...	0.2	...	...	...	1.0
„ 6,.....	...	...	...	0.2	0.8	0.8	0.2	0.6	0.2	...	...	...	...	2.8
„ 7,.....	...	...	...	...	...	0.2	0.1	...	...	...	...	...	...	0.3
„ 8,.....	...	...	...	...	...	...	...	0.2	1.0	0.2	0.6	...	...	2.0
„ 9,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 10,.....	...	...	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	7.8
„ 11,.....	...	...	0.2	0.4	0.8	0.6	0.6	0.6	1.0	1.0	1.0	0.3	...	6.5
„ 12,.....	...	...	0.1	...	...	0.4	0.6	0.5	0.7	0.9	0.5	...	...	3.7
„ 13,.....	...	...	...	0.3	0.1	0.8	0.8	0.9	1.0	0.9	1.0	0.8	...	6.6
„ 14,.....	...	0.3	0.7	0.1	...	...	...	...	...	0.2	0.1	0.3	...	1.7
„ 15,.....	...	...	...	...	...	0.7	0.8	1.0	1.0	1.0	1.0	0.4	...	5.9
„ 16,.....	...	...	...	...	...	0.2	0.5	0.5	0.7	1.0	0.8	0.4	...	4.1
„ 17,.....	...	...	0.8	1.0	1.0	1.0	1.0	1.0	0.8	0.8	0.3	...	...	7.7
„ 18,.....	...	0.3	0.5	0.6	0.7	1.0	1.0	0.9	0.3	0.6	0.5	0.6	...	7.0
„ 19,.....	...	...	...	0.1	0.3	0.8	0.7	0.3	0.1	0.5	0.6	...	...	3.4
„ 20,.....	...	...	...	0.2	...	...	...	...	0.3	0.2	0.1	...	...	0.8
„ 21,.....	...	0.4	0.8	0.4	0.7	1.0	0.9	1.0	1.0	0.8	1.0	0.8	...	8.8
„ 22,.....	...	...	...	0.4	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	7.6
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,.....	...	...	...	0.1	0.7	1.0	1.0	0.6	0.1	0.3	1.0	1.0	0.3	6.1
„ 27,.....	...	...	...	0.1	0.1	0.3	...	0.5	1.0	0.9	0.5	0.4	...	3.8
„ 28,.....	...	...	...	...	0.3	0.9	1.0	0.9	0.8	0.2	...	...	...	4.1
„ 29,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 30,.....	...	0.2	0.9	0.6	1.0	0.6	0.7	0.7	0.6	0.4	1.0	1.0	0.3	8.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	1.2	4.6	6.7	9.5	14.7	14.0	15.9	15.3	14.7	14.5	7.3	0.6	119.0

TABLE VI.

RAINFALL FOR THE MONTH OF APRIL, 1895.

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	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	...	...	...	...	...	0.010	1
" 5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.005	1
" 9	...	...	0.005	0.005	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	4
" 10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20	...	...	...	...	...	...	...	...	...	...	0.030	0.055	...	...	...	...	...	...	...	...	...	...	...	...	0.085	1
" 21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.035	0.035	0.080	...	0.150	3
" 24	...	0.015	0.010	...	...	0.035	...	...	0.095	0.025	0.095	...	...	...	0.300	1.265	...	...	...	0.025	...	...	...	...	1.865	11
" 25	0.020	...	...	...	...	0.030	...	0.045	0.055	0.115	0.055	0.045	0.045	0.025	0.025	...	...	...	...	...	...	...	...	...	0.460	11
" 26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...
" 30	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.030	0.015	0.015	0.005	...	0.070	...	0.045	0.150	0.140	0.180	0.100	0.045	0.025	0.325	1.265	0.010	...	...	0.025	0.035	0.035	0.085	0.005	2.605	32

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF APRIL, 1895.

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	7	19	7	20	7	21	7	25	7	18	7	20	7	25	8	24	8	21	8	19	8	20	9	20	9	22	8	22	8	22	8	22	8	20	8	19	9	19	9	14	8	19	8	17	9	17	9	14	479	20.0	8
" 2	9	16	9	12	8	17	9	16	9	16	8	15	8	15	7	12	7	11	7	9	7	13	8	19	7	18	7	16	6	7	8	16	7	15	7	13	7	12	7	12	8	6	...	1	7	3	7	6	296	12.3	8
" 3	6	5	6	3	7	5	6	6	7	6	6	2	...	1	...	1	...	1	9	6	8	6	17	9	17	7	17	6	16	7	18	4	26	3	26	4	...	0	4	3	6	5	6	5	6	7	...	1	103	4.3	10
" 4	7	4	6	6	7	6	...	1	...	1	7	2	...	1	13	7	15	8	14	7	14	11	14	15	15	16	15	15	16	17	16	14	18	18	16	14	18	17	17	12	8	14	8	23	8	16	8	11	256	10.7	13
" 5	8	12	9	6	10	7	8	10	5	6	7	9	10	10	10	8	15	12	15	11	15	14	15	17	15	13	12	11	14	15	12	14	15	8	13	10	12	6	14	8	5	6	15	10	15	9	15	13	245	10.2	13
" 6	14	18	14	18	15	13	14	11	14	15	12	9	14	11	13	7	15	15	15	13	15	13	15	13	14	13	15	11	15	11	16	10	16	7	15	9	14	10	10	8	14	10	15	8	14	12	15	12	277	11.5	14
" 7	15	8	16	8	14	7	16	8	16	7	16	8	15	7	14	8	15	11	15	10	15	10	15	9	15	6	14	6	14	5	5	2	5	4	7	4	9	4	9	3	10	3	...	1	10	3	10	2	144	6.0	14
" 8	10	2	...	1	...	1	...	0	...	1	...	1	10	4	30	4	25	5	25	9	23	11	23	8	22	6	23	8	24	14	22	11	21	8	21	3	23	6	...	0	21	4	23	4	22	6	22	2	119	5.0	23
" 9	7	10	7	9	7	14	7	15	8	21	7	18	7	18	7	21	5	20	7	12	7	8	8	12	8	16	8	10	7	12	9	18	9	16	7	13	7	17	7	16	6	20	7	23	7	21	7	25	385	16.0	7
" 10	7	26	7	29	7	29	7	28	7	23	7	24	7	26	7	28	7	29	7	30	7	32	8	31	8	31	9	25	9	26	9	25	9	25	7	19	6	19	7	13	7	17	7	18	7	19	7	22	594	24.7	7
" 11	7	21	5	20	7	18	7	20	7	23	6	23	7	22	7	24	7	28	7	26	7	27	7	24	7	20	7	21	7	19	7	22	6	23	6	19	6	15	7	10	8	16	6	14	7	14	7	16	485	20.2	7
" 12	7	19	7	21	7	22	7	20	7	22	7	20	7	21	7	20	8	23	7	18	7	17	7	18	8	18	8	16	9	14	8	16	8	19	8	17	7	11	7	14	5	12	7	9	8	9	7	9	405	16.9	7
" 13	9	12	8	13	9	13	10	11	10	8	9	10	9	12	8	12	7	13	7	12	9	9	10	11	10	14	8	19	8	16	9	15	9	15	8	12	7	8	9	14	9	14	9	13	8	13	9	9	298	12.4	9
" 14	9	8	9	7	9	9	9	9	10	10	10	8	11	8	10	12	7	23	7	26	7	22	7	24	7	26	7	23	5	20	5	21	7	18	7	19	8	25	8	24	9	25	9	24	8	25	7	23	439	18.3	8
" 15	7	21	5	23	7	20	7	25	6	21	6	19	7	16	7	19	7	19	9	16	8	16	8	15	8	16	8	15	8	14	7	11	6	9	7	9	7	10	7	7	7	5	7	2	30	3	29	3	334	13.9	7
" 16	30	6	29	4	30	7	28	6	28	2	...	0	...	0	28	4	28	6	26	8	26	11	24	9	23	9	23	9	23	12	24	9	27	5	28	4	14	6	3	4	1	4	29	6	28	4	28	5	140	5.8	26
" 17	29	6	29	4	29	3	29	2	29	5	29	3	29	3	27	6	27	7	22	9	24	12	23	10	23	10	23	11	23	6	18	5	14	12	15	10	16	4	16	3	15	2	15	2	17	2	...	1	138	5.8	23
" 18	29	3	29	4	...	1	...	1	29	2	5	6	7	7	8	9	8	7	8	6	10	8	9	11	9	10	9	6	13	5	11	6	15	7	15	8	15	5	...	1	...	0	...	1	...	0	...	0	114	4.7	10
" 19	...	0	..	0	15	2	...	0	...	1	15	2	7	5	7	6	7	6	7	4	7	3	9	7	9	5	9	6	14	11	15	9	15	8	13	8	7	10	10	6	11	9	11	6	8	14	7	12	140	5.8	10
" 20	8	16	8	14	9	15	8	16	9	11	8	10	7	11	8	12	14	10	15	8	27	11	22	3	27	4	28	6	26	6	26	6	24	5	23	4	27	3	27	3	28	3	29	3	29	5	29	2	187	7.8	7
" 21	29	6	20	3	20	2	...	1	20	2	13	4	7	13	8	16	9	16	9	18	7	16	9	20	8	21	8	22	8	19	8	18	8	21	8	19	9	17	9	18	7	14	7	11	10	9	9	7	313	13.0	8
" 22	8	6	8	5	8	7	9	6	9	8	9	10	8	6	3	10	7	14	7	14	8	15	8	15	8	17	8	16	8	18	8	14	8	16	8	9	8	5	14	3	14	2	14	2	14	3	14	2	223	9.3	8
" 23	...	1	...	1	...	0	...	0	...	1	...	0	...	1	...	1	14	2	...	1	14	2	23	5	24	4	24	5	23	3	28	8	7	16	9	17	9	13	9	11	7	10	10	9	10	7	7	9	127	5.3	8
" 24	9	12	9	10	9	9	7	8	10	11	10	12	9	11	8	12	7	11	8	19	8	15	8	16	7	17	8	21	8	16	1	13	5	19	8	19	8	31	7	27	7	26	7	30	7	28	7	29	422	17.6	7
" 25	7	25	7	24	8	25	8	25	8	23	8	21	7	25	7	27	7	23	7	19	7	23	6	26	7	27	7	26	7	26	7	25	6	24	6	22	6	19	5	16	7	20	7	21	7	20	7	20	552	23.0	7
" 26	7	18	7	17	6	17	5	15	6	17	6	16	7	12	7	16	8	21	8	22	7	25	7	25	7	23	7	24	7	22	7	21	8	17	10	18	9	15	9	13	8	12	7	12	7	8	7	10	416	17.3	7
" 27	7	13	7	11	7	11	7	12	7	16	7	14	7	13	7	16	7	18	7	18	7	18	7	18	9	16	9	18	9	17	9	17	9	15	9	16	9	15	9	17	9	18	10	16	10	21	10	17	381	15.9	8
" 28	8	15	8	19	9	18	6	12	8	15	7	15	7	16	8	18	7	18	9	18	8	23	8	22	10	23	8	22	11	16	12	20	11	14	12	16	12	18	12	12	11	10	13	13	13	13	14	14	400	16.7	10
" 29	12	10	11	8	8	8	9	9	8	10	8	12	9	11	8	11	9	10	8	11	10	12	8	14	9	12	10	11	9	12	8	14	9	16	8	14	9	11	8	10	7	10	9	11	9	6	7	6	259	10.8	9
" 30	9	8	9	4	14	5	14	6	14	3	...	0	14	2	...	1	27	6	27	7	28	4	7	4	24	3	7	4	15	5	26	6	27	4	14	8	15	6	...	1	27	2	32	3	32	2	32	5	99	4.1	14
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums	...	346	...	324	...	332	...	324	...	325	...	313	...	333	...	372	...	414	...	406	...	427	...	450	...	443	...	431	...	413	...	412	...	407	...	376	...	357	...	303	...	318	...	318	...	319	...	307	8770	365.4	...
Means	...	11.5	...	10.8	...	11.1	...	10.8	...	10.8	...	10.4	...	11.1	...	12.4	...	13.8	...	13.5	...	14.2	...	15.0	...	14.8	...	14.4	...	13.8	...	13.7	...	13.6	...	12.5	...	11.9	...	10.1	...	10.6	...	10.6	...	10.6	...	10.2	292.3	12.2	...

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
1895.												
April 1, ...	10	str-cum.	...	10	str-cum.	...	8	cum.	ESE	9	sm-cum. / cum.	SE
„ 2, ...	10	str-cum.	...	10	str-cum.	...	8	sm-cum. / cum.	SW / ..	8	sm-cum. / cum.	WSW / ..
„ 3, ...	10	cum.	...	10	cum.	...	10	cum.	S	10	cum.	S
„ 4, ...	10	cum.	SW	10	cum.	SW	8	cum.	WSW	3	cum.	SW
„ 5, ...	10	cum.	SW	10	cum.	SW	8	sm-cum. / cum.	W / S	10	sm-cum. / cum.	S
„ 6, ...	10	cum.	SSW	10	cum.	SSW	8	cum.	SSW	9	sm-cum. / cum.	S
„ 7, ...	10	cum.	SSW	10	cum.	SSW	10	cum.	SSW	10	cum.	SSW
„ 8, ...	10	cum.	SSW	10	cum.	SSW	10	fog.	...	10	str-cum.	...
„ 9, ...	10	cum.	ESE	10	nim.	E	10	nim.	E	10	str-cum.	E
„ 10, ...	10	cum.	...	10	cum.	...	10	cum.	...	6	c-str. / cum.	E
„ 11, ...	9	cum.	E	10	cum.	E	10	sm-cum. / cum.	ESE	7	c-str. / sm-cum.	W
„ 12, ...	10	cum.	ESE	10	cum.	ESE	10	nim.	E	9	sm-cum. / cum.	ENE
„ 13, ...	10	str-cum.	E	10	cum.	E	9	c-str. / cum.	SE	9	c-cum. / cum.	WSW / ..
„ 14, ...	10	cum.	SE	6	cum.	SE	6	sm-cum. / cum.	E	10	R-cum.	E
„ 15, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	...	10	sm-cum. / cum.	SW / ..
„ 16, ...	10	str-cum.	S	10	cum.	SW	10	str-cum.	...	10	str-cum.	W
„ 17, ...	0	...	...	0	...	...	6	sm-cum. / cum.	SW	4	c-cum. / cum.	WSW
„ 18, ...	4	cum.	SSE	3	cum.	S	4	c-cum. / cum.	W / SSW	8	cum.	SSW
„ 19, ...	3	cum.	...	4	c-cum.	...	7	sm-cum.	WNW	9	sm-cum. / cum.	WNW / ..
„ 20, ...	10	cum.	ESE	9	cum.	S	10	sm-cum. / cum.	S	9	sm-cum. / cum.	SSW
„ 21, ...	6	c-cum.	...	6	sm-cum.	...	4	sm-cum. / cum.	NNE	7	cum.	ENE
„ 22, ...	10	str-cum.	...	10	str-cum.	...	10	cum-nim.	...	7	c-cum. / cum.	SSW
„ 23, ...	6	c-cum.	...	7	cum.	...	10	cum.	...	10	str-cum.	...
„ 24, ...	10	nim.	...	10	cum.	...	10	nim.	E	10	nim.	SE
„ 25, ...	10	nim.	...	10	nim.	...	10	nim.	E	10	nim.	E
„ 26, ...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	...	9	cum.	E
„ 27, ...	10	cum-nim.	...	8	cum.	E	10	str-cum.	ESE	9	cum.	E
„ 28, ...	8	cum.	E	10	cum.	...	10	str. / cum.	SE	10	sm-cum. / cum.	W / SE
„ 29, ...	3	cum.	...	7	cum.	...	9	str-cum.	SSW	10	cum.	SSE
„ 30, ...	10	cum-nim.	...	1	cum.	...	9	cum.	SSW	7	cum.	WSW
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	8.6	...	...	8.4	...	...	8.8	...	...	8.6	...	...

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	
1895.													
April 1,...	2	cum.	SE	1	cum.	...	1	sm-cum.	...	2	cum.	...	5.4
„ 2,...	8	sm-cum. / cum.	WSW / SSW	3	sm-cum. / cum.	S	0	...	...	6	cum.	S	6.6
„ 3,...	9	sm-cum. / cum.	SSW	7	cum.	SW	9	cum.	WSW	9	cum.	SSW	9.2
„ 4,...	4	cum.	SSW	9	R-cum.	SSW	8	cum.	SSW	10	R-cum.	SSW	7.8
„ 5,...	10	sm-cum. / cum.	S	9	cum.	SSW	8	cum.	S	8	cum.	S	9.1
„ 6,...	10	cum.	S	10	cum.	SSW	9	cum.	S	10	cum.	SSW	9.5
„ 7,...	10	str. / cum.	SSW	10	str. / cum.	SSW	10	cum.	SSW	10	cum.	SSW	10.0
„ 8,...	10	sm-cum. / cum.	...	9	str-cum.	...	9	str-cum.	...	9	sm-cum. / cum.	ESE	9.6
„ 9,...	10	nim.	...	10	str-cum.	...	10	str. / cum.	E	9	cum.	E	9.9
„ 10,...	2	sm-cum.	...	3	sm-cum.	...	9	sm-cum.	W	1	sm-cum. / cum.	...	6.4
„ 11,...	7	sm-cum.	...	5	sm-cum.	WSW	1	sm-cum. / cum.	...	10	str-cum.	E	7.4
„ 12,...	9	c-str. / cum.	SW / ..	8	c-str. / cum.	WSW / E	10	str-cum.	...	10	str-cum.	...	9.5
„ 13,...	9	str. / cum.	...	6	sm-cum.	WSW	0	...	...	0	...	...	6.6
„ 14,...	10	str-cum.	E	8	cum.	E	8	cum.	E	10	str-cum.	...	8.5
„ 15,...	1	cum.	...	4	c-str. / cum.	...	8	c-str. / sm-cum.	W	0	...	...	6.6
„ 16,...	8	sm-cum. / cum.	...	7	c-cum. / cum.	W / ..	9	sm-cum.	...	0	...	...	8.0
„ 17,...	5	c-cum. / cum.	WSW	6	c-cum. / cum.	WSW	5	c-cum. / sm-cum.	...	2	cum.	...	3.5
„ 18,...	7	c-str. / sm-cum. / cum.	W / W / ..	7	c-str. / cum.	W / ..	6	c-cum. / sm-cum.	W	3	cum.	...	5.2
„ 19,...	10	sm-cum. / cum.	W / ..	8	c-cum. / cum.	WNW / ESE	9	cum.	ESE	10	cum.	ESE	7.5
„ 20,...	9	sm-cum. / cum.	SSW	8	c-cum. / sm-cum. / cum.	WSW / WSW	9	cum.	SW	10	str-cum.	...	9.3
„ 21,...	7	sm-cum. / cum.	ENE	2	sm-cum. / cum.	...	4	cum.	ENE	10	str-cum.	...	5.7
„ 22,...	7	c-cum. / sm-cum. / cum.	W / .. / ..	7	c-cum. / cum.	W / ..	4	c-cum. / cum.	W / ..	0	...	...	6.9
„ 23,...	10	sm-cum. / cum.	...	10	sm-cum. / cum.	WSW	9	cum.	SW	10	nim.	...	9.0
„ 24,...	10	cum. / R-cum.	W / SSE	10	nim.	...	10	nim.	E	10	cum-nim.	E	10.0
„ 25,...	10	nim.	E	10	nim.	E	10	str-cum.	E	1	cum.	...	8.9
„ 26,...	7	cum.	ESE	3	sm-cum. / cum.	W / ..	1	cum.	...	7	cum.	E	7.1
„ 27,...	9	cum.	ESE	9	cum.	ESE	7	c-cum. / R-cum.	SE	10	cum.	SE	9.0
„ 28,...	5	c-cum. / cum.	SE	8	sm-cum. / cum.	SE	9	sm-cum. / cum.	SE	7	cum.	...	8.4
„ 29,...	10	str-cum.	S	9	cum.	S	10	R-cum.	S	8	cum.	...	8.2
„ 30,...	4	cum.	WSW	3	cum.	WSW	2	cum.	WSW	3	cum.	...	4.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	7.6	...	...	7.0	...	...	6.8	...	...	6.5	...	...	7.8

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF APRIL, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.8	10.1	1.5	0.3	+ 0.3	+ 9.8	E 2° N
2 „	2.1	9.2	1.3	0.3	0.8	8.9	E 5° N
3 „	1.5	9.9	1.4	0.2	0.1	9.7	E
4 „	1.7	9.5	1.2	0.2	0.5	9.3	E 3° N
5 „	1.5	9.5	1.4	0.2	0.1	9.3	E
6 „	1.7	9.5	1.0	0.1	0.7	9.4	E 4° N
7 „	1.5	10.3	1.2	0.1	0.3	10.2	E 2° N
8 „	1.8	11.2	0.9	0.3	+ 0.9	10.9	E 5° N
9 „	2.1	11.3	2.1	0.7	0.0	10.6	E
10 „	1.5	11.1	2.0	1.0	− 0.5	10.1	E 3° S
11 „	1.7	11.2	2.0	1.5	0.3	9.7	E 2° S
Noon.	1.1	12.0	2.8	1.2	1.7	10.8	E 9° S
1 p.	0.9	11.9	2.8	1.2	1.9	10.7	E 10° S
2 „	0.9	11.8	2.2	1.3	1.3	10.5	E 7° S
3 „	1.0	10.2	3.3	1.3	2.3	8.9	E 14° S
4 „	1.7	10.2	2.9	1.3	1.2	8.9	E 8° S
5 „	1.6	10.7	2.9	1.0	1.3	9.7	E 7° S
6 „	1.2	10.1	3.0	0.4	1.8	9.7	E 11° S
7 „	1.2	9.9	2.7	0.5	1.5	9.4	E 9° S
8 „	1.1	8.8	1.8	0.1	− 0.7	8.7	E 5° S
9 „	1.6	9.6	1.3	0.2	+ 0.3	9.4	E 2° N
10 „	1.4	9.0	1.8	0.3	− 0.4	8.7	E 3° S
11 „	1.3	9.0	1.9	0.4	0.6	8.6	E 4° S
Midt.	1.6	8.5	1.8	0.3	− 0.2	+ 8.2	E 1° S
Means, ...	1.5	10.2	2.0	0.6	− 0.49	+ 9.59	E 3° S

PHENOMENA :—

Solar halo :—on the 10th, 11th and 12th.

Lunar corona :— on the 2nd.

Fog :—on the 4th, 8th and 17th.

Slight fog :—on the 3rd and 30th.

Haze :—on the 2nd, 16th, 19th, 21st, 23rd and 29th. .

Dew :—on the 2nd, 3rd, 19th, 22nd and 23rd.

Thunder and lightning :—on the 23rd.

Thunderstorms :—on the 4th, 4.45 p.–5.15 p., SW–NW, nearest at 4.50 p. (19^{s}). On the 20th, 11 a.–12.30 p., NW–SE, nearest at 11.58 a. (5^{s}).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF MAY, 1895.

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,...	29.782	29.777	29.768	29.775	29.768	29.787	29.796	29.819	29.824	29.839	29.836	29.815	29.794	29.767	29.742	29.722	29.724	29.728	29.741	29.738	29.757	29.788	29.802	29.801	29.779
„ 2,...	.795	.774	.763	.759	.767	.789	.800	.826	.830	.822	.822	.812	.782	.761	.747	.732	.732	.739	.753	.774	.801	.821	.830	.818	.785
„ 3,...	.823	.821	.822	.817	.840	.857	.868	.882	.898	.900	.911	.905	.894	.878	.880	.871	.869	.878	.886	.918	.929	.951	.968	.974	.885
„ 4,...	.975	.970	.965	.957	.978	.992	30.015	30.024	30.040	30.045	30.042	30.032	30.005	.980	.970	.953	.947	.970	.976	.982	.997	30.003	.998	.982	.992
„ 5,...	.958	.944	.932	.927	.931	.941	29.966	29.976	29.985	29.980	29.971	29.958	29.925	.898	.873	.857	.836	.845	.835	.842	.850	29.856	.857	.846	.908
„ 6,...	.832	.820	.815	.811	.817	.831	.834	.844	.866	.851	.851	.836	.821	.793	.771	.752	.746	.742	.756	.774	.794	.818	.818	.796	.808
„ 7,...	.776	.766	.746	.752	.775	.791	.815	.819	.823	.824	.814	.796	.786	.763	.752	.755	.739	.752	.760	.781	.801	.807	.806	.809	.784
„ 8,...	.806	.803	.797	.797	.802	.805	.824	.843	.849	.842	.824	.800	.787	.758	.738	.725	.715	.723	.737	.747	.760	.775	.786	.780	.784
„ 9,...	.769	.762	.742	.740	.749	.753	.761	.778	.785	.794	.792	.774	.761	.737	.718	.704	.704	.722	.731	.755	.780	.784	.783	.773	.756
„ 10,...	.774	.748	.740	.744	.738	.750	.750	.772	.782	.797	.794	.791	.780	.767	.763	.751	.763	.789	.811	.830	.836	.842	.841	.828	.783
„ 11,...	.810	.810	.810	.803	.806	.812	.846	.857	.883	.882	.880	.876	.856	.842	.833	.829	.818	.821	.827	.846	.866	.869	.865	.845	.841
„ 12,...	.834	.809	.802	.804	.809	.811	.826	.841	.843	.834	.818	.799	.779	.755	.733	.719	.718	.724	.725	.743	.757	.768	.764	.741	.781
„ 13,...	.730	.732	.722	.722	.732	.734	.760	.758	.752	.744	.732	.710	.692	.662	.639	.632	.619	.623	.635	.651	.671	.682	.682	.690	.696
„ 14,...	.682	.679	.681	.691	.698	.713	.735	.740	.738	.742	.741	.729	.711	.687	.672	.661	.653	.664	.671	.696	.717	.737	.745	.743	.705
„ 15,...	.726	.725	.716	.717	.727	.737	.745	.756	.758	.767	.758	.738	.721	.706	.691	.676	.667	.668	.673	.689	.709	.735	.735	.726	.719
„ 16,...	.721	.721	.713	.714	.716	.721	.729	.738	.734	.737	.732	.718	.691	.672	.660	.640	.641	.648	.663	.677	.700	.714	.702	.703	.700
„ 17,...	.685	.666	.654	.657	.659	.656	.670	.693	.704	.704	.702	.680	.659	.647	.628	.605	.622	.638	.668	.685	.702	.713	.707	.692	.671
„ 18,...	.675	.678	.662	.665	.663	.681	.702	.714	.728	.729	.720	.715	.707	.695	.678	.681	.692	.727	.746	.778	.798	.818	.803	.803	.719
„ 19,...	.784	.777	.762	.776	.777	.778	.799	.815	.833	.851	.847	.823	.810	.788	.756	.755	.750	.761	.766	.790	.786	.775	.777	.758	.787
„ 20,...	.753	.732	.728	.727	.735	.750	.761	.764	.776	.783	.778	.761	.745	.720	.697	.691	.691	.691	.705	.727	.733	.737	.734	.728	.735
„ 21,...	.723	.708	.696	.697	.700	.708	.729	.741	.741	.739	.739	.724	.704	.682	.670	.655	.662	.666	.684	.706	.720	.722	.714	.702	.705
„ 22,...	.697	.688	.678	.676	.679	.678	.690	.708	.725	.728	.725	.710	.688	.668	.651	.636	.640	.645	.657	.672	.692	.704	.713	.706	.686
„ 23,...	.691	.676	.659	.642	.648	.681	.694	.715	.720	.737	.736	.725	.718	.724	.720	.695	.686	.699	.709	.746	.769	.790	.784	.763	.714
„ 24,...	.738	.742	.743	.730	.737	.746	.759	.765	.757	.771	.772	.753	.733	.706	.680	.681	.685	.696	.701	.703	.709	.713	.712	.709	.727
„ 25,...	.691	.687	.674	.664	.668	.670	.687	.712	.717	.704	.712	.695	.680	.662	.636	.620	.606	.612	.619	.634	.642	.658	.665	.664	.666
„ 26,...	.662	.665	.662	.653	.647	.656	.673	.682	.680	.678	.664	.649	.629	.598	.584	.584	.571	.572	.585	.591	.610	.631	.640	.622	.633
„ 27,...	.588	.570	.574	.583	.590	.587	.611	.618	.629	.633	.636	.624	.605	.589	.589	.578	.579	.578	.606	.614	.635	.652	.643	.640	.606
„ 28,...	.626	.602	.596	.598	.601	.613	.628	.637	.648	.654	.654	.650	.642	.636	.637	.603	.597	.610	.639	.650	.662	.675	.661	.656	.632
„ 29,...	.648	.627	.619	.618	.622	.639	.640	.646	.653	.662	.659	.654	.640	.640	.629	.614	.616	.624	.633	.660	.677	.692	.693	.686	.645
„ 30,...	.682	.668	.662	.666	.669	.673	.697	.700	.705	.709	.715	.702	.664	.658	.630	.641	.645	.665	.675	.698	.718	.719	.740	.722	.684
„ 31,...	.694	.680	.673	.677	.676	.680	.700	.709	.734	.730	.723	.713	.703	.690	.670	.659	.665	.685	.700	.711	.725	.719	.723	.704	.698
Means,.....	29.746	29.736	29.728	29.728	29.733	29.743	29.758	29.771	29.779	29.781	29.777	29.763	29.746	29.727	29.711	29.699	29.697	29.707	29.718	29.736	29.752	29.763	29.764	29.755	29.742

TABLE II.

TEMPERATURE FOR THE MONTH OF MAY, 1895

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,	75.6	75.6	75.8	76.1	76.3	76.8	77.7	78.3	78.9	81.2	82.0	83.6	84.7	83.6	81.8	82.3	81.5	79.6	78.9	78.3	78.5	78.2	77.3	77.6	79.2	85.4	75.0
„ 2,	77.2	77.1	76.7	76.2	76.3	76.5	76.9	80.1	80.3	81.0	81.1	84.6	82.9	82.7	82.7	82.3	82.1	80.0	79.9	79.0	78.7	77.6	77.2	77.0	79.4	85.2	75.6
„ 3,	76.7	76.6	76.2	75.9	75.4	75.5	77.4	79.8	80.3	81.4	82.9	80.5	81.7	79.0	81.4	82.0	81.9	80.1	78.9	78.0	78.1	76.0	74.9	73.8	78.5	83.9	73.8
„ 4,	72.7	71.9	71.6	70.1	70.5	69.8	70.3	70.5	71.8	69.0	70.1	70.6	71.1	70.6	71.6	71.7	71.3	70.7	70.8	70.7	71.2	71.2	71.1	70.9	70.9	73.4	68.7
„ 5,	71.0	70.8	70.7	70.9	70.7	70.7	71.8	72.2	72.8	73.8	74.3	74.4	74.8	74.0	73.9	73.5	72.5	72.0	71.2	71.0	70.8	70.7	70.6	70.5	72.1	75.4	69.9
„ 6,	70.3	70.6	70.3	69.8	69.7	70.9	73.2	75.0	75.2	75.4	75.0	75.6	77.0	78.8	79.4	80.3	79.0	78.6	75.3	74.6	74.6	73.9	73.1	73.1	74.5	81.0	69.3
„ 7,	72.8	72.2	72.2	72.4	72.4	72.7	75.2	75.8	77.3	79.2	80.0	79.8	82.0	82.7	83.5	81.0	80.0	78.1	77.0	76.3	76.9	76.0	74.8	74.6	76.9	84.2	72.0
„ 8,	74.2	73.6	72.8	72.8	72.7	74.2	75.4	77.5	80.2	81.4	83.5	84.9	84.0	86.9	86.4	83.2	81.6	79.3	77.9	78.3	77.0	75.7	75.6	75.1	78.5	87.0	72.5
„ 9,	75.1	74.7	74.0	73.8	74.4	75.5	75.7	77.2	78.8	80.8	80.1	81.5	82.0	79.2	80.0	78.5	80.0	77.2	76.6	76.4	76.3	75.8	75.7	75.6	77.3	82.0	73.7
„ 10,	75.7	75.7	75.8	75.7	75.9	76.2	76.9	77.1	78.0	78.8	79.7	79.0	78.5	78.5	76.6	76.8	76.5	74.0	74.2	74.3	74.5	74.7	74.8	75.1	76.4	79.7	74.0
„ 11,	74.7	74.1	74.0	74.3	74.1	74.4	74.7	75.0	72.6	74.9	74.6	73.8	74.7	77.7	76.8	75.0	73.8	73.2	73.2	73.5	73.4	73.4	73.4	73.3	74.3	78.3	72.4
„ 12,	73.2	72.6	72.2	72.2	72.1	73.0	73.9	74.8	76.3	77.4	79.6	79.1	79.4	79.5	78.0	77.1	76.0	75.1	74.0	73.7	73.9	73.5	73.2	72.7	75.1	79.9	72.1
„ 13,	72.4	71.6	71.4	71.4	71.5	72.7	73.9	75.7	77.1	78.3	81.8	81.6	82.7	83.5	81.8	82.0	80.7	78.0	75.9	74.8	75.0	74.0	74.0	75.0	76.5	84.0	71.2
„ 14,	74.8	74.8	74.7	73.7	73.6	74.3	75.6	77.9	79.7	79.7	79.8	81.7	81.9	82.1	81.0	81.3	81.0	79.2	77.5	77.0	76.6	76.0	75.3	75.0	77.7	82.6	73.3
„ 15,	75.9	75.8	75.6	75.3	75.6	76.0	77.5	79.0	80.0	81.1	82.0	84.0	83.5	83.0	85.2	84.2	82.0	80.2	78.0	77.6	77.3	77.1	77.2	76.8	79.2	86.1	74.8
„ 16,	77.0	76.5	76.5	76.3	76.2	76.4	78.5	80.0	82.1	82.2	84.9	85.5	86.7	85.0	85.9	82.2	81.8	80.7	78.8	79.0	78.9	77.9	78.2	78.3	80.2	86.7	75.9
„ 17,	78.3	78.1	77.5	77.6	77.9	77.8	79.1	81.1	83.0	84.1	85.7	87.1	88.0	86.0	87.0	84.9	83.0	82.2	81.2	78.9	79.0	78.6	78.7	78.5	81.4	88.6	77.1
„ 18,	78.4	78.3	77.8	78.1	78.0	78.6	79.7	80.7	80.8	82.0	81.0	79.7	77.2	76.6	76.0	75.1	74.0	73.1	72.9	72.5	72.4	71.0	69.9	70.6	76.4	82.0	69.9
„ 19,	70.1	69.4	69.6	69.6	70.7	71.6	71.7	72.0	71.9	72.3	72.1	72.0	72.4	72.6	73.0	72.6	72.3	71.6	71.4	72.1	72.8	74.2	74.1	73.8	71.9	74.2	69.4
„ 20,	73.6	74.6	75.6	75.9	75.6	76.0	76.2	80.0	79.7	80.6	81.6	80.7	80.2	80.7	82.0	80.2	80.1	79.7	79.1	79.0	78.9	79.0	78.6	78.9	78.6	82.5	73.5
„ 21,	79.4	79.3	79.1	79.6	78.8	78.8	79.5	80.6	81.3	82.4	82.0	84.2	84.6	85.3	84.9	83.1	82.7	81.9	81.2	81.0	81.1	81.0	81.0	81.1	81.4	86.2	78.5
„ 22,	80.5	81.4	80.8	80.2	80.6	80.7	80.8	81.7	82.0	84.8	84.2	81.6	84.4	83.4	83.7	82.8	83.0	82.1	81.7	81.3	81.2	81.3	81.4	81.8	82.0	85.4	79.8
„ 23,	81.3	81.0	80.7	80.8	80.1	78.9	76.7	77.0	76.8	79.2	76.8	75.0	75.1	73.8	73.1	74.2	74.6	72.1	71.2	71.1	71.1	71.4	70.7	70.9	75.6	81.8	70.4
„ 24,	71.1	71.0	71.0	70.9	71.1	70.8	70.6	70.6	70.5	72.0	71.3	72.2	72.5	72.2	71.4	70.8	71.6	71.8	71.2	71.2	71.2	71.7	71.9	72.0	71.4	73.3	70.3
„ 25,	71.8	71.3	71.6	71.8	72.1	72.6	74.0	74.6	74.9	77.8	79.6	80.1	80.6	81.6	82.5	82.0	82.3	79.6	77.6	76.8	75.9	75.4	75.2	76.0	76.6	84.0	70.2
„ 26,	75.7	76.2	76.4	76.6	76.7	77.0	77.6	79.4	81.0	82.9	84.0	84.1	83.6	84.1	83.2	81.9	81.6	80.9	78.4	79.5	79.5	80.0	81.0	80.9	80.0	84.4	75.4
„ 27,	80.1	80.0	80.6	80.0	80.2	80.7	81.0	82.1	84.0	84.1	85.0	85.1	85.5	86.5	84.4	83.8	82.6	80.6	79.7	79.5	79.6	78.8	80.2	80.6	81.9	87.4	78.9
„ 28,	80.5	80.3	80.0	79.1	78.8	79.7	81.0	81.4	80.8	81.9	82.2	80.0	77.3	76.0	75.3	75.0	75.6	75.5	75.6	75.6	76.4	76.6	76.4	75.8	78.2	82.6	74.6
„ 29,	75.1	75.4	75.0	74.8	74.7	74.8	75.0	75.1	75.0	75.1	75.6	76.0	75.9	76.6	76.9	77.3	75.6	76.0	75.6	75.5	75.6	75.6	75.7	75.6	75.6	78.3	74.0
„ 30,	75.6	75.5	75.6	75.8	75.7	76.0	76.4	78.8	78.3	79.2	78.8	80.8	80.3	80.7	82.0	81.2	80.5	79.0	78.9	78.3	78.0	78.0	78.0	77.9	78.3	83.0	75.5
„ 31,	77.6	77.8	77.7	76.6	77.4	77.8	77.9	77.4	77.9	78.2	78.7	79.7	78.4	78.3	79.4	79.0	79.8	79.2	78.0	77.1	77.0	77.1	76.8	76.6	78.0	80.1	76.5
Means,	75.4	75.3	75.1	75.0	75.0	75.4	76.2	77.4	78.0	79.1	79.7	80.0	80.1	80.0	80.0	79.3	78.7	77.5	76.5	76.2	76.2	75.9	75.7	75.7	77.2	82.2	73.5

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF MAY, 1895.

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, ...	74.7	74.6	74.4	74.5	74.7	75.0	75.8	75.9	76.6	76.8	76.5	77.8	77.9	76.8	76.9	76.2	76.0	75.5	75.3	75.2	75.0	75.1	74.8	74.8	75.7	137.6
„ 2, ...	74.7	74.7	74.5	74.6	74.6	75.0	75.0	76.2	76.0	76.2	77.2	78.4	77.1	77.2	75.9	77.2	76.9	76.1	76.0	75.9	76.3	75.8	75.9	75.7	76.0	145.7
„ 3, ...	75.6	75.5	75.3	75.0	74.7	74.8	75.8	76.2	76.0	76.4	77.1	76.2	76.3	76.0	76.5	75.2	74.0	73.2	73.3	72.3	71.5	73.1	71.7	71.0	74.7	142.2
„ 4, ...	70.6	68.8	67.8	67.6	68.6	67.8	65.9	67.3	68.2	68.2	68.0	67.0	66.8	66.6	66.7	67.4	67.2	67.2	67.3	66.8	66.8	67.4	67.5	67.0	67.5	93.4
„ 5, ...	66.5	65.8	65.5	64.8	64.4	64.3	64.6	64.4	65.2	64.8	64.9	62.0	64.2	64.9	64.8	65.1	65.9	66.1	66.2	66.5	66.8	67.3	67.5	67.6	65.4	131.8
„ 6, ...	68.0	68.4	68.3	68.3	68.7	69.2	70.3	70.4	70.9	71.7	71.5	72.0	72.0	71.0	71.6	72.0	70.9	70.8	70.8	70.7	70.9	71.0	70.8	70.8	70.5	133.5
„ 7, ...	70.6	70.5	70.6	70.7	70.4	71.1	72.1	72.2	72.7	73.7	74.1	74.0	73.9	73.2	74.0	73.2	72.8	71.2	70.9	71.2	71.8	71.9	72.0	71.9	72.1	138.5
„ 8, ...	71.7	71.8	71.3	71.7	71.5	72.1	73.0	73.1	74.0	73.3	74.0	73.9	74.9	77.0	76.2	74.6	74.0	73.3	73.4	73.7	73.8	73.6	73.4	73.4	73.4	136.4
„ 9, ...	73.3	73.3	72.6	72.3	72.6	73.6	73.8	74.0	74.2	73.1	73.2	74.0	75.9	74.7	74.6	74.4	74.9	74.1	73.8	73.7	73.8	73.6	73.9	73.9	73.8	137.3
„ 10, ...	73.9	73.9	74.2	74.4	74.2	74.4	74.9	75.0	75.6	75.8	75.7	75.1	75.0	75.1	73.8	73.8	73.9	73.3	71.8	70.6	69.8	69.5	68.9	69.1	73.4	109.0
„ 11, ...	69.2	68.5	67.8	68.6	69.4	69.5	68.5	68.8	70.3	70.2	70.1	69.9	70.0	70.9	70.8	69.5	68.7	68.5	68.2	68.9	68.7	67.4	66.4	66.6	69.0	131.6
„ 12, ...	65.6	64.6	63.6	63.9	62.3	62.2	63.7	63.7	64.6	65.3	66.5	66.3	67.3	67.1	67.2	68.0	68.5	68.0	67.1	66.2	67.5	66.9	67.5	68.5	65.9	132.5
„ 13, ...	68.7	68.7	68.2	68.2	68.1	69.0	69.0	70.0	69.9	70.0	71.5	71.7	73.0	73.6	73.3	73.1	73.0	72.2	71.1	71.0	70.9	71.0	71.0	71.1	70.7	135.6
„ 14, ...	71.0	71.2	70.8	69.6	69.6	70.7	71.7	73.1	73.9	72.8	72.7	72.6	73.0	72.0	72.9	73.1	72.2	71.3	71.2	71.5	71.4	72.1	72.0	72.0	71.8	139.7
„ 15, ...	71.9	72.5	72.4	72.7	72.7	72.9	72.9	73.2	73.3	73.2	74.1	75.1	74.6	74.1	76.1	75.7	75.1	74.0	73.9	73.6	73.4	73.6	73.2	73.6	73.7	141.1
„ 16, ...	72.8	72.7	72.8	72.9	73.0	72.8	73.0	72.1	73.6	73.5	75.0	74.0	75.8	74.7	75.8	74.1	74.0	73.8	74.0	73.9	74.0	73.9	73.4	73.5	73.7	138.1
„ 17, ...	73.7	73.3	73.6	73.4	73.6	74.1	75.2	76.0	77.1	77.3	78.2	79.1	78.9	77.5	76.1	77.0	77.1	76.4	77.3	78.0	77.0	77.3	77.4	77.4	76.3	147.6
„ 18, ...	77.3	77.2	76.4	76.5	76.2	76.2	77.1	76.8	76.2	76.1	75.4	75.2	74.8	74.7	73.6	73.0	71.8	71.7	71.5	71.0	70.8	70.0	68.6	68.7	74.0	117.1
„ 19, ...	68.8	68.5	67.8	67.4	66.7	68.0	68.3	68.5	68.6	69.0	69.4	69.3	69.9	70.0	69.9	69.6	69.2	69.5	70.2	70.9	71.0	72.8	73.1	73.6	69.6	93.5
„ 20, ...	73.0	73.3	73.7	74.1	74.5	75.1	75.1	76.2	75.8	76.6	77.0	77.1	76.3	77.0	77.6	77.0	76.9	76.4	75.6	75.5	75.9	76.0	75.7	75.6	75.7	134.2
„ 21, ...	75.6	76.0	75.9	76.0	75.9	76.3	76.5	76.4	77.1	76.9	77.2	78.8	79.1	79.7	79.4	77.8	78.0	77.2	77.1	77.3	77.4	77.3	77.9	77.3	77.3	142.2
„ 22, ...	77.8	77.0	77.1	77.3	77.0	77.1	76.4	77.2	77.4	78.2	77.3	77.2	78.8	78.2	78.8	78.2	78.0	77.9	77.8	77.7	77.4	77.6	77.2	77.7	77.6	139.0
„ 23, ...	77.9	77.8	77.6	78.0	78.1	77.0	75.6	75.2	76.0	76.8	76.2	73.4	72.3	72.2	71.2	71.2	71.1	70.4	70.3	70.0	69.4	69.8	69.0	69.1	73.6	102.1
„ 24, ...	69.1	69.0	69.0	69.1	69.1	69.0	69.0	69.0	68.9	69.3	69.6	70.1	70.5	70.6	70.3	70.0	70.4	69.9	70.0	69.5	69.6	70.1	70.3	70.6	69.7	130.5
„ 25, ...	70.9	70.9	71.1	71.2	71.4	71.0	72.1	72.5	72.6	72.4	74.1	74.6	74.4	74.9	75.2	73.7	72.7	72.4	73.0	73.3	73.8	72.7	73.8	73.0	72.8	135.1
„ 26, ...	73.4	73.7	75.1	74.4	74.5	75.0	75.5	77.0	77.0	78.0	78.0	77.9	78.0	78.2	77.8	76.2	76.7	76.6	76.5	76.9	77.0	77.1	77.7	76.6	76.5	140.8
„ 27, ...	77.2	76.8	75.4	76.5	76.8	77.2	77.5	78.0	78.9	78.8	78.5	78.3	78.2	78.3	78.5	77.8	77.6	78.5	78.6	78.6	77.9	78.0	77.6	77.3	77.8	144.2
„ 28, ...	77.3	77.9	77.1	77.2	77.4	77.7	78.8	79.0	78.7	79.7	79.8	77.6	76.4	73.9	74.8	74.3	74.5	74.2	73.7	73.6	73.8	75.5	75.2	74.8	76.4	136.7
„ 29, ...	74.4	74.3	74.2	74.3	74.4	74.0	74.1	74.0	74.0	74.6	74.7	74.8	74.5	75.1	75.8	75.4	74.6	74.9	74.6	74.4	74.6	74.7	74.8	74.9	74.6	129.8
„ 30, ...	75.0	75.0	75.2	75.3	75.2	75.4	76.0	77.2	76.4	76.8	76.9	77.5	76.9	77.4	78.9	77.8	77.9	77.3	77.1	77.0	76.9	76.9	76.9	76.7	76.6	138.0
„ 31, ...	76.1	76.1	76.0	76.2	76.3	76.7	76.8	76.8	77.0	76.0	76.0	76.8	76.5	75.4	77.2	75.1	74.9	75.0	75.4	75.4	75.7	75.8	75.7	75.6	76.0	122.0
Means, ...	72.8	72.7	72.4	72.5	72.5	72.7	73.0	73.4	73.8	73.9	74.2	74.1	74.3	74.1	74.3	73.8	73.5	73.1	73.0	72.9	72.9	73.1	72.9	72.9	73.3	131.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF MAY, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	88	0.777	May 1,.....	85	0.843
2 „	88	.774	„ 2,.....	85	.852
3 „	87	.764	„ 3,.....	83	.809
4 „	88	.770	„ 4,.....	83	.629
5 „	88	.770	„ 5,.....	68	.538
6 „	87	.773	„ 6,.....	81	.693
7 „	85	.774	„ 7,.....	78	.724
8 „	82	.774	„ 8,.....	78	.756
9 „	81	.783	„ 9,.....	84	.788
10 „	77	.772	„ 10,.....	86	.784
11 „	76	.777	„ 11,.....	75	.639
Noon.	74	.768	„ 12,.....	59	.515
1 p.	75	.775	„ 13,.....	74	.674
2 „	74	.768	„ 14,.....	74	.702
3 „	75	.777	„ 15,.....	76	.759
4 „	76	.765	„ 16,.....	72	.745
5 „	77	.761	„ 17,.....	78	.839
6 „	80	.761	„ 18,.....	89	.807
7 „	84	.770	„ 19,.....	89	.694
8 „	85	.770	„ 20,.....	87	.851
9 „	85	.770	„ 21,.....	83	.884
10 „	87	.783	„ 22,.....	81	.888
11 „	87	.777	„ 23,.....	91	.803
Midt.	87	.777	„ 24,.....	92	.705
			„ 25,.....	83	.756
			„ 26,.....	84	.866
			„ 27,.....	83	.898
			„ 28,.....	92	.887
			„ 29,.....	95	.845
			„ 30,.....	92	.894
			„ 31,.....	91	.872
Means,.....	82	0.772	Means.	82	0.772

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.
1895.														
May 1,.....	...	0.4	...	...	0.4	0.6	0.9	0.8	0.8	0.7	1.0	0.6	...	6.2
„ 2,.....	0.1	0.3	0.5	0.5	0.1	0.5	0.7	0.2	0.9	0.9	1.0	0.7	...	6.4
„ 3,.....	0.2	1.0	1.0	1.0	0.8	0.9	0.2	0.2	0.2	0.6	0.5	0.4	...	7.0
„ 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,.....	0.2	0.8	0.6	0.4	0.6	1.0	1.0	1.0	1.0	1.0	0.6	...	...	8.2
„ 6, ...	...	0.3	1.0	0.2	...	0.1	...	0.3	0.7	1.0	1.0	1.0	0.3	5.9
„ 7,.....	...	0.2	0.9	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	10.3
„ 8,.....	0.1	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	10.6
„ 9,.....	0.2	0.7	1.0	1.0	1.0	1.0	0.9	1.0	0.8	0.5	0.1	0.5	0.2	8.9
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	0.1	...	0.1	0.6	0.1	0.2	...	...	1.1
„ 12,.....	0.2	0.9	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	11.0
„ 13,.....	0.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	11.2
„ 14,.....	0.1	0.6	1.0	0.9	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.4	10.7
„ 15,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0	1.0	1.0	0.3	11.3
„ 16,.....	0.1	0.4	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.7	1.0	0.6	10.5
„ 17,.....	...	...	0.6	0.9	1.0	1.0	0.8	0.5	0.7	0.8	0.2	...	...	6.5
„ 18,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,.....	...	...	0.1	...	0.5	0.5	0.3	0.1	0.6	0.4	0.5	...	...	3.0
„ 21,.....	...	0.1	0.1	0.1	0.1	0.9	0.8	1.0	1.0	0.9	0.1	0.1	...	5.2
„ 22,.....	...	0.2	0.7	1.0	1.0	0.8	0.3	0.4	0.8	0.6	0.2	...	...	6.0
„ 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,.....	...	...	...	...	...	...	0.1	...	...	...	...	...	...	0.1
„ 25,.....	...	0.9	0.1	0.3	0.6	1.0	0.4	0.2	0.9	1.0	1.0	1.0	0.3	7.7
„ 26,.....	...	...	0.4	0.9	0.9	0.8	1.0	0.2	0.7	0.1	0.8	0.7	0.3	6.8
„ 27,.....	...	0.1	0.4	0.8	0.8	0.7	0.2	0.3	0.6	0.2	...	...	...	4.1
„ 28,.....	...	0.1	0.2	0.3	...	0.1	...	...	...	...	...	...	...	0.7
„ 29,.....	...	...	...	...	0.2	...	...	...	...	...	...	...	...	0.2
„ 30,.....	...	...	0.6	0.2	...	...	0.6	0.4	0.5	0.8	0.9	...	...	4.0
„ 31,.....	...	...	...	...	...	...	...	...	...	0.3	0.7	0.2	...	1.2
Sums.....	1.5	8.9	13.7	14.2	14.8	16.9	15.2	13.5	17.8	16.9	15.5	12.2	3.7	164.8

TABLE VI.

RAINFALL FOR THE MONTH OF MAY, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	0.040	0.060	...	0.010	...	...	...	...	...	...	...	...	0.110	2
" 4,	...	...	...	0.030	0.020	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.065	7
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	0.035	0.005	...	0.175	0.005	...	...	...	...	...	0.240	5
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.050	0.075	0.010	...	...	0.135	2
" 18,	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.005	...	...	...	...	0.015	0.015	0.045	0.010	0.005	0.100	10
" 19,	0.020	0.035	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.030	0.030	0.020	0.055	0.065	0.060	0.055	0.060	0.435	12
" 20,	0.060	0.020	0.015	0.005	0.020	0.110	0.050	...	...	...	...	...	...	...	...	0.005	...	0.005	0.005	...	...	...	...	...	0.295	6
" 21,	...	...	...	...	...	0.050	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.070	1
" 22,	...	...	0.005	0.015	...	...	...	...	...	...	...	0.230	0.020	...	...	...	...	...	...	...	...	...	...	...	0.270	2
" 23,	...	0.175	0.210	...	...	0.230	0.085	0.075	0.115	...	...	0.015	0.005	...	0.085	...	...	...	0.110	0.005	0.005	0.025	0.065	0.070	1.275	14
" 24,	...	...	0.005	...	...	...	...	...	...	...	...	...	0.005	...	...	0.220	0.005	...	...	...	...	...	0.005	0.005	0.245	4
" 25,	0.005	0.005	0.005	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	4
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	...
" 28,	0.030	0.020	0.005	...	...	...	...	...	...	...	...	...	0.800	0.070	0.130	...	...	...	...	...	...	0.015	0.010	...	1.080	6
" 29,	0.070	0.045	0.060	0.010	0.190	0.200	0.100	0.050	0.070	0.020	0.015	0.015	0.020	0.020	...	...	...	...	...	...	0.045	...	...	...	0.930	15
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 31,	...	...	...	...	0.010	0.015	...	0.010	...	0.015	...	...	0.260	0.040	...	...	...	...	...	...	...	...	...	...	0.350	4
Sums,	0.185	0.300	0.305	0.065	0.245	0.625	0.255	0.135	0.185	0.035	0.015	0.265	1.150	0.210	0.255	0.245	0.035	0.210	0.140	0.125	0.205	0.155	0.145	0.150	5.640	97

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF MAY, 1895.

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	27	7	22	7	25	4	25	3	14	3	14	3	14	2	24	5	25	4	27	6	18	5	23	8	18	5	17	8	14	12	17	12	16	9	15	6	15	3	15	5	15	5	...	1	...	1	15	2	126	5.2	18
„ 2	...	1	11	3	12	3	9	4	6	2	6	4	10	6	17	7	16	6	16	6	16	8	15	8	15	10	14	11	15	11	14	7	15	8	15	9	15	6	13	5	14	5	7	4	7	3	6	2	139	5.8	14
„ 3	...	0	6	3	6	2	6	4	32	2	11	3	6	2	6	4	11	6	9	12	9	11	10	9	23	9	23	12	23	5	32	6	1	8	32	4	3	3	2	6	5	17	7	26	7	31	7	29	214	8.9	6
„ 4	7	26	5	12	5	13	3	9	5	13	1	10	3	4	8	8	6	6	2	5	4	12	7	17	6	20	7	19	7	16	7	16	7	17	8	17	7	18	7	15	6	17	7	18	7	19	7	22	349	14.5	6
„ 5	7	29	7	31	7	26	7	28	7	26	7	24	8	23	8	26	8	28	9	28	9	28	7	21	7	21	8	21	9	17	9	19	9	18	8	14	7	15	8	15	8	13	8	12	9	10	8	7	500	20.8	8
„ 6	8	7	8	7	...	1	...	1	...	0	8	2	8	3	6	4	9	6	9	8	9	8	7	12	7	8	14	7	14	7	15	6	15	8	16	9	15	5	15	4	15	2	...	0	...	1	14	3	119	5.0	11
„ 7	15	3	...	0	...	1	...	1	...	1	...	1	...	0	15	4	10	4	9	6	9	7	9	7	24	8	15	6	18	8	15	11	14	11	15	8	14	8	15	7	16	4	16	5	16	2	19	2	115	4.8	14
„ 8	...	1	.	0	...	0	19	3	...	0	19	2	...	1	19	3	24	7	24	6	23	6	20	4	26	4	25	6	27	5	15	10	16	10	14	11	14	9	14	8	14	3	12	6	10	9	7	7	121	5.0	17
„ 9	...	1	7	2	...	1	...	1	13	4	8	8	8	11	8	10	7	14	7	13	8	16	7	20	7	20	7	20	7	18	8	12	7	11	8	11	8	12	8	6	8	6	8	10	8	10	9	10	247	10.3	8
„ 10	9	9	8	10	9	11	9	11	9	7	9	5	9	8	9	8	9	6	9	9	10	8	8	13	9	11	32	6	25	3	22	4	23	4	1	12	8	5	3	11	1	22	32	22	1	19	1	17	241	10.0	5
„ 11	1	14	1	14	1	18	1	14	1	12	3	4	2	6	5	21	6	22	6	23	7	22	5	12	2	9	9	14	9	19	9	19	9	18	8	15	8	17	7	17	8	13	9	16	8	25	7	21	385	16.0	6
„ 12	7	22	7	22	7	21	7	20	7	19	7	19	7	15	3	7	9	8	9	11	9	10	9	12	8	12	8	10	8	11	8	11	8	10	8	12	9	15	9	18	9	14	7	15	7	17	7	18	350	14.6	8
„ 13	7	15	7	14	7	13	8	12	7	11	6	7	6	6	9	5	9	2	24	7	24	7	24	8	28	8	29	8	27	8	26	7	29	7	27	5	14	4	14	4	14	3	14	2	10	6	12	9	178	7.4	6
„ 14	10	7	10	8	9	10	8	6	10	4	9	6	9	3	8	10	7	14	8	15	8	15	8	13	9	12	8	12	7	12	8	10	12	7	15	9	14	10	9	6	8	8	7	6	7	3	...	1	207	8.6	9
„ 15	5	3	7	6	9	11	9	13	8	13	10	9	9	7	9	11	11	11	8	9	9	8	7	8	7	8	9	5	27	9	24	9	28	8	28	2	31	2	...	1	15	7	16	4	17	4	17	3	171	7.1	9
„ 16	18	5	19	5	17	5	16	2	16	2	16	4	16	6	16	7	20	6	25	8	27	10	24	10	24	11	22	8	23	8	16	9	16	12	16	11	16	6	18	6	17	8	17	6	18	6	18	7	168	7.0	19
„ 17	20	7	19	8	19	8	19	3	19	2	19	2	23	5	24	5	28	9	25	10	24	10	24	11	22	10	22	12	21	10	22	8	23	7	21	6	22	6	22	8	23	5	23	5	...	1	...	1	159	6.6	22
„ 18	23	2	...	0	23	3	23	3	23	2	...	1	23	2	23	2	23	4	8	8	10	16	9	25	9	24	7	21	7	24	7	27	7	31	7	32	7	32	6	33	7	35	6	36	7	39	7	35	437	18.2	7
„ 19	7	35	7	33	7	35	7	34	7	32	7	35	7	32	7	33	7	31	7	27	7	27	7	29	7	29	7	29	7	31	7	36	6	34	7	32	7	31	8	28	8	32	8	35	9	32	9	33	765	31.9	7
„ 20	9	27	10	27	10	22	12	22	11	17	11	18	12	14	14	16	15	17	15	16	15	14	15	13	15	13	15	14	15	10	15	11	15	11	16	12	17	8	15	5	16	6	15	6	16	8	17	10	337	14.0	13
„ 21	18	15	17	13	17	17	18	15	18	13	18	18	18	15	18	17	18	17	18	24	19	21	19	19	19	17	19	16	19	17	18	14	18	13	17	11	18	11	18	15	18	11	19	7	15	5	17	10	351	14.6	18
„ 22	16	11	17	15	17	16	18	14	18	18	19	19	19	23	20	19	21	17	19	24	19	24	18	21	19	21	19	26	19	17	18	22	19	16	19	17	20	11	20	9	19	10	19	11	19	8	19	16	405	16.9	19
„ 23	18	14	17	13	19	14	18	18	18	22	24	18	23	8	22	5	26	5	22	2	8	9	9	18	7	19	5	18	6	21	6	23	7	32	7	28	7	28	7	29	7	30	7	30	7	30	7	32	466	19.4	8
„ 24	7	33	7	27	7	28	7	26	6	28	7	26	7	27	7	27	7	30	7	28	7	25	7	27	7	27	7	29	7	23	6	18	7	15	7	19	7	17	7	21	7	21	7	18	8	15	9	13	568	23.7	7
„ 25	9	10	9	3	...	1	9	2	25	5	27	2	31	2	24	14	27	10	26	8	23	7	22	10	22	7	23	8	24	7	23	8	23	6	26	6	...	1	22	2	26	5	22	3	23	3	7	2	132	5.5	24
„ 26	7	3	3	2	23	5	23	3	...	1	...	1	...	1	23	2	27	5	28	7	24	8	25	10	23	8	23	6	16	11	16	9	13	5	14	7	14	5	14	4	13	5	15	6	16	11	16	6	131	5.5	19
„ 27	15	10	16	14	17	8	17	5	15	8	14	11	15	5	15	6	16	11	16	10	16	10	16	11	11	6	16	10	15	10	16	11	16	9	8	14	9	12	9	13	11	10	9	9	11	10	14	10	233	9.7	14
„ 28	14	9	13	7	14	10	14	4	9	3	...	1	...	0	2	3	8	8	9	9	8	10	25	9	25	11	17	5	5	4	3	3	5	5	8	13	9	13	8	8	8	10	8	13	8	22	7	19	199	8.3	9
„ 29	7	18	7	21	7	21	7	22	6	21	7	23	7	19	7	24	7	25	7	24	6	24	7	23	7	21	7	16	7	16	7	16	7	17	7	14	9	14	9	13	8	14	7	13	7	12	7	12	443	18.5	7
„ 30	7	11	7	11	7	12	8	9	7	11	8	10	8	15	8	14	8	16	7	13	7	12	7	13	7	16	8	13	7	7	7	10	7	13	9	11	7	10	9	8	9	10	9	7	9	4	8	4	260	10.8	8
„ 31	9	3	8	3	...	1	9	3	8	4	9	7	8	6	9	8	9	9	16	8	15	8	28	6	26	8	24	2	1	3	7	4	14	5	14	6	9	8	8	7	6	8	10	7	9	6	7	6	136	5.7	9
Sums	...	358	...	341	...	341	...	315	...	306	...	303	...	277	...	335	...	364	...	390	...	406	...	427	...	414	...	398	...	380	...	388	...	385	...	383	...	345	...	337	...	359	...	359	...	372	...	369	8652	360.5	...
Means	...	11.5	...	11.0	...	11.0	...	10.2	...	9.9	...	9.8	...	8.9	...	10.8	...	11.7	...	12.6	...	13.1	...	13.8	...	13.4	...	12.8	...	12.3	...	12.5	...	12.4	...	12.4	...	11.1	...	10.9	...	11.6	...	11.6	...	12.0	...	11.9	279.1	11.6	...

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
1895.												
May 1, ...	4	cum.	...	8	cum.	SW	3	cum.	W	9	cum.	WSW
„ 2, ...	6	cum.	...	4	cum.	SW	4	cum.	SSW	8	cum.	SSW
„ 3, ...	3	cum.	...	4	cum.	SW	1	cum.	...	8	cum./cum.	SW/ENE
„ 4, ...	10	nim.	...	10	nim.	...	10	nim.	NE	10	nim.	...
„ 5, ...	10	cum.	...	10	str-cum.	...	5	c-cum.	NW	2	c-cum.	WNW
„ 6, ...	0	...	...	0	...	...	8	sm-cum./cum.	WNW/SSW	9	sm-cum./cum.	...
„ 7, ...	0	...	...	4	cum.	S	7	cum.	SSW	2	cum.	SSW
„ 8, ...	0	...	...	0	...	...	4	sm-cum.	W	1	sm-cum./cum.	...
„ 9, ...	0	...	...	2	c-str.	...	3	c-cum.	...	2	c-cum./cum.	W/E
„ 10, ...	7	cum.	SE	10	cum.	SE	10	nim.	ESE	10	str-cum.	...
„ 11, ...	10	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	ENE
„ 12, ...	10	str-cum.	E	0	...	...	0	...	...	1	sm-cum.	...
„ 13, ...	0	...	...	0	...	...	1	sm-cum.	...	0	...	...
„ 14, ...	10	cum.	...	4	cum.	...	2	cum.	ESE	4	c-cum./cum.	ESE
„ 15, ...	9	cum.	E	5	cum.	E	6	c-cum./cum.	N/E	4	c-cum./cum.	NNW/SSE
„ 16, ...	5	cum.	SSE	4	cum.	S	7	cum.	WSW	2	cum.	W
„ 17, ...	7	c-cum./cum.	...	7	c-str./cum.	W	8	c-str./sm-cum./cum.	../W/WSW	3	c-cum./cum.	NNW/W
„ 18, ...	10	str-cum.	...	9	sm-cum./cum.	WSW	10	sm-cum./cum.	WSW	10	str-cum.	WSW
„ 19, ...	10	nim.	...	10	nim.	...	10	cum-nim.	E	10	str-cum.	E
„ 20, ...	10	nim.	...	10	nim.	...	10	nim.	SSE	9	c-str./cum.	SSW
„ 21, ...	10	cum.	...	9	cum.	...	9	sm-cum/cum.	SW	9	c-cum./cum.	SW
„ 22, ..	7	cum.	SSW	7	nim.	SW	5	c-cum./cum.	SW	8	c-cum./cum.	SW
„ 23, ...	8	c-cum./cum.	SW	10	cum.	SW	10	nim.	SW	10	cum-str.	WSW
„ 24, ...	10	nim.	...	10	str-cum.	...	10	nim.	ENE	10	nim.	ENE
„ 25, ...	10	nim.	...	10	cum-nim.	...	2	sm-cum./cum.	...	8	sm-cum.	WSW
„ 26, ...	1	cum.	...	10	cum-nim.	...	10	sm-cum.	WSW	9	c-cum./cum.	WSW
„ 27, ...	7	cum.	SSE	4	cum.	...	9	c-cum./cum.	SSW	9	c-str./cum.	SW
„ 28, ...	10	nim.	S	5	cum.	...	10	sm-cum./cum-nim.	SSW	9	sm-cum./cum.	SSW
„ 29, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	E
„ 30, ...	10	cum-nim.	E	10	cum-nim.	...	9	nim.	...	10	sm-cum./cum.	S
„ 31, ...	4	cum.	...	5	cum.	...	9	nim.	...	9	sm-cum./nim.	S
Means,...	6.7	...	...	6.5	...	...	6.8	...	...	6.9	...	...

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	
1895.													
May 1,...	4	cum.	WSW	1	cum.	...	3	cum.	...	2	cum.	WSW	4.2
„ 2,...	8	cum.	SSW	2	cum.	SSW	5	c-cum. / cum.	W / S	8	cum.	SSW	5.6
„ 3,...	9	cum.	...	8	c-cum. / cum.	E	10	str.	WNW	10	cum-nim.	E	6.6
„ 4,...	10	str-cum.	E	10	sm-cum. / cum.	E	10	str-cum.	E	10	str-cum.	...	10.0
„ 5,...	0	...	...	4	sm-cum.	WNW	4	sm-cum.	WNW	5	sm-cum.	WNW	5.0
„ 6,...	8	sm-cum. / cum.	...	4	cum.	S	0	...	...	0	...	...	3.6
„ 7,...	2	c-cum. / cum.	...	1	c-cum. / cum.	W	0	...	...	0	...	...	2.0
„ 8,...	1	c-cum. / cum.	...	1	c-cum.	...	1	c-str.	...	0	...	...	1.0
„ 9,...	4	c-cum. / cum.	WNW / E	9	c-cum. / cum.	SSE	3	c-str.	...	7	c-str. / cum.	W / ..	3.8
„ 10,...	10	cum-nim.	...	10	str-cum.	...	10	nim.	NNE	10	str-cum.	NNE	9.6
„ 11,...	10	sm-cum. / cum.	ENE	8	c-cum. / cum.	ENE	9	cum.	E	10	str-cum.	E	9.6
„ 12,...	0	...	...	0	...	...	1	c-cum.	...	0	...	...	1.5
„ 13,...	7	c-cum.	...	2	c-cum.	...	1	c-cum.	...	1	cum.	...	1.5
„ 14,...	1	cum.	...	1	c-cum. / cum.	...	0	...	...	2	cum.	...	3.0
„ 15,...	4	c-cum. / cum.	S	1	c-cum. / cum.	NNW / ..	1	c-cum.	...	1	cum.	...	3.9
„ 16,...	1	c-cum. / cum.	W	2	c-cum. / cum.	NNW / SW	1	cum.	...	0	...	...	2.7
„ 17,...	8	c-cum. / sm-cum. / cum.	.. / WNW / W	9	c-str. / c-cum. / cum.	WSW	10	str. / cum.	W	6	cum.	...	7.3
„ 18,...	10	nim.	E	10	nim.	E	10	nim.	E	10	nim.	...	9.9
„ 19,...	10	str-cum.	E	10	str-cum.	E	10	nim.	E	10	nim.	...	10.0
„ 20,...	9	c-str. / cum.	SSW	9	sm-cum. / R-cum. / nim.	.. / S / S	8	c-cum. / sm-cum. / cum.	S	8	c-cum. / cum.	...	9.1
„ 21,...	9	c-cum. / cum.	SW	9	c-cum. / cum.	SW	9	c-cum. / cum.	SW	6	cum.	...	8.7
„ 22,...	8	c-cum. / cum.	SW	9	c-cum. / cum.	SW	10	c-cum. / cum.	SW	8	cum.	SW	7.8
„ 23,...	10	cum-nim.	...	10	cum.	ENE	10	nim.	...	10	nim.	...	9.7
„ 24,...	10	nim.	ENE	10	nim.	ENE	10	nim.	ENE	9	cum-nim.	ENE	9.9
„ 25,...	9	sm-cum. / cum.	WSW / ..	0	...	...	5	c-cum.	WNW	0	...	...	5.5
„ 26,...	10	c-cum. / cum.	WSW	9	c-str. / c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	7	c-str. / cum.	S	7.9
„ 27,...	10	c-str. / cum.	SSW	10	c-cum. / cum.	SSW	10	str. / cum.	SSW	4	cum.	...	7.9
„ 28,...	10	nim.	S	10	nim.	...	10	cum-nim.	...	10	nim.	...	9.3
„ 29,...	10	nim.	E	10	str-cum.	E	9	cum.	ESE	10	cum-nim.	...	9.9
„ 30,...	7	sm-cum. / cum.	SSW	6	c-cum. / cum.	W / SSW	8	c-cum. / cum.	W / SW	7	c-cum. / cum.	W / WSW	8.4
„ 31,...	10	nim.	SW	7	c-cum. / sm-cum. / cum.	W / .. / SW	7	c-cum. / sm-cum.	W / WSW	6	sm-cum.	W	7.1
Means,...	7.1	...	...	6.2	...	...	6.2	...	...	5.7	...	...	6.5

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF MAY, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.8	8.4	2.6	0.8	− 0.8	+ 7.6	E 6° S
2 „	1.8	7.8	2.9	0.7	1.1	7.1	E 9° S
3 „	1.8	7.3	3.0	1.1	1.2	6.2	E 11° S
4 „	1.6	7.0	2.7	1.0	1.1	6.0	E 10° S
5 „	2.0	6.7	2.6	0.9	0.6	5.8	E 6° S
6 „	1.4	6.7	2.3	1.3	0.9	5.4	E 10° S
7 „	1.0	6.3	2.1	1.1	1.1	5.2	E 12° S
8 „	1.3	7.1	2.5	1.8	1.2	5.3	E 13° S
9 „	1.6	7.7	2.6	2.0	1.0	5.7	E 9° S
10 „	1.6	7.8	3.2	2.3	1.6	5.5	E 16° S
11 „	1.3	8.5	3.5	2.4	2.2	6.1	E 20° S
Noon.	1.5	9.0	2.9	2.9	1.4	6.1	E 13° S
1 p.	2.0	8.3	2.6	3.3	0.6	5.0	E 7° S
2 „	1.6	7.5	3.6	2.6	2.0	4.9	E 22° S
3 „	1.7	7.4	3.5	2.3	1.8	5.1	E 20° S
4 „	1.5	7.4	4.3	1.6	2.8	5.8	E 25° S
5 „	2.0	7.6	4.0	1.3	2.0	6.3	E 18° S
6 „	1.5	8.0	3.7	0.8	2.2	7.2	E 17° S
7 „	1.1	8.5	3.0	0.6	1.9	7.9	E 14° S
8 „	1.4	8.2	2.6	0.7	1.2	7.5	E 9° S
9 „	1.9	8.5	2.5	0.7	− 0.6	7.8	E 4° S
10 „	2.0	8.9	1.9	0.6	+ 0.1	8.3	E
11 „	1.6	9.7	2.1	0.3	− 0.5	9.4	E 3° S
Midt.	1.8	9.1	2.6	0.6	− 0.8	+ 8.5	E 5° S
Means,.....	1.6	7.9	2.9	1.4	− 1.27	+ 6.49	E 11° S

PHENOMENA :—

Solar halo :—on the 17th and 27th.

Lunar halo :—on the 2nd, 3rd, 4th, 9th and 30th.

Lunar corona :—on the 8th, 9th, 17th and 31st.

Fog :—on the 1st.

Haze :—on the 8th, 11th, 12th, 18th and 26th.

Unusual visibility :—on the 9th.

Dew :—on the 2nd, 3rd, 6th, 7th, 9th, 18th, 25th, 26th, 30th and 31st.

Rainbow :—on the 20th, 28th and 31st.

Lightning without thunder :—on the 2nd, 5th, 6th, 16th, 22nd, 24th, 26th, 29th, 30th and 31st.

Thunder without lightning :—on the 31st.

Thunder and lightning :—on the 23rd and 27th.

Thunderstorms :—on the 17th, 6.45 p.-8.15 p., in W, nearest at 7.33 p. (15°). On the 28th, 11.30 a.-3.30 p., NE-SW, nearest at 1.25 p. (10°).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JUNE, 1895.

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,...	29.693	29.688	29.680	29.690	29.702	29.715	29.723	29.745	29.750	29.755	29.753	29.738	29.732	29.706	29.681	29.671	29.664	29.680	29.694	29.717	29.741	29.744	29.748	29.731	29.714
„ 2,...	.702	.690	.681	.675	.676	.689	.696	.699	.708	.706	.683	.673	.658	.628	.606	.607	.615	.612	.635	.647	.645	.640	.663	.644	.662
„ 3,...	.612	.622	.615	.588	.597	.613	.637	.646	.650	.660	.655	.654	.643	.644	.645	.633	.624	.661	.661	.680	.699	.698	.688	.660	.645
„ 4,...	.650	.646	.647	.657	.668	.681	.700	.717	.723	.732	.737	.731	.729	.721	.710	.698	.702	.720	.738	.751	.757	.766	.757	.757	.712
„ 5,...	.751	.741	.741	.742	.753	.763	.785	.791	.799	.801	.800	.796	.785	.776	.763	.762	.760	.766	.774	.791	.803	.816	.816	.799	.778
„ 6,...	.786	.773	.773	.775	.779	.791	.806	.818	.830	.828	.827	.809	.795	.768	.748	.735	.725	.731	.740	.755	.781	.790	.797	.771	.780
„ 7,...	.747	.734	.732	.734	.741	.755	.764	.775	.781	.777	.778	.780	.773	.752	.736	.728	.718	.718	.737	.759	.769	.782	.770	.753	.754
„ 8,...	.747	.738	.738	.743	.752	.761	.777	.786	.798	.801	.804	.795	.789	.771	.778	.754	.751	.760	.772	.795	.810	.826	.817	.806	.778
„ 9,...	.791	.786	.790	.784	.781	.800	.804	.813	.830	.829	.831	.825	.824	.802	.786	.771	.771	.782	.786	.796	.807	.823	.823	.808	.802
„ 10,...	.787	.776	.766	.766	.769	.784	.785	.792	.793	.801	.801	.794	.781	.752	.736	.736	.731	.729	.741	.772	.773	.795	.794	.792	.773
„ 11,...	.775	.774	.758	.752	.754	.757	.763	.762	.763	.763	.773	.770	.752	.724	.714	.703	.709	.719	.734	.751	.766	.788	.777	.758	.752
„ 12,...	.744	.730	.718	.710	.712	.727	.733	.738	.755	.771	.778	.771	.765	.751	.730	.726	.720	.719	.735	.752	.755	.763	.758	.750	.742
„ 13,...	.739	.718	.707	.705	.707	.720	.735	.746	.760	.758	.750	.745	.724	.706	.694	.685	.686	.699	.714	.729	.735	.741	.725	.713	.723
„ 14,...	.697	.688	.679	.676	.677	.691	.705	.716	.722	.719	.707	.681	.667	.652	.640	.626	.628	.624	.636	.650	.670	.677	.665	.648	.673
„ 15,...	.631	.626	.630	.633	.645	.663	.676	.687	.689	.694	.681	.669	.654	.638	.620	.617	.645	.640	.644	.648	.649	.660	.661	.655	.652
„ 16,...	.642	.647	.641	.643	.647	.670	.684	.686	.687	.688	.684	.667	.657	.650	.636	.627	.622	.624	.630	.636	.645	.654	.661	.660	.654
„ 17,...	.642	.624	.631	.628	.632	.647	.662	.683	.690	.693	.698	.696	.692	.680	.664	.660	.659	.665	.680	.689	.703	.715	.718	.712	.673
„ 18,...	.696	.684	.683	.685	.701	.728	.736	.753	.763	.766	.763	.762	.751	.742	.725	.707	.704	.707	.715	.727	.739	.743	.759	.740	.728
„ 19,...	.742	.733	.728	.730	.738	.749	.763	.775	.784	.785	.791	.781	.771	.754	.736	.717	.709	.705	.714	.729	.731	.742	.745	.735	.745
„ 20,...	.727	.728	.721	.723	.731	.746	.758	.761	.771	.777	.770	.756	.748	.730	.706	.681	.678	.679	.682	.699	.722	.737	.738	.732	.729
„ 21,...	.728	.717	.710	.719	.724	.737	.741	.748	.766	.776	.787	.764	.743	.720	.703	.687	.682	.694	.698	.720	.733	.736	.748	.743	.730
„ 22,...	.723	.711	.701	.697	.701	.718	.714	.731	.731	.736	.732	.719	.714	.696	.678	.660	.649	.648	.654	.672	.683	.688	.690	.673	.697
„ 23,...	.657	.646	.641	.644	.633	.639	.647	.651	.660	.668	.653	.654	.626	.614	.599	.574	.573	.575	.570	.588	.599	.611	.610	.604	.622
„ 24,...	.586	.575	.580	.577	.583	.593	.582	.594	.588	.590	.578	.569	.543	.521	.506	.483	.469	.468	.482	.487	.509	.522	.526	.520	.543
„ 25,...	.504	.491	.480	.480	.478	.490	.492	.498	.496	.506	.491	.462	.450	.438	.424	.418	.404	.416	.446	.462	.472	.478	.482	.480	.468
„ 26,...	.482	.486	.486	.498	.503	.506	.531	.538	.546	.540	.545	.532	.524	.522	.510	.491	.492	.505	.548	.546	.567	.579	.580	.580	.527
„ 27,...	.572	.561	.560	.564	.566	.583	.595	.607	.609	.619	.619	.611	.595	.579	.567	.555	.560	.573	.576	.598	.606	.611	.620	.612	.588
„ 28,...	.602	.598	.600	.594	.590	.614	.628	.639	.632	.640	.622	.611	.595	.584	.574	.570	.574	.579	.585	.598	.608	.620	.612	.600	.603
„ 29,...	.582	.578	.570	.562	.568	.567	.589	.592	.596	.602	.601	.594	.588	.554	.537	.527	.517	.528	.525	.537	.566	.586	.590	.554	.567
„ 30,...	.531	.512	.502	.490	.496	.507	.520	.527	.524	.518	.521	.515	.500	.480	.466	.455	.452	.461	.482	.511	.520	.523	.516	.502	.501
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.676	29.667	29.663	29.662	29.667	29.680	29.691	29.700	29.706	29.710	29.707	29.697	29.686	29.668	29.654	29.642	29.640	29.646	29.658	29.673	29.685	29.695	29.695	29.683	29.677

TABLE II.

TEMPERATURE FOR THE MONTH OF JUNE, 1895.

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,.....	76.7	76.6	76.4	76.5	75.3	74.7	75.3	75.3	75.2	77.3	76.0	75.9	75.4	75.7	76.0	75.9	76.1	75.5	75.3	75.5	75.5	75.4	75.5	75.6	75.8	77.2	74.5
„ 2,.....	76.0	75.6	75.5	75.2	75.0	75.3	74.9	75.4	76.2	77.0	78.6	78.2	79.1	80.8	81.0	79.4	81.2	79.9	79.8	79.7	79.8	79.6	77.0	77.1	77.8	82.3	74.4
„ 3,.....	77.2	77.9	76.5	76.4	76.7	76.6	76.4	77.4	78.6	79.6	80.5	78.3	78.0	76.6	77.4	75.8	75.9	75.7	75.8	76.0	76.5	76.2	75.2	75.2	76.9	81.1	74.8
„ 4,.....	75.0	75.6	75.5	75.3	76.0	76.1	77.3	77.6	81.2	78.9	78.0	76.0	76.1	74.6	75.3	76.4	76.7	76.3	76.2	76.6	75.6	75.4	75.2	75.3	76.3	81.7	74.3
„ 5,.....	75.0	75.0	75.1	74.9	74.8	75.0	75.6	76.8	77.9	78.0	79.0	79.0	78.6	78.4	79.2	78.2	77.3	76.4	75.9	75.2	75.2	76.0	75.4	75.1	76.5	80.0	74.8
„ 6,.....	75.0	74.7	74.6	73.9	73.9	74.1	73.8	74.4	75.6	76.6	77.6	77.4	78.0	77.8	77.0	76.7	76.4	75.6	75.4	75.6	75.4	75.9	76.1	75.8	75.7	78.8	73.3
„ 7,.....	75.6	75.2	75.1	75.0	75.2	75.2	74.6	75.1	76.1	76.8	76.1	76.6	76.6	76.5	76.4	76.2	76.3	76.0	75.6	75.2	74.7	74.6	74.8	74.9	75.6	77.4	74.2
„ 8,.....	74.0	74.2	74.1	74.0	74.2	74.6	76.1	77.2	78.0	78.8	79.3	79.0	78.8	78.7	78.4	78.3	78.0	76.8	76.6	76.6	74.6	74.6	74.9	74.6	76.4	79.9	73.4
„ 9,.....	75.1	75.1	74.8	74.3	75.1	75.6	76.7	77.8	78.3	79.2	79.4	80.0	81.4	80.4	80.6	79.9	79.6	78.8	78.1	78.3	78.3	78.3	77.8	77.7	77.9	81.6	74.3
„ 10,.....	77.0	77.2	77.3	77.5	77.5	78.9	79.5	80.3	81.4	81.3	82.5	82.7	83.9	82.9	81.6	81.4	80.3	79.6	79.2	79.6	79.1	79.3	78.3	79.2	79.9	83.9	77.0
„ 11,.....	78.5	78.4	78.2	78.2	78.4	78.0	78.9	80.2	80.3	78.9	80.4	80.0	80.1	80.5	80.0	78.9	79.9	79.0	78.9	78.3	78.2	79.0	78.6	78.5	79.1	81.3	78.0
„ 12,.....	78.6	78.4	78.6	78.2	78.5	78.6	79.4	79.3	80.0	79.4	80.6	80.5	80.0	80.1	80.3	79.6	79.7	79.4	78.8	78.7	78.6	78.7	78.6	78.5	79.2	80.8	78.2
„ 13,.....	78.5	78.2	78.5	78.6	78.3	78.6	79.0	79.6	80.0	79.9	82.1	83.1	83.0	84.3	83.3	82.3	81.9	81.2	80.8	80.9	81.2	80.7	80.2	80.2	80.6	84.5	77.9
„ 14,.....	79.8	80.6	80.6	80.5	80.6	81.2	81.5	82.0	82.7	84.2	84.5	85.7	85.3	85.5	85.4	84.6	83.7	82.7	81.4	81.3	81.1	81.0	80.6	80.7	82.4	86.4	79.8
„ 15,.....	80.8	80.5	80.8	80.7	80.7	81.1	81.3	82.8	84.1	84.2	85.6	88.1	86.0	87.6	86.1	86.6	85.7	83.3	82.1	82.0	81.9	82.0	81.5	81.3	83.2	89.2	80.5
„ 16,.....	81.3	81.5	81.4	80.6	80.3	80.6	82.0	82.9	84.5	87.2	88.3	88.1	88.0	88.2	88.1	86.8	85.8	83.8	82.8	82.3	82.0	81.8	81.3	81.0	83.8	88.9	80.0
„ 17,.....	81.5	81.3	82.0	82.1	82.0	82.2	84.4	83.6	85.7	87.2	88.0	86.7	88.3	88.5	86.6	86.0	84.8	84.7	83.0	82.8	82.6	82.4	82.9	82.7	84.2	88.9	80.5
„ 18,.....	82.8	81.3	82.3	82.0	81.7	82.6	83.4	83.9	85.0	86.2	86.2	86.8	88.8	88.2	87.9	87.8	86.5	85.0	83.8	83.3	83.2	82.6	83.1	82.4	84.5	89.2	80.6
„ 19,.....	82.5	82.3	81.9	82.2	82.0	81.9	82.8	84.5	85.4	87.0	87.5	87.2	87.8	87.8	87.5	87.1	86.5	85.0	84.0	83.8	83.4	82.7	82.8	82.5	84.5	88.7	81.9
„ 20,.....	81.9	81.8	81.7	81.6	81.4	82.2	83.0	84.1	83.4	86.2	88.0	86.1	88.1	87.8	87.4	87.9	86.5	85.1	84.0	83.2	82.6	82.4	81.9	81.4	84.2	89.5	81.4
„ 21,.....	81.8	81.5	80.6	80.4	81.0	81.8	83.0	83.7	86.1	87.0	88.4	90.0	90.1	89.3	89.8	88.9	86.6	85.1	84.4	83.8	83.9	83.6	83.2	81.9	84.8	90.7	80.4
„ 22,.....	82.2	81.7	81.1	81.3	81.1	82.5	84.1	85.0	86.0	85.2	86.5	89.1	88.0	89.3	87.9	88.0	86.7	85.7	84.1	83.9	83.0	83.1	82.7	82.1	84.6	90.6	80.9
„ 23,.....	81.8	81.8	81.4	81.6	82.0	81.5	84.0	84.3	84.1	85.7	88.2	90.0	89.1	89.0	88.9	87.7	86.3	84.7	83.7	83.1	82.6	81.3	80.7	80.7	84.3	90.1	80.7
„ 24,.....	80.5	80.6	79.4	79.5	79.6	81.4	82.8	83.5	85.6	87.2	90.1	90.4	87.0	89.8	90.2	89.4	88.0	85.8	84.2	83.6	83.9	82.9	82.6	82.6	84.6	90.5	79.2
„ 25,.....	82.0	82.1	82.3	81.9	82.4	82.6	83.7	85.3	86.7	87.6	89.7	91.3	91.9	90.8	91.2	90.1	88.3	86.5	85.3	84.5	84.3	84.0	83.6	84.1	85.9	93.6	81.9
„ 26,.....	84.2	84.0	82.9	83.4	79.1	81.5	80.9	80.3	84.5	88.7	87.6	90.8	89.5	88.8	88.1	87.8	87.2	86.7	85.0	84.0	83.9	84.0	83.5	83.0	85.0	91.4	78.7
„ 27,.....	83.5	82.8	81.0	81.6	82.4	83.5	85.3	85.9	85.0	86.8	87.3	87.9	88.9	88.3	87.3	87.4	87.1	85.6	84.3	83.9	83.8	83.0	82.0	81.5	84.8	89.0	81.0
„ 28,.....	81.3	80.9	80.8	80.6	80.7	82.1	83.5	85.6	86.0	86.1	85.4	85.3	85.0	85.8	85.2	85.8	84.1	84.0	82.9	82.1	81.8	81.3	81.4	80.9	83.3	87.1	80.2
„ 29,.....	80.3	80.0	79.9	80.3	80.6	80.5	81.6	83.0	84.6	84.4	79.4	78.3	76.9	78.7	79.4	78.6	80.6	80.8	77.7	78.6	79.4	79.3	79.2	81.2	80.1	85.0	76.5
„ 30,.....	81.7	81.8	81.9	82.1	82.0	82.2	81.0	83.0	81.8	81.7	81.8	81.7	84.9	84.6	84.7	84.6	83.8	83.6	82.9	82.6	82.7	82.3	82.3	82.2	82.7	85.0	81.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	79.4	79.3	79.1	79.0	78.9	79.4	80.2	81.0	82.0	82.8	83.4	83.7	83.8	83.8	83.6	83.1	82.6	81.6	80.7	80.5	80.3	80.1	79.8	79.7	81.2	85.5	78.1

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JUNE, 1895.

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, ...	75.8	75.9	75.2	75.0	73.6	73.3	73.7	73.6	73.4	74.8	74.7	73.8	73.7	74.0	74.0	73.8	74.1	74.0	74.1	74.2	74.0	74.2	74.6	74.7	74.3	115.3
„ 2, ...	74.9	74.6	74.5	74.3	74.3	74.5	74.1	74.3	74.9	75.4	75.7	75.8	76.6	77.2	77.1	77.0	77.3	77.2	77.0	77.3	77.4	78.3	75.8	76.0	75.9	140.9
„ 3, ...	75.2	75.3	75.0	75.4	75.4	75.0	75.4	76.4	76.1	76.9	76.6	74.5	75.3	74.2	74.7	73.0	73.0	72.9	73.2	71.5	71.2	72.0	71.6	72.1	74.2	115.2
„ 4, ...	72.5	73.0	72.8	72.6	72.1	71.2	71.8	71.9	73.6	74.4	73.9	74.1	73.4	73.2	73.3	73.1	73.2	72.1	72.7	72.2	73.4	73.1	72.3	72.0	72.8	138.1
„ 5, ...	72.1	72.1	72.4	72.3	72.1	72.0	72.1	72.8	73.5	72.8	73.9	73.8	76.5	76.1	73.2	71.3	71.7	70.3	70.0	70.3	70.5	70.3	70.8	70.2	72.2	143.3
„ 6, ...	70.0	69.9	69.7	69.2	69.1	68.3	67.7	69.2	70.7	69.7	70.2	70.0	69.9	69.8	68.7	69.5	69.1	70.3	70.4	70.7	70.8	71.5	72.0	71.7	69.9	138.0
„ 7, ...	71.6	71.3	71.3	71.4	71.3	71.5	71.5	71.8	71.6	71.7	71.6	72.6	72.3	72.3	72.3	72.3	72.4	71.9	72.0	71.5	71.5	71.8	71.9	72.3	71.8	119.2
„ 8, ...	72.0	72.3	72.1	72.0	72.5	72.7	73.0	73.1	73.3	73.6	73.8	73.5	73.2	73.9	74.6	73.3	73.4	73.5	73.4	72.1	71.4	71.3	71.3	72.0	72.8	121.7
„ 9, ...	70.3	70.9	71.3	71.8	72.4	71.4	72.9	72.5	73.6	74.0	74.1	75.2	75.5	74.8	75.1	73.3	73.2	73.3	73.3	73.6	74.5	74.6	75.2	75.2	73.4	140.4
„ 10, ...	75.4	75.3	75.4	75.3	75.0	74.7	76.0	76.5	76.6	75.7	76.4	77.0	77.5	76.4	76.3	76.3	75.7	75.6	75.6	75.6	74.7	75.5	75.1	75.9	75.8	144.0
„ 11, ...	75.8	75.3	75.6	75.5	75.8	75.9	76.6	76.5	77.1	76.3	76.3	76.2	76.3	76.4	76.1	75.8	76.0	75.6	75.5	75.0	75.4	75.7	75.7	76.2	75.9	129.5
„ 12, ...	76.6	76.6	76.8	76.6	76.5	76.5	76.7	76.9	76.6	76.4	76.8	76.3	77.0	77.0	76.8	76.3	76.3	75.8	76.1	75.7	75.5	75.6	75.2	74.7	76.3	120.0
„ 13, ...	75.8	75.7	75.9	76.1	76.1	76.6	76.9	77.7	77.9	78.4	78.0	78.0	78.1	78.0	78.4	78.1	77.7	76.9	77.4	77.4	77.2	78.0	77.5	77.3	77.3	142.9
„ 14, ...	77.2	77.2	76.9	77.1	77.0	76.8	76.4	76.8	76.7	77.4	78.3	77.7	77.2	77.4	78.3	78.2	77.0	77.1	76.9	76.7	76.8	77.0	76.3	76.5	77.1	137.6
„ 15, ...	76.6	76.5	76.7	76.2	76.2	76.0	76.1	76.3	76.8	77.1	77.2	78.6	77.6	77.7	77.9	77.9	76.9	76.3	77.0	77.3	76.6	76.8	76.9	77.2	76.9	142.0
„ 16, ...	77.5	77.0	76.0	76.1	76.0	76.5	76.9	76.9	77.6	78.8	78.2	77.0	77.9	76.1	77.3	76.6	77.4	77.3	77.2	77.1	77.3	77.8	78.2	77.3	77.2	142.8
„ 17, ...	78.5	78.1	78.0	78.0	77.2	78.1	77.7	77.5	78.7	78.0	79.8	77.9	78.7	79.4	78.6	79.1	78.9	79.0	79.0	78.6	78.4	78.7	78.6	78.2	78.4	145.9
„ 18, ...	77.9	78.7	78.0	77.7	78.2	77.8	77.3	78.7	77.9	79.3	79.4	77.5	79.7	78.8	79.1	78.9	79.0	78.9	78.2	78.6	78.6	78.4	78.7	78.6	78.5	145.5
„ 19, ...	78.3	78.2	78.3	77.8	78.2	78.5	78.4	78.4	78.3	80.2	78.6	77.2	78.6	77.8	78.9	78.7	78.0	77.8	77.9	77.9	78.0	78.0	78.6	78.1	78.3	142.2
„ 20, ...	77.5	77.6	77.7	77.3	78.8	78.0	77.9	78.2	77.9	78.2	78.9	77.4	78.6	78.0	78.1	78.3	77.9	77.9	77.0	77.2	77.5	77.9	77.8	77.0	77.9	143.5
„ 21, ...	77.5	77.0	78.2	76.8	77.1	77.6	77.3	77.2	79.0	80.2	79.7	79.2	79.9	80.2	80.2	79.1	79.1	78.3	78.2	77.7	78.1	78.0	77.9	78.6	78.4	142.4
„ 22, ...	78.3	77.8	77.6	77.7	78.1	78.8	79.9	78.2	78.2	78.1	78.9	79.2	78.5	78.5	77.0	76.2	76.1	77.0	77.5	77.5	77.1	78.0	77.3	77.6	77.9	145.4
„ 23, ...	77.5	77.2	77.0	76.4	76.7	76.8	77.4	77.5	77.0	76.7	79.8	77.9	76.2	76.5	77.0	77.7	76.9	76.0	75.6	76.2	76.1	76.8	75.8	75.1	76.8	142.1
„ 24, ...	75.4	75.9	75.3	75.6	75.7	77.3	76.9	77.0	78.1	77.2	78.9	79.5	78.1	80.0	79.1	79.1	78.1	77.2	77.3	77.8	77.1	77.2	77.6	77.6	77.5	147.3
„ 25, ...	77.2	78.3	77.6	78.9	78.4	78.6	78.6	78.7	79.7	80.5	81.6	81.7	81.6	80.8	82.0	81.7	81.6	80.4	79.6	79.6	79.4	79.6	79.6	78.7	79.8	142.6
„ 26, ...	78.7	78.6	79.9	79.5	76.6	78.9	78.3	78.3	80.7	83.0	81.7	83.0	82.3	82.0	81.6	81.0	81.2	80.3	80.1	80.7	80.2	79.6	80.0	79.7	80.2	147.9
„ 27, ...	79.9	79.7	78.6	78.5	78.7	79.7	80.8	81.0	81.2	80.8	79.1	79.7	81.3	80.0	81.0	79.4	79.8	79.8	78.7	79.4	79.6	79.0	79.1	78.9	79.7	144.1
„ 28, ...	78.7	78.8	78.8	78.7	78.6	79.0	78.2	78.9	80.3	79.3	79.3	79.0	78.8	78.7	78.1	78.9	78.7	78.0	78.1	78.1	78.0	77.7	77.0	76.9	78.5	147.1
„ 29, ...	77.3	77.0	77.1	77.2	77.0	77.0	77.2	77.1	78.2	77.3	76.5	76.3	76.5	77.3	77.2	76.2	77.5	76.4	75.8	76.7	78.7	77.7	77.1	78.1	77.1	143.1
„ 30, ...	78.7	78.4	77.9	77.8	78.3	78.3	78.3	79.0	78.7	78.1	78.3	78.2	79.9	80.4	79.0	79.0	78.7	78.9	78.6	78.8	78.2	78.0	78.4	78.8	78.6	141.7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	76.0	76.0	75.9	75.8	75.8	75.9	76.1	76.3	76.8	77.0	77.2	76.9	77.2	77.1	77.0	76.6	76.5	76.2	76.1	76.1	76.1	76.3	76.1	76.1	76.4	138.4

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JUNE, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	85	0.856	June 1,.....	93	0.828
2 „	86	.857	„ 2,.....	91	.871
3 „	86	.855	„ 3,.....	87	.810
4 „	86	.852	„ 4,.....	84	.761
5 „	87	.854	„ 5,.....	80	.734
6 „	82	.846	„ 6,.....	74	.655
7 „	82	.850	„ 7,.....	83	.729
8 „	79	.847	„ 8,.....	84	.759
9 „	78	.856	„ 9,.....	80	.764
10 „	76	.860	„ 10,.....	82	.837
11 „	74	.853	„ 11,.....	86	.853
Noon.	72	.837	„ 12,.....	87	.868
1 p.	73	.849	„ 13,.....	86	.894
2 „	73	.844	„ 14,.....	78	.861
3 „	73	.843	„ 15,.....	74	.841
4 „	73	.832	„ 16,.....	73	.846
5 „	75	.835	„ 17,.....	76	.895
6 „	77	.835	„ 18,.....	75	.895
7 „	80	.843	„ 19,.....	75	.886
8 „	80	.845	„ 20,.....	75	.872
9 „	81	.848	„ 21,.....	74	.886
10 „	83	.860	„ 22,.....	73	.866
11 „	84	.856	„ 23,.....	70	.822
Midt.	84	.857	„ 24,.....	72	.849
			„ 25,.....	76	.936
			„ 26,.....	80	.968
			„ 27,.....	79	.947
			„ 28,.....	80	.911
			„ 29,.....	87	.892
			„ 30,.....	83	.924
			.....	...	...
Means,.....	80	0.849	Means.	80	0.849

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.
1895.														
June 1,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,.....	...	...	...	...	0.1	0.6	0.3	0.3	0.8	1.0	0.2	0.1	...	3.4
„ 3,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,.....	0.1	...	0.2	1.0	0.6	...	...	...	...	...	...	...	...	1.9
„ 5,.....	...	0.1	...	0.1	0.2	0.9	1.0	1.0	1.0	0.7	0.4	0.9	0.3	6.6
„ 6,.....	...	...	...	...	0.5	1.0	1.0	1.0	0.9	1.0	0.8	0.6	...	6.8
„ 7,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,.....	...	...	...	...	0.1	...	...	...	...	...	...	...	...	0.1
„ 9,.....	...	...	...	...	...	...	0.2	0.9	0.3	1.0	1.0	0.9	...	4.3
„ 10,.....	...	0.3	0.4	0.4	...	0.6	0.3	0.9	1.0	0.8	0.5	0.1	...	5.3
„ 11,.....	...	...	0.3	0.4	0.2	...	0.1	0.1	0.1	0.2	0.2	...	...	1.6
„ 12,.....	...	...	...	...	...	...	...	...	...	...	0.1	0.1	...	0.2
„ 13,.....	...	...	...	0.3	0.7	0.6	0.2	0.3	0.9	0.6	...	...	...	3.6
„ 14,.....	...	0.2	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	10.1
„ 15,.....	0.3	0.4	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	10.5
„ 16,.....	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	12.0
„ 17,.....	0.3	1.0	0.9	0.9	1.0	0.9	0.6	1.0	1.0	1.0	1.0	0.8	0.2	10.6
„ 18,.....	0.1	0.9	0.7	0.8	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.7	11.1
„ 19,.....	0.3	0.8	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	11.7
„ 20,.....	...	0.4	0.7	0.4	0.6	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.7	9.6
„ 21,.....	0.4	1.0	1.0	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.7	11.9
„ 22,.....	0.4	1.0	1.0	1.0	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.7	11.5
„ 23,.....	0.3	1.0	0.9	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	11.4
„ 24,.....	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	1.0	1.0	1.0	0.8	11.3
„ 25,.....	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	12.1
„ 26,.....	...	...	0.2	1.0	1.0	0.8	1.0	1.0	0.8	0.6	0.8	0.6	...	7.8
„ 27,.....	0.1	0.5	0.5	0.8	0.8	0.7	0.8	0.9	0.4	0.4	0.7	0.6	...	7.2
„ 28,.....	0.4	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.5	11.5
„ 29,.....	0.1	0.7	0.4	1.0	0.5	...	...	...	...	...	...	...	...	2.7
„ 30,.....	...	...	0.3	0.6	0.6	0.3	0.1	0.6	1.0	1.0	1.0	1.0	0.5	7.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	3.9	12.0	13.5	17.1	17.5	17.7	17.6	19.1	20.2	20.3	18.7	17.5	8.7	203.8

TABLE VI.

RAINFALL FOR THE MONTH OF JUNE, 1895.

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,.....	...	...	...	...	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.050	0.015	0.080	3
" 2,.....	...	...	...	...	...	...	0.005	...	0.005	...	...	...	...	...	...	...	0.020	0.010	...	0.220	...	0.410	0.380	0.180	1.230	10
" 3,.....	0.120	0.250	0.200	0.005	0.135	0.010	0.005	...	...	...	...	...	0.025	0.025	0.120	0.010	...	...	...	...	...	...	...	...	0.905	9
" 4,.....	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.005	...	...	...	...	...	...	...	...	...	...	0.015	2
" 5,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,.....	...	...	...	...	...	...	...	...	...	...	...	0.005	...	0.005	0.005	0.005	...	...	...	...	...	...	...	...	0.020	2
" 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.015	0.010	...	...	0.035	2
" 9,.....	...	0.005	...	0.030	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.040	2
" 10,.....	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	0.010	1
" 11,.....	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...
" 12,.....	...	0.145	0.005	...	0.005	0.005	0.025	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.205	2
" 13,.....	0.005	...	0.015	0.010	0.010	0.035	...	0.040	...	0.010	...	...	...	...	...	...	...	0.010	0.025	...	...	...	...	...	0.160	4
" 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 16,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...	...	...	...	0.005	...
" 18,.....	...	0.085	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.085	1
" 19,.....	0.010	...	0.035	...	...	...	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.065	1
" 20,.....	...	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...
" 21,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,.....	0.040	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.040	...
" 23,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,.....	...	...	...	...	0.120	0.155	0.445	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.720	3
" 27,.....	...	0.040	...	...	...	...	0.050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.090	1
" 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 29,.....	...	0.010	0.060	...	...	...	...	...	...	...	0.050	0.300	0.320	0.010	0.070	0.010	0.080	0.055	...	...	...	0.185	...	...	1.150	9
" 30,.....	...	...	...	...	...	...	...	...	0.015	...	0.060	0.025	...	...	...	...	...	...	...	...	...	...	...	...	0.100	2
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums, ...	0.180	0.535	0.315	0.045	0.270	0.215	0.550	0.050	0.025	0.015	0.110	0.330	0.355	0.045	0.195	0.025	0.100	0.075	0.025	0.235	0.015	0.615	0.430	0.215	4.970	54

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JUNE, 1895.

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.	9	9	6	6	8	10	7	16	7	18	7	18	7	24	7	24	7	24	7	25	7	24	6	26	7	24	7	27	7	24	7	22	7	22	7	18	7	19	6	18	6	18	7	22	7	16	6	18	472	19.7	7
" 2,	6	18	6	17	6	16	7	15	7	14	9	16	9	14	7	16	7	13	7	15	8	16	8	17	7	12	7	6	7	9	8	10	16	7	15	6	16	7	15	6	15	5	22	18	25	15	23	11	299	12.5	8
" 3,	21	16	19	20	26	9	30	3	30	4	31	4	8	3	7	3	...	1	21	4	23	5	24	9	29	5	...	1	3	5	29	2	9	2	9	3	...	1	32	6	3	2	...	0	3	2	3	2	112	4.7	25
" 4,	3	2	...	1	...	0	...	0	...	1	32	4	32	6	2	3	8	14	8	18	9	18	8	18	8	15	7	11	9	12	9	12	9	14	8	14	8	14	7	12	6	11	7	10	7	8	7	7	225	9.4	8
" 5,	7	7	7	6	6	8	7	7	7	6	7	6	4	7	7	11	7	13	8	16	9	14	10	18	9	21	9	20	9	23	9	21	9	22	10	21	9	21	7	17	7	21	8	21	8	24	7	23	374	15.6	8
" 6,	7	20	7	20	6	18	5	18	7	21	6	23	7	24	7	23	6	23	7	24	7	21	8	23	8	18	9	20	10	18	10	19	10	19	8	18	9	17	8	19	8	14	9	16	8	14	7	13	463	19.3	8
" 7,	6	14	5	11	7	18	6	12	7	14	6	12	6	15	7	14	7	13	7	14	7	14	7	12	9	9	9	8	10	11	9	10	9	7	9	7	9	5	9	5	9	5	8	5	10	9	9	3	247	10.3	7
" 8,	7	2	9	2	...	0	...	0	7	2	...	1	9	8	8	13	8	13	7	12	8	15	8	15	9	13	8	12	9	11	9	13	9	10	9	10	9	10	10	8	10	5	9	9	8	5	10	6	195	8.1	9
" 9,	6	6	7	3	12	4	10	2	8	6	3	9	6	14	5	11	7	15	8	16	8	16	8	16	7	19	8	18	8	18	7	18	7	19	7	15	8	14	7	12	8	11	7	12	6	19	6	17	310	12.9	7
" 10,	9	21	7	16	7	19	6	16	6	20	6	19	7	22	7	22	7	27	7	28	7	29	7	26	7	28	7	27	8	25	9	24	7	25	7	24	7	25	7	21	6	24	7	22	7	23	9	22	555	23.1	7
" 11,	7	21	7	21	7	19	7	20	7	22	6	21	7	22	7	24	6	27	6	30	7	29	7	32	7	28	7	30	7	31	7	29	7	29	8	27	6	27	6	21	6	20	6	18	6	22	7	20	590	24.6	7
" 12,	6	18	8	20	9	24	9	32	9	34	8	33	8	36	8	36	8	34	8	34	9	29	7	27	7	29	7	25	7	30	7	27	7	34	7	32	7	28	6	28	6	30	7	29	7	28	7	24	701	29.2	8
" 13,	8	25	8	26	10	28	9	28	9	28	10	24	11	27	9	23	9	24	10	18	12	22	13	20	12	19	12	18	12	20	12	16	13	15	15	17	14	12	15	11	12	9	12	10	12	12	12	12	464	19.3	11
" 14,	12	11	15	9	15	11	16	10	16	13	18	17	17	16	19	15	20	21	19	22	19	22	19	25	19	24	19	24	19	17	19	16	18	15	17	12	17	13	19	10	18	9	18	7	19	7	18	12	358	14.9	18
" 15,	18	9	19	11	19	11	17	14	18	14	19	16	19	14	20	12	19	17	19	14	20	12	20	14	21	12	20	12	20	14	20	11	20	13	17	10	18	10	16	9	16	9	17	6	16	5	16	3	272	11.3	19
" 16,	16	7	17	9	17	9	17	8	18	7	22	6	21	6	24	6	23	8	20	8	22	10	22	9	19	7	18	9	19	7	16	12	16	11	15	8	15	7	15	4	12	5	10	5	10	4	10	2	174	7.2	18
" 17,	10	2	7	4	15	7	16	7	17	8	17	9	16	12	18	10	17	11	17	12	18	7	20	9	17	13	15	14	16	14	16	13	16	12	16	10	14	3	16	5	16	6	15	6	16	7	17	7	208	8.7	16
" 18,	16	8	16	7	18	5	18	8	18	6	19	7	18	3	14	3	18	9	16	7	23	9	19	9	17	9	18	11	18	11	17	11	15	11	15	10	15	8	17	6	16	5	17	5	16	4	16	7	179	7.5	18
" 19,	16	7	18	8	17	8	18	9	17	10	17	7	18	8	18	9	19	13	20	12	20	13	21	11	21	9	16	8	18	11	17	9	17	6	16	7	17	5	16	5	16	2	16	6	18	6	17	5	194	8.1	18
" 20,	17	5	17	7	16	6	17	5	16	5	18	6	17	2	17	7	18	12	18	9	20	10	20	14	20	12	18	12	19	8	19	9	18	8	18	5	17	6	16	4	15	4	15	4	15	5	17	6	171	7.1	18
" 21,	18	3	18	5	...	1	17	5	18	4	18	3	15	5	17	6	17	4	25	9	23	8	21	11	25	11	25	10	24	10	17	10	16	12	14	11	15	8	15	6	13	5	10	5	10	3	10	2	157	6.5	18
" 22,	...	1	...	0	5	2	...	1	7	4	7	3	7	5	7	7	7	8	8	11	8	7	7	10	15	10	16	8	16	10	15	8	17	7	15	7	15	6	15	5	15	4	17	4	16	5	15	2	135	5.6	12
" 23,	15	3	15	4	16	3	18	6	18	3	18	2	17	3	13	3	18	7	20	5	23	11	21	9	17	9	20	9	16	8	16	9	15	9	17	6	16	5	15	4	15	2	17	3	...	1	...	1	125	5.2	18
" 24,	...	0	9	2	12	3	..	0	...	0	...	0	5	2	29	4	27	6	25	11	24	9	24	11	24	12	24	10	23	9	24	8	20	7	18	6	17	5	17	5	17	4	18	4	18	4	19	6	128	5.3	22
" 25,	20	10	21	9	22	13	24	8	21	9	24	8	26	7	23	7	26	8	25	9	24	9	24	10	22	11	20	7	25	8	19	10	19	11	17	11	19	9	18	2	21	3	16	5	18	7	20	9	200	8.3	22
" 26,	20	12	19	15	20	12	19	14	23	10	25	7	12	6	6	2	24	5	21	8	22	7	22	8	22	9	19	11	17	10	17	10	19	11	17	9	19	5	17	3	29	4	18	3	18	3	17	3	187	7.8	20
" 27,	21	4	18	4	25	5	...	1	19	6	18	4	1	3	15	4	27	3	25	6	22	7	23	6	23	9	18	9	18	6	15	6	17	3	16	6	15	7	14	4	14	3	10	5	10	5	17	5	121	5.0	18
" 28,	7	4	7	5	8	7	7	5	7	3	7	3	4	3	6	7	7	9	8	11	9	19	9	22	9	23	9	22	10	22	9	25	9	26	7	22	6	22	7	24	7	26	7	29	7	27	7	24	390	16.3	8
" 29,	7	22	7	22	6	17	7	21	6	18	6	22	7	19	6	18	7	25	7	24	7	17	7	18	5	17	8	17	6	18	6	20	7	22	7	29	6	21	8	11	8	8	13	12	4	14	8	23	455	19.0	6
" 30,	7	23	7	21	7	23	8	22	8	24	6	22	6	20	7	18	8	18	8	22	6	18	6	18	7	16	7	21	9	23	9	26	9	27	8	23	10	21	9	19	10	21	9	23	10	19	9	19	507	21.1	8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...
Sums,	...	310	...	311	...	316	...	313	...	334	...	332	...	356	...	361	...	425	...	454	...	447	...	473	...	453	...	437	...	443	...	436	...	436	...	404	...	361	...	310	...	295	...	324	...	323	...	314	8968	373.7	...
Means,	...	10.3	...	10.4	...	10.5	...	10.4	...	11.1	...	11.1	...	11.9	...	12.0	...	14.2	...	15.1	...	14.9	...	15.8	...	15.1	...	14.6	...	14.8	...	14.5	...	14.5	...	13.5	...	12.0	...	10.3	...	9.8	...	10.8	...	10.8	...	10.5	298.9	12.5	...

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
1895.												
June 1, ...	4	cum.	...	7	cum.	...	10	cum-nim.	...	10	nim.	E
„ 2, ...	10	nim.	...	10	nim.	...	10	nim.	ESE	10	sm-cum. / nim.	SE
„ 3, ...	10	nim.	...	10	cum.	...	9	sm-cum. / cum.	...	9	sm-cum. / cum.	NW
„ 4, ...	10	str-cum.	WSW	10	cum.	WSW	9	str-cum.	W	9	sm-cum. / cum.	W / E
„ 5, ...	4	sm-cum. / cum.	WNW / ..	5	cum.	...	10	sm-cum. / cum.	...	8	c-cum. / cum.	ENE
„ 6, ...	5	sm-cum. / cum.	WNW / E	10	sm-cum. / cum.	E	9	sm-cum. / cum.	ENE	9	sm-cum. / cum.	WSW / E
„ 7, ...	9	sm-cum. / cum.	WSW / E	10	cum.	E	10	sm-cum. / cum.	ENE	10	sm-cum. / cum.	WSW / E
„ 8, ...	9	sm-cum. / cum.	WSW / E	5	c-str. / sm-cum.	WSW	10	sm-cum. / cum.	WSW / ENE	9	sm-cum. / cum.	WSW / E
„ 9, ...	10	cum-nim.	SW	10	nim.	...	10	sm-cum. / cum.	E	9	sm-cum. / cum.	E
„ 10, ...	10	cum-nim.	E	9	sm-cum. / cum.	WSW / E	9	sm-cum. / cum.	W / E	10	sm-cum. / cum.	E
„ 11, ...	10	cum.	E	10	str. / cum.	E	10	str. / cum.	E	10	sm-cum. / R-cum.	E
„ 12, ...	10	cum.	E	10	cum-nim.	E	10	sm-cum. / R-cum.	E	10	sm-cum. / cum.	ESE
„ 13, ...	9	cum-nim.	E	10	nim.	ESE	10	sm-cum. / cum-nim.	ESE	10	nim.	SE
„ 14, ...	9	cum.	SSE	9	cum.	S	9	c-cum. / cum.	SSW	6	cum.	SW
„ 15, ...	5	cum.	SW	5	sm-cum. / cum.	W / SW	7	c-cum. / cum.	SW	2	cum.	SW
„ 16, ...	5	cum.	SSW	5	cum.	SSW	2	cum.	SW	2	cum.	SW
„ 17, ...	10	nim.	SSE	7	sm-cum. / cum.	SSW / S	5	c-cum. / cum.	SW	3	c-cum. / cum.	SSW
„ 18, ...	6	cum-nim.	SSW	7	cum.	SSW	4	c-cum. / cum.	S	5	cum.	SW
„ 19, ...	4	cum-nim.	...	6	cum.	SSW	6	c-cum. / cum.	SW	7	c-cum. / cum.	SW
„ 20, ...	2	cum.	S	3	cum.	S	6	cum.	SSW	8	c-cum. / cum.	SW
„ 21, ...	2	c-str. / cum.	...	3	c-str. / cum.	...	3	cum.	SSW	4	cum.	SW
„ 22, ...	3	c-str. / cum.	...	3	cum.	...	5	sm-cum. / cum.	SSW	4	cum.	SSE
„ 23, ...	2	cum.	...	2	cum.	...	4	c-cum. / cum.	SSW	4	c-cum. / cum.	SW
„ 24, ...	0	...	...	0	...	...	2	cum.	SW	2	c-cum. / cum.	...
„ 25, ...	0	...	...	2	cum.	W	2	c-cum. / cum.	...	2	c-cum. / cum.	W
„ 26, ...	2	cum.	...	6	cum.	WSW	10	nim.	...	5	c-cum. / cum.	W
„ 27, ...	6	cum.	SW	3	cum.	SW	9	c-cum. / cum.	SSW	8	c-cum. / cum.	SSW
„ 28, ...	1	cum.	...	0	...	...	3	c-str. / cum.	E	3	c-cum. / cum.	...
„ 29, ...	8	nim.	E	5	cum.	ESE	5	c-cum. / cum.	E	8	c-cum. / cum.	ENE
„ 30, ...	8	cum-nim.	ESE	4	cum.	...	8	cum.	E	8	cum. / nim.	ESE
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	6.1	...	...	6.2	...	...	7.2	...	...	6.8	...	...

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	
1895.													
June 1,...	10	nim.	E	10	nim.	E	10	nim.	E	10	nim.	E	8.9
„ 2,...	9	c-cum. / cum.	SSW	9	c-cum. / cum.	SW	10	cum.	SW	10	nim.	...	9.7
„ 3,...	9	sm-cum. / nim.	...	10	cum-nim.	...	10	str-cum.	...	10	str-cum.	WSW	9.6
„ 4,...	10	nim.	...	10	str-cum.	...	8	sm-cum. / cum.	WNW / ..	5	c-str. / sm-cum.	WNW	8.9
„ 5,...	7	sm-cum. / cum.	SW / E	9	sm-cum. / cum.	ESE	7	c-str. / c-cum.	W	7	sm-cum. / cum.	W / E	7.1
„ 6,...	8	sm-cum.	WSW	8	c-str. / sm-cum.	WSW	9	c-cum. / cum.	E	9	sm-cum. / cum.	WSW / E	8.4
„ 7,...	10	nim.	...	10	sm-cum. / cum.	WSW / E	9	c-str. / sm-cum.	WSW	9	c-cum. / sm-cum.	W	9.6
„ 8,...	10	sm-cum. / cum.	SW / E	10	cum-nim.	...	10	str-cum.	...	10	nim.	...	9.1
„ 9,...	9	sm-cum. / cum.	E	8	sm-cum. / cum.	E	7	sm-cum. / cum.	E	10	str-cum.	...	9.1
„ 10,...	9	sm-cum. / cum.	E	9	sm-cum. / cum.	ESE	9	sm-cum. / cum.	E	9	cum.	E	9.3
„ 11,...	9	sm-cum. / R-cum.	E	9	sm-cum. / R-cum.	E	10	c-cum. / cum.	W / E	10	cum.	E	9.7
„ 12,...	10	cum-nim.	ESE	10	sm-cum. / cum.	ESE	10	R-cum.	ESE	8	R-cum.	ESE	9.7
„ 13,...	7	c-str. / sm-cum. / cum.	W / .. / S	9	c-cum. / cum.	S	9	R-cum.	S	7	cum.	...	8.9
„ 14,...	2	c-cum. / cum.	SW	5	cum.	SW	6	cum.	SW	6	cum.	SW	6.5
„ 15,...	2	cum.	SSW	3	c-cum. / cum.	SSW	2	c-cum. / cum.	SSW	8	cum.	SSW	4.3
„ 16,...	2	c-cum. / cum.	SSW	1	cum.	...	4	c-cum. / cum.	...	2	cum.	...	2.9
„ 17,...	7	c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	7	cum.	SSW	5	cum.	SSW	6.4
„ 18,...	2	c-cum. / cum.	SSW	4	c-cum. / cum.	SSW	3	c-cum. / cum.	SSW	1	cum.	SSW	4.0
„ 19,...	9	c-str. / cum.	SW	2	c-cum. / cum.	SW	2	c-cum. / cum.	SSW	1	cum.	...	4.6
„ 20,...	5	c-cum. / cum.	SW	1	c-cum. / cum.	...	2	c-str.	...	1	cum.	...	3.5
„ 21,...	2	c-cum. / cum.	SW	2	c-cum. / cum.	...	2	c-cum. / cum.	...	1	cum.	...	2.4
„ 22,...	2	c-cum. / cum.	SSE	1	cum.	...	0	...	...	1	cum.	...	2.4
„ 23,...	2	c-cum. / cum.	SW	1	cum.	...	0	...	...	0	...	...	1.9
„ 24,...	6	c-cum. / cum.	W / SW	2	c-cum. / cum.	...	5	c-cum.	...	0	...	...	2.1
„ 25,...	1	cum.	...	2	c-cum. / cum.	W	2	c-cum. / cum.	WSW	1	cum.	...	1.5
„ 26,...	7	c-cum. / cum.	WSW	8	c-cum. / cum.	WSW	4	c-cum. / cum.	...	3	cum.	...	5.6
„ 27,...	9	c-str. / cum.	SSW	8	c-cum. / cum.	NE / S	7	c-str. / cum.	NNE / S	5	c-str. / cum.	...	6.9
„ 28,...	2	c-cum. / cum.	...	8	c-str. / cum.	NE	5	c-cum. / cum.	ENE	8	nim.	ENE	3.7
„ 29,...	10	nim.	E	9	c-cum. / nim.	E	9	nim.	E	10	nim.	E	8.0
„ 30,...	7	cum.	ESE	2	cum.	ESE	2	c-cum. / cum.	ESE	0	...	...	4.9
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	6.5	...	...	6.2	...	...	6.0	...	...	5.6	...	...	6.3

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JUNE, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.4	7.3	2.7	1.2	− 1.3	+ 6.1	E 12° S
2 „	1.2	6.7	3.2	1.4	2.0	5.3	E 20° S
3 „	1.4	7.0	3.1	1.5	1.7	5.5	E 17° S
4 „	1.3	6.9	3.1	1.1	1.8	5.8	E 17° S
5 „	1.3	7.6	3.1	1.3	1.8	6.3	E 16° S
6 „	2.2	7.2	2.6	1.6	0.4	5.6	E 4° S
7 „	2.1	8.6	2.9	0.9	0.8	7.7	E 6° S
8 „	1.8	9.1	2.2	1.3	0.4	7.8	E 3° S
9 „	1.9	9.8	2.9	2.4	1.0	7.4	E 8° S
10 „	1.5	10.4	2.9	2.9	1.4	7.5	E 10° S
11 „	1.1	9.9	3.3	3.7	2.2	6.2	E 19° S
Noon.	1.3	10.1	3.5	4.0	2.2	6.1	E 20° S
1 p.	1.5	9.4	4.0	3.4	2.5	6.0	E 23° S
2 „	1.0	9.2	4.7	2.4	3.7	6.8	E 29° S
3 „	1.1	9.5	5.1	2.2	4.0	7.3	E 29° S
4 „	0.9	9.4	5.6	1.5	4.7	7.9	E 30° S
5 „	1.0	9.5	5.7	1.3	4.7	8.2	E 30° S
6 „	0.9	9.0	5.0	0.4	4.1	8.6	E 26° S
7 „	1.3	8.2	4.3	0.6	3.0	7.6	E 21° S
8 „	1.6	7.2	3.2	0.3	1.6	6.9	E 13° S
9 „	1.8	7.4	2.6	0.3	0.8	7.1	E 7° S
10 „	1.1	8.1	3.0	0.9	1.9	7.2	E 15° S
11 „	1.6	8.0	2.4	0.9	0.8	7.1	E 6° S
Midt.	1.3	7.8	2.6	1.0	− 1.3	+ 6.8	E 11° S
Means, ...	1.4	8.5	3.5	1.6	− 2.09	+ 6.87	E 17° S

PHENOMENA :—

Solar halo :—on the 13th, 19th, 27th, 28th and 29th.

Solar corona :—on the 8th and 21st.

Lunar corona :—on the 4th, 5th, 6th, 7th, 8th, 14th, 16th, 17th, 18th, 19th, 26th and 27th.

Slight fog :—on the 2nd and 3rd.

Haze :—on the 8th.

Dew :—on the 5th, 7th, 8th, 21st, 22nd, 23rd, 24th, 26th and 28th.

Rainbow :—on the 8th (lunar), 17th, 20th, 26th, 29th and 30th.

Lightning without thunder :—on the 1st, 14th, 20th, 23rd, 24th, 25th and 28th.

Thunder and lightning :—on the 26th and 27th.

Thunderstorms :—on the 2nd, 10 p.—3rd, 4.30 a., N–S, nearest at 10.56 p. (5^s), and at 2.23 a (7ˢ). On the 29th, noon—1 p., E–NW, nearest at 12.48 p. (9^s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF JULY, 1895.

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,...	29.488	29.477	29.473	29.466	29.475	29.483	29.515	29.521	29.524	29.530	29.528	29.522	29.510	29.507	29.495	29.492	29.483	29.502	29.521	29.528	29.546	29.563	29.560	29.549	29.511
„ 2,...	.541	.526	.526	.526	.528	.546	.556	.575	.577	.588	.581	.575	.568	.555	.547	.540	.527	.538	.569	.572	.595	.610	.602	.600	.561
„ 3,...	.589	.577	.571	.570	.575	.584	.593	.610	.613	.633	.626	.606	.584	.576	.562	.548	.553	.550	.592	.601	.602	.609	.603	.595	.589
„ 4,...	.576	.568	.544	.549	.575	.606	.596	.619	.624	.634	.636	.617	.599	.564	.540	.532	.535	.547	.572	.584	.604	.611	.597	.585	.584
„ 5,...	.585	.570	.557	.552	.554	.565	.577	.578	.596	.610	.600	.593	.590	.586	.571	.557	.563	.578	.591	.615	.642	.650	.653	.628	.590
„ 6,...	.611	.597	.583	.581	.578	.597	.620	.632	.637	.637	.642	.641	.615	.606	.601	.600	.607	.626	.637	.643	.648	.652	.675	.664	.622
„ 7,...	.651	.652	.656	.657	.658	.681	.698	.701	.706	.713	.715	.700	.702	.694	.667	.665	.669	.675	.686	.705	.720	.745	.751	.741	.692
„ 8,...	.731	.726	.719	.726	.728	.730	.742	.752	.759	.759	.761	.752	.727	.719	.693	.678	.677	.684	.704	.719	.725	.738	.734	.725	.725
„ 9,...	.713	.713	.698	.696	.706	.715	.727	.733	.742	.739	.742	.732	.713	.698	.683	.667	.655	.659	.669	.684	.690	.701	.698	.693	.703
„ 10,...	.680	.675	.674	.672	.678	.687	.692	.698	.702	.699	.704	.692	.684	.666	.650	.644	.641	.636	.649	.669	.684	.691	.699	.690	.677
„ 11,...	.690	.681	.679	.684	.690	.701	.718	.730	.730	.726	.718	.714	.703	.687	.680	.666	.659	.658	.669	.685	.700	.726	.720	.718	.697
„ 12,...	.713	.705	.704	.704	.712	.720	.733	.737	.739	.741	.744	.739	.724	.710	.693	.680	.677	.685	.693	.697	.716	.729	.735	.720	.715
„ 13,...	.714	.713	.703	.697	.705	.719	.731	.743	.747	.742	.747	.750	.742	.726	.710	.692	.694	.702	.716	.728	.729	.740	.744	.731	.724
„ 14,...	.727	.724	.715	.717	.728	.741	.767	.776	.770	.767	.771	.763	.743	.729	.713	.705	.695	.702	.716	.723	.736	.744	.746	.734	.735
„ 15,...	.722	.723	.711	.711	.709	.712	.731	.746	.741	.739	.730	.719	.700	.682	.667	.659	.648	.659	.674	.681	.693	.699	.695	.691	.702
„ 16,...	.692	.692	.684	.678	.680	.698	.706	.717	.716	.712	.715	.701	.676	.668	.652	.627	.624	.630	.638	.646	.670	.676	.677	.662	.677
„ 17,...	.648	.649	.653	.656	.661	.669	.694	.697	.697	.689	.686	.680	.657	.636	.623	.612	.601	.611	.624	.631	.639	.650	.655	.646	.653
„ 18,...	.637	.633	.628	.627	.627	.642	.656	.664	.670	.670	.663	.661	.646	.627	.605	.591	.586	.588	.601	.621	.639	.663	.660	.655	.636
„ 19,...	.647	.646	.629	.630	.637	.654	.667	.676	.683	.680	.672	.654	.629	.603	.590	.576	.579	.574	.591	.611	.634	.661	.656	.642	.634
„ 20,...	.637	.627	.624	.629	.631	.637	.642	.639	.641	.641	.632	.630	.594	.575	.556	.550	.535	.553	.562	.582	.603	.627	.621	.619	.608
„ 21,...	.609	.591	.580	.585	.598	.613	.632	.635	.637	.638	.636	.610	.580	.557	.546	.523	.528	.541	.551	.578	.605	.614	.602	.601	.591
„ 22,...	.587	.561	.547	.554	.560	.572	.585	.594	.595	.591	.581	.568	.545	.531	.513	.509	.512	.515	.531	.553	.564	.566	.562	.565	.557
„ 23,...	.568	.557	.551	.542	.540	.543	.559	.567	.578	.581	.573	.557	.542	.523	.514	.501	.500	.510	.537	.557	.577	.591	.594	.589	.552
„ 24,...	.569	.558	.550	.547	.553	.571	.591	.605	.610	.616	.620	.604	.598	.576	.573	.577	.580	.602	.628	.653	.663	.674	.679	.677	.603
„ 25,..	.667	.652	.642	.646	.654	.666	.684	.691	.700	.697	.697	.701	.698	.670	.654	.638	.634	.646	.650	.681	.696	.703	.699	.697	.673
„ 26,...	.673	.661	.657	.666	.665	.675	.684	.681	.675	.666	.672	.672	.664	.652	.633	.624	.626	.628	.645	.659	.667	.689	.682	.679	.662
„ 27,...	.664	.657	.635	.619	.619	.633	.633	.647	.652	.646	.642	.630	.608	.586	.557	.554	.550	.547	.548	.551	.556	.570	.565	.547	.601
„ 28,..	.543	.538	.531	.510	.491	.497	.508	.490	.463	.455	.445	.410	.377	.341	.338	.330	.347	.381	.416	.441	.465	.497	.506	.504	.451
„ 29,...	.480	.483	.489	.476	.497	.532	.543	.579	.588	.609	.617	.589	.551	.548	.573	.575	.581	.602	.606	.618	.663	.688	.690	.673	.577
„ 30,...	.654	.641	.646	.655	.663	.670	.688	.691	.707	.710	.715	.699	.685	.681	.677	.681	.674	.691	.714	.743	.750	.755	.749	.730	.695
„ 31,...	.725	.734	.731	.736	.742	.755	.775	.787	.797	.805	.799	.792	.780	.769	.750	.738	.749	.760	.764	.779	.799	.810	.801	.799	.770
Means,.....	29.636	29.629	29.622	29.621	29.626	29.639	29.653	29.662	29.665	29.667	29.665	29.654	29.637	29.621	29.607	29.598	29.596	29.606	29.621	29.637	29.652	29.666	29.665	29.656	29.638

TABLE II.

TEMPERATURE FOR THE MONTH OF JULY, 1895.

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,	82.1	82.2	82.3	80.3	81.1	81.9	80.6	83.3	83.1	78.3	84.1	86.0	86.5	83.4	85.3	85.3	84.3	83.7	82.0	82.4	80.6	81.2	81.8	82.3	82.7	87.3	78.3
„ 2,	82.2	82.7	82.3	80.9	80.6	81.7	83.8	84.2	86.0	85.2	85.9	86.5	86.0	84.3	84.6	81.0	83.8	82.7	83.0	81.8	82.3	82.6	82.3	82.8	83.3	86.6	80.0
„ 3,	82.5	82.4	82.4	82.5	82.3	83.0	83.6	84.1	85.6	77.9	78.3	82.9	86.5	86.0	85.8	86.0	84.4	83.6	83.6	83.7	83.7	83.6	83.8	83.7	83.4	87.4	76.4
„ 4,	82.6	81.5	82.1	82.4	76.7	74.0	75.5	77.3	77.6	77.3	79.0	79.2	80.3	82.0	83.1	84.8	84.1	83.9	82.8	82.7	83.4	82.8	82.9	80.2	80.8	85.1	73.4
„ 5,	79.6	79.5	79.4	79.4	79.3	79.6	80.7	82.0	82.3	81.1	83.3	78.7	79.6	78.3	80.4	80.7	81.2	80.8	80.4	81.0	80.9	79.5	78.6	79.1	80.2	84.8	77.7
„ 6,	79.5	79.4	79.7	79.6	78.6	78.2	77.9	78.9	79.6	80.2	80.0	79.2	79.7	81.4	82.0	81.4	78.5	78.4	78.2	78.0	77.2	78.0	77.6	77.6	79.1	83.3	77.2
„ 7,	78.0	78.6	79.6	79.6	79.6	79.6	81.2	80.7	82.1	81.3	81.2	82.7	85.0	84.7	83.0	82.2	83.0	81.9	81.3	81.3	81.1	80.4	79.4	79.1	81.1	85.4	77.6
„ 8,	78.8	79.5	79.6	79.7	79.9	80.6	81.0	83.2	84.0	84.7	85.3	85.7	85.6	85.0	84.5	84.4	83.7	82.8	82.1	82.0	82.0	81.6	81.5	81.0	82.4	86.9	78.7
„ 9,	80.8	80.0	80.4	80.3	80.5	81.0	80.9	81.4	84.0	84.8	85.6	85.2	85.7	86.0	84.7	85.6	84.0	82.9	81.6	81.7	82.0	81.0	81.0	80.8	82.6	87.1	80.0
„ 10,	80.6	80.5	80.0	80.1	80.5	81.3	81.8	83.3	83.3	84.7	85.0	85.8	84.6	84.7	86.7	84.2	84.1	83.2	82.6	82.0	81.9	81.3	81.5	81.6	82.7	87.6	79.9
„ 11,	81.7	81.5	80.7	80.5	80.8	81.4	82.0	81.0	83.2	84.3	85.0	85.9	86.0	85.4	85.0	84.7	84.1	83.0	81.3	81.2	81.8	81.4	81.4	81.3	82.7	87.9	80.4
„ 12,	81.2	80.8	80.9	80.6	80.4	81.2	82.1	81.2	84.2	82.4	84.0	85.9	85.8	86.0	86.0	84.3	84.3	83.7	82.7	82.3	82.3	82.4	82.4	82.3	82.9	86.3	80.2
„ 13,	82.1	81.9	81.8	81.7	81.7	81.8	82.7	82.9	84.9	84.6	85.9	84.6	86.0	85.2	84.9	84.9	84.0	83.2	82.2	81.7	81.0	80.7	80.2	80.3	83.0	86.7	80.2
„ 14,	80.1	80.0	80.7	80.4	80.1	81.3	81.5	82.1	83.7	84.8	84.6	86.2	86.5	86.6	86.1	84.9	84.2	83.4	83.0	81.6	81.7	81.5	80.9	80.6	82.8	86.6	80.0
„ 15,	80.4	80.7	80.7	80.4	79.1	79.7	81.7	82.1	84.6	85.0	86.1	81.0	82.3	86.0	85.8	85.9	84.9	83.9	82.0	81.6	81.7	81.4	81.0	81.2	82.5	87.2	79.1
„ 16,	81.0	81.4	78.6	79.7	80.7	80.3	78.9	82.3	83.9	85.1	85.5	86.1	86.5	85.7	85.6	86.0	85.0	84.0	82.6	82.5	82.7	82.5	82.2	81.6	82.9	87.6	78.6
„ 17,	81.7	81.3	81.3	81.3	81.6	81.9	83.0	84.3	84.7	86.4	87.6	87.1	87.7	87.3	86.5	86.5	85.1	84.8	83.0	82.5	81.8	82.0	81.7	80.6	83.8	88.1	80.6
„ 18,	80.6	80.9	80.9	81.0	81.5	81.7	82.7	84.2	85.3	87.7	88.2	89.0	88.6	88.0	88.0	87.2	85.3	84.2	83.0	83.0	82.3	81.6	81.7	81.4	84.1	89.0	80.6
„ 19,	81.6	81.5	81.6	81.1	81.0	81.6	82.3	83.2	84.2	86.8	86.8	87.3	88.8	90.0	89.9	88.6	87.0	85.0	83.6	82.6	82.9	82.6	82.2	81.6	84.3	90.7	80.8
„ 20,	81.3	81.7	81.3	80.6	80.8	81.4	82.7	84.2	84.6	86.8	86.9	88.6	89.4	89.8	89.1	89.0	86.7	84.2	83.7	83.0	81.7	82.2	82.0	81.3	84.3	91.3	80.6
„ 21,	81.2	80.6	80.5	80.1	80.2	80.2	81.7	83.3	84.9	85.6	85.6	88.0	88.8	90.0	89.7	88.1	87.0	84.7	82.7	82.9	82.3	81.2	82.2	81.1	83.9	90.9	79.4
„ 22,	80.9	80.3	80.5	80.0	80.1	80.7	82.1	82.9	83.6	85.8	86.5	88.0	88.2	90.2	87.9	85.3	84.8	83.9	82.6	82.2	81.2	80.5	80.0	79.3	83.2	90.3	79.1
„ 23,	79.5	78.9	79.5	79.6	80.0	80.9	80.6	82.4	83.7	86.2	86.2	86.5	88.2	88.9	87.8	88.3	85.8	84.1	83.0	82.6	81.5	81.8	81.3	81.0	83.3	89.9	78.8
„ 24,	80.0	79.9	79.7	79.6	79.7	80.0	81.9	82.9	84.0	87.2	86.1	87.0	88.0	87.9	87.6	87.0	85.3	84.8	81.3	80.0	80.0	79.1	78.9	79.4	82.8	88.0	78.7
„ 25,	79.4	79.2	79.6	80.0	79.7	79.9	80.9	82.4	82.6	84.0	84.5	82.6	76.7	80.6	83.0	82.2	81.4	80.5	79.1	78.8	76.8	76.9	77.7	76.9	80.2	85.1	75.9
„ 26,	76.7	77.5	77.6	77.7	77.6	77.8	78.6	79.8	82.0	82.2	81.4	78.4	79.0	80.5	81.6	81.7	80.8	80.0	79.1	78.7	79.1	78.7	78.4	78.6	79.3	82.8	76.4
„ 27,	78.7	78.0	78.0	77.9	78.0	78.2	80.6	81.8	82.1	84.7	84.5	86.3	87.5	87.8	88.7	88.9	83.8	83.9	81.4	80.8	80.2	80.1	79.3	79.0	82.1	89.1	77.6
„ 28,	78.4	77.5	77.4	77.1	77.9	81.6	79.0	80.5	82.7	82.8	80.0	79.6	78.8	81.1	80.0	78.5	77.9	77.0	76.0	79.0	77.8	78.0	78.0	79.0	79.0	83.3	76.0
„ 29,	80.0	77.2	74.3	79.0	80.0	77.0	77.6	76.1	75.2	75.3	74.7	76.0	77.9	76.2	76.0	74.8	74.4	75.0	75.2	75.3	76.1	76.3	76.0	74.8	76.3	80.0	74.0
„ 30,	74.6	74.6	75.5	74.6	74.5	74.6	80.7	81.9	82.4	83.7	82.8	83.7	83.7	84.2	83.6	83.7	83.3	83.0	82.0	82.1	82.4	82.1	81.8	81.6	80.7	84.4	74.5
„ 31,	81.6	81.2	81.1	81.2	81.5	81.9	81.6	81.7	83.2	83.2	82.3	81.7	83.6	83.0	82.9	82.2	82.5	81.5	81.0	80.5	80.0	80.1	79.4	79.4	81.6	84.4	79.2
Means,	80.3	80.1	80.0	80.0	79.9	80.2	81.0	82.0	83.1	83.6	84.0	84.2	84.8	85.0	85.0	84.5	83.5	82.6	81.6	81.3	81.0	80.8	80.6	80.3	82.1	86.8	78.4

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF JULY, 1895.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
July 1, ...	78.6	78.8	78.4	79.1	78.2	77.8	77.5	78.6	78.0	76.7	78.6	78.1	78.2	77.1	77.2	75.7	76.9	78.2	76.6	78.4	78.5	79.0	79.9	79.1	78.0	146.5
„ 2, ...	79.0	79.3	79.0	78.7	78.4	78.8	79.0	78.8	80.1	78.8	79.8	80.1	78.4	78.8	79.1	78.2	79.0	78.7	79.0	78.6	78.5	79.4	79.1	78.4	79.0	138.3
„ 3, ...	78.4	78.4	78.0	78.5	78.3	78.5	78.2	78.2	79.0	76.1	77.2	79.0	79.9	79.8	79.7	79.8	79.5	78.7	79.4	79.4	79.2	79.5	78.9	78.3	78.7	144.0
„ 4, ...	78.9	77.6	78.6	79.0	74.8	73.4	75.0	76.2	77.0	76.8	78.1	77.4	78.1	79.1	80.0	80.1	79.9	79.6	79.7	79.6	79.6	79.7	79.2	75.2	78.0	118.2
„ 5, ...	76.3	76.6	76.1	76.5	76.0	76.3	76.7	77.8	78.2	78.7	78.8	76.5	77.8	77.7	77.3	77.5	77.1	77.5	78.0	78.0	79.9	77.2	77.0	77.0	77.4	127.2
„ 6, ...	77.1	77.2	77.0	76.7	75.7	76.4	76.1	76.7	77.8	78.0	77.8	77.3	77.1	77.8	78.0	77.5	77.0	77.1	75.0	76.1	75.8	75.2	74.6	74.3	76.6	126.4
„ 7, ...	74.7	75.0	74.6	74.9	75.2	76.1	76.9	78.6	79.0	78.5	77.6	78.3	79.7	79.3	79.1	78.9	77.2	76.9	77.2	77.9	78.9	77.5	77.3	76.6	77.3	150.7
„ 8, ...	76.6	77.0	76.7	76.5	77.0	77.2	78.1	78.7	78.5	77.9	77.7	79.5	79.8	78.4	78.6	78.2	78.6	77.8	77.3	77.2	76.9	77.3	77.0	77.5	77.8	140.7
„ 9, ...	77.6	77.4	78.0	77.7	77.6	77.8	77.7	76.9	77.7	78.3	78.7	78.0	79.3	79.4	79.3	79.1	78.7	77.3	77.0	76.3	76.2	77.1	77.1	77.6	77.8	139.2
„ 10, ...	77.5	77.4	77.2	77.4	77.0	76.5	76.7	77.1	77.0	77.2	78.0	78.1	77.4	78.6	78.9	78.4	77.8	77.6	76.2	77.0	77.0	76.9	77.0	77.3	77.4	140.5
„ 11, ...	77.1	77.0	76.8	76.7	76.5	76.6	77.0	74.1	76.9	78.1	77.7	78.1	78.0	77.8	78.3	77.3	76.7	77.3	76.4	77.2	77.0	77.1	76.9	77.3	77.1	140.2
„ 12, ...	76.9	77.2	77.2	77.3	77.2	76.6	77.0	77.0	79.0	76.9	77.1	78.0	77.9	77.0	77.9	78.1	77.2	77.0	77.1	77.0	77.3	77.3	77.2	77.3	77.3	140.3
„ 13, ...	77.6	77.5	77.4	77.2	77.1	77.2	77.2	77.3	78.0	77.6	78.0	77.8	78.1	78.0	78.7	77.9	76.1	76.9	76.5	76.8	77.2	77.4	77.3	77.9	77.4	145.7
„ 14, ...	77.8	77.2	77.3	77.0	77.0	77.2	76.8	77.0	78.1	77.6	77.0	77.1	77.6	78.2	77.9	78.1	78.1	77.9	77.0	76.9	77.2	77.5	77.2	77.0	77.4	142.3
„ 15, ...	77.0	76.7	76.4	76.5	76.0	76.8	78.0	78.4	79.0	78.0	78.5	76.4	78.0	79.0	76.5	78.0	77.2	77.7	77.0	77.2	77.0	77.3	77.2	77.1	77.4	142.0
„ 16, ...	76.5	76.8	74.0	76.1	75.0	77.4	76.5	78.5	78.0	77.2	78.3	79.0	78.1	78.0	77.8	78.1	78.0	78.0	77.7	77.7	77.8	77.6	77.4	77.2	77.4	143.0
„ 17, ...	76.5	77.0	77.0	76.7	76.5	77.3	78.1	78.0	78.2	78.3	79.9	78.8	79.6	79.8	78.2	78.0	78.9	79.0	78.1	78.0	78.0	78.2	77.9	77.6	78.1	138.4
„ 18, ...	77.6	77.6	77.6	77.9	78.0	78.2	79.3	79.3	79.8	80.9	80.7	82.1	80.3	78.9	80.1	79.0	79.3	78.8	77.8	77.1	77.0	77.0	77.6	77.8	78.7	141.4
„ 19, ...	78.0	78.1	77.8	77.6	77.5	78.4	79.1	78.7	79.7	80.2	79.8	80.3	81.3	81.2	81.0	79.9	79.6	79.1	79.0	79.2	78.5	79.2	79.2	78.2	79.2	142.4
„ 20, ...	78.4	78.3	78.0	77.8	78.1	78.3	79.3	79.1	78.9	79.6	78.7	80.1	80.7	80.7	76.6	76.7	78.0	78.2	77.2	77.6	77.3	77.2	78.0	77.5	78.3	140.8
„ 21, ...	77.1	77.7	77.5	77.2	77.3	77.5	78.0	77.8	78.1	79.0	78.3	78.9	78.7	78.9	79.0	79.0	78.1	77.3	77.7	77.2	77.6	77.7	78.0	77.6	78.0	143.1
„ 22, ...	77.7	77.6	77.5	77.6	77.4	77.8	77.0	77.6	77.9	78.7	78.8	77.9	78.1	78.3	77.8	76.4	77.0	76.0	77.0	76.9	76.7	77.0	76.5	76.9	77.4	140.1
„ 23, ...	77.0	77.0	77.0	77.3	77.7	77.8	77.6	77.9	78.7	78.3	77.9	78.0	78.1	78.6	75.8	78.3	78.0	77.3	76.1	76.7	77.2	76.5	77.0	77.4	77.5	140.9
„ 24, ...	77.4	77.1	77.3	77.2	77.3	77.0	77.0	77.1	77.7	78.4	78.0	78.1	76.5	77.6	76.0	74.9	77.0	75.5	76.2	75.9	76.0	75.8	76.1	76.4	76.8	143.1
„ 25, ...	76.3	76.6	77.0	77.0	77.3	77.1	77.2	77.7	77.5	77.7	77.9	77.4	75.7	77.7	78.1	77.8	77.6	76.6	76.2	75.4	75.4	75.4	76.0	76.1	76.9	143.2
„ 26, ...	75.0	76.7	75.9	76.0	76.0	76.7	77.2	77.6	79.5	78.9	78.3	78.0	77.0	78.3	79.7	78.0	78.7	76.4	76.5	76.7	77.4	77.2	77.4	77.4	77.4	132.8
„ 27, ...	77.3	76.1	77.2	77.1	77.1	77.1	78.4	79.0	78.3	79.3	79.1	79.0	80.3	79.2	78.6	78.5	78.1	78.8	78.1	77.8	77.8	77.7	77.5	77.2	78.1	140.6
„ 28, ...	77.3	76.3	76.6	76.2	76.5	75.0	75.8	76.9	75.9	76.0	77.3	76.5	76.1	77.0	77.0	76.1	76.1	76.0	75.1	76.1	76.0	75.9	76.2	75.2	76.8	132.5
„ 29, ...	76.1	74.0	73.2	76.2	76.1	74.0	74.3	74.4	74.3	74.4	73.2	74.0	75.3	74.2	74.4	73.4	73.1	73.2	74.2	74.1	73.7	73.8	74.0	73.7	74.2	106.3
„ 30, ...	73.7	73.6	74.6	74.4	74.3	74.2	77.8	78.1	77.9	78.1	78.2	79.0	78.2	79.1	78.0	78.1	78.0	77.8	78.0	77.9	78.0	77.9	78.3	78.2	77.1	139.9
„ 31, ...	77.8	77.7	77.3	77.4	77.5	78.0	77.8	78.1	78.3	79.3	79.2	79.6	80.3	79.7	79.3	79.3	79.2	78.8	78.0	77.9	78.5	77.3	77.7	77.8	78.4	143.3
Means, ...	77.1	77.0	76.9	77.1	76.8	76.9	77.4	77.7	78.1	78.0	78.2	78.3	78.4	78.5	78.2	77.9	77.8	77.5	77.2	77.3	77.4	77.3	77.3	76.9	77.6	138.5

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF JULY, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	86	0.889	July 1,.....	80	0.897
2 „	87	.888	„ 2,.....	82	.934
3 „	87	.885	„ 3,.....	80	.919
4 „	87	.893	„ 4,.....	88	.922
5 „	87	.882	„ 5,.....	88	.904
6 „	86	.882	„ 6,.....	89	.883
7 „	85	.893	„ 7,.....	84	.887
8 „	82	.892	„ 8,.....	81	.892
9 „	79	.896	„ 9,.....	80	.889
10 „	77	.885	„ 10,.....	78	.870
11 „	76	.888	„ 11,.....	77	.857
Noon.	75	.890	„ 12,.....	77	.863
1 p.	74	.886	„ 13,.....	77	.866
2 „	74	.888	„ 14,.....	77	.869
3 „	73	.875	„ 15,.....	79	.873
4 „	74	.867	„ 16,.....	77	.867
5 „	76	.877	„ 17,.....	76	.886
6 „	79	.876	„ 18,.....	77	.910
7 „	82	.877	„ 19,.....	79	.930
8 „	82	.884	„ 20,.....	75	.889
9 „	85	.893	„ 21,.....	75	.880
10 „	85	.891	„ 22,.....	76	.863
11 „	86	.895	„ 23,.....	76	.866
Midt.	86	.889	„ 24,.....	75	.842
			„ 25,.....	86	.882
			„ 26,.....	91	.916
			„ 27,.....	83	.914
			„ 28,.....	88	.867
			„ 29,.....	91	.818
			„ 30,.....	85	.884
			„ 31,.....	86	.930
Means,.....	81	0.886	Means.	81	0.886

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.
1895.														
July 1,.....	...	0.6	0.6	0.5	0.1	0.5	1.0	1.0	0.5	1.0	0.4	0.7	0.1	7.0
„ 2,.....	...	0.7	0.5	1.0	0.7	0.4	0.6	0.8	0.7	0.1	...	0.2	...	5.7
„ 3,.....	0.1	0.4	0.5	0.9	0.4	...	0.1	0.9	0.2	0.5	0.4	...	...	4.4
„ 4,.....	...	...	...	...	...	...	...	...	...	...	0.1	0.1	...	0.2
„ 5,.....	...	...	0.1	...	...	...	...	...	...	...	...	...	...	0.1
„ 6, ...	...	...	...	...	...	...	...	...	...	0.3	0.1	...	...	0.4
„ 7,.....	0.1	...	0.1	0.1	0.4	...	0.4	0.9	0.2	...	...	...	...	2.2
„ 8,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	10.7
„ 9,.....	...	...	0.2	1.0	1.0	1.0	1.0	0.9	1.0	0.8	1.0	1.0	0.4	9.3
„ 10,.....	0.4	0.9	1.0	0.9	1.0	1.0	1.0	0.9	1.0	0.7	1.0	1.0	0.2	11.0
„ 11,.....	...	0.6	0.4	1.0	0.8	0.9	1.0	1.0	0.6	0.6	1.0	1.0	0.3	9.2
„ 12,.....	0.4	0.7	0.6	1.0	0.4	0.4	1.0	1.0	1.0	0.9	1.0	1.0	0.1	9.5
„ 13,.....	...	0.5	1.0	1.0	0.9	1.0	0.8	0.5	0.9	0.2	0.7	...	...	7.5
„ 14,.....	...	...	0.3	0.8	0.8	0.8	1.0	0.9	0.8	0.9	0.6	0.9	0.2	8.0
„ 15,.....	0.1	0.9	0.8	1.0	0.9	1.0	0.2	0.2	0.9	1.0	1.0	1.0	0.5	9.5
„ 16,.....	0.1	0.3	1.0	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	10.7
„ 17,.....	0.1	0.7	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,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.8
„ 19,.....	...	0.6	0.4	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	10.1
„ 20,.....	0.2	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	11.5
„ 21,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	...	11.1
„ 22,.....	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	...	...	8.7
„ 23,.....	...	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	9.5
„ 24,.....	0.3	1.0	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	11.5
„ 25,.....	0.4	0.9	0.9	0.8	1.0	1.0	0.2	...	...	0.3	...	...	...	5.5
„ 26,.....	...	...	...	0.8	0.8	0.4	...	0.1	0.6	0.6	...	0.4	...	3.7
„ 27,.....	0.3	1.0	0.9	0.7	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.1	10.3
„ 28,.....	...	...	0.2	1.0	...	...	...	...	...	...	...	...	...	1.2
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	...	...	0.3	0.7	0.7	0.8	0.9	0.9	0.6	0.4	0.1	...	5.4
„ 31,.....	...	0.2	0.4	0.7	0.7	0.6	0.5	0.9	1.0	1.0	1.0	1.0	0.3	8.3
Sums,.....	3.2	14.8	17.6	23.4	21.3	20.7	20.6	21.9	21.3	19.9	18.7	17.3	4.7	225.4

TABLE VI.

RAINFALL FOR THE MONTH OF JULY, 1895.

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,	...	...	0.035	0.010	0.015	...	...	...	...	0.140	...	...	...	0.160	...	...	...	...	...	0.015	0.005	...	...	...	0.380	2
" 2,	...	...	...	0.125	...	...	...	...	...	...	...	...	...	...	0.425	...	...	...	0.145	...	0.070	...	...	...	0.765	1
" 3,	...	...	...	...	...	0.010	...	...	...	0.660	0.370	...	...	...	0.005	...	...	...	...	...	...	...	...	0.025	1.070	3
" 4,	...	0.170	...	...	0.995	0.235	0.160	0.260	0.180	0.200	0.220	...	0.010	...	...	...	...	...	...	...	...	...	...	...	2.430	8
" 5,	...	...	...	...	...	...	...	...	0.045	...	0.170	0.270	0.115	0.135	0.005	0.005	0.025	...	0.015	0.005	...	0.055	0.025	...	0.870	6
" 6,	...	...	...	...	0.025	0.330	0.030	0.005	0.005	...	...	0.085	...	...	...	0.015	0.525	0.030	0.025	0.010	...	...	...	...	1.085	8
" 7,	...	...	...	...	...	...	...	...	0.060	0.370	0.035	0.010	...	...	...	...	...	...	...	...	...	...	...	...	0.475	3
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.220	...	...	...	...	...	...	...	...	...	0.220	...
" 11,	...	...	...	...	...	...	0.020	0.030	...	...	...	0.005	...	...	0.010	...	...	0.020	...	...	...	...	...	...	0.085	1
" 12,	...	...	...	...	...	...	...	...	...	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	0.060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	...
" 15,	...	...	...	0.005	...	0.010	...	...	...	...	...	0.060	0.010	...	...	...	...	...	...	...	...	...	...	...	0.085	1
" 16,	...	0.155	...	...	...	0.010	0.075	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.240	2
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	0.060	0.005	...	...	...	...	...	...	0.105	0.025	0.040	...	0.235	2
" 26,	...	...	...	0.015	0.080	...	0.030	...	0.015	...	...	0.060	...	0.025	0.035	...	...	...	...	...	...	...	...	...	0.260	3
" 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 28,	0.325	0.075	0.035	...	...	0.040	0.140	...	0.005	...	0.120	0.030	0.105	0.095	0.500	0.250	0.200	1.630	0.110	0.190	0.050	0.040	0.060	0.250	4.250	14
" 29,	0.080	0.165	0.695	0.135	0.050	0.350	0.005	0.660	0.395	0.140	0.355	0.055	0.300	0.065	0.135	0.065	0.075	0.120	0.060	0.020	0.005	0.110	0.130	0.020	4.190	20
" 30,	0.010	0.010	0.005	0.975	0.080	0.230	0.010	0.050	...	...	0.040	0.010	...	...	...	...	...	...	...	...	...	...	...	...	2.140	7
" 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.415	0.575	0.770	1.265	1.965	1.230	0.470	1.005	0.705	1.585	1.310	0.585	0.600	0.485	1.335	0.335	0.825	1.800	0.355	0.240	0.235	0.230	0.255	0.295	18.870	81

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF JULY, 1895.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
July 1.	10	16	8	18	11	15	8	14	10	12	10	14	10	12	9	18	14	11	15	13	14	11	14	17	14	18	15	11	15	11	14	12	12	14	12	11	9	10	11	14	7	14	7	10	8	10	11	8	314	13.1	11
„ 2.	14	5	13	5	13	7	13	9	15	4	6	4	15	7	17	9	16	12	16	11	15	12	17	11	16	10	15	10	14	12	13	4	15	6	16	12	13	11	17	8	17	8	15	4	17	9	17	9	199	8.3	15
„ 3.	17	10	18	11	17	12	17	16	18	18	18	15	19	17	20	12	18	19	22	21	25	13	18	18	19	23	19	22	19	19	18	20	19	20	19	14	19	12	17	11	17	14	17	15	17	14	19	14	380	15.8	19
„ 4.	18	15	18	13	18	15	17	19	21	21	30	3	6	3	28	9	22	3	28	3	26	5	20	11	23	8	25	8	25	11	20	18	20	18	19	20	20	18	20	14	21	17	21	17	19	22	21	12	303	12.6	20
„ 5.	23	9	26	11	24	8	19	4	23	3	22	8	19	3	26	5	...	1	...	1	27	3	15	13	17	8	18	15	19	16	20	17	18	19	19	19	20	14	20	11	20	11	19	14	21	8	23	7	228	9.5	20
„ 6.	22	5	23	4	21	12	19	14	20	16	20	18	24	11	22	12	27	8	28	6	25	7	27	12	24	6	22	8	26	7	27	8	25	11	20	23	20	15	23	4	25	4	21	5	14	7	14	4	227	9.5	22
„ 7.	25	6	20	9	19	14	19	14	25	10	20	11	20	10	24	7	25	11	20	18	19	12	19	22	19	21	20	17	20	13	25	5	19	3	26	4	...	1	20	4	20	7	22	5	22	4	24	6	234	9.8	21
„ 8.	25	7	22	6	24	7	28	5	21	8	20	8	21	11	20	12	21	14	21	16	20	15	21	15	20	14	19	15	19	17	20	15	19	15	18	11	18	9	18	5	18	6	19	5	19	8	22	8	252	10.5	20
„ 9.	23	8	23	7	22	9	21	10	21	8	21	6	22	8	22	12	19	16	19	12	20	13	21	14	21	14	19	10	22	10	21	11	19	10	21	9	21	9	21	7	18	8	...	1	16	5	18	4	221	9.2	21
„ 10.	17	5	17	8	18	12	16	9	19	10	18	9	18	8	17	8	18	10	17	11	19	11	20	13	19	11	20	11	19	15	18	14	19	11	18	11	19	10	18	7	18	12	17	10	17	6	17	7	239	10.0	18
„ 11.	18	3	17	4	18	7	18	5	18	7	19	3	15	5	17	11	19	8	16	9	19	11	19	13	18	12	19	14	13	13	18	12	18	15	18	11	19	14	18	8	18	8	17	11	17	13	16	8	225	9.4	18
„ 12.	19	8	17	10	17	8	17	7	17	8	18	9	17	4	18	8	21	10	18	10	20	13	19	12	19	14	19	18	19	12	17	11	17	12	17	11	17	14	17	9	17	11	16	10	18	13	17	11	253	10.5	18
„ 13.	18	9	19	11	18	9	17	10	19	9	19	8	19	11	18	9	19	10	20	15	17	18	19	21	18	18	19	19	21	16	19	15	19	13	18	10	18	3	17	4	17	3	16	2	...	1	14	3	247	10.3	19
„ 14.	7	2	...	1	15	5	16	6	18	11	17	5	17	7	15	6	15	5	17	10	18	11	17	8	21	6	16	9	16	12	16	6	15	10	16	9	18	6	18	2	...	0	...	1	17	2	...	1	141	5.9	17
„ 15.	18	6	18	7	18	9	19	4	25	2	...	1	25	2	25	4	27	4	24	4	15	6	13	8	15	5	19	8	17	10	17	10	17	10	17	10	17	7	18	5	17	8	16	5	16	7	16	6	148	6.2	17
„ 16.	18	6	17	9	19	13	18	8	19	13	22	8	24	9	27	3	22	10	20	12	19	11	20	14	19	15	19	16	19	16	19	10	18	11	18	10	18	6	21	4	18	7	18	6	18	10	18	7	234	9.7	19
„ 17.	18	10	19	8	20	11	20	12	19	13	19	12	22	9	20	12	20	15	21	12	20	12	20	13	19	17	19	18	19	15	18	11	17	6	17	6	15	5	18	6	28	2	22	2	...	1	21	2	230	9.6	19
„ 18.	...	1	19	5	20	9	20	8	21	10	20	12	21	11	21	11	22	9	22	10	21	8	22	10	21	13	19	14	21	13	20	9	17	10	17	7	17	6	14	3	14	6	18	4	...	0	20	2	191	8.0	20
„ 19.	...	0	19	5	18	2	...	1	20	3	20	5	22	7	22	9	21	11	21	11	24	11	25	10	25	9	23	9	24	7	16	9	16	10	17	9	16	8	15	6	18	6	22	5	17	3	17	4	160	6.7	20
„ 20.	23	2	20	7	21	6	21	3	23	4	22	5	26	2	25	6	26	9	26	9	24	11	23	9	22	10	24	8	16	12	16	11	16	10	16	7	16	6	...	1	15	4	...	0	15	3	15	3	148	6.2	20
„ 21.	10	2	10	2	...	1	...	1	31	4	30	4	27	5	27	6	25	8	26	12	24	8	24	7	24	9	24	10	24	9	24	8	17	7	16	5	15	4	14	4	18	3	...	1	25	3	32	3	126	5.3	24
„ 22.	32	3	32	3	22	9	23	7	26	6	26	4	25	4	26	5	26	7	24	9	25	10	23	9	22	10	22	11	21	11	18	6	18	5	20	9	21	6	29	5	23	5	19	4	23	5	26	4	157	6.5	23
„ 23.	26	2	26	2	26	2	26	2	23	5	23	7	23	8	23	9	24	9	21	11	24	9	24	11	24	11	24	10	21	11	18	6	19	4	17	7	16	6	16	3	...	1	...	1	...	1	...	1	139	5.8	22
„ 24.	16	2	24	3	24	4	24	3	...	0	...	1	...	1	28	5	26	6	23	6	25	9	26	10	17	7	16	10	13	9	15	8	15	9	15	7	14	4	10	9	9	10	7	7	8	12	7	10	152	6.3	14
„ 25.	9	11	9	13	6	19	6	13	6	15	6	15	7	16	7	19	7	18	7	22	7	34	7	22	8	18	7	21	7	22	7	22	7	27	7	30	7	28	8	18	4	18	13	11	5	19	7	17	468	19.5	7
„ 26.	8	16	7	17	7	18	7	15	8	17	7	14	7	13	7	12	6	12	8	19	9	13	9	17	7	13	8	7	8	14	8	14	8	16	14	11	9	6	9	7	9	7	9	6	9	5	9	4	293	12.2	8
„ 27.	9	4	9	2	9	4	9	3	9	2	...	1	...	1	9	6	9	9	8	7	8	8	6	3	24	8	23	7	24	6	27	5	8	4	30	5	30	5	30	2	30	4	30	3	30	4	30	2	105	4.4	4
„ 28.	7	9	15	5	25	6	24	5	22	5	2	14	31	14	1	19	2	27	2	29	2	27	3	38	3	43	5	53	5	53	7	47	7	44	10	45	9	41	9	33	8	32	12	28	13	28	12	30	675	28.1	6
„ 29.	11	37	12	20	14	26	11	34	12	40	15	34	12	28	14	25	11	23	15	31	15	25	12	22	13	36	14	36	14	25	12	19	11	20	12	15	9	23	10	18	12	18	12	22	13	24	12	16	617	25.7	12
„ 30.	8	23	8	26	8	25	7	17	6	10	26	10	14	21	14	33	14	30	14	31	14	28	15	28	14	32	14	28	14	28	14	30	14	27	15	22	15	17	15	14	14	19	14	21	15	20	15	22	562	23.4	13
„ 31.	14	21	13	15	14	14	14	12	14	17	14	12	13	9	13	10	14	9	9	9	8	17	8	20	8	22	9	21	9	19	9	17	9	17	10	12	12	12	10	11	9	10	12	8	9	7	9	5	326	13.6	11
Sums.	...	263	...	267	...	318	...	290	...	311	...	280	...	277	...	332	...	354	...	400	...	402	...	451	...	461	...	474	...	464	...	410	...	414	...	392	...	336	...	257	...	283	...	244	...	274	...	240	8194	341.4	...
Means.	...	8.5	...	8.6	...	10.3	...	9.4	...	10.0	...	9.0	...	8.9	...	10.7	...	11.4	...	12.9	...	13.0	...	14.5	...	14.9	...	15.3	...	15.0	...	13.2	...	13.4	...	12.6	...	10.8	...	8.3	...	9.1	...	7.9	...	8.8	...	7.7	264.3	11.0	...

TABLE VIII.

AMOUNT AND CLASSIFICATION OF CLOUDS AND DIRECTION WHENCE CONIMG.

Date.	1 a.			4 a.			7 a.			10 a.		
	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction	Amount.	Name.	Direction
1895.												
July 1, ...	1	cum.	...	5	cum-nim.	ESE	8	c-cum. / cum.	SE	10	nim.	...
„ 2, ...	8	nim.	SSE	8	cum-nim.	SSE	7	c-str. / cum.	ENE / S	9	c-str. / cum.	SSW
„ 3, ...	9	c-str. / cum.	SW	8	c-str. / cum.	SW	7	c-cum. / cum.	SW	10	nim.	SW
„ 4, ...	9	sm-cum. / cum-nim.	SW	9	cum-nim.	SW	10	nim.	...	10	nim.	WSW
„ 5, ...	9	str-cum.	W	8	c-str. / cum.	WSW	8	sm-cum. / str-cum.	W / WSW	10	cum-nim.	W
„ 6, ...	10	cum-nim.	...	10	cum-nim.	SW	10	cum-nim.	WSW	10	nim.	W
„ 7, ...	8	sm-cum. / cum.	SW	10	sm-cum. / cum.	WSW	7	c-cum. / cum.	SW	10	c-cum. / cum.	WSW
„ 8, ...	2	sm-cum.	...	9	cum.	WSW	8	c-str. / cum.	SW	4	c-cum. / cum.	WSW
„ 9, ...	10	cum.	SW	7	c-cum. / cum.	SW	9	c-cum. / cum.	SW	4	c-cum. / cum.	SW
„ 10, ...	9	c-str. / cum.	SW	9	c-str. / cum.	SW	8	c-str. / cum.	SW	9	c-cum. / cum.	SW
„ 11, ...	8	c-str. / cum.	SSW	9	c-str. / cum.	SSW	8	c-cum. / cum.	SSW	8	c-cum. / cum.	SW
„ 12, ...	7	cum.	SW	6	cum.	SSW	8	cum.	SW	9	c-cum. / nim.	SSW
„ 13, ...	8	R-cum.	SW	7	cum.	SSW	7	c-cum. / cum.	SW	8	c-cum. / cum.	SSW
„ 14, ...	9	c-str. / cum.	SSW	9	c-str. / cum.	S	9	c-cum. / nim.	SSW	7	c-cum. / cum.	SSW
„ 15, ...	5	c-str. / cum.	...	7	nim.	SSW	8	c-cum. / cum.	SSW	7	c-str. / cum.	SSW
„ 16, ..	5	c-str. / cum.	S	9	nim.	SSW	5	c-cum. / cum.	SW	8	c-cum. / cum.	SW
„ 17, ...	2	c-str. / cum.	SW	4	cum.	S	3	cum.	SW	2	cum.	SW
„ 18, ...	2	cum.	...	5	cum.	WSW	4	cum.	SW	2	cum.	WSW
„ 19, ...	2	cum.	...	3	cum.	...	3	cum.	SW	2	cum.	WSW
„ 20, ...	3	cum.	WSW	6	cum.	WSW	1	cum.	SW	2	cum.	W
„ 21, ...	0	...	...	6	cum.	...	9	c-cum. / cum.	NNE / SW	8	c-cum. / cum.	NNE / SW
„ 22, ..	5	str-cum.	...	2	cum.	...	2	c-cum. / cum.	...	5	c-cum. / cum.	NNE / SW
„ 23, ...	8	c-cum.	...	7	cum.	...	6	cum.	WSW	2	c-cum. / cum.	W
„ 24, ...	4	c-cum.	...	7	cum.	...	5	c-cum. / cum.	SW	4	c-cum. / cum.	SSW
„ 25, ...	3	cum.	...	3	cum.	...	4	cum.	E	7	c-cum. / cum.	E
„ 26, ...	10	nim.	...	10	nim.	...	10	nim.	SE	8	c-cum. / cum.	ESE
„ 27, ...	0	...	...	0	...	...	2	c-cum. / cum.	...	3	c-cum. / cum.	...
„ 28, ...	10	nim.	...	10	cum-nim.	...	10	nim.	NNE	10	nim.	NE
„ 29, ...	10	cum-nim.	...	10	cum-nim.	...	10	nim.	SSE	10	nim.	S
„ 30, ...	10	cum-nim.	...	10	nim.	...	10	cum-nim.	S	9	c-str. / c-cum. / cum.	S
„ 31, ...	7	cum.	SSE	6	cum.	S	5	cum.	S	8	cum.	SSE
Means,...	6.2	...	...	7.1	...	...	6.8	...	...	6.9	...	...

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	
1895.													
July 1,...	6	c-cum. / cum.	S	8	c-cum. / cum.	E / S	8	c-str. / cum.	SSE	9	c-str. / cum.	SE	6.9
„ 2,...	8	c-cum. / R-cum.	SSW	8	c-str. / cum.	SSW	10	nim.	...	8	cum.	SSW	8.2
„ 3,...	9	c-cum. / cum.	W / SW	9	c-cum. / cum.	SW	10	sm-cum. / cum.	SSW	9	sm-cum. / cum.	SW	8.9
„ 4,...	9	c-cum. / cum-nim.	W / WSW	10	c-cum. / cum.	WSW	9	sm-cum. / cum.	WSW	10	cum.	WSW	9.5
„ 5,...	10	nim.	W	10	str. / cum.	WSW	10	nim.	WSW	10	nim.	SW	9.4
„ 6,...	10	str. / cum.	WSW	10	R-cum.	WSW	10	nim.	SW	10	str-cum.	...	10.0
„ 7,...	8	c-cum. / cum.	WSW / SW	9	c-cum. / cum.	SW	10	c-str. / cum.	SW	4	c-str. / cum.	WSW / W	8.3
„ 8,...	7	c-cum. / cum.	SW	7	c-cum. / cum.	SW	5	cum.	SW	9	c-str. / cum.	SW	6.4
„ 9,...	8	c-str. / cum.	SW	8	c-str. / cum.	SW	3	c-str. / cum.	SW	7	cum.	SW	7.0
„ 10,...	4	c-cum. / cum.	SW	4	cum.	SW	2	cum.	SW	1	cum.	SW	5.7
„ 11,...	7	c-cum. / cum.	SW	8	c-cum. / cum.	SW	4	c-cum. / cum.	SW	2	c-str. / cum.	SW	6.8
„ 12,...	6	c-cum. / cum.	SW	6	c-str. / cum.	SW	5	c-str. / cum.	SW	7	cum.	SW	6.7
„ 13,...	8	c-cum. / cum.	SSW	9	c-str. / cum.	SW	9	c-str. / cum.	SW	1	c-str. / cum.	...	7.1
„ 14,...	4	c-cum. / cum.	ENE / SSW	7	c-cum. / cum.	SSW	8	cum.	SSW	7	cum-nim.	...	7.5
„ 15,...	7	c-cum. / cum.	SSW	7	c-cum. / cum.	SSW	6	c-cum. / cum.	SSW	3	cum.	SSW	6.2
„ 16,...	6	c-cum. / cum.	SW	8	c-cum. / cum.	SW	6	c-cum. / cum.	SW	3	cum.	...	6.3
„ 17,...	3	cum.	SW	1	cum.	...	0	...	...	0	...	...	1.9
„ 18,...	2	cum.	...	1	cum.	...	0	...	...	0	...	...	2.0
„ 19,...	1	c-str. / cum.	...	1	cum.	...	1	c-cum. / cum.	...	1	cum.	SW	1.7
„ 20,...	1	cum.	SW	1	c-str.	...	1	c-str.	...	0	...	...	1.9
„ 21,...	3	c-cum. / cum.	NE / ..	2	c-cum.	...	3	c-cum.	...	6	str-cum.	...	4.6
„ 22,...	6	c-cum. / cum.	NNE / SW	8	c-cum.	...	8	c-cum.	...	4	c-cum.	...	5.0
„ 23,...	3	c-cum. / cum.	W	8	c-cum.	NNE	6	c-cum. / sm-cum.	NNE / ..	0	...	...	5.0
„ 24,...	2	cum.	...	1	c-cum.	...	7	c-str. / c-cum.	...	0	...	...	3.8
„ 25,...	10	nim.	E	10	c-str. / cum.	E	10	R-cum.	E	10	nim.	E	7.1
„ 26,...	9	c-cum. / cum-nim.	SSE	9	c-cum. / cum.	SSE	2	c-cum. / cum.	S	1	cum.	S	7.4
„ 27,...	2	c-cum. / cum.	...	9	c-cum. / cum.	...	5	c-cum. / cum.	...	1	c-cum.	...	2.7
„ 28,...	10	nim.	ENE	10	nim.	E	10	nim.	ESE	10	nim.	...	10.0
„ 29,...	10	nim.	S	10	nim.	SSE	10	nim.	SSE	10	nim.	...	10.0
„ 30,...	7	c-cum. / cum.	S	9	cum.	S	7	c-cum. / R-cum.	E / S	7	R-cum.	S	8.6
„ 31,...	7	c-cum. / cum.	SSE	3	cum.	SE	3	cum.	SSE	4	cum.	SSE	5.4
Means,...	6.2	...	...	6.8	...	...	6.1	...	...	5.0	...	...	6.4

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF JULY, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	0.3	4.0	4.2	2.1	− 3.9	+ 1.9	S 26° E
2 „	0.4	3.3	4.4	2.5	4.0	+ 0.8	S 12° E
3 „	0.4	3.1	5.8	3.6	5.4	− 0.5	S 5° W
4 „	0.5	3.2	5.5	2.6	5.0	+ 0.6	S 7° E
5 „	0.6	2.8	5.6	4.1	5.0	− 1.3	S 14° W
6 „	1.2	2.0	4.9	3.5	3.7	1.5	S 23° W
7 „	0.8	2.5	4.4	3.6	3.6	1.1	S 17° W
8 „	1.5	2.9	5.2	4.1	3.7	1.2	S 18° W
9 „	1.6	2.8	5.5	4.7	3.9	1.9	S 27° W
10 „	1.5	2.8	6.7	5.2	5.2	2.4	S 24° W
11 „	1.4	3.3	6.0	5.2	4.6	1.9	S 22° W
Noon.	1.6	3.8	7.5	5.9	5.9	2.1	S 19° W
1 p.	1.3	3.8	8.3	5.7	7.0	1.9	S 16° W
2 „	1.1	3.9	8.9	5.8	7.8	1.9	S 14° W
3 „	1.2	4.3	8.4	5.4	7.2	− 1.1	S 9° W
4 „	0.7	4.3	7.8	3.8	7.1	+ 0.5	S 3° E
5 „	0.5	4.8	8.4	3.0	7.9	1.8	S 13° E
6 „	0.4	3.5	9.1	3.0	8.7	0.5	S 3° E
7 „	0.3	4.1	6.5	2.7	6.2	1.4	S 13° E
8 „	0.2	3.5	4.8	1.9	4.6	1.6	S 20° E
9 „	0.7	3.5	5.1	2.2	4.4	1.3	S 17° E
10 „	0.2	2.6	5.6	1.7	5.4	0.9	S 9° E
11 „	0.5	2.8	6.0	1.7	5.5	1.1	S 11° E
Midt.	0.4	2.6	4.8	1.8	− 4.4	+ 0.8	S 11° E
Means, ...	0.8	3.3	6.2	3.6	− 5.42	− 0.23	S 2° W

PHENOMENA :—

Solar halo :—on the 2nd, 9th, 11th, 12th, 13th, 15th, 25th and 27th.

Solar corona :—on the 3rd.

Lunar halo :—on the 1st, 7th, 9th, 10th, 11th, 13th 14th, 15th and 27th.

Lunar corona :—on the 1st, 2nd, 3rd, 4th, 5th, 8th, 9th, 11th, 12th, 13th, 14th, 16th, 17th, 24th, 30th and 31st.

Haze :—on the 27th and 30th.

Dew :—on the 8th, 9th, 12th, 13th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 22nd, 23rd, 27th, 28th and 31st.

Rainbow :—on the 1st, 11th, 15th, 16th and 30th.

Lightning without thunder :—on the 3rd, 6th, 8th, 14th, 15th, 16th, 17th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th and 30th.

Thunder without lightning :—on the 3rd, 5th, 26th and 30th.

Thunder and lightning :—on the 4th and 25th.

Thunderstorms :—on the 4th, 1.30 a.–10 a., NW–S, nearest at 3.17 a. (8s), at 6.8 a. (3s) and at 8.7 a. (4s). On the 5th, 3.30 a–4.30 a. in S, nearest at 3.36 a. (20s). On the 5th, 9 p.–10 p., distant in SSE. On the 28th, 0.15 a.–4 a., NW–S, nearest at 1.3 a. (8s).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF AUGUST, 1895.

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,...	29.785	29.777	29.777	29.773	29.787	29.800	29.815	29.833	29.836	29.840	29.826	29.805	29.791	29.783	29.770	29.745	29.747	29.748	29.759	29.776	29.793	29.797	29.803	29.796	29.790
„ 2,...	.789	.779	.772	.764	.763	.770	.773	.789	.793	.790	.779	.764	.746	.733	.719	.705	.696	.693	.704	.716	.714	.721	.718	.706	.746
„ 3,...	.698	.697	.693	.682	.690	.704	.710	.709	.714	.710	.708	.691	.676	.657	.634	.625	.630	.632	.642	.657	.672	.684	.680	.679	.678
„ 4,...	.676	.665	.664	.662	.662	.670	.679	.699	.707	.696	.694	.680	.672	.648	.632	.615	.614	.618	.631	.640	.648	.655	.656	.656	.660
„ 5,...	.650	.651	.649	.646	.644	.658	.670	.690	.701	.706	.704	.686	.667	.653	.626	.615	.606	.608	.632	.659	.680	.692	.689	.682	.661
„ 6,...	.675	.660	.658	.656	.656	.667	.686	.691	.698	.701	.701	.688	.668	.641	.623	.614	.605	.610	.637	.652	.671	.678	.675	.667	.662
„ 7,...	.647	.643	.637	.639	.650	.652	.673	.677	.690	.700	.697	.686	.668	.650	.631	.622	.607	.615	.621	.644	.664	.677	.675	.673	.656
„ 8,...	.665	.657	.646	.636	.638	.658	.664	.670	.676	.674	.666	.657	.642	.615	.591	.571	.572	.589	.606	.619	.624	.645	.640	.625	.635
„ 9,...	.617	.602	.588	.585	.583	.581	.590	.594	.607	.622	.626	.613	.600	.596	.576	.575	.574	.576	.594	.610	.631	.633	.630	.626	.601
„ 10,...	.607	.592	.597	.589	.587	.593	.606	.617	.627	.631	.632	.622	.619	.607	.604	.602	.612	.601	.616	.625	.648	.655	.657	.655	.617
„ 11,...	.643	.632	.631	.639	.625	.626	.636	.659	.665	.689	.692	.678	.681	.665	.647	.635	.629	.630	.639	.668	.692	.700	.676	.668	.656
„ 12,...	.657	.652	.634	.635	.629	.635	.654	.660	.693	.698	.676	.663	.669	.641	.627	.633	.634	.638	.645	.665	.689	.680	.666	.645	.655
„ 13,...	.628	.619	.613	.613	.616	.621	.635	.650	.661	.682	.660	.636	.628	.609	.592	.610	.614	.629	.638	.670	.685	.696	.690	.684	.641
„ 14,...	.670	.667	.660	.654	.661	.688	.706	.710	.716	.725	.728	.712	.691	.678	.660	.663	.669	.673	.684	.694	.711	.720	.726	.716	.691
„ 15,...	.702	.687	.675	.667	.663	.677	.691	.705	.705	.703	.710	.698	.672	.637	.622	.607	.606	.616	.619	.632	.649	.659	.655	.645	.663
„ 16,...	.630	.622	.613	.614	.619	.626	.637	.640	.647	.646	.636	.622	.598	.580	.565	.556	.549	.555	.575	.586	.594	.602	.605	.602	.605
„ 17,...	.591	.576	.567	.569	.568	.577	.597	.609	.617	.622	.614	.605	.588	.576	.563	.550	.553	.557	.569	.577	.589	.608	.623	.627	.587
„ 18,...	.617	.596	.594	.594	.604	.607	.618	.629	.636	.635	.631	.629	.610	.599	.581	.574	.578	.576	.578	.606	.618	.631	.636	.624	.608
„ 19,...	.604	.600	.586	.587	.590	.588	.595	.612	.623	.626	.623	.612	.597	.592	.578	.572	.557	.558	.572	.590	.624	.640	.629	.616	.599
„ 20,...	.622	.589	.582	.579	.582	.601	.618	.619	.622	.630	.634	.627	.609	.590	.578	.554	.557	.577	.598	.616	.633	.639	.643	.642	.606
„ 21,...	.631	.618	.607	.597	.599	.608	.616	.620	.630	.628	.624	.610	.602	.585	.565	.543	.544	.550	.564	.580	.606	.626	.626	.628	.600
„ 22,...	.614	.604	.588	.599	.588	.600	.616	.622	.642	.634	.635	.623	.610	.590	.557	.542	.546	.558	.561	.582	.614	.627	.627	.622	.600
„ 23,...	.613	.604	.594	.593	.602	.616	.632	.647	.657	.651	.649	.641	.627	.604	.585	.570	.571	.576	.583	.618	.623	.624	.622	.611	.613
„ 24,...	.599	.597	.598	.592	.596	.608	.621	.638	.641	.637	.628	.615	.586	.557	.555	.541	.557	.578	.598	.592	.593	.597	.597	.591	.596
„ 25,...	.583	.572	.565	.563	.569	.576	.590	.608	.608	.607	.598	.577	.552	.525	.507	.499	.508	.520	.531	.553	.568	.577	.586	.582	.564
„ 26,...	.572	.565	.544	.541	.554	.560	.567	.585	.593	.587	.591	.573	.552	.536	.528	.542	.565	.591	.611	.620	.639	.650	.627	.618	.580
„ 27,...	.617	.611	.601	.601	.604	.611	.629	.644	.661	.667	.671	.660	.644	.627	.621	.617	.625	.642	.640	.650	.669	.672	.655	.636	.636
„ 28.	.624	.608	.603	.601	.600	.605	.616	.622	.637	.637	.615	.597	.577	.556	.546	.547	.551	.565	.580	.595	.615	.611	.600	.586	.596
„ 29,...	.570	.558	.555	.546	.560	.580	.595	.606	.600	.605	.601	.584	.579	.566	.545	.549	.541	.546	.558	.582	.604	.607	.603	.588	.576
„ 30,...	.573	.557	.547	.547	.553	.563	.592	.605	.609	.602	.601	.583	.564	.544	.527	.523	.532	.530	.527	.537	.554	.558	.549	.539	.559
„ 31,...	.522	.502	.473	.491	.505	.522	.553	.564	.574	.589	.593	.587	.573	.561	.551	.554	.556	.567	.596	.612	.627	.635	.618	.614	.564
Means,.....	29.635	29.624	29.616	29.615	29.618	29.627	29.641	29.652	29.661	29.664	29.659	29.646	29.631	29.613	29.597	29.589	29.590	29.597	29.610	29.627	29.643	29.651	29.648	29.640	29.629

TABLE II.

TEMPERATURE FOR THE MONTH OF AUGUST, 1895.

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,	78.6	78.8	78.6	78.6	78.6	77.6	78.8	79.8	79.8	78.8	81.6	82.3	82.0	82.7	83.4	82.6	81.3	80.8	80.3	79.7	79.6	79.0	78.9	78.2	80.0	84.4	77.2
" 2,	77.3	78.0	77.0	76.6	76.5	77.6	79.0	80.7	80.9	83.3	85.5	85.2	86.1	86.4	86.1	84.6	83.6	81.9	81.0	80.0	79.7	79.6	80.1	79.0	81.1	87.1	76.1
" 3,	79.1	79.6	79.2	79.4	79.0	79.7	80.9	81.8	83.8	85.0	86.5	86.7	87.8	86.5	86.0	85.7	84.8	83.7	82.3	82.0	81.6	81.2	81.0	80.6	82.7	88.2	78.6
" 4,	81.1	80.8	80.5	80.4	80.0	81.6	81.8	83.1	84.0	85.8	86.5	86.5	87.0	87.0	86.6	85.6	84.8	83.6	82.2	82.1	82.5	81.9	81.0	81.2	83.2	87.3	80.0
" 5,	80.7	80.8	80.9	80.6	79.9	80.3	80.8	82.7	82.0	84.1	85.0	86.1	87.4	87.1	86.6	86.3	85.6	83.9	82.9	82.3	82.3	82.2	81.8	81.3	83.1	88.1	79.4
" 6,	81.2	81.1	80.3	80.2	77.2	78.3	80.3	82.1	82.4	85.8	84.5	86.3	88.0	87.4	88.2	88.0	86.0	84.3	83.7	82.4	82.1	82.3	81.8	81.4	83.1	88.3	77.0
" 7,	80.7	80.6	80.5	80.9	80.9	79.9	78.0	81.1	83.2	85.2	85.3	87.0	86.0	86.2	86.2	85.1	85.0	83.9	82.5	81.8	81.4	80.6	79.7	79.7	82.6	87.6	78.0
" 8,	79.1	79.0	78.3	78.3	78.4	78.9	81.5	82.7	84.2	85.1	86.9	87.0	86.9	88.0	87.0	86.1	85.0	83.8	83.0	81.6	81.0	80.9	80.1	80.6	82.6	88.4	78.3
" 9,	80.5	80.2	79.2	79.4	78.5	78.6	79.7	82.9	84.0	84.2	86.1	86.0	86.1	85.1	86.0	83.0	82.9	81.9	80.7	80.6	80.5	80.2	79.5	79.6	81.9	86.1	78.1
" 10,	79.6	79.4	79.6	79.1	79.0	79.5	80.0	79.7	81.8	81.6	83.0	83.9	79.1	80.7	79.0	77.3	75.9	77.0	78.7	79.4	79.3	78.7	79.7	79.8	79.6	84.7	75.1
" 11,	79.7	78.7	78.7	79.8	80.1	80.4	81.3	78.9	80.1	75.8	76.7	76.1	75.7	75.6	75.5	76.2	76.0	76.2	76.4	76.9	77.0	77.3	76.8	77.5	77.6	81.5	75.1
" 12,	77.3	76.6	76.3	76.6	77.0	77.4	76.3	76.7	77.1	76.3	77.9	78.1	77.8	78.5	79.0	79.6	80.1	79.3	79.1	78.4	78.4	78.5	79.1	79.3	77.9	80.5	75.4
" 13,	78.7	78.6	78.6	78.6	78.0	77.4	79.0	80.1	79.5	74.6	76.3	81.4	80.4	80.0	79.2	79.0	79.6	79.0	78.9	78.7	78.8	79.7	79.0	78.6	78.8	81.7	74.6
" 14,	78.3	78.0	78.6	79.0	79.4	79.5	80.4	81.4	82.3	83.7	85.4	86.2	85.5	86.7	85.2	84.3	84.0	82.8	81.9	81.1	80.6	81.2	80.7	78.4	81.9	88.1	78.0
" 15,	79.4	78.7	79.9	79.5	78.8	79.3	80.0	82.8	83.2	84.0	84.1	85.1	85.4	85.7	85.6	84.1	83.6	83.3	81.7	81.2	81.1	80.5	80.0	80.3	82.0	87.4	78.3
" 16,	79.4	80.3	80.1	80.3	80.0	79.5	80.9	81.9	84.7	85.7	85.7	86.0	86.2	86.5	84.5	83.8	82.2	81.5	80.8	81.0	81.9	80.0	79.6	79.4	82.2	88.0	78.8
" 17,	79.7	79.8	79.6	79.5	79.4	79.3	80.9	81.8	83.9	86.7	86.0	84.6	83.2	82.9	83.3	83.1	83.0	82.7	81.7	81.1	80.3	80.1	80.0	79.7	81.8	87.2	78.3
" 18,	79.6	79.2	78.5	77.8	77.0	77.3	78.0	79.7	82.7	84.8	85.6	82.5	81.4	82.5	81.3	80.7	80.5	80.7	80.0	79.6	79.7	79.9	79.2	79.3	80.3	87.1	76.3
" 19,	78.5	77.9	77.5	77.5	77.6	77.4	79.0	80.0	82.9	84.0	84.0	85.5	84.4	80.0	78.6	80.4	80.3	79.9	78.4	77.9	78.3	77.4	77.7	76.4	79.6	85.7	76.4
" 20,	76.2	77.0	76.4	76.6	75.4	76.4	77.6	80.1	82.0	83.2	85.9	86.0	85.0	85.0	85.1	85.0	84.6	83.0	81.5	80.6	80.7	80.6	78.9	78.8	80.9	86.1	75.4
" 21,	78.1	78.2	77.4	78.0	76.4	77.8	80.1	82.6	83.5	85.9	86.2	87.6	85.6	87.6	87.7	88.0	87.9	85.0	83.1	82.7	82.0	81.7	80.4	80.1	82.7	88.7	76.4
" 22,	79.8	80.2	80.7	80.3	78.4	78.4	81.0	82.9	83.7	85.6	86.9	87.0	86.6	87.8	88.3	88.2	87.0	84.1	83.8	82.0	82.1	81.1	81.0	80.0	83.2	88.9	78.1
" 23,	80.2	79.8	79.9	78.9	78.9	79.5	81.2	83.2	84.9	86.9	87.7	88.3	87.8	87.9	89.1	87.0	86.4	84.4	83.2	82.6	82.9	81.5	80.2	79.8	83.4	89.1	78.9
" 24,	79.6	79.4	80.4	79.9	79.0	79.6	81.9	83.3	84.5	86.0	86.7	87.9	87.7	87.9	88.3	86.6	85.3	83.7	77.8	77.2	76.6	76.6	76.6	76.5	82.0	90.1	76.5
" 25,	76.6	76.5	77.6	78.5	76.9	79.5	80.2	84.3	83.8	86.0	87.7	87.5	88.5	88.7	88.1	87.1	86.6	84.8	83.7	82.5	81.9	82.3	82.0	81.7	83.0	89.2	76.3
" 26,	81.8	81.4	80.5	80.1	80.0	80.1	80.8	80.7	81.3	84.7	84.7	84.6	85.7	85.7	87.2	84.3	83.7	81.7	80.2	79.9	79.8	80.0	79.8	79.3	82.0	88.0	79.0
" 27,	78.8	78.1	78.0	77.9	77.8	78.2	81.0	80.5	80.0	79.2	76.8	76.0	77.2	77.8	78.8	79.8	78.9	77.3	76.9	77.1	77.4	77.3	78.0	77.0	78.2	81.7	75.8
" 28,	76.2	76.0	76.8	76.1	76.3	76.0	77.5	80.5	80.8	82.3	83.7	85.0	85.7	87.9	87.3	83.2	79.6	80.7	80.3	81.2	80.9	81.0	79.9	79.7	80.6	88.4	75.4
" 29,	79.4	79.9	79.4	78.8	78.9	79.2	79.5	80.9	82.7	83.3	85.7	86.2	86.7	86.7	87.1	87.1	86.6	85.0	84.0	83.8	82.8	80.6	80.1	80.0	82.7	87.8	78.8
" 30,	79.3	80.6	80.3	79.6	79.7	78.8	80.9	81.9	83.4	84.7	84.1	85.7	86.1	86.2	86.7	85.3	82.7	81.1	81.2	82.0	81.1	80.8	79.3	77.6	82.0	87.4	76.9
" 31,	76.5	79.1	79.7	80.2	80.0	80.1	80.0	80.6	81.5	81.7	84.0	83.3	83.8	81.7	82.3	81.1	81.3	79.5	79.6	79.6	79.3	79.4	79.5	78.6	80.5	84.0	76.5
Means,	79.1	79.1	79.0	78.9	78.5	78.8	79.9	81.3	82.4	83.4	84.3	84.8	84.6	84.7	84.6	83.8	83.1	82.0	81.0	80.6	80.4	80.1	79.7	79.3	81.4	86.7	77.2

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF AUGUST, 1895.

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, ...	78.2	77.8	78.1	77.7	77.7	76.5	76.9	77.2	76.9	76.9	78.3	78.0	77.8	78.5	79.0	78.4	78.0	77.1	76.9	76.1	76.4	76.8	77.0	76.3	77.4	145.7
„ 2, ...	76.2	76.1	76.0	75.7	75.8	77.3	77.1	77.8	76.8	75.4	78.0	76.8	77.4	77.2	78.9	77.3	77.1	76.7	76.1	76.4	76.4	76.3	76.3	76.1	76.7	138.5
„ 3, ...	76.2	76.0	76.5	76.6	76.4	76.7	77.2	77.2	78.7	79.5	79.1	78.0	76.4	77.9	77.6	77.8	77.7	77.0	76.9	77.1	77.0	76.8	76.0	76.7	77.2	140.5
„ 4, ...	76.6	76.5	76.4	76.3	76.9	77.6	78.0	78.0	77.9	78.6	78.6	79.0	78.1	78.6	78.0	77.0	77.0	77.1	77.0	76.3	76.8	77.0	77.7	77.0	77.4	139.6
„ 5, ...	77.3	76.8	76.9	77.1	77.1	77.5	77.9	78.8	79.0	79.0	78.6	79.0	79.0	78.9	77.7	78.3	78.3	77.7	77.2	77.6	77.9	77.8	77.8	77.9	78.0	143.8
„ 6, ...	77.9	77.8	77.7	77.8	74.0	74.8	77.0	77.1	78.1	79.2	79.0	78.9	78.8	78.6	79.8	79.0	77.6	78.7	77.2	77.8	77.8	77.5	77.4	77.3	77.8	142.6
„ 7, ...	77.6	77.5	77.0	76.8	77.4	77.3	75.0	77.0	78.8	78.9	79.0	81.5	78.3	79.0	78.1	77.7	78.0	77.7	77.7	77.6	77.8	77.7	77.0	76.8	77.8	143.7
„ 8, ...	76.8	76.7	76.5	76.4	76.3	76.5	78.0	78.0	78.3	77.2	77.4	79.1	78.2	79.1	79.0	78.1	78.7	77.8	77.8	78.0	77.7	77.7	77.5	77.1	77.7	146.2
„ 9, ...	78.2	78.0	77.4	77.4	77.0	77.4	77.7	78.7	78.0	78.3	79.0	78.5	78.2	77.5	77.2	78.0	77.6	77.4	77.4	77.7	77.6	77.2	77.2	77.1	77.7	148.5
„ 10, ...	76.4	76.4	76.5	77.9	76.5	76.3	76.7	76.8	77.2	76.8	76.3	77.1	76.1	76.7	75.1	75.7	74.2	74.6	75.2	75.2	75.5	75.8	75.7	75.7	76.1	143.4
„ 11, ...	76.5	76.3	76.1	75.8	76.5	76.7	77.2	76.3	77.8	75.2	74.0	74.6	73.8	74.2	74.4	75.0	75.1	74.5	74.0	75.0	75.3	75.7	75.7	75.7	75.5	93.8
„ 12, ...	76.0	76.4	75.5	75.7	76.3	76.5	75.7	75.8	75.2	74.3	76.0	75.8	76.1	76.2	76.9	75.8	77.0	77.3	76.5	77.0	77.5	77.4	77.4	77.2	76.3	116.3
„ 13, ...	77.3	77.3	77.3	77.4	77.5	75.8	77.3	77.2	77.6	73.7	75.0	77.0	79.1	77.5	78.6	75.0	76.7	76.6	76.9	76.9	76.8	77.0	77.1	77.3	76.9	116.4
„ 14, ...	77.4	77.3	76.7	77.5	78.0	78.3	79.2	79.5	79.4	77.8	78.0	76.9	78.0	78.1	77.8	78.3	77.7	78.0	78.2	77.8	77.4	77.0	77.2	77.2	77.9	143.2
„ 15, ...	77.0	77.1	77.1	77.0	77.0	77.1	77.3	78.3	78.0	76.8	77.2	78.1	78.2	77.9	78.1	76.8	77.6	77.0	76.8	76.7	76.6	76.3	77.3	77.2	77.3	141.0
„ 16, ...	77.0	76.1	77.5	77.1	77.0	77.2	76.0	77.9	79.7	77.8	78.0	78.9	78.8	79.0	78.6	79.2	79.1	77.8	77.9	77.9	78.2	77.4	77.6	77.5	77.9	148.6
„ 17, ...	78.3	78.2	78.1	78.3	78.2	78.0	78.0	78.0	79.8	79.7	78.8	78.4	78.1	78.0	78.0	78.0	78.0	78.1	77.7	77.8	77.9	78.2	77.4	77.9	78.2	148.4
„ 18, ...	77.6	77.8	76.3	75.3	75.6	75.2	75.8	76.0	76.8	79.2	79.1	77.9	78.7	78.8	78.3	77.8	78.2	78.5	78.7	78.1	77.4	77.3	77.1	76.9	77.4	151.7
„ 19, ...	76.2	76.9	76.6	77.0	76.9	76.9	77.0	77.6	78.0	76.3	76.1	79.1	79.5	76.5	76.7	76.3	76.3	75.8	75.7	75.6	75.7	75.7	75.3	75.2	76.6	145.4
„ 20, ...	75.4	75.4	75.0	75.0	74.5	74.9	76.0	76.2	76.1	77.8	74.1	76.2	76.0	75.9	76.0	75.0	75.7	76.0	75.9	76.0	76.1	76.2	76.1	75.8	75.7	138.9
„ 21, ...	75.4	75.2	75.7	75.1	75.0	75.3	76.5	77.1	77.6	79.6	79.1	80.2	78.5	79.7	80.3	80.3	80.0	79.1	78.0	78.1	78.0	78.7	78.2	77.5	77.8	142.1
„ 22, ...	77.7	77.5	77.0	77.1	76.5	77.0	77.9	78.8	77.7	78.3	78.1	79.0	79.3	80.8	81.0	80.2	81.0	79.0	78.6	79.1	79.0	79.0	79.1	79.0	78.7	148.7
„ 23, ...	79.0	78.7	78.7	78.6	78.3	78.3	79.8	80.1	80.7	80.1	81.3	82.0	81.1	80.6	81.5	80.3	78.7	79.0	79.5	78.9	78.2	78.0	78.0	78.2	79.5	147.0
„ 24, ...	78.0	77.8	77.6	77.4	77.5	77.9	77.9	78.2	78.1	79.4	79.3	81.2	81.0	80.9	80.0	79.0	78.2	78.0	74.9	75.0	74.9	74.7	74.9	74.6	77.8	144.6
„ 25, ...	74.7	74.6	74.5	75.6	76.5	76.2	77.0	77.1	78.5	79.0	80.1	80.7	80.2	80.4	80.7	80.1	80.4	79.1	78.6	78.7	78.1	78.8	79.1	78.8	78.2	140.1
„ 26, ...	79.4	79.0	78.0	78.2	77.5	77.3	78.0	77.7	77.4	78.1	78.6	78.7	78.2	77.3	77.8	78.2	76.7	77.0	76.8	76.7	76.3	75.8	75.0	74.3	77.4	147.9
„ 27, ...	74.7	74.5	74.4	74.8	74.7	75.0	75.7	75.8	75.2	76.1	75.0	75.2	75.8	76.4	76.1	76.3	76.0	74.7	74.6	75.5	75.1	74.8	74.1	74.2	75.2	112.2
„ 28, ...	74.0	73.9	74.0	74.0	73.8	74.1	74.8	75.1	75.0	75.4	76.1	76.1	76.9	77.0	76.7	75.3	75.6	75.4	75.3	75.4	75.2	74.2	74.1	73.7	75.0	158.4
„ 29, ...	73.7	73.4	73.5	71.9	71.4	71.7	71.4	72.0	73.0	72.7	73.7	74.2	74.0	73.9	73.9	73.4	72.4	71.5	71.1	71.0	70.8	74.1	75.0	70.6	72.7	146.5
„ 30, ...	70.0	69.3	69.1	70.4	69.4	69.6	70.0	70.0	71.6	72.1	72.7	73.7	73.9	74.0	74.0	73.9	73.6	74.0	73.5	74.1	73.2	73.3	74.3	74.4	72.3	158.9
„ 31, ...	74.8	75.0	75.8	75.7	76.0	76.1	76.3	76.8	77.0	77.2	78.3	78.3	78.9	77.1	77.7	77.1	76.8	76.4	75.3	76.1	76.3	76.5	76.3	76.2	76.6	144.3
Means, ...	76.5	76.4	76.2	76.3	76.1	76.2	76.7	77.0	77.4	77.3	77.5	78.0	77.8	77.8	77.9	77.4	77.3	76.9	76.6	76.7	76.6	76.7	76.6	76.4	76.9	140.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF AUGUST, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	89	0.880	Aug. 1,.....	89	0.907
2 „	88	.875	„ 2,.....	81	.860
3 „	88	.868	„ 3,.....	77	.861
4 „	89	.874	„ 4,.....	76	.863
5 „	89	.869	„ 5,.....	79	.892
6 „	89	.871	„ 6,.....	78	.883
7 „	86	.878	„ 7,.....	80	.888
8 „	82	.872	„ 8,.....	79	.884
9 „	79	.875	„ 9,.....	82	.894
10 „	75	.857	„ 10,.....	85	.855
11 „	72	.853	„ 11,.....	91	.856
Noon.	73	.869	„ 12,.....	93	.888
1 p.	73	.863	„ 13,.....	91	.900
2 „	72	.861	„ 14,.....	83	.903
3 „	73	.868	„ 15,.....	80	.875
4 „	73	.856	„ 16,.....	82	.899
5 „	76	.861	„ 17,.....	85	.918
6 „	79	.859	„ 18,.....	87	.903
7 „	81	.858	„ 19,.....	87	.877
8 „	83	.882	„ 20,.....	78	.819
9 „	84	.867	„ 21,.....	79	.888
10 „	85	.876	„ 22,.....	81	.922
11 „	87	.876	„ 23,.....	83	.956
Midt.	87	.873	„ 24,.....	82	.897
			„ 25,.....	80	.902
			„ 26,.....	81	.879
			„ 27,.....	86	.835
			„ 28,.....	76	.794
			„ 29,.....	60	.670
			„ 30,.....	61	.664
			„ 31,.....	83	.863
Means,.....	81	0.868	Means.	81	0.868

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.
1895.														
Aug. 1,.....	...	0.1	...	...	...	0.3	0.6	0.7	1.0	1.0	1.0	0.9	0.1	5.7
„ 2,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1 0	1.0	1.0	1.0	1.0	0.6	11.8
„ 3,.....	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	11.9
„ 4,.....	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.9
„ 5,.....	0.3	0.5	0.4	0.5	1.0	1.0	1.0	0.8	0.9	1.0	1.0	1.0	0.4	9.8
„ 6,.....	0.4	0.8	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	11.7
„ 7,.....	...	0.4	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	0.4	1.0	0.5	10.0
„ 8,.....	0.3	0.7	1.0	1.0	0.9	0.9	0.6	0.9	1.0	1.0	1.0	1.0	0.1	10.4
„ 9,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	0.9	0.4	10.5
„ 10,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,.....	...	0.5	0.6	0.7	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.6	0.4	8.5
„ 15,.....	...	0.5	0.6	0.8	0.9	0.8	0.8	0.9	0.7	1.0	0.7	0.8	0.4	8.9
„ 16,.....	0.1	0.6	0.7	0.9	1.0	1.0	1.0	0.9	0.8	0.4	0.3	0.2	...	7.9
„ 17,.....	...	0.2	0.6	0.9	0.9	0.9	0.4	...	...	...	...	0.2	...	4.1
„ 18,.....	...	...	0.3	1.0	0.9	0.9	...	...	...	...	...	...	...	3.1
„ 19,.....	...	...	0.1	0.9	0.6	...	...	...	...	...	...	...	...	1.6
„ 20,.....	0.2	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.2	11.0
„ 21.....	...	0.4	1.0	1 0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	10.6
„ 22,.....	0.2	0.8	0.9	0.8	0.9	0.9	1.0	1.0	1.0	1.0	1.0	1.0	0.1	10.6
„ 23,.....	...	0.9	0.8	1.0	1.0	1.0	1.0	0.7	1.0	1.0	1.0	1.0	0.2	10.6
„ 24,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	0.7	0.4	0.1	...	9.2
„ 25,.....	0 2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.9	0.4	...	10.3
„ 26,.....	...	0.1	0.1	...	0.6	0.3	0.1	0.7	0.4	0.5	...	...	...	2.8
„ 27,.....	...	0.1	0.1	...	...	...	...	...	...	...	...	...	...	0.2
„ 28,.....	...	...	0.8	...	0.2	0.6	1.0	1.0	1.0	0.6	0.1	0.1	...	5.4
„ 29,.....	...	...	0.8	1.0	1.0	0.9	0.9	0.8	0.9	1.0	0.9	1.0	0.2	9.4
„ 30,.....	0.1	1.0	1.0	1.0	0.9	0.2	0.9	0.5	...	...	...	...	...	5.6
„ 31,.....	...	0.4	0.9	0.7	0.6	1.0	0.5	0.5	0.4	0.8	0.8	0.2	...	6.8
Sums,.....	2.9	14.3	19.6	21.2	22.2	21.4	20.5	20.0	19.9	19.6	16.8	16.4	5.5	220.3

TABLE VI.

RAINFALL FOR THE MONTH OF AUGUST, 1895.

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,	...	...	...	...	...	...	...	...	0.010	0.075	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.085	2
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	0.020	0.055	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.080	1
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	0.280	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.280	1
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	0.040	0.055	...	0.030	0.060	0.025	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.210	3
„ 10,	...	...	...	0.010	...	...	0.005	0.030	...	...	...	...	0.165	0.395	0.240	...	0.670	0.010	...	...	...	...	...	...	1.525	6
„ 11,	0.010	...	...	...	...	0.010	0.220	...	...	0.425	0.115	0.170	0.330	0.090	0.030	0.010	...	...	...	...	...	0.010	...	...	1.420	8
„ 12,	...	0.230	0.070	...	0.010	0.170	0.330	...	0.200	...	0.005	0.005	...	0.010	...	...	...	...	...	...	...	...	...	...	1.030	5
„ 13,	...	...	...	0.050	0.130	...	...	...	0.200	0.090	0.065	...	0.005	0.225	...	...	...	...	...	...	...	...	...	...	0.765	5
„ 14,	...	0.060	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.060	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	...	...	...	...	...	...	...	...	...	0.040	0.025	0.015	0.005	0.005	0.010	0.015	0.005	...	...	...	...	...	0.120	5
„ 19,	0.015	0.015	...	...	0.020	...	...	...	...	...	...	...	...	...	0.010	...	...	...	...	...	...	...	...	...	0.060	5
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...
„ 21,	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.120	0.015	...	...	...	...	...	0.135	1
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	0.035	0.015	0.060	0.035	...	...	...	...	...	...	...	...	...	...	...	0.145	5
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.065	...	...	...	...	...	...	...	...	0.065	1
„ 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	...	...	...	0.015	0.025	1
„ 31,	0.095	...	...	...	...	...	...	...	0.005	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.110	1
Sums,	0.125	0.345	0.125	0.060	0.190	0.240	0.880	0.085	0.420	0.635	0.200	0.275	0.560	0.735	0.285	0.080	0.680	0.145	0.020	0.010	...	0.010	...	0.020	6.125	50

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF AUGUST, 1895.

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	9	3	8	7	7	7	8	8	8	4	10	5	8	7	6	9	7	11	13	4	6	5	7	9	7	13	8	13	8	17	8	12	7	14	9	11	9	6	...	1	...	1	9	3	...	1	...	1	172	7.2	8
" 2	...	0	...	0	...	1	...	0	...	1	...	0	...	0	...	1	29	5	25	5	25	8	24	9	18	6	24	9	16	9	15	12	16	9	15	7	17	7	18	3	...	1	22	4	...	1	...	0	98	4.1	20
" 3	22	2	20	3	22	7	22	7	21	8	21	7	22	7	21	9	23	8	25	8	21	10	19	12	19	13	18	15	18	17	17	13	17	13	17	10	18	10	15	3	18	6	18	10	18	5	20	5	208	8.7	19
" 4	20	7	19	11	21	8	22	7	20	5	20	6	22	5	23	6	21	7	23	9	20	9	24	10	18	12	18	12	17	9	18	10	17	8	15	6	15	4	18	6	19	4	19	2	18	3	20	4	170	7.1	20
" 5	20	3	19	5	18	7	18	3	18	3	...	0	...	1	...	1	15	3	24	3	24	8	24	9	19	6	17	4	17	10	17	9	17	6	17	7	15	6	18	4	18	3	...	1	18	3	...	1	106	4.4	18
" 6	14	2	14	2	14	2	14	3	30	6	...	0	...	0	30	3	28	4	25	9	26	12	26	10	26	10	23	9	24	9	17	7	16	9	15	8	15	7	15	7	15	6	14	6	13	6	13	4	141	5.9	20
" 7	14	2	...	0	15	3	15	4	15	2	15	5	26	8	7	3	...	1	28	5	26	6	25	9	24	6	16	10	16	9	16	7	15	9	15	9	15	6	15	5	15	2	15	2	12	3	9	2	118	4.9	17
" 8	9	3	9	3	3	4	11	2	...	1	10	2	...	1	32	5	29	5	26	5	21	4	13	5	9	5	25	5	8	8	8	11	10	8	13	6	11	6	10	7	9	9	9	7	9	6	9	6	124	5.2	9
" 9	9	11	8	11	7	6	5	11	6	11	9	6	8	15	10	12	10	16	10	17	12	22	12	19	12	15	13	16	15	10	11	12	9	10	8	14	9	10	9	8	7	11	7	8	10	12	10	10	293	12.2	10
" 10	10	13	9	10	11	7	10	8	12	9	12	8	8	8	15	6	16	9	16	12	17	11	16	6	16	17	13	16	20	16	27	11	19	19	20	7	17	10	17	13	17	10	18	9	19	8	18	9	252	10.5	16
" 11	19	7	18	5	16	7	18	10	18	5	18	8	17	5	22	10	29	7	16	8	31	6	30	5	20	15	22	3	22	3	...	1	32	2	3	5	11	5	9	5	6	4	7	3	10	3	9	3	135	5.6	18
" 12	8	5	2	7	3	3	2	4	4	5	5	3	28	7	7	3	25	6	27	3	26	4	24	3	6	4	6	3	6	3	13	6	9	5	9	6	11	5	10	7	9	6	9	3	16	5	15	3	109	4.5	7
" 13	15	3	...	1	4	2	13	3	2	3	4	4	...	1	7	5	11	8	2	6	...	1	5	4	30	5	20	6	26	7	18	3	18	3	9	5	9	5	9	6	7	7	7	6	7	8	7	7	109	4.5	7
" 14	7	8	7	7	10	3	12	2	27	5	28	5	24	4	27	6	20	9	21	8	17	9	17	9	19	7	19	10	18	9	16	8	18	7	17	6	18	7	17	5	17	5	...	1	...	1	23	2	143	6.0	18
" 15	...	0	...	1	...	0	...	0	...	1	21	2	...	0	17	3	24	4	20	9	19	10	20	10	21	11	20	12	19	12	21	9	18	6	21	4	17	5	17	2	...	1	...	0	...	1	...	0	103	4.3	20
" 16	23	3	22	4	19	9	21	6	22	4	27	6	27	3	28	3	23	5	23	7	19	9	18	11	21	11	20	14	21	11	20	9	27	8	26	5	25	3	...	0	...	0	...	0	...	1	26	3	135	5.6	22
" 17	...	0	...	1	26	2	...	0	26	2	...	0	26	2	26	2	25	2	20	4	22	8	24	11	27	9	19	7	20	4	20	5	...	1	21	2	...	1	...	1	...	1	12	4	8	3	8	2	74	3.1	22
" 18	8	2	2	2	14	10	15	8	32	5	30	3	...	1	30	2	31	2	9	6	10	6	5	10	13	2	13	2	13	2	13	3	10	2	10	2	10	2	10	2	10	3	10	3	10	2	10	3	85	3.5	10
" 19	10	3	10	2	...	1	...	0	10	2	...	0	...	0	...	1	...	1	24	5	26	6	24	8	22	10	25	20	23	9	24	7	24	4	...	0	10	6	10	5	...	1	10	3	14	3	14	2	99	4.1	23
" 20	18	4	16	2	...	1	16	2	...	1	...	1	...	1	...	1	14	5	9	13	7	19	8	21	8	17	10	16	10	12	8	15	8	15	8	10	8	4	8	2	8	2	...	1	..	1	14	8	174	7.2	9
" 21	8	2	14	2	...	1	...	0	...	1	...	0	14	3	20	5	22	5	22	8	22	8	22	11	21	10	23	8	25	7	26	5	26	3	16	2	...	1	25	2	...	0	25	3	29	3	29	2	93	3.9	22
" 22	29	2	29	3	32	4	...	1	25	4	25	2	...	1	26	3	26	4	26	3	24	5	3	5	9	11	10	5	26	5	26	5	17	6	22	3	17	2	17	3	18	5	27	3	27	4	27	3	92	3.8	25
" 23	27	4	27	3	27	3	...	1	...	0	...	1	27	3	27	6	25	8	23	9	20	10	21	11	23	7	21	10	21	9	20	11	19	5	17	5	15	3	23	4	20	6	24	3	25	4	26	6	132	5.5	22
" 24	27	6	27	4	22	5	26	4	26	4	28	6	21	10	21	13	21	14	22	12	22	10	23	9	22	9	21	7	21	9	21	9	19	11	22	14	7	8	13	4	13	3	25	4	...	1	...	1	177	7.4	22
" 25	27	3	20	2	...	1	...	1	22	2	23	2	...	1	23	3	23	8	22	8	22	7	23	8	24	8	24	8	24	8	23	8	26	6	18	5	20	3	...	1	...	1	26	3	26	6	26	3	106	4.4	23
" 26	26	2	26	7	24	8	23	7	23	6	23	7	23	5	24	9	23	8	23	8	24	10	24	9	24	10	23	8	24	8	26	7	30	4	32	4	27	6	26	6	25	3	2	4	2	6	6	4	156	6.5	25
" 27	6	4	5	5	6	3	7	3	7	4	7	6	3	4	5	4	4	9	7	12	10	18	9	9	10	4	9	6	9	4	...	1	9	5	12	11	7	9	10	7	7	3	...	1	7	4	8	3	139	5.8	8
" 28	...	1	3	3	3	4	2	4	2	2	...	1	23	4	1	10	1	11	32	16	32	15	32	16	32	15	1	13	7	17	9	14	7	6	7	4	6	4	6	5	3	12	1	15	32	18	1	18	228	9.5	2
" 29	1	17	1	18	1	12	32	15	1	16	1	9	32	12	32	11	32	19	1	14	1	13	31	10	1	15	1	14	31	11	32	10	31	16	32	12	1	8	2	6	32	8	6	6	10	2	31	3	277	11.5	1
" 30	30	5	32	17	32	21	1	13	19	5	32	8	2	11	32	6	32	6	32	10	32	11	32	10	32	10	1	7	30	13	32	11	32	8	25	5	1	3	32	11	32	18	32	20	32	17	3	16	262	10.9	32
" 31	3	15	4	28	5	39	5	35	6	33	6	29	5	27	6	27	7	28	7	27	7	28	7	24	7	22	7	18	7	21	7	23	4	16	6	15	6	14	6	11	5	7	7	10	8	14	8	10	521	21.7	6
Sums	...	142	...	176	...	191	...	172	...	160	...	142	...	157	...	188	...	238	...	273	...	308	...	312	...	315	...	306	...	298	...	274	...	244	...	210	...	176	...	152	...	149	...	148	...	155	...	145	5031	209.6	...
Means	...	4.6	...	5.7	...	6.2	...	5.5	...	5.2	...	4.6	...	5.1	...	6.1	...	7.7	...	8.8	...	10.0	...	10.1	...	10.2	...	9.9	...	9.6	...	8.8	...	7.9	...	6.8	...	5.7	...	4.9	...	4.8	...	4.8	...	5.0	...	4.7	162.3	6.8	...

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
1895.												
Aug. 1, ...	1	c-cum. / cum.	SSE	1	cum.	SSE	6	c-cum. / cum.	SSE	10	nim.	SSE
„ 2, ...	2	c-cum. / cum.	...	1	cum.	...	1	cum.	...	2	c-cum. / cum.	...
„ 3, ...	4	cum.	SSW	3	cum.	SSW	8	c-cum. / cum.	SW	1	cum.	...
„ 4, ...	5	cum.	SSW	2	cum.	SW	2	cum.	WSW	1	cum.	WSW
„ 5, ...	2	cum.	SSW	7	cum.	S	8	cum. / nim.	...	5	cum.	SW
„ 6, ...	4	cum.	SSW	7	cum.	S	7	cum.	WSW	2	cum.	SW
„ 7, ...	3	cum.	S	2	cum.	S	5	cum.	SSW	3	c-cum. / cum.	S
„ 8, ...	1	c-str. / cum.	...	0	...	...	2	c-cum. / cum.	SSW	6	c-cum. / cum.	SSE
„ 9, ...	1	cum.	...	8	cum.	E	5	cum.	ESE	8	cum.	SE
„ 10, ...	3	c-str. / cum.	SE	4	c-str. / cum.	SE	7	c-cum. / R-cum.	SSE	9	c-cum. / cum.	SSW
„ 11, ...	10	nim.	...	10	cum.	SW	9	sm-cum. / nim.	SSW	10	nim.	WSW
„ 12, ...	10	nim.	SW	10	nim.	SW	10	nim.	WSW	10	nim.	WSW
„ 13, ...	8	c-cum. / cum.	SSW	9	cum.	SSW	9	c-cum. / nim.	SSW	10	nim.	...
„ 14, ...	10	str.	SSW	10	R-cum.	SW	9	c-cum. / cum.	SW	9	c-str. / cum.	SW
„ 15, ...	4	c-str. / cum.	...	8	c-cum.	W	9	c-str. / cum.	SW	9	c-str. / cum.	WSW
„ 16, ...	4	cum.	...	4	cum.	WSW	7	cum.	WSW	2	cum.	SW
„ 17, ...	4	cum-nim.	...	3	cum.	...	8	c-cum. / cum.	SW	9	c-str. / cum.	WSW
„ 18, ...	7	cum.	...	10	cum-nim.	...	8	c-cum. / sm-cum.	...	8	c-cum. / cum.	N / ..
„ 19, ...	10	nim.	...	10	nim.	...	10	str-cum.	...	9	sm-cum. / cum.	N / ..
„ 20, ...	9	cum.	...	1	cum.	...	3	c-cum.	WNW	2	c-cum. / cum.	E
„ 21, ...	5	cum.	E	0	...	...	4	sm-cum. / cum.	E	2	c-cum. / cum.	N / ..
„ 22, ...	0	...	...	1	cum.	...	6	sm-cum. / cum.	N	8	cum.	N
„ 23, ...	1	cum.	...	0	...	...	1	cum.	...	7	c-str. / c-cum. / cum.	W
„ 24, ...	0	...	...	1	cum.	...	1	cum.	...	2	c-cum. / cum.	...
„ 25, ...	1	cum.	...	0	...	...	0	...	...	1	cum.	...
„ 26, ...	9	str-cum.	...	10	str.	...	9	sm-cum.	...	9	sm-cum.	W
„ 27, ...	3	cum.	...	4	c-cum. / cum.	...	9	c-cum. / cum.	ENE	10	nim.	...
„ 28, ...	9	str-cum.	...	2	cum.	...	8	sm-cum. / cum.	ENE	9	sm-cum. / cum.	ENE
„ 29, ...	10	cum.	...	10	cum.	...	9	c-cum. / cum	NE	9	c-cum.	NE
„ 30, ...	1	c-str. / cum.	...	1	cum.	...	2	sm-cum.	...	2	c-cum.	N
„ 31, ...	10	nim.	NE	8	cum-nim.	...	9	R-cum.	NE	9	cum. / cum.	E
Means,..	4.9	...	...	4.7	...	...	6.2	...	...	6.2	...	...

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	
1895.													
Aug. 1,...	7	cum.	ESE	3	c-cum. / cum.	ESE	1	c-cum.	...	0	...	...	3.6
„ 2,...	7	c-cum. / cum.	...	1	c-cum. / cum.	...	1	cum.	...	1	cum.	...	2.0
„ 3,...	1	cum.	...	2	c-cum. / cum.	...	1	cum.	...	1	cum.	SSW	2.6
„ 4,...	2	cum.	WSW	1	c-cum. / cum.	...	0	...	...	1	cum.	SW	1.7
„ 5,...	2	cum.	WSW	1	cum.	...	4	c-str. / cum.	...	2	c-str. / cum.	SSW	3.9
„ 6,...	2	cum.	...	1	cum.	...	2	c-str.	...	2	cum.	S	3.4
„ 7,...	5	sm-cum. / cum.	S	2	c. / cum.	...	1	cum.	...	0	...	...	2.6
„ 8,...	3	c-cum. / cum.	E / ..	2	c-cum. / cum.	...	2	c-cum.	...	1	cum.	...	2.1
„ 9,...	8	c-cum. / sm-cum. / cum.	SSE	6	c-cum. / cum.	SSE	1	c-cum. / cum.	...	2	cum.	...	4.9
„ 10,...	10	nim.	...	10	nim.	SSW	10	cum-nim.	SW	10	R-cum.	SW	7.9
„ 11,...	10	nim.	WSW	10	nim.	...	10	nim.	SW	10	nim.	...	9.9
„ 12,...	10	nim.	...	9	c-cum. / cum.	N / ..	8	sm-cum. / cum.	SW	10	cum-nim.	...	9.6
„ 13,...	9	sm-cum. / cum.	SW	10	nim.	W	10	str. / cum-nim.	...	10	cum.	...	9.4
„ 14,...	9	c-str. / cum.	SW	9	c-str. / cum.	SW	8	c-str. / cum.	SSW	8	cum.	...	9.0
„ 15,...	9	c-str. / cum.	SW	9	c-str. / cum.	SW	10	c-str. / cum.	...	8	c-str. / cum.	...	8.3
„ 16,...	4	cum.	SW	7	c-cum. / cum.	N / WSW	8	c-cum.	N	0	...	...	4.5
„ 17,...	10	str. / cum.	WSW	9	str. / cum.	...	9	str. / cum.	...	0	...	...	6.5
„ 18,...	8	c-cum. / cum-nim.	...	10	str. / cum.	...	10	sm-cum. / cum.	...	10	str-cum.	...	8.9
„ 19,...	10	c-str. / R-cum.	...	10	str-cum.	W	9	str-cum.	...	2	sm-cum.	...	8.7
„ 20,...	2	c-cum. / cum.	ENE / ..	1	c-cum. / cum.	...	7	c-cum. / cum.	...	4	c-cum. / cum.	...	3.6
„ 21,...	6	c-cum. / cum.	NNE	4	c-cum. / cum.	...	1	c-cum.	...	3	c-cum. / cum.	...	3.1
„ 22,...	3	cum.	...	3	c-cum. / cum.	...	2	c-cum.	...	0	...	...	2.9
„ 23,...	4	c-cum. / cum.	W	1	c-cum. / cum.	...	1	cum.	...	0	...	...	1.9
„ 24,...	4	c-cum. / cum.	WNW / ..	4	c-cum.	W	9	cum-nim.	NW	1	cum.	...	2.7
„ 25,...	1	c-cum. / cum.	...	2	c-str. / sm-cum.	W / ..	8	sm-cum. / cum.	...	7	str-cum.	...	2.5
„ 26,...	9	sm-cum.	W	9	c-cum. / cum-str.	...	10	nim.	...	10	cum.	...	9.4
„ 27,...	10	nim.	E	10	str.	...	10	str.	...	10	R-cum.	...	8.3
„ 28,...	9	sm-cum. / cum.	NE	9	sm-cum. / cum.	NE	9	c-cum. / cum.	NE	9	c-cum. / cum.	NE	8.0
„ 29,...	9	c-cum. / sm-cum.	N	9	c-str. / c-cum. / cum.	.. / N / NNE	7	c-str.	...	7	c-str.	...	8.7
„ 30,...	9	c-cum. / cum.	N	10	str-cum.	NNE	10	str-cum.	NE	10	c-str. / cum.	NE	5.6
„ 31,...	9	c-str. / R-cum.	E	8	c-cum. / cum.	ENE	9	str. / cum.	ENE	8	c-cum. / sm-cum.	...	8.7
Means,...	6.5	...	...	5.9	...	...	6.1	...	...	4.7	...	...	5.6

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF AUGUST, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	1.5	2.2	1.2	1.1	+ 0.3	+ 1.1	E 18° N
2 „	2.5	2.4	1.1	1.0	1.4	1.4	E 45° N
3 „	2.4	2.3	1.5	1.2	0.9	1.1	E 37° N
4 „	2.1	2.3	1.5	1.1	0.6	1.2	E 25° N
5 „	1.9	2.1	1.0	1.4	0.9	0.7	E 52° N
6 „	1.5	1.9	1.0	1.3	0.5	0.6	E 37° N
7 „	1.7	1.9	0.7	1.6	1.0	+ 0.3	N 14° E
8 „	2.1	2.0	1.1	2.2	1.0	− 0.2	N 13° W
9 „	2.3	2.3	1.7	3.1	0.6	0.8	W 37° N
10 „	2.1	2.6	2.0	3.8	+ 0.1	1.2	W 3° N
11 „	2.2	2.9	3.0	4.0	− 0.8	1.1	W 37° S
Noon.	2.1	3.0	2.4	4.4	0.3	1.4	W 11° S
1 p.	2.0	2.9	3.5	4.0	1.5	1.1	S 35° W
2 „	1.4	2.7	4.2	4.1	2.8	1.4	S 27° W
3 „	1.2	2.7	3.9	3.9	2.7	− 1.2	S 23° W
4 „	1.2	3.0	3.7	2.6	2.5	+ 0.4	S 8° E
5 „	1.7	2.5	3.6	1.8	1.9	0.7	S 20° E
6 „	1.0	2.8	3.1	1.4	2.1	1.4	S 33° E
7 „	0.8	2.8	2.7	0.7	1.9	2.1	E 41° S
8 „	0.8	2.2	2.3	0.6	1.5	1.6	E 43° S
9 „	1.5	2.0	1.6	0.5	− 0.1	+ 1.5	E 3° S
10 „	1.7	2.0	1.1	0.9	+ 0.6	1.1	E 28° N
11 „	1.6	2.0	1.4	0.7	0.2	1.3	E 12° N
Midt.	1.5	2.2	1.2	0.9	+ 0.3	+ 1.3	E 13° N
Means, ...	1.7	2.4	2.1	2.0	− 0.41	− 0.39	S 44° E

PHENOMENA :—

Solar halo :—on the 14th, 15th, 17th, 19th, 23rd, 28th, 29th and 31st.

Lunar halo :—on the 14th, 15th, 16th, 17th, 18th, 25th, 29th, 30th and 31st.

Lunar corona :—on the 1st, 2nd, 5th, 6th, 7th, 8th, 9th, 10th, 15th and 29th.

Fog :—on the 14th and 21st.

Slight fog :—on the 1st, 2nd, 8th, 13th, 19th, 20th, 23rd and 25th.

Haze :—on the 5th, 7th, 8th, 13th, 15th, 16th, 17th, 18th, 19th, 22nd, 26th and 28th.

Dew :—on the 1st, 2nd, 4th, 5th, 7th, 8th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 27th and 28th.

Rainbow :—on the 9th, 16th, 17th, 19th, 30th and 31st.

Lightning without thunder :—on the 12th, 13th, 14th, 17th, 19th, 20th, 21st, 25th, 26th and 31st.

Thunder without lightning :—on the 6th, 11th, 13th, 17th, 18th, 19th, 25th, 26th and 27th.

Thunder and lightning :—on the 12th, 17th, 18th, 22nd and 24th.

Earthquake shocks were felt at 5.45 p. on the 30th and several times during the night between the 30th and 31st.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF SEPTEMBER, 1895.

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,...	29.610	29.608	29.591	29.585	29.581	29.600	29.627	29.640	29.643	29.642	29.633	29.614	29.589	29.573	29.562	29.559	29.560	29.590	29.609	29.631	29.642	29.642	29.644	29.639	29.609
„ 2,...	.614	.602	.601	.607	.607	.620	.641	.648	.651	.650	.642	.622	.600	.575	.558	.548	.548	.561	.584	.600	.620	.636	.634	.625	.608
„ 3,...	.598	.584	.572	.573	.574	.587	.594	.601	.607	.596	.572	.552	.532	.520	.511	.490	.475	.481	.491	.511	.530	.536	.530	.532	.548
„ 4,...	.517	.510	.501	.500	.506	.516	.530	.536	.536	.532	.527	.498	.480	.463	.444	.438	.445	.452	.465	.476	.497	.513	.519	.512	.496
„ 5,...	.504	.492	.488	.490	.505	.514	.529	.537	.541	.544	.534	.509	.482	.471	.461	.461	.472	.487	.504	.530	.550	.557	.557	.549	.511
„ 6,...	.543	.538	.531	.542	.563	.576	.589	.610	.618	.614	.618	.607	.582	.571	.557	.563	.568	.581	.601	.625	.647	.652	.661	.656	.592
„ 7,...	.652	.646	.648	.655	.672	.688	.710	.731	.733	.730	.726	.709	.690	.674	.672	.663	.676	.692	.712	.738	.755	.757	.770	.774	.703
„ 8,...	.771	.754	.745	.749	.755	.764	.784	.800	.814	.819	.820	.812	.797	.789	.777	.781	.787	.801	.820	.838	.850	.857	.858	.852	.800
„ 9,...	.847	.828	.820	.818	.827	.829	.837	.851	.866	.867	.868	.852	.838	.814	.804	.797	.798	.813	.824	.836	.851	.846	.839	.838	.834
„ 10,...	.832	.815	.810	.822	.830	.844	.860	.868	.871	.857	.847	.826	.812	.792	.772	.769	.772	.792	.802	.822	.831	.830	.819	.803	.821
„ 11,...	.785	.758	.736	.719	.762	.781	.800	.802	.802	.792	.785	.775	.762	.750	.750	.748	.749	.772	.777	.787	.790	.768	.752	.754	.769
„ 12,...	.754	.752	.750	.757	.770	.778	.792	.805	.810	.809	.801	.785	.772	.768	.762	.748	.751	.760	.767	.795	.806	.812	.803	.801	.780
„ 13,...	.789	.773	.771	.772	.780	.792	.804	.820	.822	.825	.824	.804	.785	.775	.755	.743	.738	.750	.751	.776	.787	.793	.780	.773	.783
„ 14,...	.771	.755	.747	.738	.742	.749	.767	.780	.790	.790	.787	.767	.744	.720	.704	.686	.683	.703	.729	.748	.763	.761	.758	.750	.747
„ 15,...	.730	.716	.713	.707	.714	.725	.740	.743	.750	.752	.748	.730	.698	.678	.655	.648	.646	.654	.665	.685	.696	.714	.716	.712	.706
„ 16,...	.702	.695	.692	.691	.703	.714	.728	.744	.754	.762	.750	.737	.718	.702	.702	.689	.696	.696	.698	.720	.740	.755	.764	.770	.722
„ 17,...	.761	.753	.755	.754	.762	.772	.787	.795	.801	.801	.789	.773	.755	.728	.718	.722	.719	.721	.738	.758	.784	.796	.802	.797	.764
„ 18,...	.790	.777	.768	.772	.776	.792	.806	.814	.807	.802	.777	.758	.733	.700	.683	.673	.656	.650	.660	.673	.679	.663	.652	.643	.729
„ 19,...	.634	.620	.618	.620	.616	.637	.647	.654	.653	.639	.636	.607	.596	.580	.573	.584	.573	.584	.612	.641	.666	.683	.692	.693	.627
„ 20,...	.683	.678	.668	.681	.684	.705	.733	.748	.760	.774	.772	.748	.736	.732	.726	.738	.739	.741	.752	.768	.781	.782	.776	.762	.736
„ 21,...	.752	.743	.730	.730	.732	.746	.774	.788	.794	.792	.786	.774	.755	.730	.714	.710	.709	.726	.748	.763	.781	.784	.776	.765	.754
„ 22,...	.746	.735	.718	.716	.721	.730	.743	.769	.775	.776	.774	.756	.734	.708	.692	.692	.689	.700	.717	.717	.731	.734	.719	.718	.730
„ 23,...	.702	.682	.676	.676	.683	.701	.734	.739	.747	.738	.725	.702	.682	.659	.645	.644	.650	.652	.662	.678	.690	.690	.687	.673	.688
„ 24,...	.662	.656	.647	.645	.650	.677	.686	.702	.707	.712	.695	.672	.649	.632	.620	.618	.620	.631	.652	.679	.698	.700	.688	.684	.666
„ 25,..	.672	.656	.653	.651	.656	.671	.695	.702	.700	.700	.686	.664	.643	.617	.606	.597	.606	.618	.622	.642	.660	.664	.654	.652	.654
„ 26,...	.645	.648	.638	.639	.646	.658	.683	.694	.717	.725	.723	.698	.680	.668	.651	.646	.649	.664	.683	.699	.720	.730	.725	.727	.681
„ 27,...	.713	.713	.702	.707	.712	.726	.742	.756	.767	.780	.776	.758	.738	.717	.705	.710	.717	.734	.755	.775	.787	.794	.793	.790	.744
„ 28,...	.767	.757	.743	.744	.752	.761	.773	.791	.792	.796	.802	.778	.761	.731	.726	.729	.738	.753	.763	.781	.797	.801	.798	.792	.768
„ 29,..	.758	.750	.738	.736	.740	.742	.757	.778	.778	.781	.772	.756	.726	.710	.722	.752	.770	.771	.778	.797	.812	.821	.821	.821	.766
„ 30,...	.814	.811	.795	.787	.791	.816	.841	.860	.851	.844	.840	.816	.789	.761	.752	.757	.757	.772	.793	.826	.852	.859	.856	.852	.812
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,.....	29.704	29.693	29.686	29.686	29.694	29.707	29.724	29.737	29.742	29.741	29.734	29.715	29.695	29.677	29.666	29.663	29.665	29.677	29.691	29.710	29.726	29.731	29.728	29.724	29.705

TABLE II.

TEMPERATURE FOR THE MONTH OF SEPTEMBER, 1895.

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,	78.4	78.3	78.6	77.6	77.8	77.6	79.2	82.0	83.8	87.5	88.5	90.0	87.5	88.2	86.0	84.5	83.9	82.0	81.7	81.5	81.6	80.9	80.5	80.2	82.4	91.7	77.2
„ 2,	79.8	79.9	79.8	79.6	78.6	79.1	81.2	83.0	84.6	87.2	85.6	85.8	87.5	86.7	85.0	85.0	84.9	83.6	82.0	81.6	81.3	80.7	80.5	79.4	82.6	89.7	78.5
„ 3,	79.8	79.6	79.1	78.4	78.5	79.1	80.1	81.6	83.2	85.1	85.8	88.5	88.6	88.8	88.2	87.7	86.9	84.5	84.3	85.1	85.6	82.0	81.1	80.9	83.4	92.5	78.4
„ 4,	83.0	81.1	81.8	82.6	82.6	82.6	83.5	85.7	87.7	88.7	88.9	90.7	91.6	92.2	90.1	89.7	88.1	86.0	85.2	86.3	85.0	85.5	85.2	83.2	86.1	93.5	80.9
„ 5,	82.7	82.4	81.6	82.5	82.3	82.4	84.2	85.6	86.7	87.1	89.5	89.6	89.0	89.7	90.4	89.0	88.1	85.6	84.9	84.3	84.4	83.3	82.7	81.5	85.4	90.9	81.3
„ 6,	81.7	81.1	80.8	81.9	81.6	82.0	83.0	84.9	87.6	89.0	88.8	90.4	92.5	92.9	90.9	91.3	90.2	88.6	86.4	85.3	85.4	86.5	86.0	84.4	86.4	94.0	80.1
„ 7,	84.0	83.5	83.2	82.9	82.3	81.4	81.4	82.2	83.7	84.7	86.5	86.2	85.8	86.5	87.2	87.3	85.6	83.7	83.4	81.9	81.1	81.7	80.9	80.0	83.6	88.1	79.7
„ 8,	79.5	79.4	79.3	78.6	78.3	77.5	78.0	80.7	81.4	83.1	82.8	84.5	82.7	82.4	82.3	80.6	80.9	80.5	79.5	79.4	78.8	79.0	79.2	79.1	80.3	85.0	76.2
„ 9,	79.3	78.8	78.7	78.5	77.3	77.0	77.6	77.1	78.5	79.8	80.3	80.7	81.2	82.8	82.0	82.2	80.2	79.3	79.0	79.4	79.3	79.4	79.0	78.9	79.4	82.9	76.4
„ 10,	78.2	77.6	77.1	77.4	77.3	77.0	76.7	77.6	78.9	80.8	82.4	82.5	82.4	82.0	81.5	80.8	79.7	79.0	79.5	79.0	79.2	79.6	79.7	79.6	79.4	83.6	76.4
„ 11,	79.7	78.6	78.5	77.1	77.5	77.4	78.5	79.9	81.1	83.3	84.1	86.0	84.0	83.4	84.6	83.8	83.0	80.6	80.3	80.3	80.7	80.2	80.3	80.0	81.0	86.8	76.3
„ 12,	80.3	79.9	80.1	80.2	80.1	79.9	82.0	82.9	84.2	85.2	84.4	87.2	87.0	85.5	85.0	83.7	81.6	80.9	80.8	80.7	80.9	81.0	80.6	80.4	82.3	88.6	79.9
„ 13,	79.6	79.6	79.4	79.3	79.3	79.5	81.1	82.0	82.6	84.1	85.6	85.5	85.6	82.9	83.7	82.9	81.1	80.1	80.1	79.9	80.2	79.7	79.6	79.6	81.4	86.0	79.3
„ 14,	78.5	78.7	78.7	78.9	78.8	78.2	79.6	80.7	82.5	83.5	85.2	84.5	84.0	83.3	82.1	81.7	80.8	79.6	79.3	79.0	78.8	79.1	79.2	78.8	80.6	85.9	78.2
„ 15,	78.7	78.1	77.5	77.8	77.8	78.2	79.7	80.2	82.5	84.7	86.0	85.1	85.2	85.0	84.6	83.8	82.0	80.3	80.0	79.4	79.1	79.0	78.6	78.4	80.9	86.2	77.5
„ 16,	77.6	77.5	78.1	78.0	77.9	78.3	79.6	81.9	84.0	85.1	85.7	87.7	86.5	85.0	83.0	82.0	81.8	80.9	80.0	79.6	80.0	80.3	79.9	79.7	81.3	88.5	77.4
„ 17,	79.7	79.5	79.4	79.6	79.5	80.0	80.8	81.2	83.6	83.6	84.6	84.7	85.2	84.6	84.1	83.2	82.0	81.8	80.9	80.2	80.4	80.1	80.3	80.6	81.6	86.0	79.2
„ 18,	79.8	80.2	80.6	80.6	77.8	77.6	78.6	81.9	82.7	85.0	87.7	86.6	87.3	87.0	86.3	87.1	85.6	84.6	83.6	82.9	82.1	81.9	81.3	80.0	82.9	87.7	76.4
„ 19,	82.0	83.5	83.1	80.4	80.2	79.5	79.7	81.4	80.7	82.3	82.9	84.5	84.3	80.0	77.9	75.7	72.5	72.2	71.6	72.3	72.9	73.4	74.0	73.4	78.4	85.3	71.6
„ 20,	72.3	70.9	71.4	72.8	73.2	73.9	75.6	76.8	78.5	79.4	78.4	80.2	82.3	82.3	79.8	77.8	78.9	80.1	80.5	80.7	80.6	80.4	80.7	80.6	77.8	82.7	70.9
„ 21,	80.5	80.0	79.8	79.8	80.0	80.0	78.1	80.1	82.5	82.5	83.4	82.9	82.6	81.6	81.4	81.8	81.0	80.2	79.2	79.6	79.7	79.6	79.5	79.4	80.6	84.1	77.9
„ 22,	78.9	78.8	78.7	78.3	78.2	78.3	78.6	79.6	80.8	81.0	81.5	82.1	82.1	82.2	81.6	81.3	80.0	78.5	79.3	78.5	78.7	78.7	78.6	78.5	79.7	83.2	77.9
„ 23,	78.2	77.9	77.4	77.2	76.8	76.2	78.9	79.9	82.9	85.0	84.9	85.4	85.0	83.9	84.6	84.1	83.1	80.7	80.3	80.0	79.2	78.1	78.9	80.5	80.8	87.0	75.8
„ 24,	79.3	79.2	78.6	77.9	77.6	78.0	79.2	81.0	82.2	83.2	85.7	88.0	88.9	85.6	86.1	86.7	84.7	83.8	83.3	84.0	82.7	81.5	80.6	78.6	82.3	90.4	77.0
„ 25,	78.3	78.0	77.6	77.2	76.9	76.2	76.8	78.5	82.0	82.6	84.2	84.7	87.4	88.0	86.1	86.3	85.9	84.0	83.8	83.7	83.7	82.6	81.8	81.8	82.0	89.9	75.6
„ 26,	81.2	80.1	78.4	78.5	78.3	77.0	74.5	75.9	73.5	69.0	68.5	69.0	69.1	70.1	68.0	68.0	68.5	68.2	67.6	67.6	67.6	67.6	67.8	68.1	71.8	82.1	66.9
„ 27,	68.4	68.0	68.2	67.5	68.1	68.6	69.5	69.6	71.0	71.0	72.3	73.5	73.6	73.3	74.4	74.6	75.4	76.0	75.2	75.1	75.8	74.8	73.7	74.6	72.2	76.4	67.5
„ 28,	73.2	72.4	72.1	72.1	73.4	73.5	73.6	74.2	75.5	75.6	75.2	75.1	75.5	74.8	74.9	73.1	73.2	73.0	72.7	73.2	73.1	73.2	73.4	73.3	73.7	75.8	72.1
„ 29,	73.6	73.3	73.4	71.6	71.5	72.6	72.8	72.9	73.3	72.9	73.6	73.6	72.8	71.4	68.9	69.4	67.1	67.4	68.5	68.7	68.0	67.4	67.3	67.4	70.8	74.1	66.8
„ 30,	66.7	67.2	66.7	66.2	66.5	66.6	69.3	69.5	71.9	73.7	76.2	76.4	79.6	79.5	79.6	80.3	77.9	75.7	75.0	74.2	73.9	72.9	73.7	71.5	72.9	81.0	65.6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,	78.4	78.1	77.9	77.7	77.5	77.5	78.4	79.7	81.1	82.2	83.0	83.7	83.9	83.4	82.7	82.2	81.2	80.0	79.6	79.4	79.3	79.0	78.8	78.4	80.1	86.0	75.8

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF SEPTEMBER, 1895.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Sept. 1, ...	76.1	75.6	75.5	75.0	75.1	75.3	76.6	76.9	77.0	78.8	78.9	78.9	78.3	79.0	78.6	78.0	78.1	78.2	78.6	78.9	77.5	78.0	77.2	76.8	77.4	150.7
„ 2, ...	76.1	76.5	75.8	75.9	76.3	76.3	77.9	78.9	78.0	79.1	78.7	78.9	80.0	80.1	80.0	80.0	79.9	78.9	79.8	79.0	79.7	78.8	78.4	78.5	78.4	152.4
„ 3, ...	78.6	78.0	77.9	77.8	77.9	78.0	78.3	79.1	80.1	80.1	80.2	80.8	81.0	81.7	81.0	79.8	79.4	78.5	78.0	77.9	77.4	78.0	77.6	77.8	79.0	146.1
„ 4, ...	77.1	77.4	76.0	75.7	74.7	74.7	75.8	75.6	76.0	76.3	77.6	78.1	78.2	78.8	78.8	78.1	78.0	78.0	77.5	77.0	76.3	76.5	75.3	76.7	76.8	147.1
„ 5, ...	75.6	73.6	70.7	71.3	70.7	71.6	71.7	71.9	73.1	74.3	75.2	75.0	76.6	77.6	77.0	78.0	77.9	77.0	77.1	77.6	77.0	77.1	77.3	77.1	75.1	145.0
„ 6, ...	76.9	76.9	76.8	76.4	76.1	74.7	73.8	73.8	73.9	73.4	74.7	75.1	74.7	75.0	74.1	74.4	74.1	74.0	74.3	75.4	73.4	68.5	67.4	67.2	74.0	152.2
„ 7, ...	66.5	66.3	65.9	66.0	65.0	65.1	65.4	64.8	65.5	65.9	66.0	66.5	65.2	65.9	67.1	66.0	64.6	65.0	64.2	63.2	61.9	64.2	60.5	61.0	64.9	144.3
„ 8, ...	60.8	60.3	60.2	60.0	60.1	59.5	60.0	60.9	61.2	63.3	63.4	65.1	67.5	69.0	70.6	68.0	69.1	69.3	69.2	68.7	69.4	70.0	70.1	70.0	65.2	138.1
„ 9, ...	70.4	70.5	70.6	71.2	71.2	71.5	70.5	70.9	71.3	71.1	71.1	71.0	69.0	69.7	67.5	69.7	68.9	68.0	68.4	68.0	68.7	67.2	68.4	69.1	69.7	138.1
„ 10, ...	70.7	70.0	69.9	68.5	67.6	66.7	65.8	66.7	66.9	69.0	70.1	70.3	70.5	72.4	70.0	70.6	69.5	70.2	71.8	72.2	73.4	73.7	73.9	73.3	70.2	148.2
„ 11, ...	73.4	72.3	71.3	71.0	70.2	69.6	70.7	70.8	71.8	73.1	73.9	72.3	73.1	72.1	73.4	74.2	74.2	76.1	76.2	76.1	75.6	75.8	76.0	76.3	73.3	146.8
„ 12, ...	76.2	75.9	75.5	75.3	75.4	75.3	75.3	75.0	75.0	74.8	75.0	75.8	76.5	76.7	77.6	77.1	76.7	76.7	76.2	75.2	75.6	75.4	75.4	75.2	75.8	147.7
„ 13, ...	75.2	75.1	74.8	74.6	74.7	74.6	74.9	74.2	75.5	75.2	77.0	76.0	75.8	74.3	74.6	75.1	75.7	75.7	75.2	75.3	76.4	75.9	75.8	76.1	75.3	146.3
„ 14, ...	76.2	75.8	75.9	74.5	74.8	75.3	75.7	75.8	72.6	76.8	76.5	76.8	76.5	76.2	76.1	76.1	76.0	75.0	75.5	75.7	75.7	76.2	75.2	75.6	75.7	149.9
„ 15, ...	75.5	74.6	74.6	74.4	74.5	74.0	74.8	74.6	74.4	75.5	76.0	75.2	74.0	75.0	75.3	76.0	76.1	75.0	75.6	76.0	75.8	75.3	75.4	75.6	75.1	143.0
„ 16, ...	75.6	75.7	75.5	74.7	74.7	74.9	75.2	76.6	77.0	77.2	76.8	77.6	76.1	75.8	76.0	76.0	75.4	75.0	75.3	76.1	76.0	76.2	76.4	75.7	75.9	150.7
„ 17, ...	75.7	75.6	75.5	75.6	75.6	75.1	75.3	75.6	76.6	76.3	77.3	77.4	77.1	78.0	77.0	77.0	75.1	75.0	76.0	75.2	75.2	75.0	75.0	75.7	76.0	146.2
„ 18, ...	75.5	75.7	76.0	76.0	75.7	75.7	76.8	77.8	78.0	77.8	80.0	78.5	79.7	80.0	78.7	79.1	79.3	77.9	78.2	78.7	79.2	78.8	78.2	78.3	77.9	145.5
„ 19, ...	73.4	70.8	70.0	72.1	71.3	69.0	68.0	68.9	69.0	69.1	69.2	70.7	71.1	70.5	69.8	70.2	69.3	69.8	70.0	70.4	69.4	69.7	70.0	70.5	70.1	124.3
„ 20, ...	70.1	70.0	69.8	71.0	72.1	72.5	74.0	74.1	75.1	75.4	76.0	77.3	78.0	76.5	75.7	75.4	76.9	76.8	76.9	77.0	76.9	77.0	76.0	76.5	74.9	142.8
„ 21, ...	75.9	75.6	75.3	74.8	74.8	75.0	74.7	74.9	77.7	75.9	76.7	76.9	76.2	75.7	75.2	76.0	75.8	75.3	75.3	75.0	75.0	75.1	75.0	75.1	75.5	142.7
„ 22, ...	75.0	74.8	74.5	74.4	74.7	74.6	74.8	75.1	75.8	75.6	76.5	76.3	76.4	75.8	75.6	75.3	74.9	74.6	74.4	74.5	74.6	74.6	75.0	74.6	75.1	142.3
„ 23, ...	74.6	74.5	74.6	74.2	73.6	72.4	73.0	73.0	73.1	74.2	75.1	76.3	76.4	74.9	76.1	76.2	75.1	75.5	75.3	75.2	74.9	74.4	74.9	75.2	74.7	146.5
„ 24, ...	70.0	68.5	69.0	69.5	68.4	69.2	69.8	69.9	70.2	70.2	70.2	72.2	74.5	74.8	73.2	73.8	72.7	73.0	73.0	69.6	67.7	66.7	65.8	65.2	70.3	145.3
„ 25, ...	65.1	64.1	64.0	63.5	63.0	62.8	65.0	65.3	68.9	67.8	68.5	68.0	68.9	70.3	68.9	68.4	69.0	69.0	68.0	67.9	67.9	66.3	65.2	64.6	66.7	139.4
„ 26, ...	64.0	63.9	64.0	64.1	64.5	64.7	65.5	66.2	65.0	65.9	65.4	65.7	65.8	66.3	65.0	66.5	66.5	65.7	64.9	64.7	64.7	65.5	65.6	65.6	65.2	89.4
„ 27, ...	65.5	63.1	66.2	65.5	67.0	67.0	67.9	68.1	68.2	69.9	69.7	70.3	70.8	71.0	71.2	71.4	72.0	72.1	72.0	71.8	71.9	71.7	71.6	71.5	69.6	99.3
„ 28, ...	71.2	70.7	70.6	70.7	70.2	69.7	70.0	69.9	70.4	70.0	70.3	70.3	70.7	70.2	71.0	70.9	70.4	71.2	71.5	71.4	72.0	71.9	72.0	72.1	70.8	96.9
„ 29, ...	71.7	71.7	71.8	70.7	70.5	71.1	71.0	70.9	72.3	71.5	71.7	71.3	69.9	68.3	67.2	66.5	66.1	65.5	65.7	65.8	65.0	64.9	64.7	63.3	68.7	93.0
„ 30, ...	62.6	62.6	62.5	61.7	61.7	60.9	62.7	60.8	63.8	63.2	64.0	64.2	64.9	62.7	65.0	65.3	63.8	63.1	63.0	63.7	63.2	61.9	60.8	60.7	62.9	134.7
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	72.4	72.0	71.7	71.5	71.4	71.2	71.7	71.9	72.4	72.9	73.4	73.6	73.8	73.8	73.6	73.6	73.3	73.2	73.2	73.1	72.9	72.7	72.3	72.4	72.7	137.8

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF SEPTEMBER, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	74	0.724	Sept. 1,.....	79	0.874
2 „	74	.713	„ 2,.....	82	.916
3 „	73	.703	„ 3,.....	81	.933
4 „	73	.698	„ 4,.....	64	.797
5 „	73	.698	„ 5,.....	60	.734
6 „	72	.689	„ 6,.....	53	.673
7 „	71	.696	„ 7,.....	32	.367
8 „	67	.686	„ 8,.....	41	.422
9 „	63	.688	„ 9,.....	59	.598
10 „	62	.693	„ 10,.....	61	.616
11 „	61	.703	„ 11,.....	68	.718
Noon.	60	.702	„ 12,.....	73	.805
1 p.	60	.706	„ 13,.....	74	.796
2 „	62	.714	„ 14,.....	78	.824
3 „	63	.715	„ 15,.....	75	.794
4 „	65	.722	„ 16,.....	77	.822
5 „	67	.723	„ 17,.....	77	.824
6 „	71	.735	„ 18,.....	79	.890
7 „	72	.741	„ 19,.....	65	.626
8 „	73	.739	„ 20,.....	86	.828
9 „	72	.732	„ 21,.....	78	.815
10 „	73	.728	„ 22,.....	80	.810
11 „	72	.715	„ 23,.....	74	.779
Midt.	74	.724	„ 24,.....	52	.581
			„ 25,.....	41	.451
			„ 26,.....	69	.535
			„ 27,.....	88	.690
			„ 28,.....	86	.717
			„ 29,.....	90	.675
			„ 30,.....	55	.442
			.....	...	...
Means,.....	69	0.712	Means.	69	0.712

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.
1895.														
Sept. 1,.....	0.1	0.3	0.1	1.0	1.0	1.0	1.0	1 0	1.0	1.0	1.0	0.9	...	9.4
„ 2,.....	...	0.4	0.4	0.5	0.9	0.9	0.8	0.9	1.0	1.0	0.7	0.8	...	8.3
„ 3,.....	...	0.3	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	10.3
„ 4,.....	...	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
„ 5,.....	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	11.4
„ 6,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.2
„ 7,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	0.9	0.6	0.7	1.0	1.0	0.1	10.0
„ 8,.....	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	0.8	...	10.2
„ 9,.....	...	...	...	...	...	...	0.2	0.3	1.0	0.8	0.8	...	...	3.1
„ 10,.....	...	...	...	0.2	0.1	0.2	0.6	0.7	1.0	1.0	0.8	...	...	4.6
„ 11,.....	...	0.1	0.3	0.3	0.3	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	7.6
„ 12,.....	...	0.9	1.0	0.7	0.8	...	0.5	1.0	1.0	1.0	1.0	0.4	...	8.3
„ 13,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	0.1	1.0	0.9	0.4	...	8.8
„ 14,.....	...	0.1	0.2	0.7	1.0	1.0	0.6	0.9	1.0	1.0	1.0	0.9	...	8.4
„ 15,.....	...	0.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	...	9.8
„ 16,.....	...	0.8	0.8	1.0	0.5	0.8	1.0	0.8	0.4	...	0.4	0.2	...	6.7
„ 17,.....	...	0.5	0.5	0.6	0.4	1.0	1.0	1.0	1.0	0.9	0.2	0.3	...	7.4
„ 18,.....	...	0.3	0.9	1.0	0.9	1.0	1.0	1.0	1.0	0.9	1.0	0.8	...	9.8
„ 19,.....	...	...	0.5	0.1	...	...	...	...	...	...	...	...	...	0.6
„ 20,.....	...	...	0.4	0.5	0.6	0.2	0.2	0.8	0.7	0.3	...	...	...	3.7
„ 21.....	...	...	0.2	0.5	0.6	1.0	1.0	1.0	0.5	0.8	0.6	0.8	...	7.0
„ 22,.....	...	0.4	0.2	0.3	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	8.1
„ 23,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	0.9	0.7	...	10.4
„ 24,.....	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	...	9.6
„ 25,.....	...	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.3	...	9.9
„ 26,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,.....	...	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	11.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	0.5	12.8	17.0	19.4	19.9	21.1	21.9	23.3	22.3	22.3	20.1	15.3	0.9	216.8

TABLE VI.

RAINFALL FOR THE MONTH OF SEPTEMBER, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.090	...	0.060	...	...	...	0.150	1
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	0.010	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	1
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	0.020	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	...	0.050	0.250	0.515	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.815	2
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.030	...	0.015	0.010	0.005	...	0.010	0.010	0.080	3
„ 20,	0.020	0.120	...	0.015	...	...	...	...	...	0.020	0.250	0.075	0.005	0.005	0.005	0.025	0.030	0.015	...	...	...	...	...	...	0.585	6
„ 21,	...	...	...	...	...	...	0.045	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	1
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	0.005	0.240	0.080	0.030	0.035	0.035	0.075	0.035	0.040	0.030	0.005	0.005	0.005	0.005	...	...	0.625	10
„ 27,	...	0.020	0.005	0.035	0.005	0.045	0.040	0.080	0.010	0.005	0.015	0.010	0.015	...	...	...	0.005	...	...	0.005	...	0.020	0.010	...	0.325	9
„ 28,	0.035	0.030	0.030	0.010	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	0.015	0.120	0.050	0.055	0.100	0.465	9
„ 29,	0.040	0.030	0.045	0.030	0.060	0.030	0.035	0.030	0.010	0.005	...	0.030	0.020	0.030	0.150	0.130	0.055	0.070	0.010	...	0.015	0.010	...	...	0.835	18
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.115	0.200	0.090	0.140	0.315	0.595	0.125	0.110	0.025	0.270	0.345	0.145	0.075	0.070	0.230	0.190	0.160	0.125	0.130	0.035	0.205	0.085	0.075	0.110	3.965	60

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF SEPTEMBER, 1895.

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.	9	6	8	3	...	1	..	0	...	0	..	0	...	0	2	6	32	7	9	4	11	5	8	12	9	12	9	15	9	17	8	21	9	18	9	15	9	7	9	8	7	7	7	3	...	1	4	2	170	7.1	8
" 2.	...	0	...	0	...	0	6	3	7	5	8	2	8	4	8	7	8	6	10	7	9	11	10	13	10	7	9	6	9	8	10	7	4	4	14	6	...	1	7	2	6	2	9	2	...	0	21	4	107	4.5	9
" 3.	21	2	21	3	...	1	...	1	...	1	...	1	21	3	21	6	23	7	27	11	24	7	29	9	24	13	23	11	22	8	22	12	23	11	23	8	23	5	23	4	23	2	25	3	25	2	25	5	136	5.7	24
" 4.	23	3	25	3	27	3	32	3	26	4	27	3	27	5	30	7	32	9	29	6	28	11	28	16	27	15	31	11	23	16	23	16	23	13	23	12	23	10	22	9	22	6	22	4	22	3	18	2	190	7.9	26
" 5.	9	3	26	7	30	9	28	8	26	8	26	10	28	11	28	12	28	16	28	18	27	16	27	19	25	22	24	14	26	14	24	12	23	11	23	10	22	10	22	4	22	4	23	5	15	3	15	2	248	10.3	26
" 6.	...	1	20	2	20	3	20	7	20	9	20	6	26	5	31	7	32	8	2	9	27	11	29	12	30	21	30	16	31	16	30	10	32	12	30	8	26	3	...	0	29	3	32	10	1	10	1	7	196	8.2	30
" 7.	1	8	2	6	3	7	3	8	32	7	3	6	7	9	31	11	2	7	2	10	1	12	31	16	2	17	1	15	1	13	1	14	1	11	3	9	32	5	2	8	1	16	1	19	1	14	1	12	260	10.8	1
" 8.	4	11	3	9	3	13	2	10	1	14	1	19	1	13	3	10	3	12	5	13	7	15	7	14	9	20	10	20	10	19	10	18	8	16	8	13	6	8	7	9	6	8	6	8	8	13	7	11	316	13.2	6
" 9.	7	12	6	9	7	11	4	17	5	17	5	16	5	19	7	20	5	20	6	19	6	20	7	20	8	21	8	18	8	17	9	18	8	16	8	20	8	19	8	19	7	25	7	25	7	28	7	25	451	18.8	7
" 10.	6	22	5	20	5	19	5	22	5	23	5	23	6	24	4	22	6	20	7	22	6	21	7	22	8	22	10	20	10	21	10	21	7	15	7	13	8	11	8	16	7	19	7	20	7	27	7	24	489	20.4	7
" 11.	4	22	5	19	5	14	32	15	3	11	5	11	3	8	5	8	6	11	8	14	4	14	8	15	10	25	9	24	8	24	7	16	8	18	9	19	8	19	5	19	5	20	5	21	4	21	7	20	408	17.0	6
" 12.	7	24	7	24	7	31	7	33	7	27	7	23	5	21	7	19	8	23	7	23	7	26	7	20	10	23	10	1	8	22	8	20	9	22	7	20	7	19	7	20	7	20	8	21	7	23	8	20	542	22.6	7
" 13.	7	23	7	22	7	25	7	23	7	19	7	22	7	23	7	28	7	24	7	26	7	20	7	21	10	22	10	16	9	17	9	21	8	24	9	15	8	16	8	16	8	16	8	15	9	18	8	14	486	20.2	8
" 14.	7	13	8	11	7	13	7	14	7	13	6	13	4	14	6	13	7	16	8	18	7	19	10	22	9	23	10	21	10	21	10	18	9	18	9	14	10	12	10	10	9	9	9	12	10	11	11	10	358	14.9	8
" 15.	8	11	7	10	6	9	6	11	6	9	5	9	5	9	4	11	7	14	8	15	9	14	9	18	8	19	9	19	9	18	9	18	9	17	10	12	10	8	9	8	11	7	10	6	10	5	10	5	282	11.8	8
" 16.	10	7	8	3	8	3	11	5	...	0	...	1	...	0	9	3	11	5	10	6	8	7	10	9	9	12	8	18	8	15	8	15	10	12	10	11	9	11	9	11	10	10	10	12	7	9	7	12	197	8.2	9
" 17.	7	9	7	5	6	6	7	13	7	12	6	12	7	16	7	15	7	14	9	11	10	16	9	19	10	17	10	18	8	17	9	15	10	15	10	13	9	12	10	11	8	14	7	13	7	11	7	12	316	13.2	8
" 18.	7	11	7	12	7	13	7	13	8	7	6	6	9	2	9	2	9	3	11	4	23	8	23	10	22	8	22	8	23	8	21	8	22	9	21	7	22	4	...	1	24	5	24	3	20	2	...	1	155	6.5	17
" 19.	30	8	32	5	29	9	29	10	27	10	26	5	27	11	24	10	24	11	31	17	30	13	31	16	1	7	32	13	28	12	30	10	27	11	24	8	30	5	29	3	29	2	...	1	32	7	1	6	210	8.7	29
" 20.	1	3	...	0	1	2	26	3	28	5	29	4	29	5	27	5	23	3	23	7	10	8	7	18	8	26	9	23	6	27	7	27	7	22	7	26	7	30	7	32	7	29	7	33	7	38	7	40	416	17.3	7
" 21.	7	44	7	42	7	38	6	38	7	40	7	35	6	32	5	26	5	24	6	23	8	28	9	27	8	24	7	19	7	21	7	19	7	21	8	19	8	27	8	26	8	30	8	26	8	23	7	21	673	28.0	7
" 22.	7	22	7	21	7	18	7	17	7	14	7	12	6	10	6	8	8	18	10	20	9	21	10	22	9	20	9	18	10	16	10	16	9	14	10	12	11	10	9	11	8	10	10	9	9	7	7	6	352	14.7	8
" 23.	7	5	6	3	6	2	...	0	1	7	1	9	1	5	1	6	6	5	11	7	11	12	8	12	9	12	9	7	25	6	21	4	21	4	16	3	16	3	16	3	25	4	27	6	31	5	32	10	140	5.8	5
" 24.	32	11	32	17	1	17	32	17	32	16	1	11	3	14	1	20	1	25	1	16	2	13	31	9	25	10	21	10	22	5	28	15	29	11	29	7	31	6	2	17	32	24	32	22	32	22	32	14	349	14.5	32
" 25.	31	17	32	20	32	20	32	19	32	22	32	12	2	5	1	14	32	17	32	17	30	13	32	18	32	12	28	9	30	17	30	15	31	13	30	8	30	10	31	13	2	10	31	9	3	9	30	13	332	13.8	32
" 26.	32	15	31	14	31	15	30	12	30	11	29	8	32	10	1	6	31	15	22	6	23	9	27	11	28	12	29	15	28	13	26	13	28	15	30	16	30	13	30	11	29	10	27	8	1	14	1	18	290	12.1	30
" 27.	1	18	1	7	32	5	32	6	1	4	...	1	25	4	32	6	1	4	25	5	31	9	6	13	7	16	5	17	5	19	5	18	4	20	5	23	4	23	3	22	4	25	3	21	3	20	3	21	327	13.6	3
" 28.	4	23	4	16	5	19	4	22	5	23	5	21	5	23	5	21	5	21	5	22	4	17	4	21	4	17	4	16	4	14	6	13	7	9	7	13	6	17	5	15	6	12	6	15	6	21	7	26	437	18.2	5
" 29.	6	26	4	21	5	16	4	17	5	17	6	20	5	17	4	17	5	20	4	15	4	20	5	12	2	10	32	15	31	9	30	7	26	5	30	7	16	8	31	7	3	4	30	5	32	6	31	7	308	12.8	3
" 30.	29	4	1	4	31	8	31	5	8	5	32	5	32	7	30	7	31	10	31	12	31	9	32	10	31	12	31	14	29	9	31	7	32	6	31	5	32	5	32	6	32	5	1	8	32	9	1	7	179	7.5	32
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums.	...	384	...	338	...	350	...	372	...	360	...	326	...	329	...	353	...	395	...	403	...	425	...	476	...	497	...	464	...	459	...	444	...	413	...	372	...	337	...	341	...	358	...	365	...	382	...	377	9320	388.3	...
Means.	...	12.8	...	11.3	...	11.7	...	12.4	...	12.0	...	10.9	...	11.0	...	11.8	...	13.2	...	13.4	...	14.2	...	15.9	...	16.6	...	15.5	...	15.3	...	14.8	...	13.8	...	12.4	...	11.2	...	11.4	...	11.9	...	12.2	...	12.7	...	12.6	310.7	12.9	...

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
1895.												
Sept. 1, ...	1	sm-cum.	...	2	cum.	...	9	cum.	NE	4	c-cum. / cum.	ENE
„ 2, ...	6	c-str.	...	6	c-str.	...	7	sm-cum.	E	8	c-cum. / cum.	NE
„ 3, ...	9	c-str. / cum.	NE	8	c-str. / cum.	NE	4	c-str. / sm-cum.	...	8	c-str. / cum.	NE
„ 4, ...	0	...	...	0	...	...	3	c-str.	...	4	c-cum.	...
„ 5, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 6, ...	0	...	...	1	c-cum.	...	1	c-str.	...	1	c-str. / cum.	N
„ 7, ...	2	c-cum.	...	5	c-cum.	...	8	c-str.	...	5	c-cum.	...
„ 8, ...	5	c-cum.	W	5	c-cum.	...	5	c-str. / c-cum.	W	1	c-cum.	...
„ 9, ...	10	sm-cum. / cum.	...	10	R-cum.	E	10	sm-cum. / cum.	E	10	sm-cum. / cum.	W / ENE
„ 10, ...	6	sm-cum. / cum.	W / E	4	c-cum.	WSW	9	sm-cum.	W	9	sm-cum.	W
„ 11, ...	3	cum.	ENE	2	c-cum.	...	7	sm-cum.	...	9	sm-cum.	...
„ 12, ...	7	cum.	E	4	cum.	E	3	c-cum. / cum.	ENE	2	c-cum.	E
„ 13, ...	2	cum.	E	4	cum.	E	5	c-cum. / cum.	E	2	cum.	E
„ 14, ...	4	nim.	E	3	cum.	E	5	c-cum. / cum.	E	2	cum.	E
„ 15, ...	0	...	...	1	cum.	...	3	cum.	E	2	cum.	E
„ 16, ...	1	cum.	...	1	cum.	...	1	cum.	...	9	c-cum. / cum.	E
„ 17, ...	1	cum.	...	4	cum.	ENE	3	cum.	ENE	8	c-cum. / cum.	NNE
„ 18, ...	3	c-cum. / cum.	...	10	cum.	...	9	sm-cum. / cum.	E	1	cum.	...
„ 19, ...	1	c-cum.	...	3	c-cum.	...	9	c-cum.	ENE	9	c-cum.	ENE
„ 20, ...	10	cum-nim.	...	10	nim.	...	9	c-cum. / cum.	SE	9	nim.	SE
„ 21, ...	10	str-cum.	...	10	R-cum.	ENE	10	nim.	ENE	9	sm-cum. / cum. / cum.	E / E / ENE
„ 22, ...	9	str-cum.	...	4	cum.	...	4	cum.	NNE	9	cum.	ENE
„ 23, ...	1	cum.	...	8	cum.	...	1	cum.	...	2	cum.	ENE
„ 24, ...	0	...	...	0	...	...	5	c-cum.	...	2	c-cum.	...
„ 25, ...	0	...	...	0	...	...	3	c-cum.	...	2	c-cum.	...
„ 26, ...	10	str-cum.	...	10	str-cum.	...	10	nim.	...	10	nim.	N
„ 27, ...	10	cum-nim.	N	10	nim.	...	10	nim.	NNE	10	nim.	NE
„ 28, ...	10	nim.	...	10	nim.	E	10	R-cum.	ENE	10	R-cum.	ENE
„ 29, ...	10	nim.	...	10	nim.	...	10	nim.	ENE	10	nim.	ENE
„ 30, ...	8	c-cum. / cum.	N	0	...	...	0	...	...	0	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means, ..	4.6	...	...	4.8	...	...	5.8	...	...	5.6	...	...

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	
1895.													
Sept. 1,...	3	c-cum. / cum.	E	3	c-cum. / cum.	E	8	cum.	E	5	c-cum. / sm-cum.	...	4.4
„ 2,...	8	c-str. / cum.	E	9	c-cum. / cum.	...	9	c-cum. / cum-nim.	...	10	cum.	...	7.9
„ 3,...	7	c-str. / cum.	NE	2	c-str. / cum.	NNE	0	...	...	0	...	...	4.7
„ 4,...	4	c-cum. / cum.	N	1	c-cum. / cum.	N	0	...	...	0	...	...	1.5
„ 5,...	0	...	...	1	c-cum. / cum.	...	0	...	...	0	...	...	0.1
„ 6,...	1	c-str. / cum.	...	2	c-str. / cum.	NNW	0	...	...	2	c-str.	...	1.0
„ 7,...	6	c-cum.	...	3	sm-cum.	...	1	c-str.	...	0	...	...	3.8
„ 8,...	2	c-cum. / cum.	...	4	c-str.	W	7	sm-cum. / cum.	...	8	sm-cum. / cum.	...	4.6
„ 9,...	8	sm-cum.	W	5	c-cum.	W	7	sm-cum.	W	8	sm-cum.	W	8.5
„ 10,...	7	c-cum. / sm-cum. / cum.	ENE	6	sm-cum. / cum.	ENE	6	sm-cum.	SW	4	cum.	ENE	6.4
„ 11,...	7	c-cum. / sm-cum.	...	3	c-cum.	...	2	c-cum. / cum.	E	0	...	...	4.1
„ 12,...	4	c-cum. / cum.	E	2	c-cum.	...	2	c-cum. / cum.	E	4	c-cum. / cum.	E	3.5
„ 13,...	4	c-cum. / cum.	ENE / E	2	cum.	ENE	3	cum.	ENE	2	cum.	ENE	3.0
„ 14,...	3	c-cum. / cum.	E	2	c-cum. / cum.	...	1	c-cum. / cum.	...	1	cum.	...	2.6
„ 15,...	1	cum.	...	0	...	...	0	...	...	0	...	...	0.9
„ 16,...	7	c-cum. / cum.	ENE	9	c-str. / c-cum.	...	2	c-cum.	...	9	c-cum.	...	4.9
„ 17,...	2	cum.	...	9	cum.	E	3	c-cum.	...	0	...	...	3.7
„ 18,...	5	c-cum. / cum.	NNE	1	cum.	...	4	c-str.	...	2	c-str.	...	4.4
„ 19,...	10	str-cum.	N	10	nim.	N	10	nim.	...	10	cum-nim.	...	7.8
„ 20,...	7	c-cum. / cum.	SE	9	c-cum. / nim.	E	10	cum-nim.	...	10	nim.	...	9.2
„ 21,...	8	c-cum. / cum.	E	9	c-cum. / cum.	ENE	10	cum.	E	9	cum.	E	9.4
„ 22,...	3	cum.	E	1	cum.	...	9	str-cum.	E	5	cum.	E	5.5
„ 23,...	4	cum.	N	8	cum.	N	2	cum.	N	0	...	...	3.2
„ 24,...	4	c-cum. / cum.	N	9	c-cum. / cum.	N	10	cum.	N	0	...	...	3.8
„ 25,...	4	c-cum.	ENE	9	c-cum.	NE	1	c-cum.	...	5	c-cum. / cum.	...	3.0
„ 26,...	10	nim.	N	10	R-cum. / nim.	N / NW	10	nim.	N	10	nim.	N	10.0
„ 27,...	10	nim.	ENE	10	R-cum.	ENE	10	R-cum.	E	10	nim.	E	10.0
„ 28,...	10	cum-nim.	ENE	10	cum-nim.	ENE	10	nim.	ENE	10	nim.	...	10.0
„ 29,...	10	nim.	ENE	10	nim.	N	10	cum-nim.	N	9	c-cum. / cum.	W / ..	9.9
„ 30,...	0	...	...	1	c-cum.	...	0	...	...	0	...	...	1.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	5.3	...	...	5.3	...	...	4.9	...	...	4.4	...	...	5.1

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF SEPTEMBER, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	5.7	9.2	0.2	0.4	+ 5.5	+ 8.8	E 32° N
2 „	5.4	7.7	0.1	0.5	5.3	7.2	E 37° N
3 „	5.8	7.9	0.1	0.6	5.7	7.3	E 38° N
4 „	6.7	7.7	0.3	0.9	6.4	6.8	E 43° N
5 „	5.8	7.5	0.2	1.1	5.6	6.4	E 41° N
6 „	5.4	7.2	0.1	0.9	5.3	6.3	E 40° N
7 „	5.9	7.2	0.1	1.2	5.8	6.0	E 44° N
8 „	6.5	7.0	0.1	1.2	6.4	5.8	E 48° N
9 „	6.3	8.3	0.2	1.2	6.1	7.1	E 41° N
10 „	5.4	8.6	0.8	1.6	4.6	7.0	E 33° N
11 „	5.3	9.2	1.0	2.3	4.3	6.9	E 32° N
Noon.	5.4	10.5	1.3	2.2	4.1	8.3	E 27° N
1 p.	3.7	11.2	1.9	2.7	1.8	8.5	E 12° N
2 „	4.2	10.0	2.6	2.2	1.6	7.8	E 12° N
3 „	4.0	10.0	1.7	2.9	2.3	7.1	E 18° N
4 „	3.4	9.8	1.9	3.0	1.5	6.8	E 12° N
5 „	3.3	9.1	1.3	2.6	2.0	6.5	E 18° N
6 „	2.7	8.5	1.7	2.1	1.0	6.4	E 11° N
7 „	2.6	7.8	1.3	1.4	1.3	6.4	E 9° N
8 „	3.7	8.2	0.8	0.8	2.9	7.4	E 21° N
9 „	4.3	8.5	0.4	1.0	3.9	7.5	E 27° N
10 „	4.6	8.3	0.5	1.0	4.1	7.3	E 30° N
11 „	5.3	8.9	0.5	0.2	4.8	8.7	E 29° N
Midt.	5.0	8.7	0.5	0.5	+ 4.5	+ 8.2	E 29° N
Means,.....	4.8	8.6	0.8	1.4	+4.03	+ 7.19	E 29° N

PHENOMENA :—

Solar halo :—on the 2nd, 3rd, 7th, 8th, 9th, 11th and 16th.

Lunar halo :—on the 2nd, 6th, 7th, 8th, 10th, 11th, 12th and 30th.

Lunar corona :—on the 1st, 3rd, 4th, 6th, 29th and 30th.

Fog :—on the 1st.

Slight fog :—on the 2nd, 3rd, 4th, 5th and 6th.

Haze :—on the 5th, 6th and 16th.

Unusual visibility :—on the 30th.

Dew :—on the 1st, 3rd, 4th, 18th, 23rd, 24th and 30th.

Rainbow :—on the 18th and 20th.

Lightning without thunder :—on the 3rd, 13th and 14th.

Thunder and lightning :—on the 1st.

Thunderstorm :—on the 2nd, 5.30 p.—6.30 p., in NW, nearest at 6.12 p. (7ᵃ).

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF OCTOBER, 1895.

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,...	29.850	29.838	29.832	29.831	29.843	29.857	29.893	29.907	29.912	29.911	29.888	29.862	29.838	29.812	29.799	29.803	29.814	29.817	29.820	29.840	29.857	29.848	29.844	29.848	29.848
" 2,...	.837	.832	.831	.833	.847	.863	.872	.887	.893	.895	.890	.854	.824	.797	.785	.788	.790	.795	.815	.838	.845	.859	.860	.850	.841
" 3,...	.832	.831	.825	.820	.832	.848	.866	.892	.892	.908	.891	.867	.853	.836	.830	.830	.831	.830	.850	.869	.882	.888	.886	.887	.857
" 4,...	.858	.858	.854	.851	.856	.857	.896	.910	.926	.912	.914	.894	.872	.858	.846	.848	.846	.848	.856	.857	.867	.870	.872	.870	.871
" 5,...	.854	.854	.848	.844	.852	.864	.885	.907	.919	.914	.912	.900	.883	.868	.852	.854	.864	.867	.857	.873	.895	.900	.884	.881	.876
" 6,...	.868	.862	.852	.861	.882	.905	.918	.937	.949	.946	.941	.922	.901	.872	.867	.866	.868	.873	.890	.897	.900	.902	.896	.888	.894
" 7,...	.871	.853	.840	.842	.858	.867	.888	.900	.910	.901	.900	.876	.852	.832	.825	.810	.815	.824	.837	.858	.874	.886	.884	.878	.862
" 8,...	.866	.861	.853	.849	.858	.878	.888	.904	.917	.912	.902	.889	.875	.854	.840	.845	.858	.868	.886	.910	.931	.937	.931	.932	.885
" 9,...	.924	.916	.900	.909	.913	.923	.940	.942	.960	.962	.959	.929	.915	.896	.881	.881	.890	.888	.899	.927	.939	.945	.941	.930	.922
" 10,...	.918	.912	.909	.910	.914	.929	.940	.950	.954	.960	.948	.926	.895	.880	.868	.867	.880	.890	.906	.924	.934	.936	.937	.928	.917
" 11,...	.916	.909	.902	.898	.911	.929	.941	.958	.972	.968	.962	.944	.910	.890	.878	.878	.892	.902	.928	.947	.961	.958	.950	.942	.927
" 12,...	.934	.930	.928	.918	.923	.939	.956	.970	.971	.978	.963	.944	.916	.896	.882	.876	.879	.890	.909	.935	.947	.948	.949	.942	.930
" 13,...	.941	.922	.916	.921	.926	.943	.962	.982	.988	.978	.971	.947	.918	.891	.884	.876	.883	.890	.905	.916	.922	.927	.923	.910	.927
" 14,...	.899	.900	.892	.892	.902	.898	.937	.961	.963	.944	.937	.921	.888	.868	.862	.858	.859	.861	.871	.891	.896	.900	.885	.888	.899
" 15,...	.873	.872	.858	.852	.857	.873	.903	.920	.930	.928	.915	.894	.870	.864	.859	.859	.857	.865	.877	.897	.906	.906	.907	.899	.885
" 16,...	.887	.880	.872	.865	.871	.887	.901	.916	.922	.909	.894	.886	.867	.862	.842	.826	.840	.834	.841	.856	.871	.876	.870	.860	.872
" 17,...	.843	.841	.827	.821	.824	.842	.848	.865	.880	.874	.866	.846	.816	.799	.783	.781	.778	.778	.790	.806	.810	.812	.813	.810	.823
" 18,...	.805	.803	.797	.787	.797	.812	.834	.854	.874	.871	.860	.827	.808	.790	.778	.778	.781	.789	.806	.822	.835	.846	.849	.841	.818
" 19,...	.838	.837	.831	.822	.827	.845	.875	.896	.913	.915	.908	.885	.859	.858	.857	.863	.866	.881	.891	.910	.914	.922	.916	.903	.876
" 20,...	.895	.882	.883	.865	.876	.893	.900	.920	.931	.927	.911	.896	.871	.854	.848	.849	.856	.862	.873	.890	.898	.888	.880	.870	.884
" 21,...	.861	.848	.845	.837	.835	.848	.859	.871	.883	.877	.870	.850	.828	.799	.787	.794	.793	.803	.829	.835	.842	.841	.826	.827	.837
" 22,...	.821	.813	.797	.790	.804	.818	.837	.854	.864	.858	.847	.820	.786	.771	.769	.769	.780	.793	.822	.846	.849	.848	.834	.830	.818
" 23,...	.821	.814	.820	.815	.815	.828	.845	.863	.874	.865	.853	.837	.823	.816	.818	.837	.854	.874	.895	.913	.921	.926	.911	.915	.856
" 24,...	.919	.911	.913	.922	.927	.941	.967	.997	30.011	30.004	.996	.965	.935	.914	.907	.918	.928	.941	.962	.983	30.001	30.002	.999	.989	.956
" 25,...	.978	.973	.966	.974	.974	.995	30.005	30.020	.027	.029	30.009	30.000	.977	.964	.957	.957	.970	.982	.999	30.016	.022	.025	30.008	.989	.992
" 26,...	.964	.954	.948	.954	.967	.988	.010	.022	.030	.021	.013	.993	.953	.928	.915	.926	.926	.945	.958	29.968	29.973	29.977	29.969	.966	.969
" 27,...	.951	.939	.944	.946	.955	.955	29.956	29.962	29.968	29.965	29.956	.930	.890	.876	.853	.853	.851	.859	.878	.893	.900	.901	.891	.887	.915
" 28,...	.883	.868	.852	.850	.839	.847	.867	.885	.889	.880	.858	.841	.807	.794	.775	.782	.781	.787	.798	.815	.822	.830	.830	.816	.833
" 29,...	.798	.795	.781	.789	.792	.807	.817	.833	.830	.822	.805	.780	.748	.737	.733	.740	.753	.770	.791	.811	.819	.811	.799	.794	.790
" 30,...	.778	.781	.784	.781	.786	.798	.804	.823	.838	.839	.843	.816	.780	.753	.736	.736	.743	.753	.767	.785	.791	.802	.796	.787	.788
" 31,...	.780	.785	.787	.789	.795	.807	.818	.827	.852	.844	.823	.785	.763	.746	.756	.764	.766	.770	.784	.797	.801	.805	.806	.792	.793
Means,.....	29.873	29.867	29.861	29.859	29.866	29.880	29.898	29.914	29.924	29.920	29.910	29.888	29.862	29.844	29.835	29.836	29.842	29.849	29.864	29.881	29.891	29.894	29.889	29.882	29.876

TABLE II.

TEMPERATURE FOR THE MONTH OF OCTOBER, 1895.

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,	70.0	70.4	69.8	69.5	69.3	69.5	72.0	71.4	71.7	75.3	76.3	78.0	79.3	79.6	79.6	78.2	75.2	73.7	73.1	73.3	72.4	71.9	71.2	69.7	73.3	80.8	68.3
„ 2,	70.7	70.0	69.7	69.5	68.9	69.8	71.3	74.0	76.5	77.1	78.2	79.1	79.1	76.5	76.1	77.0	75.1	74.2	73.6	73.8	73.1	72.5	71.6	71.5	73.7	79.4	68.9
„ 3,	71.8	71.4	71.0	70.9	70.7	70.8	73.9	75.8	76.9	78.0	78.0	79.1	79.8	79.7	79.3	78.7	76.1	75.0	74.7	74.1	74.3	75.0	74.8	74.4	75.2	80.6	70.3
„ 4,	74.7	73.9	72.7	72.3	71.7	72.3	74.9	76.9	77.1	79.1	78.5	78.6	78.4	78.4	78.3	77.2	76.3	75.2	75.2	75.3	75.2	75.3	75.8	75.4	75.8	80.3	71.1
„ 5,	75.3	75.4	75.2	75.1	74.8	74.3	74.4	74.4	74.7	75.7	76.6	76.5	76.5	76.6	77.3	76.7	76.1	76.0	75.6	75.6	75.7	75.9	75.9	75.8	75.7	77.3	73.8
„ 6,	75.7	75.5	74.9	74.8	75.2	75.1	74.9	76.8	76.2	78.2	78.8	79.1	79.2	79.0	78.9	77.0	76.7	75.6	75.6	75.6	75.7	75.6	76.0	75.8	76.5	79.2	74.8
„ 7,	75.6	75.6	75.3	75.1	75.0	74.6	75.1	75.6	77.5	77.9	77.8	78.8	78.4	79.0	78.6	77.7	76.7	75.9	75.9	75.6	76.1	75.9	75.8	75.6	76.5	80.3	74.5
„ 8,	75.5	75.2	75.1	75.0	75.4	73.3	75.4	76.9	78.0	78.6	79.8	78.8	78.7	78.4	77.9	77.1	77.0	75.9	75.8	75.7	75.8	75.7	75.2	75.1	76.5	80.0	73.3
„ 9,	74.5	74.4	74.1	73.6	73.4	74.1	75.6	77.5	78.9	80.1	79.8	79.6	79.9	79.5	79.1	78.1	77.4	76.4	75.9	75.1	75.0	75.9	75.4	75.0	76.6	81.4	73.2
„ 10,	74.6	74.6	74.5	74.6	74.6	74.6	75.5	75.8	78.6	79.6	79.6	78.5	79.0	79.4	79.9	77.8	76.4	75.2	75.2	75.4	75.1	75.3	74.9	74.7	76.4	80.8	74.3
„ 11,	74.6	74.6	74.3	74.4	74.1	74.4	74.5	74.6	77.4	79.2	78.9	77.5	76.9	77.0	76.6	76.0	75.3	74.7	74.9	74.8	74.7	74.5	74.4	74.0	75.5	80.1	73.9
„ 12,	74.3	74.3	74.3	73.6	73.4	73.6	73.9	74.5	75.9	76.0	77.3	76.5	76.9	76.7	76.8	75.9	75.2	75.0	74.3	74.1	73.9	73.9	73.9	74.0	74.9	78.4	73.0
„ 13,	73.9	74.0	73.9	74.0	74.0	73.1	72.5	73.2	73.8	75.2	76.1	76.0	76.2	76.0	76.6	75.6	75.5	73.8	73.2	73.3	73.2	73.7	73.7	73.7	74.3	77.4	72.4
„ 14,	73.8	73.7	73.4	73.3	73.3	72.8	73.0	74.1	75.0	76.7	77.5	77.7	78.0	76.7	78.1	77.7	76.0	74.4	74.3	74.1	73.8	73.9	73.4	73.4	74.9	78.8	72.5
„ 15,	73.5	74.1	73.8	73.6	73.3	73.4	74.6	74.8	75.6	76.0	77.3	78.9	77.4	76.9	77.4	77.4	76.0	75.0	75.0	75.3	75.0	74.9	74.9	74.9	75.4	79.0	72.4
„ 16,	74.8	74.7	74.5	74.3	74.1	74.0	74.4	74.6	75.1	76.6	76.4	77.1	77.0	77.5	78.3	77.2	76·3	74.9	74.7	74.4	74.2	74.1	74.1	74.3	75.3	78.8	73.9
„ 17,	74.4	73.9	74.7	74.7	75.0	75.2	75.7	76.7	77.6	79.3	80.6	81.2	81.4	80.9	79.4	79.3	78.0	76.9	76.2	75.9	75.8	74.9	74.9	74.7	77.0	82.4	73.5
„ 18,	74.6	74.7	74.7	74.5	74.4	74.4	75.9	77.9	79.9	80.2	80.4	78.1	79.1	80.5	80.1	80.3	77.9	76.4	75.9	74.7	75.8	75.6	75.3	75.2	76.9	82.9	73.7
„ 19,	75.1	75.0	75.1	74.8	74.9	74.8	76.9	77.9	79.9	81.9	81.9	82.5	81.9	82.4	81.5	81.6	77.6	76.7	75.8	76.2	75.7	75.3	75.5	75.4	77.8	84.3	73.7
„ 20,	75.3	74.8	73.7	74.4	74.6	74.4	74.7	73.8	74.5	76.7	76.6	77.2	77.2	77.0	77.2	76.4	75.4	75.0	75.1	75.3	75.3	75.2	74.9	75.0	75.4	78.7	73.3
„ 21,	74.8	74.6	74.6	74.0	74.0	74.1	74.7	74.6	74.9	76.1	76.2	76.4	76.0	77.6	76.8	76.1	75.4	74.6	74.5	74.8	74.8	74.7	74.7	74.6	75.1	78.1	73.8
„ 22,	74.6	74.7	74.9	74.9	75.0	75.2	75.5	76.1	78.6	78.0	78.3	78.4	78.9	78.2	77.2	77.0	76.9	76.9	74.7	74.6	74.8	74.5	73.9	74.1	76.1	81.5	73.6
„ 23,	73.8	74.0	73.9	73.7	74.0	74.2	74.9	75.2	76.1	77.0	76.9	76.8	75.3	75.7	74.1	72.4	70.6	69.3	68.4	67.2	65.7	65.2	65.3	65.0	72.3	78.0	64.9
„ 24,	64.2	65.2	63.8	63.9	64.8	64.7	63.3	63.7	64.4	64.3	64.7	68.4	72.8	74.1	74.5	73.1	72.0	71.3	71.2	70.2	68.9	68.0	67.8	67.4	67.8	76.2	62.7
„ 25,	66.9	67.0	66.4	66.1	65.5	65.6	68.5	70.6	71.1	72.1	74.5	73.4	73.5	74.4	74.8	72.2	71.9	71.2	71.5	71.6	71.5	71.6	71.5	71.4	70.6	74.8	64.6
„ 26,	71.4	71.5	71.6	71.1	71.1	70.8	70.6	70.9	71.8	73.2	75.3	75.1	76.0	75.0	76.3	75.5	73.4	73.2	72.9	72.9	72.4	72.3	72.2	72.3	72.9	76.8	70.4
„ 27,	72.5	72.0	72.0	72.2	71.5	71.6	72.5	73.2	75.3	75.1	77.5	77.3	76.9	74.9	75.0	75.0	73.7	73.4	73.2	73.3	73.2	73.4	73.2	73.2	73.8	77.5	69.9
„ 28,	73.4	73.5	73.5	73.4	73.4	73.4	73.6	73.6	74.4	74.9	74.7	75.6	76.1	75.2	75.3	74.6	74.3	74.4	74.0	73.9	73.9	73.8	73.7	73.7	74.2	76.9	72.9
„ 29,	73.6	74.3	74.4	74.0	73.6	73.4	74.5	75.1	76.6	77.1	78.2	78.9	78.9	76.2	75.5	76.9	75.3	75.3	75.2	74.8	73.3	73.4	73.0	73.0	75.2	78.9	72.2
„ 30,	72.6	72.7	72.8	72.9	72.4	72.5	73.7	74.8	76.3	77.5	76.7	76.8	77.0	76.4	77.6	76.6	76.0	74.9	74.0	74.0	73.9	74.9	74.7	74.6	74.8	78.3	71.6
„ 31,	74.3	74.2	74 0	74.2	74.3	74.2	73.3	74.2	72.7	72.3	72.2	72.8	74.1	73.9	73.0	72.5	71.7	72.3	72.7	73.2	73.7	73.7	73.6	73.5	73.4	75.1	70.7
Means,	73.4	73.3	73.1	73.0	72.9	72.8	73.7	74.5	75.6	76.6	77.1	77.4	77.6	77.4	77.3	76.6	75.4	74.6	74.3	74.1	73.9	73.9	73.7	73.6	74.8	79.1	71.7

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF OCTOBER, 1895.

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, ...	60.5	59.9	59.7	59.6	59.7	59.5	61.8	60.7	61.7	63.0	63.4	63.5	66.0	66.1	65.8	66.0	64.9	65.4	64.8	66.1	65.8	65.3	65.0	64.5	63.3	147.1
„ 2, ...	63.7	65.0	64.8	64.5	65.3	66.4	66.1	67.5	67.4	68.2	67.7	68.2	69.2	67.2	68.1	69.2	67.9	67.9	67.8	68.3	68.1	68.6	67.3	67.2	67.1	133.1
„ 3, ...	67.6	67.5	68.0	68.5	68.5	68.4	69.0	69.0	68.0	69.0	68.9	69.1	70.6	70.0	68.9	68.2	68.4	68.0	67.9	68.3	69.2	68.2	69.7	69.0	68.7	138.1
„ 4, ...	68.4	68.9	68.8	68.6	68.7	68.5	70.1	70.0	70.1	70.2	70.9	71.4	70.9	71.1	70.7	69.3	68.0	67.6	69.4	69.6	69.3	69.5	70.0	71.0	69.6	137.9
„ 5, ...	71.3	71.2	70.9	70.6	71.3	70.6	70.6	70.4	70.7	71.8	71.7	71.8	71.8	71.7	72.4	72.5	72.0	72.0	71.4	71.7	71.3	71.2	71.8	70.3	71.4	113.1
„ 6, ...	70.0	69.7	69.5	69.4	69.0	70.0	70.1	71.0	71.8	70.5	71.5	70.0	69.3	69.4	69.5	69.7	69.1	69.7	70.4	70.7	70.7	70.5	70.8	70.2	70.1	133.6
„ 7, ...	70.1	70.8	69.8	69.6	69.9	68.0	68.3	68.1	68.7	67.8	68.0	69.1	69.0	69.5	69.8	68.6	69.6	69.0	69.0	68.8	69.4	69.1	69.6	69.3	69.1	140.0
„ 8, ...	68.4	69.1	68.7	68.6	68.5	68.5	67.2	67.5	67.6	67.0	66.4	66.0	66.4	66.9	68.0	67.3	68.6	69.1	69.3	69.2	69.5	69.4	69.7	69.3	68.2	140.1
„ 9, ...	69.2	68.7	68.2	67.6	67.7	67.2	66.9	67.5	68.9	67.0	67.9	68.9	69.8	70.2	70.6	70.0	70.4	69.8	70.2	70.4	70.9	71.4	71.3	71.3	69.3	133.3
„ 10, ...	69 7	69.6	70.4	70.7	70.6	69.9	70.4	70.6	72.0	72.2	72.3	71.3	71.1	71.8	72.0	71.0	71.0	69.8	70.0	70.1	70.0	70.2	69.8	69.5	70.7	140.0
„ 11, ...	69.6	69.1	69.7	69.6	69.2	69.3	68.0	68.8	69.0	70.4	70.8	69.3	68.5	68.4	68.0	68.7	68.0	68.0	67.9	67.5	68.1	68.3	68.2	67.9	68.8	139.4
„ 12, ...	68.6	68.3	68.5	68.7	67.7	67.8	65.7	66.0	66.3	66.4	67.2	67.2	67.2	67.2	67.2	68.7	68.6	69.0	68.8	68.7	68.1	67.9	68.3	68.4	67.8	136.8
„ 13, ...	68.0	68.2	68.0	68.1	68.2	68.3	67.3	67.6	67.0	68.0	67.8	67.6	67.4	66.5	67.3	68.0	69.2	68.8	68.4	68.3	68.9	69.0	68.7	68.7	68.1	131.6
„ 14, ...	68.7	67.7	68.2	67.9	67.7	67.8	68.1	68.7	68.9	69.1	69.6	70.7	69.5	69.7	67.3	66.1	67.8	68.0	68.9	69.5	68.8	70.0	69.8	69.8	68.7	133.6
„ 15, ...	69.8	69.8	69.8	69.8	69.7	69.6	69.8	70.0	70.1	70.4	71.0	72.3	72.0	71.0	71.1	71.3	71.6	71.2	71.3	71.2	71.4	71.3	71.7	71.5	70.8	139.1
„ 16, ...	71.5	71.1	70.7	70.7	70.7	70.5	70.6	70.9	70.8	72.0	72.0	72.4	72.1	72.7	72.7	72.0	71.2	71.0	71.0	71.3	71.4	71.6	71.8	72.2	71.5	139.2
„ 17, ...	72.7	71.7	72.1	72.7	72.7	72.7	73.2	73.7	73.6	74.1	73.8	74.7	74.5	74.5	73.7	74.0	72.9	72.8	72.8	73.0	73.2	73.2	73.5	72.9	73.3	137.2
„ 18, ...	72.7	72.7	73.1	72.2	71.9	71.7	72.9	73.8	74.1	74.1	74.6	73.1	73.6	73.7	73.0	73.5	72.5	72.0	72.5	73.0	73.0	73.4	73.3	73.1	73.1	134.0
„ 19, ...	72.9	73.0	72.8	72.8	72.8	72.5	72.1	73.0	73.7	73.0	74.0	74.0	74.1	75.0	74.0	73.5	71.8	71.3	70.9	70.9	70.5	70.8	71.4	71.3	72.6	145.1
„ 20, ...	71.1	71.3	71.4	72.0	71.3	70.9	71.4	72.0	71.8	71.4	71.8	72.3	72.2	71.6	71.8	71.2	70.8	70.9	70.8	71.0	71.8	71.4	71.1	71.1	71.6	134.8
„ 21, ...	70.7	70.7	71.0	71.5	70.7	70.7	71.6	71.9	71.7	72.2	72.3	73.8	73.4	74.0	73.0	73.0	72.7	72.2	72.3	73.9	73.9	73.0	73.1	73.0	72.3	149.8
„ 22, ...	73.1	73.3	73.4	73.3	73.5	73.2	73.6	73.7	74.8	74.2	74.8	74.7	74.9	74.3	74.6	74.3	74.3	75.0	73.1	72.9	72.6	73.0	72.3	71.8	73.7	129.9
„ 23, ...	71.8	72.1	72.1	71.8	71.9	72.0	72.0	72.1	72.3	73.2	72.8	72.9	72.7	72.5	72.0	71.0	69.4	68.3	67.2	65.8	64.3	63.7	62.6	62.1	70.4	114.0
„ 24, ...	62.1	62.4	62.0	61.8	61.0	60.6	61.3	61.9	62.4	61.0	61.8	63.3	64.7	64.2	65.3	64.4	64.0	62.9	62.2	61.7	61.0	60.4	60.3	60.0	62.2	137.1
„ 25, ...	59.4	58.8	58.3	58.3	58.2	58.8	61.0	62.0	62.1	63.1	64.9	64.4	64.8	66.0	66.5	64.5	64.6	64.6	64.9	64.9	64.7	64.4	65.7	65.7	62.9	132.8
„ 26, ...	65.7	65.7	65.7	64.7	64.7	64.7	64.9	64.4	64.7	64.1	64.0	64.7	65.1	64.9	65.4	65.5	66.1	66.0	65.3	65.5	66.0	66.4	67.1	67.5	65.4	133.4
„ 27, ...	67.6	68.0	68.2	68.1	67.5	67.4	67.7	68.1	68.2	68.2	69.7	69.5	70.0	68.7	68.0	68.8	68.4	67.3	67.8	68.1	68.6	68.7	68.6	68.6	68.3	136.6
„ 28, ...	69.1	69.1	69.1	69.4	69.4	69.1	69.7	69.6	70.1	69.8	70.6	71.6	70.7	70.6	70.7	70.0	70.4	70.6	70 0	70.2	70.3	70.3	70.2	70.6	70.0	129.6
„ 29, ...	70.6	70.4	70.7	70.4	70.1	70.3	70.5	70.6	70.7	71.1	72.0	72.5	72.6	71.3	71.2	71.1	70.5	70.7	70.8	70.4	69.8	70.7	70.6	70.9	70.9	133.0
„ 30, ...	70.6	70.6	70.6	70.7	70.1	70.2	70.7	71.0	71.8	71.9	71.9	72.0	71.6	71.2	71.5	71.3	71.0	70.6	70.5	70.3	71.0	69.0	70.8	71.4	70.9	109.8
„ 31, ...	71.4	71.1	71.0	70.8	70.8	70.6	69.7	69.7	69.5	70.3	70.4	70.4	70.5	70.7	70.6	70.3	69.8	69.9	69.6	70.0	69.3	69.0	69.2	68.8	70.1	94.7
Means, ...	68.9	68.9	68.9	68.8	68.7	68.6	68.8	69.1	69.4	69.5	69.9	70.1	70.2	70.1	70.0	69.8	69.5	69.4	69.3	69.4	69.4	69.3	69.5	69.3	69.4	133.2

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF OCTOBER, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	79	0.650	Oct. 1,.....	55	0.450
2 „	79	.651	„ 2,.....	70	.577
3 „	80	.652	„ 3,.....	71	.616
4 „	80	.651	„ 4,.....	72	.642
5 „	80	.649	„ 5,.....	80	.713
6 „	80	.648	„ 6,.....	71	.651
7 „	76	.642	„ 7,.....	67	.613
8 „	74	.642	„ 8,.....	63	.580
9 „	72	.639	„ 9,.....	68	.619
10 „	69	.629	„ 10,.....	74	.676
11 „	68	.630	„ 11,.....	70	.615
Noon.	68	.641	„ 12,.....	68	.586
1 p.	67	.642	„ 13,.....	71	.606
2 „	68	.641	„ 14,.....	72	.620
3 „	68	.639	„ 15,.....	79	.694
4 „	70	.641	„ 16,.....	83	.722
5 „	72	.646	„ 17,.....	83	.772
6 „	75	.652	„ 18,.....	83	.766
7 „	76	.652	„ 19,.....	77	.732
8 „	78	.650	„ 20,.....	83	.725
9 „	79	.663	„ 21,.....	86	.758
10 „	79	.660	„ 22,.....	88	.800
11 „	80	.670	„ 23,.....	88	.700
Midt.	80	.662	„ 24,.....	72	.487
			„ 25,.....	63	.472
			„ 26,.....	65	.527
			„ 27,.....	74	.620
			„ 28,.....	80	.678
			„ 29,.....	80	.699
			„ 30,.....	81	.705
			„ 31,.....	83	.693
Means,.....	75	0.649	Means.	75	0.649

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.
1895.														
Oct. 1,.....	...	0.6	0.7	0.9	1.0	1.0	1.0	1.0	0.7	0.8	1.0	0.5	...	9.2
„ 2,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.2	0.2	...	...	7.6
„ 3,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	0.9	0.6	...	9.6
„ 4,.....	...	0.3	0.9	1.0	1.0	1.0	0.8	1.0	0.9	1.0	1.0	0.6	...	9.5
„ 5,.....	...	...	...	...	0.1	0.1	...	...	...	...	...	...	...	0.2
„ 6, ...	...	...	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	9.7
„ 7,.....	...	...	...	0.8	1.0	0.8	0.7	0.6	1.0	1.0	1.0	0.6	...	7.5
„ 8,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.6
„ 9,.....	...	0.6	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	9.7
„ 10,.....	...	0.1	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.2	...	8.3
„ 11,.....	...	...	0.3	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	8.6
„ 12,.....	...	0.4	1.0	1.0	1.0	1.0	0.7	0.6	1.0	1.0	1.0	0.6	...	9.3
„ 13,.....	...	0.1	0.5	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	9.2
„ 14,.....	...	0.1	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	...	9.6
„ 15,.....	...	0.2	0.5	0.9	0.3	0.7	0.8	0.9	0.3	0.7	1.0	0.7	...	7.0
„ 16,.....	...	...	...	...	0.1	0.1	0.3	0.1	0.4	1.0	1.0	0.7	...	3.7
„ 17,.....	...	...	0.1	0.6	1.0	1.0	1.0	1.0	0.7	0.1	0.6	0.7	...	6.8
„ 18,.....	...	0.1	1.0	1.0	1.0	0.9	0.3	0.8	1.0	1.0	1.0	0.7	...	8.8
„ 19,.....	...	0.3	0.4	0.7	0.9	0.4	0.8	1.0	1.0	0.4	0.7	0.3	...	6.9
„ 20,.....	...	...	...	...	...	0.3	0.5	0.9	1.0	1.0	0.8	0.4	...	4.9
„ 21.....	...	...	...	...	...	0.1	0.2	0.1	0.6	0.4	0.1	0.2	...	1.7
„ 22,.....	...	...	...	0.3	...	0.8	0.4	0.3	...	...	...	...	...	1.8
„ 23,.....	...	...	...	0.1	...	...	...	...	...	...	...	...	...	0.1
„ 24,.....	...	...	...	...	...	...	...	0.7	0.8	0.1	...	0.5	...	2.1
„ 25,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	...	8.7
„ 26,.....	...	...	...	...	0.6	1.0	0.4	0.9	0.8	1.0	1.0	0.3	...	6.0
„ 27,.....	...	...	0.1	1.0	1.0	0.8	1.0	0.7	0.7	0.3	0.9	0.2	...	6.7
„ 28,.....	...	...	...	...	...	...	0.1	0.1	...	...	...	...	...	0.2
„ 29,.....	...	...	...	0.7	1.0	1.0	1.0	0.7	...	...	0.4	...	...	4.8
„ 30,.....	...	...	...	...	0.1	...	...	...	...	...	0.2	...	...	0.3
„ 31,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	4.5	12.6	18.7	20.1	21.0	20.0	21.4	19.9	19.0	19.6	11.3	...	188.1

TABLE VI.

RAINFALL FOR THE MONTH OF OCTOBER, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	...
„ 20,	0.010	...	...	...	0.030	0.025	0.015	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.085	3
„ 21,	...	...	0.040	...	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	2
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.050	...	...	...	...	0.005	0.065	1
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.070	0.015	0.040	0.045	0.020	0.005	...	0.205	8
„ 24,	0.005	0.005	...	0.005	0.005	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.035	9
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,	...	...	...	...	...	...	...	0.005	0.010	0.005	...	...	0.005	0.010	0.005	0.010	0.005	...	...	...	...	...	...	...	0.055	5
Sums,	0.015	0.005	0.040	0.005	0.040	0.030	0.020	0.010	0.010	0.005	...	...	0.005	0.010	0.005	0.010	0.015	0.080	0.065	0.040	0.045	0.020	0.005	0.020	0.500	29

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF OCTOBER, 1895.

Date.	1 a.		2 a.		3 a.		4 a.		5 a.		6 a.		7 a.		8 a.		9 a.		10 a.		11 a.		Noon.		1 p.		2 p.		3 p.		4 p.		5 p.		6 p.		7 p.		8 p.		9 p.		10 p.		11 p.		Midt.		Vel.		Dir.
	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Dir.	Vel.	Sums.	Means.	Means.
Oct. 1.	32	7	1	10	1	13	32	20	2	16	2	13	1	9	32	14	31	12	1	11	32	11	32	7	27	4	22	3	23	3	24	5	15	9	15	6	15	4	15	2	15	2	15	2	...	0	...	0	183	7.6	32
„ 2.	...	1	...	0	15	3	15	3	15	2	...	1	...	0	15	2	10	6	8	9	9	12	8	13	9	14	9	14	9	14	9	13	11	6	13	5	13	3	13	3	...	1	13	2	13	3	13	3	133	5.5	10
„ 3.	...	1	...	0	10	3	...	0	...	1	10	2	9	5	7	6	8	13	8	12	8	16	8	15	8	13	9	16	9	14	10	11	9	10	11	11	13	8	14	4	13	6	13	5	13	8	12	10	190	7.9	10
„ 4.	12	11	13	7	13	3	13	2	13	2	...	1	...	1	8	10	9	16	9	21	9	20	9	23	9	22	8	19	9	16	7	17	7	17	7	20	7	22	7	25	7	26	7	28	8	29	7	22	380	15.8	8
„ 5.	7	21	6	23	6	22	6	19	7	17	5	22	6	20	7	19	7	21	7	25	7	30	7	27	6	29	7	27	7	26	7	26	8	28	7	26	7	27	7	28	7	26	7	28	8	31	8	32	600	25.0	7
„ 6.	8	33	7	29	7	32	7	28	7	24	7	22	6	22	6	24	5	25	7	23	7	24	6	24	7	22	8	21	8	20	9	20	8	20	8	20	7	18	7	19	8	21	7	17	7	20	7	20	548	22.8	7
„ 7.	7	20	7	22	7	21	6	25	7	24	7	28	7	23	6	26	6	24	6	21	7	19	8	18	10	16	9	14	9	12	9	11	9	14	9	14	7	13	7	14	7	18	7	17	7	21	7	20	455	19.0	7
„ 8.	7	21	7	19	7	21	7	26	7	24	6	19	7	23	7	25	7	27	8	23	7	24	9	22	10	21	10	19	9	22	9	18	8	21	7	18	7	18	7	17	7	15	7	17	7	22	6	21	503	21.0	7
„ 9.	6	17	5	18	5	13	5	14	5	14	5	13	5	14	5	14	3	15	6	21	8	21	9	19	10	18	10	21	9	21	8	22	8	17	10	11	9	11	9	10	7	9	7	10	7	10	7	12	365	15.2	7
„ 10.	7	14	7	15	7	16	7	15	7	15	7	15	7	13	6	14	8	12	9	13	9	16	9	17	9	15	9	15	9	14	8	14	9	12	10	12	9	12	9	9	7	12	7	13	7	14	7	13	330	13.7	8
„ 11.	7	16	7	19	7	15	7	18	7	22	7	20	7	16	6	16	8	14	10	14	10	20	10	21	9	22	10	21	10	20	9	21	8	19	8	16	7	17	7	17	7	22	8	21	7	21	7	20	448	18.7	8
„ 12.	8	22	7	22	7	23	6	23	7	24	7	25	5	20	6	24	7	28	6	25	7	22	7	25	7	18	9	18	6	22	7	22	7	26	6	22	7	21	8	22	7	24	7	22	7	25	7	24	549	22.9	7
„ 13.	7	25	7	28	7	26	7	23	7	26	6	27	7	25	7	24	7	32	7	27	9	28	9	24	10	24	9	23	9	21	9	22	8	19	7	15	7	17	8	20	8	19	7	14	7	16	7	15	540	22.5	8
„ 14.	7	16	7	16	7	16	7	12	6	15	7	19	7	17	7	16	7	20	7	20	7	22	8	19	9	20	10	21	8	17	9	16	10	13	10	11	7	9	7	10	7	11	6	12	7	13	6	13	374	15.6	8
„ 15.	6	15	6	14	7	13	6	14	7	15	7	17	7	18	7	21	6	19	7	21	7	21	7	22	7	25	7	23	8	22	9	18	7	20	8	21	8	20	8	20	7	20	7	23	7	19	7	24	465	19.4	7
„ 16.	7	23	7	24	7	24	6	20	7	24	7	20	7	17	7	20	7	20	7	20	7	18	7	14	7	12	7	14	8	16	9	14	9	17	9	15	8	14	8	16	7	13	8	13	8	11	6	10	409	17.0	7
„ 17.	9	8	5	4	7	7	7	6	7	7	7	9	7	10	7	10	7	13	8	12	9	14	8	16	9	17	9	14	7	13	8	16	7	11	7	11	9	9	9	10	9	10	9	8	9	11	8	8	254	10.6	8
„ 18.	7	6	8	5	8	4	8	3	...	1	...	1	8	2	8	6	8	9	7	12	8	12	8	15	7	16	9	14	9	14	9	15	8	16	10	10	9	9	9	7	9	7	9	9	9	9	7	7	209	8.7	8
„ 19.	7	6	7	7	6	10	6	7	7	11	7	7	5	8	7	11	7	12	8	11	10	13	10	12	10	16	9	13	1	7	3	8	3	9	1	9	2	6	3	6	3	8	4	7	5	11	5	12	227	9.5	6
„ 20.	5	13	7	19	7	17	8	24	8	25	7	25	8	28	9	23	7	27	7	27	7	28	7	27	7	25	7	24	7	23	7	24	7	24	7	22	7	21	8	24	8	24	7	24	7	25	7	24	567	23.6	7
„ 21.	7	26	7	25	8	23	7	24	7	23	7	24	7	22	8	20	8	21	9	21	8	19	9	17	6	17	9	18	8	18	7	17	8	17	8	16	7	12	9	17	8	14	8	13	7	18	8	11	453	18.9	8
„ 22.	7	12	7	11	7	12	7	13	7	11	7	13	8	16	8	15	8	15	9	16	8	17	8	16	8	17	9	15	8	14	7	14	8	12	8	7	7	4	5	3	5	4	8	8	7	10	6	6	281	11.7	8
„ 23.	6	2	6	3	...	1	8	4	8	8	8	15	7	13	7	13	9	12	8	15	7	14	7	13	8	13	7	13	9	10	30	9	32	3	32	3	32	7	1	10	32	14	2	18	1	24	32	16	253	10.5	5
„ 24.	32	13	32	11	1	12	32	11	32	18	1	19	32	13	31	3	32	10	32	14	32	13	32	12	32	15	32	16	32	8	32	10	1	13	1	11	32	14	1	13	32	13	1	14	1	15	32	16	307	12.8	32
„ 25.	32	13	1	16	1	14	1	11	2	4	2	2	2	6	4	12	5	18	7	17	8	20	9	19	9	19	10	20	10	18	7	15	8	14	7	13	7	12	7	12	7	14	7	15	7	17	7	20	341	14.2	6
„ 26.	7	23	7	25	7	26	6	21	6	21	6	20	5	23	7	22	7	23	6	22	7	20	7	19	8	17	9	16	9	16	9	14	9	17	7	15	8	12	6	13	6	11	6	9	6	8	6	8	421	17.5	7
„ 27.	8	15	8	15	7	13	5	17	4	13	5	10	7	14	7	19	7	23	7	15	8	15	9	17	10	16	9	17	9	20	9	19	9	16	8	14	7	12	9	13	9	16	9	14	9	14	9	15	372	15.5	8
„ 28.	8	14	8	13	8	15	8	16	9	20	8	17	8	15	8	13	9	14	9	12	8	18	9	18	8	16	9	16	7	14	8	14	8	16	8	13	7	14	8	16	8	15	9	16	8	16	8	16	367	15.3	8
„ 29.	9	12	7	8	7	9	12	11	11	11	9	15	8	14	7	15	8	15	8	16	9	16	9	18	9	16	8	17	8	11	9	7	8	6	8	6	11	7	8	9	8	2	5	2	29	5	26	6	254	10.6	8
„ 30.	26	5	28	8	27	6	27	7	27	12	28	4	...	1	28	3	26	4	21	4	23	4	23	9	26	10	23	9	24	5	23	7	25	6	27	7	27	7	18	3	20	4	8	8	6	11	7	13	157	6.5	26
„ 31.	7	17	7	23	7	21	7	22	6	15	7	15	1	7	5	16	5	14	5	17	7	22	6	17	7	14	8	21	7	21	7	24	6	18	6	18	6	19	7	17	7	22	7	22	6	27	6	26	455	19.0	6
Sums.	...	448	...	459	...	454	...	459	...	465	...	460	...	435	...	476	...	534	...	537	...	569	...	555	...	539	...	532	...	492	...	483	...	466	...	418	...	399	...	409	...	423	...	431	...	484	...	463	11390	474.6	...
Means.	...	14.5	...	14.8	...	14.6	...	14.8	...	15.0	...	14.8	...	14.0	...	15.4	...	17.2	...	17.3	...	18.4	...	17.9	...	17.4	...	17.2	...	15.9	...	15.6	...	15.0	...	13.5	...	12.9	...	13.2	...	13.6	...	13.9	...	15.6	...	14.9	367.4	15.3	...

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
1895.												
Oct. 1, ...	0	...	...	2	c-cum.	...	7	c-cum. / sm-cum.	WSW	4	c-cum. / sm-cum.	WSW
„ 2, ...	2	c-cum.	W	5	c-cum.	W	0	...	...	2	cum.	...
„ 3, ...	2	cum.	SE	8	cum.	SE	1	cum.	...	3	cum.	...
„ 4, ...	3	cum.	ESE	2	sm-cum. / cum.	...	8	sm-cum. / cum.	ESE	4	c-cum. / cum.	ESE
„ 5, ...	8	cum.	ESE	10	cum.	ESE	10	cum.	E	10	nim.	E
„ 6, ...	7	sm-cum. / cum.	W / E	2	cum.	E	5	cum.	E	2	cum.	E
„ 7, ...	10	cum.	E	10	cum.	E	8	c-cum. / cum.	NNE / E	2	sm-cum.	NNE
„ 8, ...	7	cum.	ENE	7	cum.	ENE	3	c-cum.	NNE	2	sm-cum.	NNE
„ 9, ...	6	c-str. / cum.	ENE	5	c-str. / cum.	ENE	2	sm-cum.	...	1	cum.	E
„ 10, ...	4	cum.	E	6	cum.	E	4	cum.	ENE	4	cum.	NE
„ 11, ...	8	cum.	NE	7	cum.	NE	2	cum.	NE	4	cum.	ENE
„ 12, ...	10	cum.	ENE	8	cum.	ENE	0	...	...	2	cum.	E
„ 13, ...	9	cum.	E	8	cum.	E	7	cum.	E	1	cum.	...
„ 14, ...	9	cum.	E	4	cum.	E	4	cum.	E	1	cum.	E
„ 15, ...	0	...	...	3	cum.	E	7	cum.	ESE	9	cum.	E
„ 16, ...	10	cum.	...	10	cum.	...	10	cum.	ESE	10	cum.	ESE
„ 17, ...	1	cum.	...	8	cum.	...	6	cum.	ESE	3	cum.	ESE
„ 18, ...	2	cum.	...	4	cum.	...	5	c-cum. / cum.	ESE	3	c-cum. / cum.	ESE
„ 19, ...	2	cum.	...	5	cum.	...	8	c-cum. / sm-cum. / cum.	ENE	6	sm-cum. / cum.	E
„ 20, ...	10	cum.	...	10	cum-nim.	...	10	c-cum. / sm-cum. / cum.	E	10	sm-cum. / cum.	E
„ 21, ...	6	cum.	...	10	cum-nim.	...	9	cum-nim.	ESE	10	cum-nim.	E
„ 22, ..	4	cum.	...	5	cum.	...	10	sm-cum. / cum.	E	10	c-cum. / cum.	ESE
„ 23, ...	10	cum-nim.	...	10	cum.	...	10	cum.	E	10	cum.	E
„ 24, ...	10	nim.	...	10	nim.	...	10	nim.	...	10	nim.	...
„ 25, ...	10	str-cum.	NE	2	cum.	...	7	sm-cum.	W	1	sm-cum.	...
„ 26, ...	10	str-cum.	...	10	str-cum.	...	10	R-cum.	E	9	sm-cum.	W
„ 27, ...	10	str.	...	10	str.	...	10	str. / cum.	E	6	sm-cum. / cum.	WNW / E
„ 28, ...	10	cum.	...	10	cum.	...	10	cum.	E	10	str-cum.	...
„ 29, ...	10	cum.	...	10	str-cum.	...	9	str. / cum.	SE	7	c-cum. / cum.	W / ..
„ 30, ...	7	c-str. / cum.	...	10	str-cum.	...	10	str-cum.	NNE	10	str-cum.	...
„ 31, ...	10	cum.	NE	10	cum.	NE	10	nim.	E	10	nim.	E
Means,...	6.7	...	...	7.1	...	...	6.8	...	...	5.7	...	...

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	
1895.													
Oct. 1,...	2	sm-cum.	...	3	sm-cum.	...	7	sm-cum.	WSW	7	sm-cum.	WSW	4.0
„ 2,...	1	cum.	...	8	cum.	...	0	...	...	0	...	...	2.2
„ 3,...	8	sm-cum. / cum.	ESE	5	sm-cum.	W	0	...	...	9	sm-cum.	WNW	4.5
„ 4,...	8	c-cum. / cum.	ESE	7	c-cum. / cum.	E	8	c-str. / cum.	WNW / E	8	c-cum. / cum.	W / E	6.0
„ 5,...	10	cum.	E	9	cum.	E	7	cum.	E	7	sm-cum. / cum.	E	8.9
„ 6,...	0	...	...	1	cum.	ENE	1	cum.	ENE	10	cum.	ENE	3.5
„ 7,...	7	sm-cum.	NNE	1	sm-cum.	...	1	sm-cum.	...	10	cum.	...	6.1
„ 8,...	1	c-cum.	...	2	sm-cum.	NNE	1	cum.	...	2	cum.	ENE	3.1
„ 9,...	1	cum.	...	3	sm-cum.	ENE	4	c-cum.	...	10	cum.	...	4.0
„ 10,...	1	sm-cum.	...	5	c-cum. / cum.	...	0	...	...	3	cum.	...	3.4
„ 11,...	1	cum.	...	1	cum.	...	1	cum.	...	1	cum.	...	3.1
„ 12,...	5	cum.	E	0	...	...	0	...	...	1	cum.	...	3.3
„ 13,...	0	...	...	0	...	...	1	cum.	...	7	cum.	...	4.1
„ 14,...	0	...	...	0	...	...	0	...	...	0	...	...	2.2
„ 15,...	9	cum.	E	2	c-cum. / cum.	E	1	cum.	...	1	cum.	...	4.0
„ 16,...	9	R-cum.	SE	1	cum.	...	0	...	...	1	cum.	...	6.4
„ 17,...	3	cum.	ESE	2	c-cum. / cum.	ESE	0	...	...	0	...	...	2.9
„ 18,...	3	c-cum. / cum.	ESE	0	...	...	2	c-cum.	...	8	cum.	...	3.4
„ 19,...	4	c-cum. / cum.	E	5	c-cum. / sm-cum. / cum.	.. / E / E	9	str-cum.	...	8	cum.	E	5.9
„ 20,...	8	sm-cum. / cum.	E	8	cum.	E	7	cum-nim.	E	9	str-cum.	E	9.0
„ 21,...	10	cum-nim.	E	10	cum-nim.	E	5	cum.	E	0	...	...	7.5
„ 22,...	9	c-cum. / cum.	SE	10	str. / cum.	...	10	cum-nim.	...	10	str-cum.	...	8.5
„ 23,...	10	nim.	E	10	nim.	E	10	nim.	...	10	nim.	...	10.0
„ 24,...	7	c-cum.	W	9	sm-cum.	W	7	c-cum. / cum.	ENE	8	cum.	ENE	8.9
„ 25,...	3	sm-cum. / cum.	...	9	sm-cum.	W	1	cum.	...	10	str-cum.	ENE	5.4
„ 26,...	4	c-cum. / sm-cum.	W	0	...	...	9	sm-cum.	W	2	sm-cum. / cum.	E	6.8
„ 27,...	8	sm-cum. / cum.	E	2	sm-cum.	...	8	sm-cum. / cum.	NNW / ESE	10	str-cum.	...	8.0
„ 28,...	9	str. / cum.	SSE	10	str-cum.	SE	10	cum.	...	10	str-cum.	...	9.9
„ 29,...	10	sm-cum. / cum.	...	9	c-cum. / sm-cum. / cum.	.. / N / ..	9	c-str. / cum.	E	1	c-cum.	...	8.1
„ 30,...	9	str-cum.	...	9	c-cum. / cum.	N	10	c-str. / c-cum.	...	10	R-cum.	E	9.4
„ 31,...	10	cum-nim.	ENE	10	nim.	ENE	10	str-cum.	ENE	9	cum.	E	9.9
Means,...	5.5	...	...	4.9	...	...	4.5	...	...	5.9	...	...	5.9

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF OCTOBER, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	3.3	12.9	0.4	0.2	+ 2.9	+ 12.7	E 13° N
2 „	4.2	13.0	0.2	0.2	4.0	12.8	E 17° N
3 „	3.8	13.0	0.2	0.2	3.6	12.8	E 16° N
4 „	4.7	12.5	0.4	0.2	4.3	12.3	E 19° N
5 „	4.3	13.0	0.5	0.3	3.8	12.7	E 17° N
6 „	4.4	13.3	0.1	0.1	4.3	13.2	E 18° N
7 „	4.0	12.5	0.0	0.0	4.0	12.5	E 18° N
8 „	4.1	14.0	0.2	0.1	3.9	13.9	E 16° N
9 „	4.2	15.6	0.3	0.2	3.9	15.4	E 14° N
10 „	3.5	16.0	0.7	0.1	2.8	15.9	E 10° N
11 „	2.4	17.2	1.1	0.1	1.3	17.1	E 4° N
Noon.	2.0	16.7	1.7	0.3	+ 0.3	16.4	E 1° N
1 p.	2.0	16.0	2.3	0.4	− 0.3	15.6	E 1° S
2 „	1.1	15.9	2.7	0.4	1.6	15.5	E 6° S
3 „	1.3	15.0	1.7	0.3	− 0.4	14.7	E 1° S
4 „	1.8	14.4	1.4	0.5	+ 0.4	13.9	E 1° N
5 „	1.6	13.9	1.1	0.2	0.5	13.7	E 2° N
6 „	2.2	12.1	1.3	0.2	0.9	11.9	E 5° N
7 „	2.6	11.5	0.8	0.2	1.8	11.3	E 9° N
8 „	2.1	12.1	0.7	0.0	1.4	12.1	E 6° N
9 „	2.7	12.2	0.5	0.1	2.2	12.1	E 10° N
10 „	2.9	12.8	0.6	0.0	2.3	12.8	E 10° N
11 „	3.6	14.0	0.5	0.1	3.1	13.9	E 13° N
Midt.	3.8	13.2	0.4	0.2	+ 3.4	+ 13.0	E 15° N
Means, ...	3.0	13.9	0.8	0.2	+2.20	+13.67	E 9° N

PHENOMENA :—

Solar halo :—on the 22nd.

Lunar halo :—on the 29th and 30th.

Lunar corona :—on the 4th and 8th.

Haze :—on the 2nd, 3rd, 4th, 7th and 29th.

Dew :—on the 1st, 2nd, 3rd, 4th and 17th.

Rainbow :—on the 21st.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF NOVEMBER, 1895.

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,...	29.778	29.781	29.771	29.769	29.767	29.784	29.808	29.826	29.826	29.832	29.824	29.781	29.788	29.767	29.750	29.769	29.788	29.798	29.821	29.842	29.853	29.851	29.852	29.837	29.803
„ 2,...	.842	.837	.833	.824	.829	.844	.877	.906	.924	.917	.918	.909	.900	.870	.858	.862	.860	.885	.917	.921	.926	.924	.930	.915	.884
„ 3,...	.905	.904	.895	.888	.891	.919	.938	.964	.977	.976	.964	.932	.911	.898	.893	.908	.920	.945	.974	30.003	30.015	30.021	30.032	30.043	.947
„ 4,...	30.062	30.059	30.063	30.072	30.073	30.092	30.131	30.160	30.186	30.194	30.177	30.153	30.130	30.113	30.108	30.108	30.118	30.135	30.146	.168	.180	.192	.201	.180	30.133
„ 5,...	.155	.137	.129	.137	.154	.186	.209	.231	.239	.234	.212	.195	.179	.156	.153	.157	.177	.191	.211	.228	.236	.236	.222	.205	.190
„ 6,...	.198	.189	.184	.183	.187	.197	.212	.224	.223	.209	.194	.159	.127	.113	.102	.100	.107	.126	.145	.152	.160	.153	.143	.120	.163
„ 7,...	.104	.089	.072	.067	.067	.087	.098	.113	.119	.110	.086	.053	.009	29.979	29.961	29.948	29.951	29.958	29.980	29.990	29.992	29.999	29.993	29.980	.034
„ 8,...	29.966	29.952	29.943	29.935	29.945	29.952	29.967	29.977	29.981	29.978	29.962	29.925	29.887	.868	.862	.853	.859	.872	.893	.904	.912	.915	.907	.906	29.922
„ 9,...	.888	.879	.871	.876	.884	.910	.928	.922	.924	.913	.890	.859	.838	.823	.814	.832	.841	.865	.900	.917	.921	.931	.927	.899	.885
„ 10,...	.892	.890	.884	.884	.892	.918	.946	.968	.970	.969	.943	.924	.892	.876	.870	.865	.872	.894	.903	.918	.936	.946	.949	.942	.914
„ 11,...	.932	.928	.924	.921	.927	.943	.948	.958	.958	.948	.931	.910	.888	.856	.850	.849	.877	.900	.922	.935	.940	.949	.944	.926	.919
„ 12,...	.922	.908	.907	.903	.906	.928	.949	.966	.971	.962	.944	.920	.891	.871	.866	.879	.896	.912	.939	.950	.958	.970	.965	.968	.927
„ 13,...	.973	.967	.965	.972	.987	30.019	30.027	30.055	30.069	30.059	30.042	30.022	.992	.986	.993	30.002	30.020	30.050	30.070	30.087	30.090	30.096	30.098	30.095	30.031
„ 14,...	30.088	30.088	30.086	30.093	30.107	.131	.146	.166	.186	.188	.171	.151	30.125	30.129	30.113	.109	.131	.140	.155	.156	.178	.186	.161	.161	.139
„ 15,...	.152	.128	.123	.118	.106	.133	.150	.151	.164	.164	.153	.134	.100	.077	.076	.073	.083	.092	.100	.115	.120	.115	.114	.107	.119
„ 16,...	.080	.053	.049	.041	.031	.043	.055	.076	.095	.100	.093	.068	.042	.018	.009	.012	.022	.041	.052	.066	.072	.076	.075	.068	.056
„ 17,...	.055	.042	.028	.018	.024	.037	.053	.073	.087	.086	.071	.048	.007	29.992	29.982	29.992	29.994	.005	.020	.040	.056	.064	.052	.038	.036
„ 18,...	.039	.028	.025	.022	.038	.066	.072	.083	.095	.087	.082	.070	.032	30.020	30.018	30.025	30.033	.042	.057	.072	.080	.082	.073	.082	.055
„ 19,...	.068	.064	.059	.065	.066	.093	.096	.121	.140	.131	.130	.110	.074	.058	.047	.049	.055	.064	.084	.100	.110	.119	.120	.121	.089
„ 20,...	.117	.109	.102	.104	.113	.125	.145	.166	.175	.173	.161	.128	.098	.078	.064	.063	.072	.080	.093	.110	.112	.123	.121	.120	.115
„ 21,...	.119	.105	.111	.120	.126	.139	.156	.174	.183	.171	.148	.122	.093	.071	.052	.039	.050	.057	.071	.075	.099	.100	.088	.081	.106
„ 22,...	.075	.064	.061	.072	.074	.094	.119	.121	.133	.128	.109	.090	.064	.027	.011	.004	.007	.014	.038	.051	.061	.070	.051	.044	.066
„ 23,...	.044	.027	.023	.024	.037	.054	.064	.096	.108	.105	.106	.076	.046	.024	.012	.015	.015	.020	.042	.057	.066	.071	.065	.071	.053
„ 24,...	.065	.067	.058	.053	.058	.079	.110	.122	.136	.126	.107	.070	.038	.018	.007	.010	.020	.029	.048	.056	.061	.050	.051	.043	.062
„ 25,...	.035	.024	.021	.016	.018	.033	.041	.051	.066	.064	.053	.012	29.973	29.952	29.943	29.945	29.940	29.958	29.976	29.979	29.981	29.985	29.974	29.966	.000
„ 26,...	29.940	29.933	29.911	29.911	29.915	29.929	29.935	29.950	29.971	29.969	29.964	29.941	.904	.877	.862	.868	.879	.887	.909	.920	.927	.934	.929	.925	29.920
„ 27,...	.925	.915	.911	.906	.907	.926	.942	.963	.980	.977	.970	.950	.926	.913	.906	.905	.930	.943	.961	.980	.984	.981	.974	.971	.944
„ 28,...	.963	.959	.947	.946	.945	.960	.982	30.004	30.034	30.034	30.038	30.013	.985	.974	.962	.968	.986	.988	30.015	30.044	30.060	30.065	30.059	30.054	.999
„ 29,...	30.048	30.044	30.033	30.027	30.038	30.053	30.085	.101	.115	.111	.102	.090	30.065	30.048	30.047	30.066	30.080	30.093	.122	.137	.155	.156	.165	.174	30.090
„ 30,...	.167	.169	.172	.161	.177	.193	.199	.215	.233	.230	.238	.201	.171	.161	.164	.157	.173	.184	.201	.206	.211	.212	.207	.199	.192
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	. .	...
Means,.....	30.020	30.011	30.005	30.004	30.010	30.029	30.046	30.063	30.076	30.071	30.059	30.034	30.006	29.987	29.979	29.981	29.992	30.006	30.025	30.039	30.048	30.052	30.048	30.041	30.026

TABLE II.

TEMPERATURE FOR THE MONTH OF NOVEMBER, 1895.

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,.....	74.1	73.6	73.7	73.8	73.7	73.9	74.4	74.9	76.2	76.5	77.4	78.2	77.6	78.0	77.6	73.7	74.7	74.5	75.2	74.2	72.5	72.6	71.8	71.1	74.7	78.8	71.1
„ 2,.....	71.8	71.9	71.4	70.6	69.6	68.3	67.6	66.3	66.5	65.7	66.8	67.9	66.6	67.3	66.9	64.0	62.2	60.6	60.1	59.5	58.7	58.9	57.0	58.9	65.2	72.0	57.0
„ 3,.....	58.9	57.6	56.9	57.5	57.5	56.5	57.8	58.8	61.9	62.7	64.9	66.7	68.0	68.1	68.8	66.0	66.0	66.2	62.3	62.0	62.1	59.8	59.1	58.4	61.9	69.1	56.1
„ 4,.....	56.0	56.3	55.6	55.5	54.9	56.0	56.9	58.0	59.9	61.1	62.0	65.0	67.5	68.0	67.2	66.4	65.4	62.3	63.6	63.0	61.7	60.8	60.2	59.9	61.0	69.2	54.2
„ 5,.....	59.0	57.8	57.1	56.7	56.1	55.6	55.8	58.0	60.2	60.1	64.8	64.9	65.8	66.0	66.9	65.0	64.9	60.5	59.4	59.2	58.7	58.4	58.2	57.6	60.3	66.9	54.9
„ 6,.....	57.5	56.3	56.2	55.9	55.9	55.7	57.0	59.6	61.3	64.9	65.6	69.4	69.5	70.1	70.7	69.4	68.7	64.5	62.4	63.3	63.0	62.9	62.4	62.9	62.7	72.1	55.7
„ 7,.....	62.4	62.1	61.7	60.8	60.3	60.6	61.7	65.5	68.1	70.0	72.1	72.9	73.9	75.3	72.3	72.4	69.5	68.0	68.1	68.3	66.8	65.2	64.8	64.8	67.0	77.0	59.1
„ 8,.....	65.4	64.8	64.4	64.5	65.3	66.3	67.0	69.6	72.0	72.1	75.5	75.0	74.9	75.1	73.5	75.3	73.8	70.0	68.3	68.5	68.0	68.6	68.4	69.0	69.8	76.6	64.0
„ 9,.....	69.0	69.4	70.0	70.1	70.2	70.2	71.1	73.7	74.9	77.1	78.7	79.6	79.6	79.0	77.6	76.0	74.8	73.3	73.5	72.6	73.0	72.5	72.0	71.9	73.7	79.9	68.3
„ 10,.....	71.5	71.5	71.0	71.0	71.0	70.6	72.4	73.7	75.3	75.2	77.0	77.8	77.6	77.5	75.4	74.8	73.1	71.7	71.6	71.4	71.4	71.3	71.3	71.3	73.2	79.4	70.2
„ 11,.....	71.1	70.5	69.9	69.7	69.3	69.3	70.0	71.9	73.6	74.2	74.9	73.2	73.0	72.1	71.7	71.9	70.8	70.4	70.4	70.6	70.4	70.0	69.7	69.7	71.2	75.0	69.0
„ 12,.....	68.4	67.2	67.3	68.0	67.9	67.7	67.6	69.7	72.9	76.0	76.7	76.3	73.0	72.4	71.6	71.0	70.0	70.1	69.9	69.5	69.2	69.0	68.7	68.2	70.3	77.9	66.7
„ 13,.....	68.6	67.8	67.5	67.2	66.6	65.4	65.0	68.1	70.7	72.5	73.6	74.9	77.5	76.2	74.7	73.4	70.4	68.5	68.6	68.5	68.2	68.0	67.8	68.1	69.9	77.7	64.9
„ 14,.....	67.1	67.4	67.3	66.8	66.4	66.1	66.0	65.9	65.4	66.2	67.1	66.3	65.0	65.1	65.6	65.1	64.7	63.4	62.9	63.9	63.7	64.2	64.6	64.0	65.4	68.1	61.8
„ 15,.....	64.1	63.5	64.0	63.8	63.0	62.9	62.9	63.8	65.1	66.6	66.6	68.4	68.2	69.6	69.6	68.9	67.4	66.7	66.0	66.7	66.9	67.4	67.7	67.7	66.1	70.8	62.3
„ 16,.....	67.6	67.1	67.4	67.5	67.2	66.7	67.1	67.8	69.6	70.0	71.4	71.8	71.2	71.8	71.6	70.3	69.1	68.6	68.8	68.4	68.4	68.3	68.0	68.3	68.9	73.4	66.0
„ 17,.....	68.3	68.3	68.0	68.0	68.0	67.8	68.7	69.9	70.7	72.6	74.0	73.9	73.0	72.9	71.9	71.8	69.9	69.2	69.3	69.3	69.9	68.9	68.9	68.8	70.1	75.2	67.0
„ 18,.....	68.8	68.8	69.2	69.0	69.4	69.2	69.8	71.1	71.9	74.7	74.9	74.5	74.8	73.5	72.4	71.8	71.0	70.2	69.9	69.7	69.7	69.2	68.6	68.1	70.8	75.8	68.0
„ 19,.....	68.0	67.8	67.7	67.3	67.3	67.6	66.9	68.1	70.4	70.8	72.3	72.2	72.6	71.0	70.7	70.3	68.8	67.9	67.7	67.5	67.7	67.4	67.3	66.7	68.8	73.2	66.0
„ 20,.....	66.8	66.7	65.7	65.2	64.3	64.0	63.9	65.2	67.6	69.0	72.3	71.0	74.3	74.0	72.3	72.3	69.7	67.0	65.8	64.9	64.8	63.4	63.1	61.1	67.3	75.4	61.1
„ 21,.....	60.0	59.0	58.6	57.5	56.3	56.1	57.7	60.6	64.1	63.4	67.1	67.0	69.4	71.2	68.3	68.9	66.0	64.7	64.1	63.4	62.9	61.9	60.5	60.2	62.9	71.7	55.6
„ 22,.....	60.0	58.9	59.2	57.3	58.0	57.6	58.1	61.8	63.5	64.8	68.0	68.4	69.9	70.6	70.0	68.0	66.0	64.4	63.5	62.8	62.1	61.8	61.0	61.6	63.2	72.3	56.8
„ 23,.....	60.7	60.4	61.5	61.2	60.2	60.2	61.6	63.7	64.8	65.2	65.5	65.9	68.1	67.6	66.5	66.0	64.9	63.9	63.4	62.9	63.1	62.9	62.8	62.1	63.5	68.1	59.2
„ 24,.....	61.5	62.6	62.4	62.9	63.2	63.0	63.6	65.2	66.1	69.6	70.3	71.3	68.9	68.6	67.0	67.1	65.6	65.0	64.3	63.4	62.2	62.1	61.5	61.4	64.9	71.3	60.5
„ 25,.....	61.3	60.8	60.8	61.2	61.2	61.7	62.7	67.6	70.1	70.8	73.5	75.0	76.5	73.9	72.5	69.2	67.4	66.3	66.2	66.2	65.8	66.0	65.8	65.7	67.0	76.8	60.0
„ 26,.....	66.5	66.0	66.4	66.6	66.1	66.8	67.6	69.6	70.6	71.0	71.9	74.2	73.5	74.5	73.9	71.7	70.6	70.0	69.0	68.4	68.0	68.0	68.4	68.2	69.5	75.1	65.6
„ 27,.....	67.3	67.1	67.2	66.9	67.0	67.4	68.6	70.1	71.8	72.6	72.9	73.7	73.8	74.4	73.9	72.4	72.0	70.8	70.1	70.2	69.6	69.2	69.5	69.4	70.3	74.9	66.1
„ 28,.....	69.6	69.2	69.0	69.1	69.4	69.6	69.8	71.5	72.8	73.3	75.1	76.7	75.2	76.6	74.1	72.3	70.7	69.5	69.6	69.5	69.4	69.6	69.5	69.6	71.3	77.7	68.4
„ 29,.....	69.3	68.8	68.6	68.3	68.4	68.6	68.7	68.9	70.1	71.3	70.7	71.9	71.8	74.4	72.1	70.3	69.3	68.6	68.6	68.6	68.5	67.6	67.5	67.4	69.5	75.6	67.1
„ 30,.....	66.8	66.4	66.0	66.4	65.8	65.7	66.2	66.7	67.6	68.5	68.6	70.5	70.9	70.6	68.5	68.3	67.6	67.2	66.7	66.4	66.5	66.8	66.4	66.2	67.4	72.3	65.0
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	65.6	65.2	65.1	64.9	64.6	64.6	65.1	66.8	68.5	69.6	71.1	71.8	72.1	72.2	71.2	70.1	68.8	67.5	67.0	66.8	66.4	66.1	65.8	65.6	67.6	74.0	62.9

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF NOVEMBER, 1895.

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, ...	68.8	68.9	68.9	69.0	69.0	69.1	69.8	69.7	70.3	70.3	71.6	71.4	71.6	71.8	72.1	71.7	70.8	71.0	71.0	72.5	71.0	71.5	71.1	69.1	70.5	120.6
" 2, ...	68.9	68.6	68.1	67.0	65.5	63.6	62.4	59.8	59.5	57.9	58.8	59.8	57.4	57.6	57.1	55.6	53.7	52.6	52.4	50.2	50.0	48.8	49.9	49.8	58.1	130.2
" 3, ...	49.1	49.0	47.9	48.0	47.7	45.1	45.7	46.4	47.3	46.7	49.0	50.0	51.1	51.8	52.1	50.6	50.5	50.7	49.1	48.2	47.8	47.2	47.2	47.2	48.6	139.9
" 4, ...	47.2	47.0	47.4	46.8	47.3	47.0	48.1	47.9	48.0	48.2	48.4	51.0	51.1	52.0	50.3	50.3	49.0	48.1	48.5	48.1	47.6	46.8	46.7	46.7	48.3	137.0
" 5, ...	46.2	44.9	45.9	44.7	44.5	43.7	45.0	46.9	48.0	47.1	50.2	51.3	52.0	52.3	52.5	51.0	52.0	48.2	47.5	47.1	46.8	46.5	47.5	47.0	47.9	123.4
" 6, ...	46.9	46.3	45.7	45.5	45.1	44.8	48.1	49.9	51.3	53.3	53.6	57.5	57.0	57.2	57.5	57.0	57.0	54.0	52.1	53.1	52.9	53.0	52.4	52.7	51.8	123.7
" 7, ...	52.7	54.7	54.7	54.7	53.1	52.0	53.7	54.8	56.3	58.1	59.7	60.1	60.5	62.2	62.3	62.0	60.5	61.7	62.0	62.2	61.6	61.2	60.9	61.7	58.5	128.6
" 8, ...	61.5	60.4	60.7	61.7	62.7	62.4	63.1	64.0	65.6	64.3	65.1	65.5	65.2	65.1	65.5	65.0	64.1	63.1	63.5	64.0	64.0	63.9	64.2	64.7	63.7	129.7
" 9, ...	65.2	64.7	65.2	66.6	66.7	66.6	65.2	64.8	65.2	66.2	65.9	66.0	65.4	68.0	67.5	66.6	66.0	67.1	67.0	66.4	66.9	66.8	67.6	67.3	66.3	132.9
" 10, ...	67.4	67.4	67.3	67.1	67.1	67.0	67.8	66.3	66.5	66.3	66.3	67.1	67.0	67.8	67.6	67.4	68.0	67.7	67.5	67.5	67.5	67.6	66.6	66.7	67.2	129.4
" 11, ...	66.5	66.1	65.7	65.5	65.4	65.4	65.6	66.6	66.7	66.0	68.0	66.5	66.0	65.9	66.1	66.2	66.0	65.9	65.5	65.0	64.3	65.0	64.9	64.1	65.8	130.0
" 12, ...	64.2	63.8	62.4	61.4	58.8	58.0	58.0	58.9	59.9	61.2	60.9	64.7	63.5	64.1	64.2	63.8	61.5	61.8	62.0	62.1	62.8	63.0	64.3	61.5	61.9	134.3
" 13, ...	61.3	60.1	59.7	59.5	58.2	58.1	56.2	57.2	58.1	57.3	58.9	59.8	60.7	59.0	60.0	60.6	62.3	62.7	62.3	62.7	62.2	62.5	62.3	61.9	60.2	131.2
" 14, ...	61.4	61.2	60.0	59.3	58.8	58.1	59.1	58.6	58.5	58.3	58.0	57.0	57.2	56.8	57.9	57.2	58.6	57.0	57.1	58.0	57.4	57.3	57.0	57.3	58.2	98.5
" 15, ...	57.9	57.8	57.3	56.8	56.5	56.5	57.0	58.0	57.8	58.7	58.5	59.7	59.8	60.0	59.7	61.1	60.7	61.3	61.2	62.2	62.4	63.0	63.2	62.9	59.6	111.7
" 16, ...	63.3	63.0	62.7	62.5	62.4	62.1	62.0	62.3	63.1	63.2	64.4	64.4	63.5	63.7	63.5	63.7	63.8	63.7	63.9	63.9	64.6	64.7	64.7	64.7	63.5	135.7
" 17, ...	64.5	64.4	64.4	64.7	64.9	64.9	65.4	66.3	66.8	65.9	64.9	65.0	65.1	66.0	65.1	65.0	65.1	65.2	65.3	66.0	65.9	65.4	65.5	65.2	65.3	129.7
" 18, ...	65.3	65.0	64.7	62.9	62.4	62.0	62.1	62.3	63.3	61.8	63.4	62.5	63.0	63.1	63.7	64.3	64.0	64.2	64.0	63.9	63.9	64.0	63.4	63.5	63.4	127.6
" 19, ...	63.1	62.9	62.5	62.6	61.6	61.6	61.3	62.2	62.8	62.1	63.0	62.2	63.0	62.8	63.2	62.0	62.0	62.1	62.5	62.2	62.3	62.3	62.6	62.0	62.4	134.5
" 20, ...	61.9	61.8	60.9	59.0	58.2	57.5	57.2	57.6	58.8	59.2	60.3	60.9	62.1	62.2	60.9	61.3	60.0	58.0	57.2	56.8	56.7	56.2	54.5	54.1	58.9	130.5
" 21, ...	53.1	52.9	50.7	50.7	50.7	50.7	50.7	51.8	53.6	53.5	56.0	55.9	57.1	58.0	56.3	56.3	55.1	55.1	55.0	54.5	53.7	52.9	52.0	51.6	53.7	124.6
" 22, ...	51.6	51.6	51.5	51.2	51.3	50.8	50.6	52.8	54.3	55.0	58.0	57.7	58.8	58.7	57.7	56.8	56.5	55.7	54.0	53.9	54.0	53.9	54.4	54.4	54.4	124.7
" 23, ...	53.1	53.4	53.9	54.4	54.2	54.1	54.3	55.7	56.6	57.3	57.7	57.6	58.9	59.7	59.3	60.0	59.0	58.5	59.0	58.1	58.5	58.2	58.3	58.7	57.0	121.3
" 24, ...	58.6	58.6	58.3	58.4	58.8	58.4	58.1	59.6	60.0	60.3	61.0	61.3	61.0	61.1	60.2	59.7	59.7	60.0	59.9	59.1	58.7	58.1	59.7	59.2	59.5	124.2
" 25, ...	59.2	58.6	58.7	59.2	59.3	59.2	59.6	62.0	62.2	61.8	61.8	62.9	64.0	64.0	63.8	62.3	61.2	60.8	61.6	60.4	61.6	61.8	62.3	62.8	61.3	125.8
" 26, ...	63.5	63.6	63.5	63.6	63.0	63.2	62.9	61.6	61.7	61.2	63.0	64.1	63.5	64.0	64.9	65.5	64.9	64.3	64.0	64.2	65.6	66.4	66.6	66.8	64.0	123.8
" 27, ...	66.4	66.2	66.4	66.1	66.2	66.3	66.6	67.0	67.1	67.3	68.5	68.2	68.7	68.8	68.9	67.8	67.5	67.5	67.6	67.2	66.8	66.6	66.7	66.8	67.2	128.6
" 28, ...	66.8	66.7	66.7	66.9	67.1	67.2	67.7	68.0	68.3	67.8	68.1	68.7	68.7	69.2	68.1	67.8	67.7	67.4	67.5	67.1	67.2	66.9	66.9	66.7	67.5	141.8
" 29, ...	66.6	66.5	66.7	66.5	66.7	66.7	66.8	66.9	67.8	67.2	66.7	67.5	67.5	68.1	67.1	66.6	65.7	65.3	65.2	65.1	65.0	64.7	64.2	63.8	66.3	134.2
" 30, ...	63.2	62.5	62.4	61.9	61.7	61.8	61.7	62.3	62.6	62.4	62.9	63.7	63.7	63.9	62.9	62.9	62.3	62.3	62.2	62.2	62.7	62.6	61.9	61.7	62.5	130.1
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Means, ...	60.2	60.0	59.7	59.5	59.2	58.8	59.1	59.6	60.3	60.2	61.1	61.7	61.8	62.2	61.9	61.6	61.2	60.8	60.6	60.5	60.4	60.3	60.3	60.1	60.5	127.9

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF NOVEMBER, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	70	0.461	Nov. 1,.....	80	0.691
2 „	71	.459	„ 2,.....	63	.391
3 „	70	.451	„ 3,.....	31	.169
4 „	69	.448	„ 4,.....	32	.172
5 „	69	.442	„ 5,.....	32	.171
6 „	68	.429	„ 6,.....	42	.242
7 „	67	.432	„ 7,.....	57	.379
8 „	62	.425	„ 8,.....	70	.510
9 „	58	.425	„ 9,.....	65	.548
10 „	53	.407	„ 10,.....	72	.588
11 „	52	.416	„ 11,.....	73	.564
Noon.	53	.427	„ 12,.....	59	.443
1 p.	51	.424	„ 13,.....	53	.391
2 „	53	.437	„ 14,.....	62	.392
3 „	55	.440	„ 15,.....	66	.426
4 „	58	.445	„ 16,.....	73	.515
5 „	62	.449	„ 17,.....	76	.561
6 „	65	.454	„ 18,.....	64	.486
7 „	66	.454	„ 19,.....	67	.479
8 „	67	.454	„ 20,.....	58	.388
9 „	67	.456	„ 21,.....	51	.293
10 „	69	.456	„ 22,.....	53	.309
11 „	70	.461	„ 23,.....	65	.380
Midt.	70	.457	„ 24,.....	70	.438
			„ 25,.....	70	.468
			„ 26,.....	73	.524
			„ 27,.....	85	.626
			„ 28,.....	82	.624
			„ 29,.....	84	.604
			„ 30,.....	75	.500
			.....	...	...
Means,.....	63	0.442	Means.	63	0.442

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.
1895.														
Nov. 1,.....	...	...	...	...	...	...	...	...	0.1	...	...	...	...	0.1
„ 2,.....	...	...	...	...	...	0.1	0.3	0.7	0.8	0.4	...	...	...	2.3
„ 3,.....	...	0.6	0.6	1.0	0.7	0.3	0.9	1.0	0.1	0.8	0.9	0.3	...	7.2
„ 4,.....	...	0.7	1.0	1.0	1.0	0.9	0.4	1.0	0.6	0.4	...	...	...	7.0
„ 5,.....	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	10.4
„ 6,.....	...	0.7	0.7	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	...	9.6
„ 7,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.0
„ 8,.....	...	...	0.1	0.7	0.9	1.0	1.0	1.0	0.1	0.1	0.6	0.7	...	6.2
„ 9,.....	...	...	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	...	8.0
„ 10,.....	...	0.3	0.3	...	...	...	...	0.2	...	...	...	...	...	0.8
„ 11,.....	...	0.1	1.0	1.0	1.0	1.0	0.8	1.0	1.0	0.8	0.8	...	...	8.5
„ 12,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.4	...	...	8.7
„ 13,.....	...	...	0.7	0.6	0.9	1.0	1.0	1.0	1.0	1.0	0.9	0.5	...	8.6
„ 14,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	0.6	0.7	0.5	0.3	0.1	0.2	...	...	...	...	2.4
„ 17,.....	...	...	0.3	...	0.3	1.0	1.0	0.9	0.9	0.9	1.0	0.4	...	6.7
„ 18,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.1	...	9.5
„ 19,.....	...	...	0.5	0.8	0.5	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	8.1
„ 20,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.8
„ 21,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.2
„ 22,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.6	...	10.2
„ 23,.....	...	0.2	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	...	9.5
„ 24,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 25,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9	1.0	0.3	...	9.5
„ 26,.....	...	...	0.4	0.4	0.1	0.7	1.0	1.0	1.0	0.5	0.7	0.3	...	6.1
„ 27,.....	...	...	...	...	...	...	0.1	0.1	0.5	0.5	...	...	...	1.2
„ 28,.....	...	...	...	...	...	0.4	0.3	0.9	0.9	0.4	0.2	...	...	3.1
„ 29,.....	...	...	...	0.3	0.2	...	...	...	0.6	...	...	...	...	1.1
„ 30,.....	...	...	...	...	0.1	0.4	0.3	0.4	...	...	...	...	...	1.2
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,.....	...	7.1	15.9	17.9	18.4	20.3	20.4	22.3	20.8	18.4	16.8	7.4	...	185.7

TABLE VI.

RAINFALL FOR THE MONTH OF NOVEMBER, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.020	...	...	...	0.080	0.120	0.005	0.005	...	0.230	2
" 2,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 3,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 4,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 5,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 8,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 10,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.015	0.010	...	...	...	...	...	0.025	3
" 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.015	...	...	...	...	...	0.020	2
" 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 24,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 27,	0.010	0.015	0.005	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.005	0.005	...
" 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.045	6
" 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
" 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.010	0.015	0.005	0.005	0.005	0.005	...	...	...	...	...	...	...	...	...	0.020	...	0.020	0.025	0.080	0.120	0.005	0.005	0.005	0.325	13

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF NOVEMBER, 1895.

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	6	29	6	26	7	28	6	24	7	27	7	18	6	17	7	24	6	24	8	28	8	21	5	23	7	22	9	19	10	17	8	25	5	16	8	16	5	15	7	22	8	14	10	9	6	4	32	11	479	20.0	7
" 2	32	11	1	9	32	10	32	9	31	11	31	12	31	10	31	9	30	10	30	18	31	15	30	15	29	17	29	18	29	22	30	19	30	15	30	21	30	21	28	20	31	24	31	26	32	21	32	22	385	16.0	30
" 3	31	19	31	22	30	23	32	16	32	19	32	14	32	19	1	17	30	9	32	9	32	13	32	19	32	20	32	15	32	11	32	12	32	14	32	13	32	6	30	5	3	7	1	14	1	14	2	10	340	14.2	32
" 4	2	4	32	12	1	10	32	12	32	8	32	19	31	9	31	14	32	29	2	28	32	29	1	20	1	23	2	22	1	26	1	16	32	11	32	11	1	24	2	20	3	16	4	12	3	15	1	31	421	17.5	1
" 5	1	35	1	38	1	38	1	37	1	32	1	30	1	24	1	23	1	25	32	25	32	18	1	14	1	12	32	11	7	8	32	10	2	8	1	9	32	8	1	6	1	7	32	11	32	16	32	16	461	19.2	1
" 6	1	13	32	19	32	20	32	18	32	16	32	12	32	5	32	12	32	12	1	14	32	14	5	9	1	10	32	9	32	10	1	10	32	11	32	7	2	9	2	8	2	2	1	4	2	4	1	7	255	10.6	1
" 7	21	3	19	5	19	4	18	3	18	3	27	2	...	1	1	8	1	12	7	5	7	7	5	5	2	5	21	4	23	7	23	7	23	4	18	2	12	6	7	4	8	6	...	1	...	0	...	1	105	4.4	2
" 8	...	1	...	0	...	1	...	1	5	6	4	7	5	4	7	4	22	3	23	7	23	8	23	10	24	8	23	7	23	8	23	5	23	5	25	4	...	1	...	1	...	1	26	3	...	1	26	3	99	4.1	24
" 9	...	1	12	6	9	11	9	9	9	9	8	9	6	8	5	13	8	13	7	10	31	6	9	6	14	7	23	10	25	10	24	8	25	4	27	5	9	6	9	7	9	10	7	20	7	20	7	22	230	9.6	8
" 10	7	24	6	16	6	13	6	12	6	6	10	9	10	12	6	14	5	12	5	8	2	4	8	10	10	9	7	11	9	12	10	15	9	16	9	14	9	16	9	16	7	14	7	16	7	22	7	20	321	13.4	8
" 11	7	25	7	21	7	21	7	21	7	18	7	16	5	11	4	9	5	14	7	14	10	20	10	21	9	21	10	21	9	27	8	29	7	21	7	19	7	22	7	22	6	18	7	17	6	16	6	14	458	19.1	7
" 12	6	7	3	2	1	6	32	10	32	12	1	13	2	7	2	9	1	6	32	10	6	14	9	16	10	21	10	19	9	22	9	20	7	23	7	22	7	20	7	21	7	20	7	18	7	22	7	24	364	15.2	7
" 13	5	23	7	20	6	16	5	12	2	8	2	11	32	15	32	16	1	12	5	12	3	19	4	15	4	14	4	17	8	23	7	23	7	19	6	19	6	21	6	21	6	22	6	22	7	24	6	22	426	17.8	5
" 14	6	20	5	14	4	14	4	13	4	13	4	14	7	24	7	33	6	27	6	24	7	20	7	27	7	19	5	12	5	14	5	11	5	7	3	8	3	5	5	11	5	12	3	9	3	12	7	16	379	15.8	6
" 15	6	21	6	16	6	19	5	16	6	15	6	14	4	9	2	8	4	13	4	15	4	17	6	13	2	8	6	12	8	12	9	12	8	13	8	17	7	16	7	15	7	16	7	20	5	13	5	11	341	14.2	6
" 16	7	24	7	27	7	22	7	18	7	18	8	19	7	19	7	20	8	19	7	23	8	24	8	20	8	20	8	16	8	17	8	22	8	16	9	15	9	13	8	12	9	11	7	9	8	10	7	7	421	17.5	8
" 17	8	11	7	14	8	17	8	16	7	12	9	11	8	16	7	12	8	11	9	14	10	16	9	18	8	21	9	19	9	18	10	18	10	14	10	15	7	14	7	18	7	16	7	18	7	22	7	21	382	15.9	8
" 18	7	24	7	24	6	27	7	28	6	25	6	25	6	25	7	26	7	21	6	21	7	29	8	23	9	23	10	22	10	23	10	21	7	20	7	21	8	22	7	20	7	23	7	29	7	26	7	27	575	24.0	7
" 19	7	25	7	24	7	25	7	28	7	24	5	16	7	9	5	8	6	12	8	17	9	19	9	20	10	19	10	20	9	20	9	21	9	18	7	16	7	18	7	21	7	21	7	21	7	22	7	21	465	19.4	8
" 20	7	21	6	16	2	8	2	12	1	14	1	21	3	22	2	18	1	20	4	14	5	10	6	8	1	10	29	4	25	4	26	4	31	10	2	13	1	15	32	13	1	10	30	7	32	7	32	3	284	11.8	2
" 21	31	8	32	15	3	17	1	11	2	9	31	5	3	17	1	15	1	16	1	20	1	24	1	15	32	13	32	12	1	12	2	13	1	12	1	9	2	8	1	9	2	12	3	10	1	14	1	18	314	13.1	1
" 22	1	16	1	12	1	13	1	5	1	9	1	6	32	5	1	8	30	8	32	9	32	8	3	5	25	9	24	6	32	10	31	9	32	10	32	8	32	9	2	7	12	3	...	1	13	2	13	2	180	7.5	32
" 23	...	0	...	1	6	5	5	3	32	3	3	4	6	6	5	12	7	18	7	19	8	20	8	16	10	17	9	19	10	21	9	20	9	15	8	12	7	10	6	6	6	6	6	6	6	8	6	4	251	10.5	8
" 24	6	2	6	4	6	6	6	7	6	8	6	7	4	6	4	4	8	5	11	8	10	10	10	13	9	16	9	14	8	16	9	17	10	14	10	12	9	7	12	4	...	1	12	4	...	1	...	0	186	7.7	9
" 25	...	1	...	0	...	0	...	1	...	1	...	0	...	0	12	3	12	5	12	5	11	5	23	7	24	8	25	5	8	9	8	19	8	17	10	14	9	13	7	15	7	14	7	13	10	10	10	10	175	7.3	9
" 26	8	11	7	9	8	7	10	3	10	2	...	0	10	4	10	11	8	13	8	16	8	11	10	11	10	17	10	14	9	14	9	15	10	16	9	15	9	15	7	16	7	17	6	11	7	12	6	12	272	11.3	8
" 27	7	9	7	9	7	10	8	8	8	7	8	5	9	7	9	5	6	7	8	7	7	9	7	12	7	13	8	14	7	15	9	17	8	13	8	10	9	12	8	16	7	18	7	16	8	13	7	13	265	11.0	8
" 28	6	13	9	11	9	12	9	9	9	6	...	0	14	4	...	0	...	1	5	4	6	6	6	8	9	11	10	12	9	16	9	21	9	20	7	22	7	20	7	16	7	17	7	17	7	22	7	23	291	12.1	8
" 29	8	21	9	19	8	24	7	18	8	18	8	20	7	15	8	18	6	16	7	17	8	19	9	16	9	13	9	14	9	20	9	20	7	23	7	21	5	21	7	26	7	38	7	34	7	33	7	35	519	21.6	8
" 30	7	36	7	32	7	29	7	25	7	22	7	23	5	23	5	19	7	24	7	21	7	14	5	15	5	14	7	14	6	15	3	8	2	7	3	5	3	12	5	15	6	22	7	26	7	29	7	29	479	20.0	6
.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	...	458	...	443	...	456	...	405	...	381	...	362	...	353	...	392	...	417	...	442	...	449	...	430	...	440	...	412	...	459	...	467	...	412	...	395	...	405	...	413	...	418	...	424	...	435	...	455	10123	421.8	...
Means,	...	15.3	...	14.8	...	15.2	...	13.5	...	12.7	...	12.1	...	11.8	...	13.1	...	13.9	...	14.7	...	15.0	...	14.3	...	14.7	...	13.7	...	15.3	...	15.6	...	13.7	...	13.2	...	13.5	...	13.8	...	13.9	...	14.1	...	14.5	...	15.2	337.4	14.1	...

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
1895.												
Nov. 1, ...	10	cum.	E	10	str-cum.	...	10	cum-nim.	ENE	10	cum-nim.	E
„ 2, ...	10	cum.	ENE	10	cum.	ENE	10	cum.	ENE	10	str-cum.	E
„ 3, ...	10	c-cum.	W	9	c-cum. / sm-cum.	W	7	sm-cum. / cum.	W / ..	9	sm-cum. / cum.	W / ..
„ 4, ...	0	...	...	3	sm-cum.	W	7	sm-cum.	...	4	sm-cum.	W
„ 5, ...	0	...	...	0	...	...	4	c-cum.	...	0	...	...
„ 6, ...	0	...	...	0	...	...	2	sm-cum.	...	0	...	...
„ 7, ...	0	...	...	0	...	...	7	c-cum. / sm-cum.	WSW	7	c-cum. / sm-cum.	W
„ 8, ...	9	sm-cum.	...	8	sm-cum.	...	10	sm-cum.	...	7	sm-cum.	WSW
„ 9, ...	10	cum.	...	10	cum.	...	8	str-cum.	...	3	c-cum. / cum.	SW
„ 10, ...	5	cum.	E	4	sm-cum.	...	9	c-cum. / sm-cum. / cum.	E	9	sm-cum. / cum.	E
„ 11, ...	9	cum.	...	10	cum.	NNE	7	c-cum. / sm-cum. / cum.	NE	8	c-str. / cum.	...
„ 12, ...	3	cum.	...	4	sm-cum.	...	5	c-cum. / sm-cum.	WSW / ..	2	c-cum.	WSW
„ 13, ...	6	c-str.	...	5	sm-cum.	...	2	sm-cum. / cum.	...	1	c-cum.	...
„ 14, ...	10	nim.	...	10	str.	...	9	str. / cum.	ENE	10	str. / cum.	ENE
„ 15, ...	10	str.	...	10	str.	...	9	cum-nim.	...	10	c-cum. / str.	...
„ 16, ...	10	cum-nim.	E	10	str.	...	9	str. / cum.	ENE	10	sm-cum. / cum.	WSW / E
„ 17, ...	10	str.	...	10	str.	...	8	sm-cum. / cum.	...	8	c-cum. / sm-cum.	WSW / WSW
„ 18, ...	4	cum.	E	0	...	...	0	...	...	1	c-cum.	...
„ 19, ...	0	...	...	0	...	...	1	cum.	...	8	sm-cum.	ENE
„ 20, ...	10	str.	...	10	str.	...	1	cum.	N	1	c-cum.	...
„ 21, ...	0	...	...	0	...	...	0	...	...	0	...	...
„ 22, ...	0	...	...	0	...	...	0	...	...	1	sm-cum.	...
„ 23, ...	0	...	...	0	...	...	2	sm-cum.	...	1	sm-cum.	...
„ 24, ...	1	cum.	...	1	cum.	E	0	...	...	0	...	...
„ 25, ...	0	...	...	0	...	...	0	...	...	1	c-cum.	...
„ 26, ...	6	c-str.	...	6	c-str.	...	6	c-cum. / cum.	SE	8	cum.	SE
„ 27, ...	10	nim.	E	10	nim.	...	10	nim.	...	10	str-cum.	E
„ 28, ...	10	cum.	E	10	str-cum.	...	8	cum.	E	10	str-cum.	ENE
„ 29, ...	10	cum.	E	6	cum.	E	9	nim.	E	10	sm-cum. / cum.	SSW / E
„ 30, ...	10	str-cum.	E	10	str.	...	10	str. / cum.	ENE	9	sm-cum. / cum.	ENE
.....	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	5.8	...	...	5.5	...	...	5.7	...	...	5.6	...	...

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	
1895.													
Nov. 1,...	10	nim.	E	10	nim.	E	10	str-cum.	E	10	nim.	E	10.0
„ 2,...	7	c-str. / cum.	NNE	9	c-str. / cum.	SE / ..	9	str-cum.	...	10	c-str. / sm-cum.	SW	9.4
„ 3,...	8	sm-cum.	W	3	c-cum. / sm-cum.	W	1	sm-cum.	...	0	...	...	5.9
„ 4,...	7	sm-cum.	W	10	sm-cum.	W	1	sm-cum.	...	0	...	...	4.0
„ 5,...	0	...	...	0	...	...	0	...	...	0	...	...	0.5
„ 6,...	0	...	...	0	...	...	0	...	...	0	...	...	0.2
„ 7,...	2	c-cum.	WSW	0	...	...	0	...	...	0	...	...	2.0
„ 8,...	7	c-cum.	WSW	8	sm-cum.	WSW	0	...	...	3	c-str.	...	6.5
„ 9,...	2	sm-cum.	...	7	c-cum. / sm-cum.	...	0	...	...	5	cum.	...	5.6
„ 10,...	8	sm-cum. / cum.	ESE	9	str-cum.	...	10	cum.	...	10	cum.	...	7.9
„ 11,...	8	c-cum.	...	8	c-cum. / cum.	WSW / ..	6	cum.	...	7	cum.	...	7.9
„ 12,...	9	c-str. / sm-cum.	W / ..	8	c-cum.	W	3	cum.	...	3	cum.	...	4.6
„ 13,...	2	c-cum.	...	8	c-cum.	WSW	9	cum.	...	10	cum.	...	5.4
„ 14,...	10	nim.	ENE	10	nim.	...	10	nim.	...	10	str.	...	9.9
„ 15,...	9	nim.	...	10	sm-cum. / str.	W / ..	10	nim.	...	10	str. / cum.	...	9.8
„ 16,...	8	sm-cum. / cum.	WSW / E	9	str.	...	9	str.	...	8	str-cum.	...	9.1
„ 17,...	5	c-cum. / sm-cum. / cum.	.. / W / E	1	sm-cum.	...	4	cum.	...	3	cum.	...	6.1
„ 18,...	0	...	...	8	cum.	NNE	2	cum.	...	0	...	...	1.9
„ 19,...	0	...	...	0	...	...	0	...	...	2	cum.	...	1.4
„ 20,...	2	cum.	N	1	sm-cum.	...	0	...	...	0	...	...	3.1
„ 21,...	0	...	...	0	...	...	0	...	...	0	...	...	0.0
„ 22,...	0	...	...	0	...	...	0	...	...	0	...	...	0.1
„ 23,...	0	...	...	0	...	...	0	...	...	0	...	...	0.4
„ 24,...	0	...	...	0	...	...	0	...	...	0	...	...	0.2
„ 25,...	1	c-cum.	...	1	c-cum.	...	0	...	...	3	c-str. / c-cum.	...	0.8
„ 26,...	1	sm-cum. / cum.	...	2	sm-cum.	E	6	c-str. / cum.	SE	9	str-cum.	ESE	5.5
„ 27,...	10	cum.	E	9	sm-cum. / str-cum.	E	9	cum.	E	4	cum.	E	9.0
„ 28,...	8	sm-cum. / cum.	SSE / ENE	8	sm-cum. / cum.	E	10	cum.	E	10	cum.	E	9.2
„ 29,...	8	sm-cum. / cum.	SSW / ENE	10	sm-cum. / cum.	SSW / ENE	10	cum.	E	10	cum.	E	9.1
„ 30,...	9	sm-cum. / cum.	SSW / ENE	10	sm-cum. / cum.	ENE	10	str-cum.	ENE	10	str-cum.	ENE	9.8
.....	...	...	...	...	...	...	...	...	...	...	...	...	...
Means,...	4.7	...	...	5.3	...	...	4.3	...	...	4.6	...	...	5.2

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF NOVEMBER, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	6.4	11.4	0.1	0.3	+ 6.3	+ 11.1	E 30° N
2 „	6.7	10.3	0.5	0.2	6.2	10.1	E 32° N
3 „	6.9	10.6	0.2	0.4	6.7	10.2	E 33° N
4 „	6.6	8.9	0.3	0.0	6.3	8.9	E 35° N
5 „	6.4	8.0	0.2	0.1	6.2	7.9	E 38° N
6 „	6.6	7.3	0.2	0.2	6.4	7.1	E 42° N
7 „	6.4	7.6	0.4	0.1	6.0	7.5	E 39° N
8 „	7.3	8.1	0.2	0.2	7.1	7.9	E 42° N
9 „	7.5	8.4	0.1	0.4	7.4	8.0	E 43° N
10 „	6.7	10.0	0.4	0.5	6.3	9.5	E 34° N
11 „	6.2	9.8	0.9	0.4	5.3	9.4	E 30° N
Noon.	4.8	10.5	1.1	0.8	3.7	9.7	E 21° N
1 p.	4.8	9.9	1.7	1.1	3.1	8.8	E 20° N
2 „	3.8	9.3	2.1	1.4	1.7	7.9	E 12° N
3 „	3.6	11.2	1.8	1.4	1.8	9.8	E 10° N
4 „	3.5	11.8	1.8	1.1	1.7	10.7	E 9° N
5 „	4.3	10.1	1.0	0.7	3.3	9.4	E 19° N
6 „	4.4	9.7	0.9	0.6	3.5	9.1	E 21° N
7 „	5.3	10.0	0.6	0.3	4.7	9.7	E 26° N
8 „	4.8	11.0	0.2	0.5	4.6	10.5	E 23° N
9 „	4.8	11.7	0.2	0.2	4.6	11.5	E 22° N
10 „	5.0	11.4	0.2	0.4	4.8	11.0	E 24° N
11 „	5.4	11.4	0.2	0.0	5.2	11.4	E 25° N
Midt.	6.4	11.2	0.2	0.1	+ 6.2	+ 11.1	E 29° N
Means,.....	5.6	10.0	0.7	0.5	+4.96	+ 9.51	E 27° N

PHENOMENA :—

Solar halo :—on the 2nd, 11th and 12th.

Lunar halo :—on the 25th.

Lunar corona :—on the 25th and 26th.

Fog :—On the 25th.

Haze :—on the 7th, 8th, 9th, 24th, 26th and 28th.

Dew :—on the 7th, 8th, 23rd, 24th, 26th and 28th.

TABLE I.

BAROMETRIC PRESSURE FOR THE MONTH OF DECEMBER, 1895.

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,...	30.200	30.195	30.186	30.173	30.172	30.178	30.184	30.194	30.214	30.194	30.176	30.150	30.122	30.102	30.101	30.106	30.111	30.129	30.133	30.147	30.145	30.143	30.127	30.117	30.154
„ 2,...	.104	.087	.071	.063	.068	.073	.086	.085	.102	.104	.081	.035	.013	29.982	29.974	29.980	29.982	29.991	.001	.006	.012	.012	.003	29.988	.038
„ 3,...	29.986	29.979	29.969	29.961	29.954	29.965	29.989	29.997	.003	29.990	29.980	29.955	29.917	.910	.910	.914	.923	.934	29.935	29.948	29.963	29.977	29.970	.963	29.958
„ 4,...	.950	.938	.936	.930	.936	.951	.969	.980	29.988	.991	.977	.936	.904	.894	.897	.925	.926	.933	.933	.942	.950	.945	.932	.946	.942
„ 5,...	.921	.919	.916	.903	.913	.914	.944	.944	.948	.961	.947	.925	.888	.858	.852	.855	.870	.873	.880	.894	.894	.887	.878	.857	.902
„ 6,...	.851	.848	.843	.855	.855	.870	.894	.907	.920	.911	.898	.864	.838	.828	.837	.835	.850	.863	.870	.873	.873	.875	.864	.867	.866
„ 7,...	.872	.860	.858	.862	.861	.870	.886	.903	.910	.907	.892	.873	.858	.840	.840	.849	.860	.869	.886	.902	.914	.917	.911	.908	.879
„ 8,...	.906	.895	.895	.887	.882	.895	.924	.946	.960	.968	.944	.922	.895	.881	.878	.886	.895	.917	.930	.931	.941	.939	.933	.927	.916
„ 9,...	.905	.900	.897	.877	.871	.882	.894	.907	.918	.935	.941	.894	.891	.880	.892	.905	.929	.949	.973	.996	30.017	30.023	30.032	30.019	.930
„ 10,...	30.022	30.021	30.016	30.005	30.025	30.036	30.054	30.062	30.084	30.088	30.072	30.042	30.021	30.012	.999	30.018	30.028	30.054	30.072	30.089	.095	.101	.074	.090	30.049
„ 11,...	.078	.077	.071	.069	.081	.099	.102	.108	.126	.130	.137	.097	.064	.036	30.026	.013	.035	.046	.063	.073	.080	.092	.107	.093	.079
„ 12,...	.092	.084	.076	.078	.087	.116	.132	.141	.167	.157	.150	.126	.105	.085	.082	.085	.111	.128	.138	.140	.135	.134	.125	.107	.116
„ 13,...	.105	.095	.081	.069	.070	.077	.093	.117	.131	.119	.113	.085	.054	.036	.033	.033	.057	.071	.087	.109	.116	.120	.107	.114	.087
„ 14,...	.103	.091	.081	.074	.082	.104	.117	.134	.139	.153	.163	.131	.096	.067	.056	.068	.075	.099	.102	.118	.125	.129	.131	.118	.106
„ 15,...	.104	.093	.060	.076	.076	.090	.105	.120	.137	.143	.138	.118	.086	.054	.042	.051	.054	.064	.086	.106	.116	.120	.118	.129	.095
„ 16,...	.124	.116	.111	.105	.114	.131	.140	.156	.164	.157	.142	.109	.081	.053	.031	.031	.036	.059	.066	.090	.103	.109	.107	.109	.102
„ 17,...	.107	.109	.113	.110	.124	.138	.153	.176	.197	.207	.191	.152	.126	.112	.104	.106	.119	.130	.141	.165	.172	.189	.191	.198	.147
„ 18,...	.212	.199	.199	.197	.190	.209	.217	.230	.237	.226	.216	.176	.147	.116	.099	.107	.108	.115	.132	.141	.147	.147	.143	.141	.169
„ 19,...	.141	.143	.125	.127	.127	.137	.139	.148	.150	.147	.146	.115	.084	.058	.050	.046	.041	.044	.044	.058	.058	.060	.055	.054	.096
„ 20,...	.055	.042	.029	.026	.030	.047	.066	.084	.100	.095	.078	.047	.015	.000	29.970	29.971	29.981	.000	.012	.024	.030	.036	.030	.034	.033
„ 21,...	.032	.015	.002	29.998	29.998	.016	.026	.041	.062	.058	.049	.032	.003	29.982	.970	.968	.988	.000	.024	.045	.051	.060	.056	.062	.022
„ 22,...	.049	.061	.053	30.054	30.051	.085	.090	.119	.143	.136	.115	.093	.061	30.034	30.027	30.029	30.044	.051	.075	.094	.103	.098	.109	.107	.078
„ 23,...	.091	.085	.096	.089	.098	.113	.126	.146	.152	.153	.143	.112	.086	.063	.048	.045	.054	.065	.070	.084	.091	.090	.082	.082	.094
„ 24,...	.066	.052	.052	.050	.063	.071	.071	.098	.108	.095	.081	.055	.019	29.996	29.989	29.997	.010	.011	.039	.040	.060	.067	.065	.069	.051
„ 25,...	.045	.045	.043	.025	.046	.055	.075	.102	.119	.123	.121	.085	.062	30.040	30.031	30.044	.050	.059	.070	.081	.085	.083	.087	.080	.069
„ 26,...	.080	.066	.075	.061	.068	.096	.114	.139	.163	.166	.156	.130	.100	.075	.083	.093	.105	.130	.154	.159	.157	.165	.143	.150	.118
„ 27,...	.131	.121	.127	.121	.141	.169	.193	.212	.239	.225	.203	.178	.138	.108	.107	.103	.120	.145	.152	.161	.163	.156	.133	.129	.153
„ 28,...	.130	.129	.114	.120	.122	.145	.153	.183	.211	.208	.187	.171	.140	.112	.105	.120	.124	.131	.147	.161	.170	.172	.155	.146	.148
„ 29,...	.167	.151	.140	.134	.140	.147	.164	.179	.199	.191	.168	.134	.107	.097	.099	.110	.111	.137	.156	.168	.167	.172	.167	.181	.149
„ 30,...	.182	.180	.176	.168	.182	.203	.220	.226	.234	.223	.194	.165	.137	.113	.091	.092	.106	.123	.141	.166	.172	.180	.153	.156	.166
„ 31,...	.151	.153	.131	.127	.116	.132	.160	.179	.182	.170	.154	.120	.089	.069	.052	.048	.063	.074	.084	.099	.102	.104	.079	.092	.114
Means,.....	30.064	30.056	30.050	30.045	30.050	30.065	30.080	30.096	30.110	30.107	30.095	30.065	30.037	30.016	30.009	30.014	30.025	30.039	30.051	30.065	30.071	30.074	30.067	30.066	30.059

TABLE II.

TEMPERATURE FOR THE MONTH OF DECEMBER, 1895.

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,	65.9	65.5	66.1	66.0	65.7	65.4	65.5	67.3	68.5	68.5	68.9	70.4	70.3	69.2	68.6	68.0	66.9	66.8	67.1	66.8	66.7	66.6	66.6	66.6	67.2	71.3	64.3
„ 2,	66.2	66.3	66.2	66.8	65.8	66.4	67.2	67.9	69.6	71.2	72.3	72.5	72.6	73.1	72.0	72.1	69.8	69.1	69.3	69.6	69.0	67.4	67.5	67.6	69.1	73.8	65.1
„ 3,	67.9	68.1	68.5	67.8	68.0	68.0	68.5	72.6	73.7	73.6	76.4	76.5	75.5	74.7	71.8	71.7	69.7	69.8	69.0	68.8	68.3	68.1	68.3	68.4	70.6	76.6	66.7
„ 4,	68.2	67.7	67.8	67.8	67.8	68.1	68.6	70.9	71.3	70.2	71.6	69.8	69.8	70.6	70.4	70.7	69.2	68.0	67.6	67.6	67.2	67.1	67.4	67.5	68.9	72.1	66.6
„ 5,	67.6	67.4	67.3	67.5	66.8	67.0	67.3	67.9	68.7	70.0	73.5	73.1	72.0	72.2	70.8	69.2	68.3	67.7	67.4	67.2	67.0	67.0	67.2	66.6	68.6	74.2	66.0
„ 6,	66.3	66.3	66.8	67.1	67.5	67.5	68.6	69.6	71.6	72.8	74.2	74.9	75.0	77.3	75.8	73.7	72.5	70.8	70.1	69.3	69.5	69.0	68.5	68.6	70.6	77.3	65.6
„ 7,	68.8	68.3	68.4	68.3	67.8	67.3	68.7	71.5	74.7	75.1	74.5	72.7	71.3	70.6	70.1	69.4	68.0	68.5	68.7	68.6	68.7	69.2	69.2	68.9	69.9	76.2	66.4
„ 8,	68.8	68.7	68.3	67.8	67.4	67.6	68.0	68.2	68.3	68.8	69.0	68.9	68.4	67.3	67.2	66.6	65.5	64.6	64.6	64.8	64.7	65.4	65.0	65.3	67.0	69.3	64.2
„ 9,	65.4	65.8	65.4	65.2	65.3	65.1	65.5	66.0	66.6	66.0	64.3	65.1	63.0	61.9	59.6	58.0	56.4	55.2	53.6	52.7	52.4	51.7	50.4	49.4	60.4	66.6	49.4
„ 10,	49.3	48.6	47.6	48.6	47.6	47.8	47.9	50.4	54.9	55.2	59.5	60.0	60.2	59.9	57.7	57.1	56.0	55.4	54.8	54.3	54.1	53.5	52.3	52.3	53.5	61.7	47.0
„ 11,	51.1	51.2	50.7	50.3	50.2	50.4	51.6	52.7	53.6	55.1	56.7	57.3	58.9	59.0	58.3	57.0	55.6	55.2	55.3	55.2	55.1	55.3	55.0	54.6	54.4	59.5	49.5
„ 12,	54.6	54.4	53.9	54.9	54.1	53.7	53.6	53.9	55.6	55.3	56.4	55.8	56.6	55.6	55.0	54.7	53.8	53.3	52.7	52.4	52.9	52.8	52.8	53.1	54.2	57.0	52.1
„ 13,	52.7	52.0	51.2	51.6	51.3	51.1	52.5	55.8	57.6	59.4	61.6	63.2	63.7	63.8	63.9	61.7	61.2	59.2	58.4	57.7	57.5	57.4	55.9	56.1	57.4	64.8	51.1
„ 14,	55.8	55.4	55.2	54.8	54.6	54.3	54.1	55.3	58.7	60.0	60.1	60.6	61.4	60.9	60.7	60.5	58.5	58.6	57.4	57.0	56.1	56.4	56.0	56.0	57.4	62.1	53.0
„ 15,	54.9	57.7	58.0	58.1	57.5	57.7	57.2	57.9	58.8	59.3	59.4	59.8	60.6	61.5	61.7	60.6	58.9	58.7	58.4	58.3	58.2	57.9	57.7	58.3	58.6	62.6	54.6
„ 16,	58.0	58.0	58.1	57.8	57.6	57.2	57.9	58.7	61.6	63.0	63.7	67.2	67.1	67.3	66.4	66.4	63.7	62.9	61.8	61.2	60.0	61.8	62.0	61.3	61.7	69.3	56.6
„ 17,	60.3	60.2	59.0	59.2	58.9	57.4	57.6	57.9	61.9	63.4	64.8	66.5	67.0	69.0	67.1	66.5	64.7	62.3	62.5	61.3	60.0	58.9	58.0	57.4	61.7	69.4	56.0
„ 18,	57.0	56.5	56.0	55.2	54.6	54.3	54.5	58.2	61.5	62.1	64.2	63.7	63.0	61.9	63.7	61.2	60.3	59.7	60.3	60.4	60.3	60.5	60.3	60.1	59.6	65.5	54.2
„ 19,	59.8	59.9	59.4	58.4	57.9	57.3	56.7	59.5	62.1	62.1	64.0	64.2	63.5	62.5	62.0	62.1	61.6	60.2	60.7	60.5	60.5	60.3	60.6	60.4	60.7	64.4	56.2
„ 20,	60.4	60.5	59.9	60.0	60.4	60.4	61.7	64.6	65.6	66.0	68.2	67.0	67.9	68.5	68.0	66.7	65.5	63.4	63.5	62.7	61.6	61.1	60.3	60.3	63.5	70.1	59.0
„ 21,	59.7	60.1	59.9	62.0	63.6	64.3	64.5	66.6	70.1	71.1	72.0	69.5	67.9	67.8	65.9	65.0	64.7	63.9	63.3	62.8	62.7	62.5	62.4	62.4	64.8	73.7	59.0
„ 22,	61.6	61.8	60.8	60.7	60.6	60.4	60.2	61.2	61.2	64.1	66.3	65.0	64.5	64.6	64.4	63.8	62.8	63.3	63.2	62.2	62.3	61.9	62.2	62.3	62.6	66.8	59.5
„ 23,	61.8	61.6	60.9	60.8	60.3	60.4	60.1	61.7	63.6	63.8	64.5	63.7	64.3	64.2	63.7	63.3	62.3	61.5	61.8	62.2	62.3	62.2	62.2	61.8	62.3	64.9	59.7
„ 24,	61.7	61.4	61.2	61.1	61.0	61.1	61.6	61.9	62.8	63.4	61.0	60.3	61.6	62.7	64.6	64.2	62.0	61.9	62.3	63.4	62.5	62.2	62.3	62.4	62.1	64.8	60.3
„ 25,	63.3	63.5	63.9	63.7	63.9	64.0	64.0	64.1	65.6	67.6	68.4	70.0	71.0	71.9	71.8	72.0	72.5	70.6	70.4	69.9	69.4	69.0	68.2	68.1	67.8	72.7	61.8
„ 26,	68.6	66.7	66.3	66.2	65.9	65.6	66.0	66.6	67.5	69.6	70.0	69.6	68.9	67.0	67.9	66.7	65.6	65.3	66.1	65.9	65.6	65.4	65.3	65.8	66.8	70.7	64.7
„ 27,	66.6	65.7	65.4	65.5	66.0	67.0	65.9	67.6	69.2	70.7	71.0	73.4	73.7	73.5	74.4	74.0	70.2	68.4	69.5	68.3	67.0	65.2	63.8	63.3	68.6	75.4	63.3
„ 28,	63.4	63.0	62.9	61.8	61.6	61.3	60.7	61.9	63.7	63.7	65.6	64.8	63.1	62.6	63.1	62.6	61.7	61.5	61.8	61.4	61.9	61.6	61.5	61.2	62.4	66.5	60.5
„ 29,	60.9	60.8	60.3	59.8	59.1	58.9	59.0	59.3	61.5	62.7	63.0	63.1	62.8	62.0	61.7	60.9	60.1	60.9	61.2	61.3	60.9	60.8	60.6	60.6	60.9	65.3	58.1
„ 30,	60.6	60.3	59.8	58.6	58.2	57.6	57.3	60.4	62.6	65.1	64.9	65.0	64.7	63.0	62.6	62.5	62.4	61.2	61.3	61.9	61.5	61.7	61.4	61.2	61.5	66.8	57.0
„ 31,	61.0	60.6	59.7	59.4	59.4	59.3	59.1	62.5	65.1	66.5	66.6	69.7	69.0	69.7	68.2	66.7	64.5	62.6	62.3	61.8	61.8	61.9	61.2	60.2	63.3	70.6	58.6
Means,	61.6	61.4	61.1	61.1	60.9	60.8	61.0	62.6	64.4	65.3	66.3	66.6	66.4	66.3	65.8	65.0	63.7	62.9	62.8	62.5	62.2	62.0	61.7	61.6	63.2	68.5	58.9

TABLE III.

TEMPERATURE OF EVAPORATION AND RADIATION FOR THE MONTH OF DECEMBER, 1895.

Date.	1 a.	2 a.	3 a.	4 a.	5 a.	6 a.	7 a.	8 a.	9 a.	10 a.	11 a.	Noon.	1 p.	2 p.	3 p.	4 p.	5 p.	6 p.	7 p.	8 p.	9 p.	10 p.	11 p.	Midt.	Means.	Solar Max.
Dec. 1, ...	61.7	61.7	61.5	61.7	61.3	61.2	61.0	62.2	62.1	61.9	62.0	62.9	63.1	63.0	61.7	63.0	63.1	62.9	63.3	63.5	63.0	63.4	62.9	63.0	62.4	128.9
„ 2, ...	62.8	62.8	62.8	62.8	62.8	62.9	62.6	63.0	63.3	64.1	65.9	65.1	65.1	65.3	65.1	65.5	64.3	64.2	64.0	63.2	63.4	64.6	64.7	64.7	64.0	126.3
„ 3, ...	64.8	64.5	64.3	63.8	63.9	64.3	64.4	65.6	65.9	66.2	66.9	67.1	67.0	66.9	66.0	65.9	65.3	65.7	65.3	65.2	65.0	64.6	65.2	65.1	65.4	129.8
„ 4, ...	65.2	65.3	65.6	65.4	65.6	65.9	66.0	66.7	65.7	65.2	65.8	64.2	63.5	64.3	63.8	63.4	63.9	63.7	64.1	64.2	64.0	64.8	64.6	64.4	64.8	125.5
„ 5, ...	64.4	64.1	64.1	63.8	63.8	63.9	64.0	64.1	63.8	64.3	66.4	66.7	66.5	66.6	66.2	65.4	65.0	64.5	64.4	64.6	64.7	65.1	65.4	65.4	64.9	131.4
„ 6, ...	64.7	64.5	65.1	65.4	65.8	65.9	66.0	65.8	66.8	67.4	68.2	68.5	69.2	70.4	69.0	69.0	68.0	68.0	68.2	68.0	68.1	67.5	67.3	67.5	67.3	136.3
„ 7, ...	67.5	67.0	67.1	67.1	66.6	66.4	67.2	68.0	69.9	69.1	69.0	68.7	67.8	67.2	66.7	66.7	65.2	65.8	66.0	65.8	66.0	66.1	66.2	65.9	67.0	139.6
„ 8, ...	66.1	65.7	65.7	64.9	64.3	64.4	63.5	63.6	64.2	64.9	64.7	64.5	64.2	64.6	64.7	64.1	63.1	62.0	61.8	61.8	62.2	62.5	62.6	62.1	63.8	80.7
„ 9, ...	61.7	61.7	61.7	61.7	61.5	61.2	61.0	61.1	61.8	61.3	60.2	60.5	60.0	58.7	56.5	54.3	52.1	51.2	49.8	49.9	49.9	49.8	48.7	47.7	56.8	82.7
„ 10, ...	46.7	46.8	45.9	45.9	44.7	43.7	43.1	45.2	48.7	48.8	52.8	52.6	51.7	51.1	49.5	48.4	48.2	47.9	47.8	47.7	46.9	46.4	45.5	44.7	47.5	123.8
„ 11, ...	44.7	44.7	43.7	43.9	44.0	44.6	45.0	46.1	46.7	48.1	48.2	48.6	50.0	50.0	49.6	47.2	46.4	45.0	45.1	45.0	45.1	45.9	45.6	45.7	46.2	109.3
„ 12, ...	45.9	44.7	44.7	44.7	44.1	43.4	44.1	43.2	46.1	46.0	46.5	44.7	43.4	42.3	41.3	41.9	40.9	42.2	41.9	42.1	42.4	42.1	41.5	41.5	43.4	86.9
„ 13, ...	41.2	39.9	39.9	40.0	39.7	39.7	41.4	43.1	43.3	45.2	46.2	47.0	48.2	47.3	48.1	45.7	45.9	45.6	45.4	45.0	45.1	44.3	42.7	42.6	43.9	119.4
„ 14, ...	42.7	42.7	41.1	41.9	41.7	42.7	43.5	44.0	46.3	47.8	48.4	48.9	50.0	49.8	49.1	49.9	47.0	47.6	47.3	47.7	46.7	44.9	45.5	44.9	45.9	100.8
„ 15, ...	44.9	48.7	49.7	49.7	49.1	48.7	48.8	49.7	50.1	50.2	50.0	50.4	50.6	50.8	50.7	49.6	49.1	48.3	47.2	47.1	47.5	47.3	47.1	47.5	48.9	89.1
„ 16, ...	47.3	47.2	46.7	46.2	45.7	45.5	47.0	48.3	49.8	50.2	50.9	54.5	54.1	55.0	54.1	53.0	51.3	51.3	50.3	50.1	49.6	50.0	48.5	49.2	49.8	122.9
„ 17, ...	48.9	49.7	49.3	49.9	50.0	48.2	48.0	48.8	50.2	51.5	52.1	52.8	54.3	54.8	54.2	55.2	55.0	52.7	48.3	47.2	46.5	45.6	45.7	44.1	50.1	119.9
„ 18, ...	43.7	43.3	42.7	42.5	42.5	42.6	43.2	46.6	48.2	48.2	49.0	49.8	50.2	52.0	50.4	52.2	50.4	52.1	52.2	53.3	53.2	52.7	53.6	53.6	48.7	117.1
„ 19, ...	53.7	53.6	53.8	53.8	53.2	52.4	52.2	52.3	55.1	53.8	54.8	55.5	54.9	54.9	55.0	55.0	54.8	54.2	54.0	54.9	55.0	55.0	54.8	54.8	54.2	118.6
„ 20, ...	54.1	53.8	53.8	53.5	53.3	52.8	53.9	55.7	55.6	57.2	57.9	57.6	58.8	59.1	59.1	58.9	58.1	58.1	57.5	57.6	57.5	57.3	56.7	57.8	56.5	122.7
„ 21, ...	57.5	57.0	56.0	54.7	53.9	53.4	53.7	54.2	56.6	56.7	58.0	58.0	58.2	58.0	59.1	59.1	59.1	59.3	58.9	59.0	58.9	58.6	58.2	57.8	57.2	125.4
„ 22, ...	57.2	56.1	56.0	55.6	55.4	55.3	55.1	56.0	56.1	57.7	58.2	58.6	58.0	58.1	58.0	58.0	56.8	57.7	58.1	58.1	58.0	57.9	58.1	57.7	57.2	120.0
„ 23, ...	57.2	57.1	56.8	56.4	56.0	55.8	55.3	56.0	56.9	57.5	57.0	56.9	56.7	56.9	57.7	57.7	57.6	57.4	57.6	58.0	58.0	57.8	57.8	57.6	57.1	118.4
„ 24, ...	57.2	57.2	57.0	56.7	56.6	56.7	56.8	57.3	57.5	58.7	58.1	58.9	59.8	60.7	62.6	61.9	60.8	60.8	60.9	61.6	61.9	61.6	61.7	61.7	59.4	83.9
„ 25, ...	62.0	62.2	62.0	61.4	61.8	61.8	62.0	61.9	62.5	63.7	63.9	63.9	64.4	63.8	63.5	64.0	64.2	64.0	64.1	63.9	63.8	63.5	63.5	63.6	63.1	112.8
„ 26, ...	63.3	63.7	63.4	62.1	61.7	61.5	60.0	58.6	59.6	59.2	59.9	59.8	61.0	60.9	62.0	61.0	61.0	60.8	61.3	61.2	60.8	61.2	61.2	60.7	61.1	132.0
„ 27, ...	60.4	61.0	60.9	61.6	61.5	62.2	63.1	62.7	62.8	63.0	63.0	62.9	62.9	62.1	62.1	61.4	61.4	61.0	58.5	57.1	58.2	57.8	56.1	55.2	60.8	126.5
„ 28, ...	55.6	57.5	58.6	57.6	57.5	57.7	53.7	52.0	54.1	53.2	55.7	56.7	57.7	57.4	57.9	57.0	56.2	56.2	56.3	56.3	56.7	56.8	56.8	56.6	56.3	125.8
„ 29, ...	56.0	55.9	55.8	55.8	55.2	54.9	55.1	54.8	55.0	56.6	57.0	57.0	56.9	56.0	55.8	56.0	55.2	55.6	55.9	56.6	56.4	56.3	56.0	56.0	55.9	119.0
„ 30, ...	56.0	55.3	54.9	53.7	52.7	52.9	53.1	55.0	56.1	56.4	57.8	57.0	56.2	55.9	56.0	56.0	56.4	56.3	56.9	57.8	57.7	57.8	57.8	57.7	56.0	119.2
„ 31, ...	57.3	57.2	56.8	56.4	56.0	55.8	55.7	57.6	58.2	59.4	59.9	61.0	59.0	60.4	60.0	60.2	57.9	58.1	57.8	57.8	56.2	54.5	54.7	51.7	57.5	121.9
Means, ...	55.9	55.9	55.7	55.5	55.2	55.1	55.1	55.8	56.7	57.2	57.9	58.1	58.2	58.2	57.9	57.6	56.9	56.8	56.5	56.5	56.4	56.2	56.0	55.8	56.6	116.7

TABLE IV.

MEAN HOURLY AND DAILY RELATIVE HUMIDITY AND TENSION OF AQUEOUS VAPOUR FOR THE MONTH OF DECEMBER, 1895.

Hour.	Hourly Mean.		Date.	Daily Mean.	
	Humidity.	Tension.		Humidity.	Tension.
			1895.		
1 a.	67	0.385	Dec. 1,.....	75	0.501
2 „	68	.386	„ 2,.....	75	.530
3 „	68	.386	„ 3,.....	74	.558
4 „	67	.380	„ 4,.....	80	.559
5 „	66	.374	„ 5,.....	81	.567
6 „	66	.372	„ 6,.....	84	.626
7 „	65	.370	„ 7,.....	85	.624
8 „	62	.369	„ 8,.....	83	.551
9 „	58	.371	„ 9,.....	79	.416
10 „	57	.374	„ 10,.....	61	.251
11 „	56	.381	„ 11,.....	48	.207
Noon.	56	.385	„ 12,.....	33	.141
1 p.	57	.390	„ 13,.....	24	.111
2 „	58	.391	„ 14,.....	34	.160
3 „	58	.389	„ 15,.....	44	.220
4 „	60	.391	„ 16,.....	36	.202
5 „	63	.387	„ 17,.....	38	.210
6 „	66	.395	„ 18,.....	39	.200
7 „	64	.387	„ 19,.....	63	.336
8 „	66	.391	„ 20,.....	62	.365
9 „	67	.392	„ 21,.....	60	.369
10 „	67	.389	„ 22,.....	69	.399
11 „	67	.387	„ 23,.....	70	.399
Midt.	67	.383	„ 24,.....	84	.472
			„ 25,.....	76	.517
			„ 26,.....	70	.465
			„ 27,.....	62	.430
			„ 28,.....	67	.374
			„ 29,.....	71	.382
			„ 30,.....	69	.377
			„ 31,.....	68	.398
Means,.....	63	0.384	Means.	63	0.384

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.
1895.														
Dec. 1,.....	...	...	0.5	0.9	0.6	0.8	1.0	0.2	0.3	1.0	0.7	...	...	6.0
„ 2,.....	...	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	0.3	...	8.3
„ 3,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	9.4
„ 4,.....	...	...	1.0	1.0	0.7	0.4	0.4	0.9	1.0	1.0	1.0	0.4	...	7.8
„ 5,.....	...	...	0.1	0.3	0.9	1.0	1.0	0.8	1.0	1.0	0.1	...	...	6.2
„ 6,.....	...	...	...	...	0.6	1.0	1.0	1.0	0.8	0.3	1.0	0.2	...	5.9
„ 7,.....	...	...	0.7	1.0	1.0	1.0	1.0	1.0	0.9	0.2	...	...	...	6.8
„ 8,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 9,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 10,.....	...	0.2	0.8	1.0	1.0	1.0	1.0	1.0	0.9	0.1	...	...	...	7.0
„ 11,.....	...	...	...	...	...	...	...	0.2	...	...	...	...	...	0.2
„ 12,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,.....	...	0.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	10.0
„ 14,.....	...	...	0.1	0.2	...	...	...	...	...	0.1	...	...	...	0.4
„ 15,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,.....	...	...	...	0.3	0.7	0.6	1.0	1.0	1.0	1.0	1.0	0.1	...	6.7
„ 17,.....	...	0.2	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.0
„ 18,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 19,.....	...	...	0.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.1
„ 20,.....	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.6
„ 21,.....	...	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	9.7
„ 22,.....	...	0.1	0.6	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.4	...	...	7.6
„ 23,.....	...	0.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.3	...	9.4
„ 24,.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 25,.....	...	...	...	...	...	...	...	...	0.1	...	0.1	0.4	...	0.6
„ 26,.....	...	...	0.5	0.8	1.0	1.0	0.6	0.1	0.1	0.5	...	...	...	4.6
„ 27,.....	...	...	...	...	0.2	0.2	...	0.6	1.0	1.0	0.8	...	...	3.8
„ 28,.....	...	...	...	0.4	0.4	0.7	0.8	...	...	...	...	...	...	2.3
„ 29,.....	...	...	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	...	8.4
„ 30,.....	...	0.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	...	9.7
„ 31,.....	...	0.1	1.0	1.0	0.8	1.0	1.0	1.0	1.0	1.0	1.0	0.1	...	9.0
Sums,.....	...	2.8	13.8	18.9	19.9	20.7	20.8	19.8	20.1	18.7	16.9	4.8	...	177.2

TABLE VI.

RAINFALL FOR THE MONTH OF DECEMBER, 1895.

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,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 6,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 7,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 8,	...	...	...	0.005	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	3
„ 9,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.010	0.010	0.030	0.025	0.030	0.105	6
„ 10,	0.015	0.015	0.020	0.005	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0.055	4
„ 11,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 12,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 13,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 14,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 15,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 16,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 17,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 18,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 19,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 20,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 21,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 22,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 23,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 24,	...	...	...	...	...	...	...	...	...	...	0.005	0.005	0.005	...	...	...	...	...	...	0.005	0.005	0.005	...	...	0.030	8
„ 25,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 26,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 27,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 28,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 29,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 30,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
„ 31,	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Sums,	0.015	0.015	0.020	0.010	0.005	...	...	...	...	...	0.005	0.005	0.005	...	...	...	...	...	...	0.015	0.015	0.035	0.025	0.030	0.200	21

The daily duration of rain is entered from estimation.

TABLE VII.

DIRECTION AND VELOCITY OF THE WIND FOR THE MONTH OF DECEMBER, 1895.

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	7	27	7	23	6	14	4	11	6	12	6	15	5	15	6	16	8	21	8	22	9	25	9	21	10	18	10	20	10	17	10	18	9	18	8	17	8	16	8	17	7	20	7	19	7	16	8	15	433	18.0	8
" 2	8	15	8	20	7	19	6	16	6	11	7	15	7	21	7	23	7	23	8	20	9	17	9	16	9	13	9	14	10	14	11	17	8	19	9	12	9	6	9	11	9	13	9	10	10	12	9	12	369	15.4	8
" 3	10	10	8	9	6	9	10	9	9	12	9	13	8	10	9	11	10	7	11	6	9	7	9	12	9	17	9	20	8	21	8	20	8	16	9	14	8	13	9	10	9	11	7	12	8	12	7	13	294	12.2	9
" 4	8	13	7	12	7	12	9	14	8	15	9	16	8	12	8	16	7	27	7	28	7	26	7	30	7	27	7	22	7	21	7	18	8	20	7	17	9	22	7	15	8	13	7	13	7	13	7	15	437	18.2	7
" 5	7	18	7	21	7	21	7	25	7	24	7	24	7	21	7	21	7	22	7	16	10	14	9	11	9	14	8	16	8	18	8	20	9	20	9	16	9	16	8	12	8	11	8	8	7	7	7	5	401	16.7	8
" 6	11	3	11	2	11	6	10	9	9	10	9	6	9	4	6	7	8	8	8	13	8	12	9	16	8	12	8	6	27	6	8	8	3	4	3	5	1	4	31	5	27	4	28	4	28	2	28	5	161	6.7	7
" 7	28	6	23	3	23	2	23	3	...	1	...	0	...	0	...	1	23	2	10	9	9	21	9	24	9	23	9	27	9	21	9	22	9	19	8	16	7	17	7	14	7	14	7	15	7	17	7	17	294	12.3	8
" 8	7	18	7	16	7	18	7	22	7	22	7	20	7	19	6	21	7	18	7	16	7	17	6	13	7	11	8	6	1	2	1	5	32	4	2	4	32	3	32	3	32	3	...	1	...	0	32	2	264	11.0	6
" 9	32	4	2	4	2	4	2	3	2	3	3	5	5	9	3	11	6	10	4	10	1	8	32	5	32	10	32	12	32	11	32	13	1	20	1	22	1	24	2	16	5	9	1	9	32	9	2	17	248	10.3	2
" 10	1	11	28	6	32	11	32	7	1	14	1	13	2	6	32	4	30	5	32	7	32	14	32	15	1	12	1	14	32	14	32	10	32	10	1	9	1	9	1	12	32	13	1	14	32	10	1	13	253	10.5	32
" 11	32	15	32	16	32	16	32	12	32	7	31	2	31	6	31	5	32	6	31	5	29	5	1	7	1	2	31	3	32	4	32	8	32	8	1	9	1	6	1	10	2	8	1	7	32	7	32	4	178	7.4	32
" 12	32	5	1	14	2	8	32	9	3	10	2	8	32	11	32	12	32	6	32	20	1	14	32	12	32	9	32	20	32	17	32	15	32	13	31	7	1	10	32	7	22	4	31	8	31	8	32	6	253	10.5	32
" 13	30	5	30	8	29	7	31	10	30	4	32	6	1	13	32	5	1	12	1	14	32	14	32	11	28	4	26	7	32	11	1	10	1	10	2	9	32	10	1	8	1	11	2	12	2	15	3	13	229	9.5	32
" 14	2	13	1	23	2	13	2	17	3	12	2	10	1	7	1	7	2	6	4	7	6	10	6	9	8	6	9	5	8	6	9	6	10	6	5	5	5	3	5	2	2	10	2	10	2	7	4	8	208	8.7	3
" 15	31	4	5	11	4	14	5	17	4	5	4	10	4	7	5	12	5	13	5	12	7	13	6	8	8	5	7	5	1	6	1	7	1	7	2	7	2	5	32	11	1	10	2	9	2	3	2	6	207	8.6	4
" 16	2	7	1	9	32	16	32	12	32	13	32	7	32	8	30	6	32	7	30	5	1	8	18	8	21	8	23	13	27	12	32	7	1	8	1	4	32	4	32	4	2	4	2	6	1	16	2	9	201	8.4	31
" 17	31	7	32	6	31	7	...	1	...	1	32	8	32	10	2	10	1	9	1	8	7	4	1	4	24	7	23	6	...	1	31	9	32	11	32	11	32	17	2	17	1	24	1	24	32	27	1	18	247	10.3	32
" 18	1	18	1	15	32	17	1	13	2	12	1	15	1	14	1	9	4	5	7	6	7	17	7	22	9	19	9	19	7	19	9	18	7	18	7	18	7	16	7	18	7	21	7	20	8	23	8	24	396	16.5	6
" 19	8	28	7	23	5	19	5	17	5	12	5	16	4	19	5	21	7	22	7	24	7	24	9	22	9	27	9	24	10	25	7	17	8	20	7	18	7	16	7	14	8	8	9	11	8	11	10	11	449	18.7	7
" 20	9	11	9	12	9	10	9	7	7	8	8	11	10	9	9	13	9	14	10	14	9	16	9	15	9	12	8	6	24	6	24	6	24	4	24	6	21	4	...	1	...	0	...	0	...	0	21	3	188	7.8	9
" 21	...	1	24	3	...	1	3	4	3	10	5	17	32	21	1	21	1	21	1	15	5	19	8	24	9	24	9	24	9	23	8	25	7	21	7	19	7	18	7	15	7	20	7	22	7	24	7	22	414	17.2	6
" 22	7	27	7	19	7	19	7	21	7	15	6	16	7	17	6	16	7	17	8	15	10	15	9	19	10	22	9	22	9	20	9	21	9	21	7	17	7	14	7	13	7	14	6	13	7	19	7	23	435	18.1	8
" 23	7	20	7	20	6	16	6	15	6	13	6	14	6	13	6	15	8	17	8	21	7	23	7	22	8	22	7	26	8	23	8	25	7	22	7	20	6	24	7	29	7	27	6	31	7	32	7	29	519	21.6	7
" 24	7	27	7	26	7	22	6	15	7	10	7	10	6	7	8	11	8	12	9	13	10	15	10	12	11	6	8	7	9	3	10	14	10	13	9	19	8	13	10	13	10	18	8	12	10	16	10	14	328	13.7	8
" 25	11	10	11	5	11	3	9	12	10	9	10	9	10	7	9	10	10	6	9	3	10	4	24	4	22	4	5	11	9	8	3	8	3	3	3	3	...	1	1	3	4	3	16	4	24	3	...	1	134	5.6	9
" 26	25	2	8	13	7	11	7	5	8	18	9	14	9	20	9	23	9	24	8	23	9	26	9	26	8	25	9	24	8	22	7	22	8	19	8	17	9	10	9	16	9	16	10	14	8	10	...	0	400	16.7	8
" 27	30	2	...	0	19	4	24	3	31	3	1	14	1	15	1	14	32	22	32	25	32	21	32	21	32	24	32	21	32	16	3	11	9	13	9	6	1	6	3	4	6	9	5	4	6	7	11	10	275	11.5	1
" 28	6	10	7	20	6	22	6	21	7	22	7	16	1	10	32	10	6	11	7	14	7	16	7	20	10	18	10	22	8	20	7	20	7	23	7	19	6	22	7	23	7	24	7	25	7	25	7	23	456	19.0	7
" 29	7	23	6	21	7	22	7	23	7	22	7	20	7	17	7	17	7	18	9	13	10	19	9	24	9	22	9	27	10	24	10	24	9	24	8	23	8	23	7	26	7	28	7	33	7	29	7	24	546	22.8	8
" 30	6	24	5	28	5	24	7	21	6	11	6	11	4	4	4	8	6	8	10	8	9	15	10	17	10	19	10	20	10	23	9	18	8	17	7	17	7	16	7	16	7	17	6	12	8	13	7	14	381	15.9	7
" 31	7	14	7	11	9	11	8	9	6	10	6	9	4	5	1	3	10	8	10	6	22	7	20	5	9	6	24	8	24	11	23	10	15	5	15	2	14	2	10	2	2	4	7	7	2	7	3	6	168	7.0	7
Sums	...	398	...	419	...	398	...	383	...	351	...	370	...	357	...	379	...	407	...	418	...	466	...	475	...	448	...	477	...	445	...	452	...	436	...	388	...	370	...	367	...	391	...	389	...	400	...	382	9766	406.9	...
Means	...	12.8	...	13.5	...	12.8	...	12.4	...	11.3	...	11.9	...	11.5	...	12.2	...	13.1	...	13.5	...	15.0	...	15.3	...	14.5	...	15.4	...	14.4	...	14.6	...	14.1	...	12.5	...	11.9	...	11.8	...	12.6	...	12.5	...	12.9	...	12.3	315.0	13.1	...

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
1895.												
Dec. 1, ...	10	str-cum.	NE	10	cum.	NE	7	sm-cum. / cum.	E	8	sm-cum. / cum.	W / ..
" 2, ...	2	cum.	E	6	c-str.	...	7	c-cum. / cum.	WSW / E	6	c-cum.	WSW
" 3, ...	6	cum.	...	5	c-str.	...	1	c-cum.	...	1	c-cum.	...
" 4, ...	8	cum.	E	7	cum.	ESE	4	sm-cum. / cum.	E / E	9	cum.	E
" 5, ...	4	sm-cum.	...	8	sm-cum. / cum.	W / E	8	sm-cum. / cum.	E	6	sm-cum.	W
" 6, ...	8	sm-cum.	W	1	cum.	E	9	sm-cum. / cum.	W / ..	8	sm-cum. / cum.	W / E
" 7, ...	3	sm-cum.	W	4	sm-cum.	W	6	sm-cum.	WNW	2	sm-cum. / cum.	W / E
" 8, ...	10	str-cum.	E	10	nim.	ENE	10	str-cum.	E	10	cum.	E
" 9, ...	10	str-cum.	...	10	str.	...	10	str-cum.	E	10	nim.	ENE
" 10, ...	10	nim.	ESE	10	nim.	ESE	1	sm-cum.	...	8	cum.	E
" 11, ...	10	str.	...	10	str.	...	7	cum.	W	10	str-cum.	W
" 12, ...	10	str.	...	10	str.	...	10	str-cum.	...	10	str.	...
" 13, ...	8	str-cum.	...	0	...	...	0	...	...	1	c-cum.	...
" 14, ...	10	str.	...	10	str.	...	6	sm-cum.	WNW	9	sm-cum.	WNW
" 15, ...	8	str-cum.	...	10	str-cum.	...	10	str-cum.	...	10	sm-cum.	SW
" 16, ...	10	str.	...	10	str.	...	9	str-cum.	...	9	sm-cum.	W
" 17, ...	10	str.	...	10	str.	...	2	sm-cum.	WNW	1	sm-cum.	...
" 18, ...	0	...	...	0	...	...	0	...	...	1	c-str.	...
" 19, ...	6	cum.	ENE	7	cum.	ENE	1	cum.	E	0	...	...
" 20, ...	0	...	...	2	cum.	E	1	cum.	...	1	c-cum.	...
" 21, ...	0	...	...	0	...	...	0	...	...	0	...	...
" 22, ...	0	...	...	0	...	...	3	sm-cum.	SSW	1	sm-cum.	S
" 23, ...	0	...	...	7	sm-cum.	...	4	sm-cum.	WSW	2	c-cum. / cum.	E
" 24, ...	10	str-cum.	...	10	str-cum.	...	8	cum.	SSW	10	str-cum.	S
" 25, ...	10	str.	...	10	str.	...	10	str-cum.	ESE	9	sm-cum. / str-cum.	ESE
" 26, ...	10	str-cum.	...	10	str-cum.	...	6	c-cum. / str-cum.	ESE	4	c-cum. / cum.	W / E
" 27, ...	10	sm-cum.	WNW	10	str-cum.	...	10	nim.	NNE	9	sm-cum. / cum.	WSW / NNE
" 28, ...	10	sm-cum.	WSW	10	str-cum.	...	8	c-cum. / sm-cum. / cum.	S	7	cum.	S
" 29, ...	10	str-cum.	...	10	cum.	...	9	c-cum. / cum.	ENE	3	sm-cum.	NW
" 30, ...	10	cum.	ENE	0	...	...	0	...	...	0	...	...
" 31, ...	0	...	...	0	...	...	0	...	...	8	sm-cum. / cum.	W / NNE
Means,...	6.9	...	...	6.7	...	...	5.4	...	...	5.6	...	...

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	
1895.													
Dec. 1,...	8	sm-cum. / cum.	W / ESE	6	sm-cum. / cum.	W / ESE	10	cum.	ESE	8	sm-cum. / cum.	W / E	8.4
„ 2,...	1	c-cum. / cum.	...	4	cum.	S	0	...	...	0	...	...	3.2
„ 3,...	1	c-cum. / cum.	...	2	c-cum. / cum.	...	0	...	...	3	cum.	...	2.4
„ 4,...	2	cum.	E	4	c-cum. / cum.	E	0	...	...	0	...	...	4.3
„ 5,...	7	sm-cum. / cum.	W / ..	10	c-cum. / cum.	W / ..	2	c-cum.	...	9	sm-cum.	W	6.7
„ 6,...	6	c-cum. / sm-cum. / cum.	W / E	2	c-cum. / cum.	...	5	sm-cum.	W	8	sm-cum.	W	5.9
„ 7,...	7	sm-cum. / cum.	W / E	9	sm-cum. / cum.	W / ENE	6	sm-cum. / cum.	ENE	10	str-cum.	ENE	5.9
„ 8,...	10	nim.	E	10	nim.	E	10	sm-cum. / cum.	...	10	str. / cum.	...	10.0
„ 9,...	10	nim.	ENE	10	str-cum.	NE	10	str-cum.	...	10	nim.	...	10.0
„ 10,...	5	cum.	E	9	sm-cum. / cum.	E	10	cum.	...	8	cum.	...	7.6
„ 11,...	10	str-cum.	W	10	str-cum.	...	10	str.	...	10	str.	...	9.6
„ 12,...	10	str-cum.	...	10	str.	...	10	str.	...	10	str.	...	10.0
„ 13,...	1	c-cum.	...	0	...	...	0	...	...	0	...	...	1.2
„ 14,...	10	sm-cum.	WNW	8	sm-cum.	WNW	0	...	...	0	...	...	6.6
„ 15,...	10	sm-cum.	SW	10	sm-cum.	SW	10	str-cum.	...	5	cum.	...	9.1
„ 16,...	4	sm-cum.	WSW	5	sm-cum.	W	1	sm-cum.	...	6	sm-cum.	...	6.8
„ 17,...	0	...	...	0	...	...	0	...	...	0	...	...	2.9
„ 18,...	3	c-str.	...	6	c-cum.	W	0	...	...	0	...	...	1.2
„ 19,...	0	...	...	1	c-cum.	...	0	...	...	0	...	...	1.9
„ 20,...	1	c-cum.	...	1	c-cum.	...	1	c-cum.	...	0	...	...	0.9
„ 21,...	0	...	...	0	...	...	1	c-cum.	...	1	cum.	...	0.2
„ 22,...	2	sm-cum.	S	8	sm-cum.	S	7	sm-cum.	SSW	1	sm-cum.	SW	2.8
„ 23,...	2	c-cum. / cum.	E	2	c-cum. / cum.	...	3	cum.	E	10	sm-cum. / cum.	ENE	3.7
„ 24,...	10	nim.	ESE	10	str-cum.	E	10	nim.	...	10	nim.	...	9.8
„ 25,...	10	str-cum.	ESE	10	sm-cum.	S	10	cum.	WSW	8	c-cum.	E	9.6
„ 26,...	9	sm-cum. / cum.	W / ESE	8	sm-cum. / cum.	W / ESE	10	cum.	E	10	sm-cum.	WNW	8.4
„ 27,...	5	sm-cum.	W	7	sm-cum. / cum.	W / NNW	8	c-cum.	WSW	2	c-cum.	...	7.6
„ 28,...	9	sm-cum. / cum.	ENE	9	sm-cum. / cum.	ENE	10	sm-cum.	W	10	sm-cum. / cum.	W / E	9.1
„ 29,...	0	...	...	1	cum.	...	7	cum.	E	4	cum.	E	5.5
„ 30,...	0	...	...	0	...	...	7	cum.	E	10	cum.	E	3.4
„ 31,...	1	cum.	...	1	cum.	...	0	...	...	1	c-cum.	...	1.4
Means,...	5.0	...	...	5.6	...	...	5.1	...	...	5.3	...	...	5.7

TABLE IX.

MEAN HOURLY COMPONENTS AND MEAN DIRECTION OF THE WIND FOR THE MONTH OF DECEMBER, 1895.

Hour.	Components (miles per hour).						Direction.
	N	E	S	W	+N-S	+E-W	
1 a.	4.5	9.7	0.5	0.4	+ 4.0	+ 9.3	E 23° N
2 „	5.3	10.2	0.2	0.4	5.1	9.8	E 27° N
3 „	5.8	9.1	0.4	0.3	5.4	8.8	E 31° N
4 „	5.1	9.1	0.4	0.3	4.7	8.8	E 28° N
5 „	4.5	9.3	0.2	0.1	4.3	9.2	E 25° N
6 „	5.0	9.2	0.4	0.0	4.6	9.2	E 27° N
7 „	5.9	7.4	0.4	0.0	5.5	7.4	E 37° N
8 „	5.7	8.6	0.3	0.1	5.4	8.5	E 33° N
9 „	4.5	10.0	0.5	0.1	4.0	9.9	E 22° N
10 „	4.5	10.1	0.7	0.1	3.8	10.0	E 21° N
11 „	4.0	11.9	1.7	0.3	2.3	11.6	E 11° N
Noon.	3.4	12.1	2.0	0.3	+ 1.4	11.8	E 7° N
1 p.	2.2	11.6	2.3	0.7	− 0.1	10.9	E 1° S
2 „	2.9	11.7	2.2	1.1	+ 0.7	10.6	E 4° N
3 „	3.2	10.4	1.7	1.0	1.5	9.4	E 9° N
4 „	3.7	11.0	1.5	0.6	2.2	10.4	E 12° N
5 „	3.6	11.0	1.1	0.1	2.5	10.9	E 13° N
6 „	3.7	10.0	0.5	0.2	3.2	9.8	E 18° N
7 „	4.3	8.9	0.5	0.1	3.8	8.8	E 24° N
8 „	4.3	9.2	0.4	0.0	3.9	9.2	E 23° N
9 „	4.3	9.9	0.5	0.2	3.8	9.7	E 21° N
10 „	4.9	9.6	0.4	0.2	4.5	9.4	E 25° N
11 „	4.7	9.5	0.4	0.2	4.3	9·3	E 25° N
Midt.	4.3	9.6	0.6	0.2	+ 3.7	+ 9.4	E 21° N
Means, ...	4.3	10.0	0.8	0.3	+3.52	+ 9.67	E 20° N

PHENOMENA :—

Lunar halo :—on the 25th.

Lunar corona :—on the 20th, 25th, 26th and 27th.

Slight fog :—on the 1st and 7th.

Haze :—on the 1st, 4th, 6th, 20th, 22nd and 31st.

Dew :—on the 3rd, 4th, 6th, 20th, 21st, 27th and 31st.

THE TYPHOONS OF 1890.

By W. Doberck and F. G. Figg.

MAY.

During the last days of April a depression (I) of slight intensity advanced towards the Philippine Archipelago from the Pacific. On the 27th April the S.S. *Venus* at noon in 9° 41,′ 135° 57′ had the wind veering during the early morning from NE to SE and S and blowing with the force of a moderate gale from the latter direction. The barometer read 29.69 at noon. In the Philippines pressure was decreasing slowly on this and subsequent days with mostly light winds from between N and E. According to the Jesuit Fathers in Manila, this depression, which was very feeble and gave occasion to no strong winds, passed to the north of Cuyo (10° 51,′ 121° 00′) on the evening of April 29th passing thence into the China Sea. At Cuyo the barometric minimum was at 4 p. (29.73) with WNW 4. At Manila they made the minimum reading of the barometer (29.71) at the same hour the wind being a light air from the NE, but farther south at Point Santiago it blew a fresh breeze from E. On the 30th April the barometer rose in S. Luzon and fell in N. Luzon but slightly in both cases, and winds were chiefly from SE and light in force.

We have the following observations for May 1st, 2nd, 3rd and 4th at noon:—

May 1st.					May 2nd.				
Hongkong,	29.87	−.01	E	5	o.	Hongkong,	29.81	−.06	ENE	4	o.
Hoihow,	.89	+.02	NE	1	c.	Hoihow,	.83	−.06	NE	3	or.
South Cape,	.97	+.02	NE	2	or.	South Cape,	.94	−.03	NE	2	od.
Bolinao,	.81	+.05	SSE	2	o.	Bolinao,	.80	−.01	SSE	2	o.
Manila,	.85	+.07	ESE	2	c.	Manila,	.81	−.04	ESE	2	c.

May 3rd.					May 4th.				
Woosung,	30.01	−.08	NNE	5	c.	Woosung,	29.95	−.06	NNE	5	od.
Foochow,	29.96	−.04	SE	1	omr.	Foochow,	.85	−.11	S	2	c.
Tamsui,	.87	−.04	NE	3	od.	Tamsui,	.87	.00	NE	4	or.
Amoy,	.84	−.10	NE	3	or.	Amoy,	·87	+.03	SW	3	b.
Lamocks,	.68	−.17	NE	10	od.	Lamocks,	.89	+.21	SW	1	c.
Breaker Point,	.71	−.15	NNE	7	omd.	Breaker Point,	.87	+.16	SE	2	c.
Hongkong,	.75	−.06	N	3	c.	Hongkong,	.90	+.15	W	1	b.
Hoihow,	.82	−.01	NE	2	b.	Hoihow,	.93	+.11	E	2	c.
Fisher Island,	.80	−.10	ENE	5	orq.	Fisher Island,	.86	+.06	N	4	o.
Anping,	.80	−.06	NE	2	or.	Anping,	.74	−.06	NNE	5	orq.
Takow,	.80	−.07	SE	7	orq.	Takow,	.80	.00	N	2	od.
South Cape,	.81	−.13	NNE	3	omr.	South Cape,	.77	−.04	WNW	7	c.
Bolinao,	.79	−.01	SSW	2	b.	Bolinao,	.88	+.09	SW	2	o.
Manila,	.83	−.02	SE	2	c.	Manila,	.88	+.05	WNW	1	c.

The observations of May 1st and 2nd indicate the existence of low pressure in the middle part of the China Sea to the West of Luzon, but, in the absence of data from the sea area, it is not clear as to whether this was a definite cyclonic depression and connected with that of April 29th, or merely a diffused low pressure area. On the 2nd May, however, pressure was giving way very decidedly on the S Coast of China and NE winds were increasing in force particularly in the south part of the Formosa Channel.

At Hongkong the barometer had fallen to 29.75 at midnight of this day with the wind backing towards N. At the same hour Breaker Point had 29.78, NE 6 od; Fisher Island 29.84, NE 6, or and South Cape 29.86, NE 4, or; so that there was some indication of winds becoming cyclonic on the S. Coast at this time.

On the morning of the 3rd May the barometer was falling rapidly in the neighbourhood of Swatow and the wind increasing in force from the NE. At noon the wind backed to NNE at Breaker Point. At Lamocks it was blowing a whole gale from NE, and at Takow a moderate gale from SE, but at South Cape the wind circulation was not affected at this time.

The centre of depression II was in about 22°, 117°½ at noon moving towards ENE.

The lowest reading of the barometer at Breaker Point, 29.64, and at Lamocks, 29.61, occurred at 6 p. the wind having backed to N at the former, but remaining steady at NE at the latter station the force decreasing at both places. During the evening the barometer rose quickly at these two stations. Breaker Point had 29.79 and Lamocks 29.78 at midnight, but at the latter station the wind continued to blow with force 8 from NE quickly decreasing, however, a little later. At Hongkong a light WNW breeze prevailed during the evening, but at Victoria Peak it blew a fresh NW breeze. The barometer was rising. On the S. Formosa Coast the barometer continued falling during the evening of the 3rd and at South Cape the wind, which had continued light from NE, veered suddenly to S of force 4 at midnight, thereafter continuing to veer and increase in force. On the 4th at 6 a. they made the lowest reading of the barometer, 29.68, with SW 6. Later it blew a fresh gale from W and WNW with rising barometer. The centre thus passed to the north of S. Cape. At Fisher Island they had the wind backing to NNE 7 on the evening of the 3rd with the barometer reading 29.69 at midnight. At 9 a. on the 4th the barometer had risen to 29.82 with NNW 6. At Anping at 3 a. on the 4th

the barometer read 29.56 with SSE 3 and at 9 a. it had risen to 29.72 with NNE 5. The centre passed between this station and South Cape during the morning hours moving eastward across Formosa. At noon on the 4th the centre was perhaps in 22°½, 122° after which time it cannot be traced.

A great deal of rain, accompanied by thunder and lightning, fell in S. Formosa and at Fisher Island between the 3rd and 4th. For the 24 hours ending at 9 a. on the 4th they measured 6.60 inches at Fisher Island, 4.85 inches at Anping, 3.15 inches at Takow and 4.13 inches at South Cape. On the SE coast in the neighbourhood of Swatow the rainfall was comparatively slight. For the 48 hours ending at 9 a. on the 4th, 1.00 inch was recorded at Breaker Point and 0.73 inch at Lamocks.

JUNE.

The S. monsoon blew steadily on the S. Coast of China between the 8th and 24th of June, but was interrupted during the last days of the month owing to two small depressions in the China Sea.

The following observations are for noon during the period June 25th to 30th inclusive :—

Station.	June 25th.	26th.	27th.	28th.	29th.	30th.
Foochow, ...	29.87 NE 2 b.	29.83 NE 4 c.	29.83 NE 4 c.	29.83 N 3 c.	29.86 N 5 c.	29.92 SW 2 c.
Lamocks, ...	.87 NE 1 c.	.79 NE 5 c.	.82 ESE 3 c.	.81 NE 2 c.	.70 ENE 7 c.	.81 SE 4 o.
Hongkong, ...	.85 E 3 c.	.72 ENE 6 o.	.76 E 5 or.	.77 E 3 c.	.61 NE 5 or.	.74 S 2 o.
Hoihow, ...	.83 E 2 b.	.78 E 1 orq.	.73 var. 2 or.	.78 E 2 c.	.72 NE 2 c.	.76 SSE 1 c.
South Cape, ...	.88 E 3 cp.	.84 ENE 3 orq.	.84 E 2 c.	.79 E 2 c.	.82 ESE 3 c.	.90 SE 2 c.
Bolinao, ...	.78 SW 1 c.	.79 SE 3 o.	.79 SE 4 o.	.75 SE 4 or.	.79 SSE 2 or.	.84 SE 2 c.
Manila, ...	.78 SSW 2 o.	.83 SSE 1 o.	.86 SSE 2 o.	.84 SSE 1 or.	.83 SSE 1 o.	.89 SSE 2 o.

VESSELS.

June 25th.						
S.S. P. C. C. Klao, ...	18° 38′	112° 01′	29.81	ENE	4	c.
June 26th.						
S.S. P. C. C. Klao, ...	21° 54′	113° 50′	29.72	NNE	6	orq.
„ Diamante, ...	16 15	118 35	...	S	4	opq.
June 27th.						
S.S. Diamante, ...	19° 24′	116° 24′	...	ESE	2	o.
„ Melbourne, ...	12 20	109 32	...	SW	5	...
„ Chowfa, ...	11 31	109 09	29.72	SW	4	o.
June 28th.						
S.S. Melbourne, ...	15° 50′	111° 00′	...	NE	...	or.
„ Chowfa, ...	15 38	110 08	29.65	NW	4	oq.
„ Pollux, ...	12 22	109 39	.72	W	2	...
June 29th.						
S.S. Chowfa, ...	18° 57′	112° 07′	29.58	NNW	5	...
„ Melbourne, ...	18 33	111 59	...	NW	...	orq.
„ Pollux, ...	15 45	110 26	.67	SW	6	...

The first of these depressions, (III), appears to have originated to the West of Luzon on the 25th and to have moved WNW across the China Sea passing to the South of Hoihow between the evening of the 26th and morning of the 27th. In Hongkong a moderate gale from ENE with showery weather was experienced during the afternoon and evening of the 26th, the barometric minimum occurring at 6 p. (29.66). The direction of the lower clouds veered from ENE in the morning to ESE at night. At Hoihow they had a moderate gale from NE with rainsqualls during the evening of the 26th (barometer 29.70 at 9 p.) and early morning of the 27th.

The information from the sea area shows that moderate S breezes prevailed off the West coast of Luzon on the 26th and moderate to fresh SW breezes off the Cochin China Coast, in about 12°, 109°, on the 27th.

The second depression, (IV), is indicated on June 28th by the observations made on board the vessels *Chowfa*, *Melbourne* and *Pollux* in conjunction with those made at the land stations around the China Sea. Probably the disturbance was in the initial stage on this day and central about the position 14°½, 114° at noon.

On June 29th the noon observations show that a very considerable decrease of pressure had taken place during the previous 24 hours at the stations on the S coast of China, particularly at Hongkong, and at the same time an increase in the strength of the NE winds is to be remarked in this district. At noon the centre was in about 19°½, 114°½ moving towards NNW. The steamships *Chowfa* and *Melbourne* about 120 miles to the WSW of this position had strong NW breezes with occasional violent squalls of wind and rain the sea being very heavy and confused. They were both steering for Hongkong and the weather became somewhat worse towards evening. At 8 p. the barometer read 29.55 on board the *Chowfa*. On the early morning of the 30th they had the wind backing to SW with the weather improving but the sea continued high. In the neighbourhood of Swatow the wind veered to SE at 6 p. on the 29th blowing with force 5 to 7, the weather being squally and showery. At Hongkong the lowest reading of the barometer when corrected for daily variation occurred at 8 p. (actual 29.56). The NE wind decreased to force 2 to 3 for two or three hours about this time, increasing and veering to ESE 4 at midnight. At 6 a. on the 30th the barometer (29.60) was rising decidedly and the wind had further veered to SSE 5. The lower clouds veered with the wind. Showery weather prevailed on the 29th and 30th. At Macao the wind direction was in general agreement with that at Hongkong but the force was less. The lowest recorded reading of the barometer was 29.56 at 4 a. on the 30th. Hongkong had 29.57 at this hour.

The centre apparently passed a short distance to the West of Macao during the early morning of the 30th, and it appears from the observations made there and at Hongkong, that there was a considerable area around the centre where gradients were slight and that the disturbance was no more than a shallow depression.

The centre passed to the W of Canton about noon on the 30th. At 9 a. they had the lowest recorded reading of the barometer (29.58) with E 3. At 3 p. the barometer had risen to 29.62 and the wind had veered to SSE 4. Overcast weather prevailed but there was little rain.

JULY.

During the first days of July the stations in China and Japan were under the influence of a depression of large area but slight intensity which advanced from the mainland and affected the stations around the Yellow Sea on the 1st and subsequently the more southern stations during the next two or three days. A considerable decrease of pressure took place on the S and SE coasts but fresh SW monsoon prevailed during the period except at the Formosa stations where strong NW winds blew on the 3rd backing to W and decreasing on the 4th with rising barometer Probably the stations in Formosa were under the influence of a depression (V), in the Pacific to the E of the island, which possibly moved northwards, the western shores of Japan being affected by a depression on the morning of the 5th which subsequently passed away towards the NE and E on the 6th.

The observations made in Formosa on July 13th afford indications of the existence of a typhoon (VI) to the eastward. It passed to the north of that island during the early morning of the 14th and entered the coast to the South of Wenchow about noon thence moving westward over the land area and passing to the South of Kiukiang and Hankow on the 15th.

The following noon observations are for the period July 13th to 15th inclusive:—

Station.	July 13th.				July 14th.				July 15th.			
Woosung,	29.76	ESE	5	c.	29.78	SE	7	cq.	29.82	SE	6	c.
Steep Island,	.79	NE	2	c.	.83	SE	6	cq.	.88	SE	4	c.
Wenchow,	.75	NNE	2	b.	.61	ENE	9	or.	.76	E	4	or.
Foochow,	.76	ESE	2	c.	.52	WSW	3	omr.	.74	NE	2	o.
Tamsui,	.76	NW	4	o.	.68	SE	2	orlt.	.77	SE	5	o.
Keelung,	.73	WNW	4	o.	.66	SE	1	o.	.75	E	2	c.
Fisher Island,	.76	SW	1	c.	.67	SSW	3	c.	.73	W	1	c.
Anping,	.76	W	1	c.	.75	SW	2	og.	.70	NNW	2	og.
S. Cape,	.70	W	4	c.	.67	W	2	c.	.69	E	2	c.
Amoy,	.74	SW	2	b.	.63	SSW	2	c.	.74	ESE	2	c.
Swatow,	.75	SW	2	b.	.63	SW	2	c.	.67	SE	2	o.
Hongkong,	.76	E	3	b.	.70	W	2	c.	.66	W	1	o.
Bolinao,	.80	SSE	2	o.	.80	SE	1	orlt.	.76	SW	2	or.
Manila,	.83	WSW	1	o.	.83	SW	4	o.	.79	WNW	1	o.

VESSELS.

	July 13th.							July 14th.							July 15th.						
S.S. Vorwaerts,	29°40′	122°44′	...		E	3	b.	28°11′	(121°55′)?	29.69	SSE	7	...		...	...	...	...	...		
„ Deuteros,	29 11	123 22	29.78		NE	4	o.	27 34	122 10	.55	E	8	o.		26°22′	121°20′	29.80	SE	3	...	
„ Kwanglee,	26 10	120 23	.75		NE	4	...	(27 30	121 15)?	.08	ESE	10	orq.		30 12	122 30	.88	SE	4	...	

On July 11th a depression which had formed over the mainland passed to the North of Shanghai moving towards the NE. On the 12th and 13th pressure increased very considerably over N. China and at the same time high pressure covered the greater part of Japan. On the latter date pressure was decreasing on the SE coast of China, light SW breezes and fine weather prevailing there and in the Formosa Channel. On the E coast in the neighbourhood of the mouth of the Yangtze moderate breezes from E and SE prevailed with fine weather, the barometer continuing to rise. At the Formosa stations the barometer was falling with moderate to fresh breezes from W at S. Cape and fine weather, while at Tamsui and Keelung in the North of the island, moderate to fresh NW breezes were blowing. At Tamsui the direction had backed to W at 9 p. and blew a moderate gale with rainsqualls (bar. 29.71) while at Keelung the direction was still from NW force 4 (bar. 29.61).

At noon on the 13th the centre was perhaps in 25°½, 125° moving towards WNW. No observations were recorded at Tamsui and Keelung between 9 p. on the 13th and 9 a. on the 14th, but we have the following observations during the evening of the 13th from the log books of the *Kwanglee*, *Deuteros* and *Vorwaerts*.

The *Kwanglee*, in the neighbourhood of the Middle Dog lighthouse at noon on the 13th and bound for Shanghai, had the wind increasing from the NNE with squally weather and the barometer falling quickly during the evening. At midnight the reading of the barometer was 29.56 with NNE 7. The *Deuteros* was steering about SW by S from her noon position and had increasing NE wind and falling barometer (8 p. 29.72). At midnight the vessel was rightly hove to—in the right-hand semicircle—with the wind veering somewhat towards E—an increasing gale—with rainsqualls. The

Vorwaerts also steering about SW by S had at midnight a moderate NE gale with barometer (29.72) falling. One other vessel, the S. S. *Wenchow*, experienced this typhoon. We have not a copy of the log but from a newspaper account it appears that she passed the Middle Dog lighthouse at 10 p. on the 13th bound for Shanghai. Towards midnight she began to experience hard squalls from NW.

The observations made on board these vessels in conjunction with those made at Tamsui and Keelung show that winds were perfectly cyclonic as regards the advancing semicircle. For the other semicircle we lack data, but the centre at 9 p. on the 13th must have been near the position 26¼°, 122°.

The noon observations for July 14th show a marked decrease of pressure during the previous 24 hours on the SE coast, particularly in the neighbourhood of Foochow. Winds in the Formosa channel were gentle SW breezes in the morning backing towards S and SSE and increasing somewhat in force during the afternoon when the centre had entered the coast to the northward. The weather was fine. Lightning was observed during the evening. At Foochow gentle NW breezes blew in the morning with an overcast sky and rain setting in. During the afternoon the wind backed to S 3 the barometer rising to 29.67 at 9 p. with SW 1 and wet weather. The centre passed some 60 miles to the N of Foochow during the afternoon and the light wind forces experienced there and at Middle Dog earlier in the day before the centre had entered the coast, show that the strong winds must have been confined to a very small area near the centre in the left-hand semicircle. In N. Formosa light SE breezes with thunderstorms prevailed. The barometer was rising. At *Wenchow* they made the following observations:—9 a. 29.56, NE 8, or: 11 a. 29.56 ("lowest reading; gale at its height"): noon 29.59: 1 p. 29.62: 3 p. 29.65, E 9, or: 9 p. 29.74, E 8, orl. The centre passed some 50 miles to the southward of this station near noon moving towards the W. A comparison of the wind forces experienced there with those observed at Foochow shows that winds were much stronger in the right-hand than in the left-hand semicircle. This was in accordance with the gradients which were rather steep over a large area in the right-hand (pressure remaining high at about 30.00 inches over Japan), while they were very moderate in the left-hand semicircle. Strong breezes from ESE and SE prevailed at the mouth of the Yangtze, the weather being fine and the barometer rising slightly. At the more western of the Yangtze stations the barometer was falling quickly during the evening and the wind increased to a strong NE breeze at Kiukiang but the weather remained fine.

The centre at noon on the 14th was situated in 27° 15′, 120° 45′ moving westward.

At sea on the 14th the *Kwanglee*, in the right-hand semicircle, experienced very bad weather the centre passing just to the South of her position which is, however, somewhat uncertain near 11 a. The vessel was hove to at 2 a. with a NE gale rapidly increasing and the barometer (29.35) falling quickly. At 4 a. the wind had veered to E blowing in furious squalls and accompanied by a high sea and gloomy weather. The wind direction continued at E until 11 a. when the lowest reading of the barometer (29.06) was registered. The wind, at that time blowing with force 11, commenced to veer slowly towards S with the barometer rising. At noon the wind force was decreasing perceptibly and at 2 p. the barometer had risen to 29.17, the wind being at 4 p. a moderate gale from SE with high cross sea and overcast sky. Before 11 a. the vessel sustained a great deal of damage about the decks and lost several boats. The *Deuteros* hove to in the right-hand semicircle some 50 miles to the ENE of the *Kwanglee* had a storm from E with very high SE sea at 2 a. when they sustained considerable damage and lost all their boats. It was found necessary to place the deckhands on the bridge for safety, one of whom had already been washed overboard. After 4 a. the wind was decreasing somewhat. At 4 p. the barometer had risen to 29.66 with wind E 6. At 8 p. the wind veered to ESE 5 and the vessel was then put on her course again. They recorded no barometer readings during the morning, but the centre appears to have passed within 50 miles to the southward of her position during the early morning. The *Vorwaerts* was hove to in the right-hand semicircle at 4 a. with an increasing gale from ESE and barometer 29.64. The barometer remained at its lowest point (29.56) between 5 a. and 8 a. with wind a strong gale from ESE. At noon the barometer had risen and the wind was decreasing and veering.

According to a newspaper report the *Wenchow* continued on her course to the northward notwithstanding that the wind was rapidly increasing in violence from the NW and the barometer falling quickly. At 5 a. the barometer read 29.10, uncorrected, and they were compelled to put the vessel before the wind which gradually backed to WNW and eventually to S as the vessel passed from the front to rear of the centre in the left-hand semicircle. Having thus run some miles to the eastward the weather improved, and about 1 p. the vessel was put on her course again. At 3.30 p., however, the propeller shaft broke and they made the Taichow Islands under sail.

From the information furnished by these vessels it appears that typhoon force of wind blew at a distance of about 20 miles from the centre and that strong gales were felt at a distance of, at least, 75 miles from the centre in the right-hand semicircle. The observations at the land stations show that strong breezes and moderate gales prevailed at a distance of 250 miles to the north of the centre while to the South no more than a fresh breeze was felt at a distance of 75 miles.

On the 14th the sky does not appear to have been completely overcast at a greater distance than 100 miles to the S of the centre, but this distance was probably exceeded somewhat to the N of the centre.

Rain fell over about the same areas. The following gives the rainfall measured each day for the 24 hours ending at 9 a :—

Date.	Keelung.	Tamsui.	Middle Dog.	Foochow.	Wenchow.	Ningpo.
July, 14, ...	1.52	2.10	0.45	0.00	1.00	0.33
„ 15, ...	0.20	0.00	0.45	1.60	2.80	.0.80

On the 15th pressure had increased on the E and SE coasts but had decreased to the extent of about 0.10 inch at the more western of the Yangtze stations. At Kiukiang and Hankow the barometer readings were lowest about mid-day and the wind veered from NE in the morning to SE in the afternoon blowing with the force of gentle to strong breezes. A little drizzling rain fell at Kiukiang but the weather was fine at Hankow.

These observations show evident traces of the passage westward of the typhoon which had now doubtless filled up to a great extent and become an ordinary depression.

The next typhoon (VII) made itself felt at the Luzon and Formosa stations on the 16th. The centre passed a little to the north of Keelung (N. Formosa) on the 17th about 1 p. and entered the E coast between Foochow and Wenchow about 2 a. on the 18th. Moving then towards NNW it passed between Kiukiang and Wuhu on the 18th and to the W of Tientsin on the 19th. Recurving to the ENE it passed to the N of Newchwang and Wladiwostok on the 20th and thereafter moving E re-gained the Pacific on the evening of the 21st after passing across the province of Hokkaido (N. Japan).

The following noon observations are for the period July 16th to 18th inclusive :—

Stations.	July 16th.				July 17th.				July 18th.			
Woosung, ...	29.82	SE	4	c.	29.74	SE	5	o.	29.61	SE	8	cq.
Sleep Island, ...	.86	SE	3	c.	.76	SE	5	c.	.72	SE	8	cq.
Wenchow, ...	.82	E	2	or.	...	...	...	...	.62	SE	3	or.
Foochow, ...	.72	NE	4	o.	...	...	...	...	.62	SSW	3	o.
Tamsui, ...	.71	ESE	6	cpq.	...	...	...	...	.73	SE	5	or.
Keelung, ...	.75	E	2	o.	...	...	...	...	.66	SE	3	o.
Amoy, ...	.66	NE	4	b.	29.47	NE	2	c.	.62	SE	3	c.
Fisher Island, ...	.63	NNW	2	c.	.43	N	5	c.	.69	SE	3	ogd.
Anping, ...	.60	SW	2	c.	.40	NNW	2	or.	.68	SW	4	rgq.
Takow, ...	.61	N	2	c.	.42	WNW	4	o.	.77	S	5	oqp.
South Cape, ...	.63	ENE	4	c.	.43	WSW	6	cgd.	.81	SSW	5	omd.
Swatow, ...	.64	ENE	2	c.	.50	WSW	2	o.	.61	SW	3	c.
Hongkong, ...	.64	E	2	o.	.56	W	2	o.	.65	...	0	o.
Aparri, ...	.53	WSW	3	c.	.61	SSE	4	o.	.80	S	2	c.
Bolinao, ...	.72	S	2	orq.	.70	SW	3	or.	.84	S	2	o.
Manila, ...	.73	SW	5	or.	.77	SW	1	o.	.85	SSW	1	o.

VESSELS.

July 16th.

S.S. Pathan, ...	28°59′	123°50′	29.85	E	6	c.
„ General Werder, .	27 58	126 28	.87	E	6	cp.
„ Afghan, ...	24 04	125 54	.80 ?	E	5	oq.

July 17th.

S.S. Ancona, ...	30°22′	126°35′	29.90	SE	4	b.
„ General Werder, .	30 02	130 58	30.00	SE	4	c.
„ Afghan, ...	25 05	127 07	29.96 ?	SSW	9	q.

July 18th.

S.S. General Werder, .	33°20′	135°42′	30.15	NE	1	b.
„ Afghan, ...	28 14	126 07	.17 ?	S	5	o.
„ Ancona, ...	27 45	123 20	29.82	SE	6	opq.
„ Vorwaerts, ...	26 47	120 22	.62	SSW	7	
„ Ningpo, ...	26 13	120 02	.65	S	5	o.
„ Pathan, ...	25 00	119 47	.58	S	6	c.

N.B.—Barometer readings S.S. *Afghan* are uncorrected.

On the 15th and 16th pressure was decreasing in Luzon and on the latter date SW winds, strong in some places, blew generally throughout the island with wet weather. Pressure was lowest at Aparri in the extreme north. Pressure had also decreased nearly 0.1 inch in S. Formosa and in the neighbourhood of Amoy during the 24 hours previous to noon of the 16th. Strong NE breezes blew in the Formosa channel while at S. Cape the wind backed from NE in the morning to NNW during the evening, the force being about 4. The barometer had continued to fall and read 29.51 at midnight, the weather, at the same time, having become squally. Owing to a depression advancing from the land area, pressure was decreasing at the N. China stations but in SW Japan it remained high at about 30.00 inches. Strong breezes from E to SE were blowing between Japan and N. Formosa.

The S. S. *Afghan* was, at noon on the 16th, about 200 miles to the eastward of N. Formosa. She was in the right-hand front quadrant and experienced a heavy SE swell with wind increasing from the E. At midnight, the vessel having made some slight progress towards N, the wind had veered to ESE blowing a fresh gale with incessant heavy rain, fierce squalls and a high sea. The barometer, which appears to require a negative correction of at least 0.2 inch read 29.80 uncorrected.

The centre of the typhoon (VII) at noon on the 16th was perhaps in 21° 125°, but this is a rough approximation only. The isobars appear to have been very much elongated in an ENE and WSW direction at this time and we have no data to the Eastward of the centre.

On the 17th the barometer was rising in Luzon with light to moderate breezes from S and SW. On the China coasts pressure was decreasing generally and excessively so on the SE coast and in Formosa. The typhoon was moving towards NW and approaching N Formosa during the morning, the centre at noon being situated, a few miles to the ESE of Keelung, in 25° 05′, 122° 05′.

The following observations were made during the day at the stations lying near the path of the centre :—

Date and Hour.	Keelung.	Tamsui.	Turnabout.	Middle Dog.	Foochow.	Wenchow.
July 17, 3 a.,.	... ...	... ...	NNE 5 cm.	NE 4 omd.	29.61 NE 4 c.	... ...
6 a.,.	... ...	... ...	„ 5 „	„ 4 „	... ...	... ...
9 a.,.	29.42 N 6 or.	29.40 NE 5 orq.	„ 6 cp.	„ 4 „	.56 „ 4 or.	29.71 NE 1 or.
Noon,	... ...	... ...	N 7 gp.	NNE 4 „	... ...	... ...
3 p.,.	28.97 S 8	28.63 WNW 10	NW 10 gm.	N 8 omrq.	.36 „ 6 o.	.61 „ } Force of wind 6 to 9. At midnight barometer rising, wind and rain abating.
6 p.,.	... ...	... ...	WNW 11 mpq.	WNW 9 „	... ...	.56 „
9 p.,.	29.37 E 3 o.	29.37 SW 10	WSW 10 grq.	NW 9 „	.26 NW 6 or.	.51 E
Midt.,	... ...	... ...	SSW 10 gpq.	SW 8 „	... ...	.42 SE

The following observations were made on board vessels which were involved in the strong winds near the centre :—

S.S. PATHAN, Japan towards Hongkong.			S.S. NINGPO, at anchor in 26° 35′, 120° 07′.	S.S. VORWAERTS, at anchor in 26° 56′, 120° 19′.
July 17, 4 a.,	29.59 ENE 2	heavy beam sea.	July 17, Noon, 29.45 NNE 6 o.	July 17, Noon, 29.61 ... ...
8 a.,	.56 „ 5 o.	high sea.	2 p., .38 „ 8 orq.	4 p., .54 NNE 10 orq.
Noon,	.44 NE 4 op.	26° 06′ 120° 46′.	4 p., .33 „ 8 „	6 p., .47 NE/N 12 „
1 p.,	... NNE	wind and sea increas-	5 p., .27 „ 9 „	8 p., .42 „ 12 „
4 p.,	.09 N 10	[ing: hove to.	8 p., .12 N 8 „	10 p., .31 „ 12 „
7 p.,	28.94 NNW		9 p., .07 „ 9 „	Midt., .00 NNE 12 „
8 p.,	.89 „ 12		10.30 p., 28.90 NNW 8 „	July 18, 1 a., 28.62 NNW 12 „
9 p.,	29.11 NW		11 p., .88 NW 7 „	2 a., .97 WSW 12 „
10 p.,	.19 W		11.30 p., .82 WNW 9 „	3 a., 29.15 SW 12 „
11 p.,	.19 W/S	full speed south.	Midt., .84 W 10 „	4 a., .19 SSW 11 „
Midt.,	.24 WSW	wind and sea decreasing	July 18, 1 a., 29.01 SW 8 „	5 a., .38 „ 10 „
		and hauling to SW.	4 a., .35 SSW 4 or.	9 a., .62 „ 9 „

The observations made at Keelung and Tamsui are very incomplete and the corrections to be applied to the barometer readings are not accurately known. We understand, however, that at Keelung the barometer attained its lowest point, about 28.5 inches, at 1 p. the wind blowing with full typhoon force from noon until after 2 p. and backing meanwhile from N to SW. The centre probably passed about 15 miles to the E and N of the town during this interval. The typhoon appears to have been moving towards NW up to this time, but it probably inclined somewhat to the westward during the afternoon and passed to the N of Tamsui towards 4 p. Later in the evening it moved NW by N, and the S.S. *Pathan* which had been hove to at 1 p. had the centre passing a few miles to the eastward of her position at 8 p. This vessel had apparently drifted towards NW between the time she was hove to and 8 p. The steamships *Ningpo* and *Vorwaerts* had gone into shelter during the morning. At midnight the centre had approached their positions and was situated at this hour in 26° 45′, 120° 35′ or about 20 miles to the SE by E of the *Vorwaerts* and about 30 miles to the ENE of the *Ningpo*. The *Vorwaerts* experienced typhoon force of wind from 6 p. of the 17th until 3 a. of the 18th. The direction backed quickly from NNE at midnight to WSW at 2 a., the lowest reading of the barometer occurring at 1 a. The centre must have passed about 15 miles to the east of her position at the latter hour, moving towards NW and entering the coast by Nam Quan harbour between 2 a. and 3 a.

Between noon and midnight of the 17th the average rate of progression was 11 miles per hour.

Some average wind forces in different bearings on July 17th are exhibited in the following table; observations on shore and at sea have been used in their determination :—

Distance from the centre.	In front.	Left-hand Semicircle.	In rear.	
Miles.				
25	12	11	12	The data is insufficient to determine the values for the right-hand semicircle, but force 6 blew at a distance of 300 miles.
50	9	9	9	
100	8	6	...	
150	6	5	...	

The following table shows the rainfall in inches as measured for the 24 hours ending at 9 a. each day :—

Date.	South Cape.	Lamocks.	Takow.	Anping.	Fisher Island.	Chapel Island.	Amoy.	Ockseu.	Turn-about.	Keelung.	Tamsui.	Middle Dog.	Foochow.	Wen-chow.	Ningpo.
July 17, ...	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.04	0.50	1.88	0.34	0.15	0.20	0.08
„ 18, ...	2.85	0.00	0.72	1.32	0.05	0.00	0.00	0.00	0.55	4.70	0.88	1.07	0.54	5.00	0.73

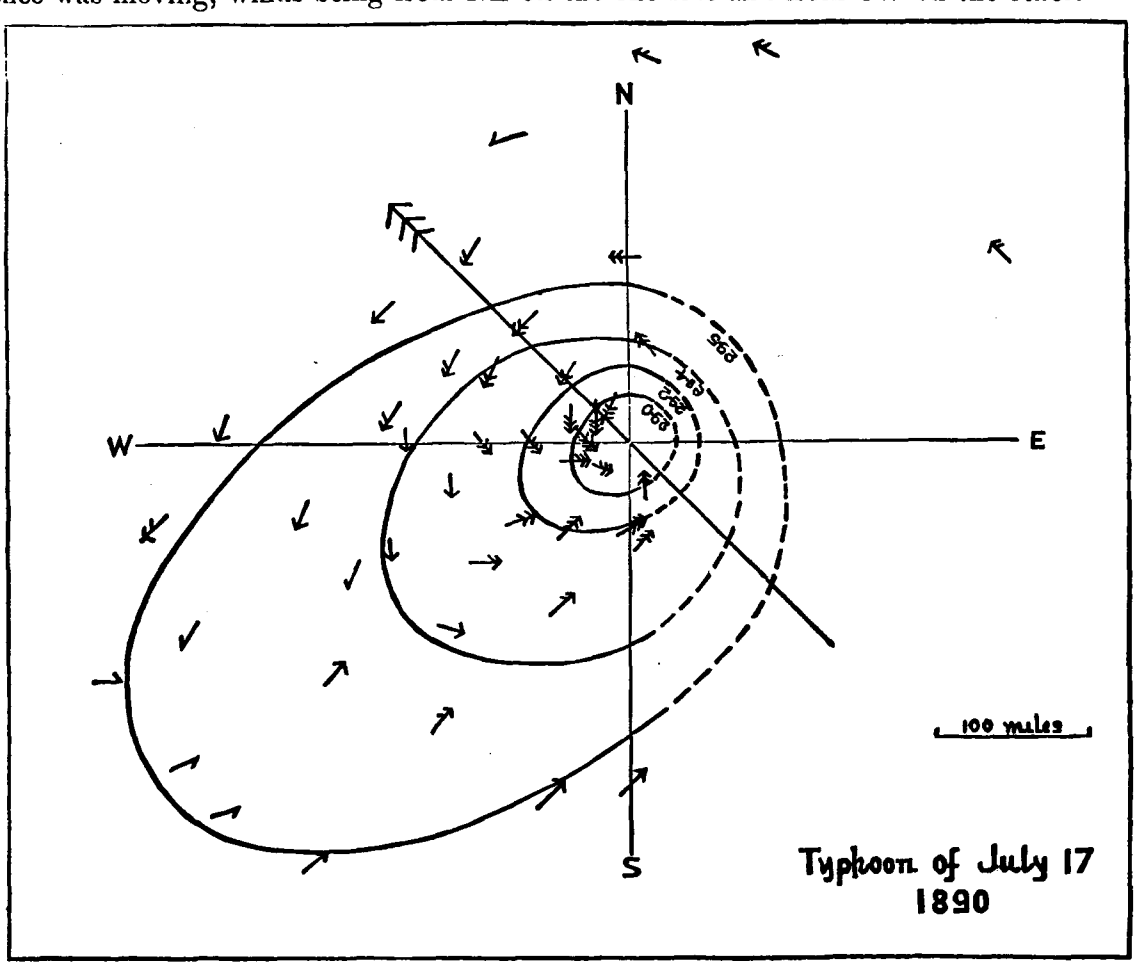
On the 17th the average limit of continuous rain appears to have been at a distance of about 100 miles from the centre. Between 100 and 200 miles to the NW or in front of the centre it was showery. Beyond the 100-mile limit to the SW of the centre the weather was fine, the sky being partially clouded only; but showery weather prevailed at a distance of 200 miles to the S of the centre, lightning also being noted. The heaviest rainfall was recorded at Keelung and at Wenchow.

The following table, constructed from observations made at 3 a., 9a., noon, 3 p., 9 p. and midnight on July 17th, exhibits the average height of the barometer in various azimuths and at different distances (in miles) from the centre. The figures for the NE, E and SE directions are approximate only, owing to insufficiency of data :—

Height of Barometer.	N	NE	E	SE	S	SW	W	NW
Ins.								
29.0	30	30	30	30	30	40	35	30
.2	50	45	45	50	50	70	65	55
.4	65	65	65	90	130	180	135	85
.5	100	95	95	130	190	300	240	120

These figures show that the disturbance was oval-shaped, the major axis lying from NE to SW. The outer isobars were very much elongated towards the SW, and to this circumstance must be ascribed the moderate to strong NE and NNE breezes which blew in the Formosa Channel while the centre of the disturbance was situated to the E and ENE at a distance of between 150 and 300 miles.

On reference to the annexed drawing it will be seen from the outer isobars towards SW of the centre that there are some indications of a trough lying at right angles to the direction in which the disturbance was moving, winds being from NE on the one side and from SW on the other.



After entering the coast, about 2.30 a. on the 18th, the disturbance moved towards NNW, its rate of progression being at the same time accelerated to about 20 miles per hour. The centre at noon was probably in about 30°, 118° and at 3 p. it was situated between Wuhu and Kiukiang. At the former station the barometer fell 0.30 inch between 3 a. and 3 p., the lowest recorded reading occurring at the latter hour and the wind veered from NE force 4 at 9 a. to E force 4 at 3 p., the weather being wet. At Kiukiang the barometer fell 0.07 inch between 3 a. and 3 p. the wind backing from NE force 3 at 9 a. to W force 3 at 3 p. with rainy weather. The corrections to be applied to the barometer readings at these two stations are unknown, but the disturbance had evidently filled up to a great extent since entering the coast. During this day strong SE gales blew at Ningpo, at Shanghai and at the lighthouses on that part of the coast. The minimum barometer readings occurred in these districts about 9 a. At Chinkiang there blew a whole SE gale at 3 p. decreasing to force 8 at 9 p., the lowest recorded reading of the barometer being made at the latter hour. Moderate to strong E breezes were blowing in the Gulf of Pechili on the 18th, but the barometer did not commence to fall until the morning of the 19th at which time the depression was advancing northwards towards Tientsin at an average speed of about 22 miles per hour.

The observations made at the Taku lightship show that the barometer fell 0.28 inch between 1 a. and 4 p. the wind veering gradually from E force 6 at 1 a. to SE force 8 at 1 p., the weather being wet. At 4 p., with the lowest recorded barometer reading, the wind had further veered to SSW of force 5 and thereafter, with rising barometer, to SW and WSW of force 4. The centre evidently passed at no great distance to the west of this station during the afternoon and it was, at the same time, recurving to the NE. Later in the evening it appears to have been moving towards ENE and its speed diminished to about 15 miles per hour at this time. At Newchwang the barometer, which had been falling since 7 a., showed a decrease of 0.32 inch at 10 p. for those 15 hours. The wind had been light from NE in the morning to SE in the afternoon, but it increased to a moderate SSE gale at 10 p. with rain. The minimum reading of the barometer, after a further slight fall since 10 p., occurred about 7 a. on the 20th with wind at S of force 6 and wet weather. At 10 a. the barometer was rising with SSW 6 and during the afternoon it veered to SW and in the evening to NW with the force decreasing to a gentle breeze. After passing to the north of Newchwang on the afternoon of the 20th the disturbance moved with great rapidity towards Wladiwostok; at this station the barometer fell rapidly during the afternoon of the 20th with a gentle SE breeze. At midnight they had a gale from SW with barometer 29.46, and at 7 a. on the 21st the barometer had risen to 29.59 with a fresh N breeze. The centre would appear to have passed a little to the north of Wladiwostock soon after midnight of the 20th and thereafter to have continued its course to the eastward. According to the Japanese weather maps, it entered the north part of the Sea of Japan during the morning of the 21st, subsequently crossing N Japan (Hokkaido) on the afternoon of the 21st. It re-entered the Pacific late the same evening.

The following observations refer to a small but violent typhoon (VIII) which passed over South Cape, Formosa, on the 21st July:—

OBSERVATIONS AT NOON.

Station.	July 20th.				July 21st.				July 22nd.			
Wenchow,	29.94	ENE	2	cf.	29.85	ENE	2	c.	29.83	ENE	2	cd.
Foochow,	.89	E	1	b.	.80	E	3	o.	.73	N	3	c.
Amoy,	.92	S	2	b.	.74	SW	1	b.	.75	SW	2	b.
Swatow,	.88	calm	...	c.	.78	WSW	1	c.	.77	WSW	2	c.
Hongkong,	.83	SE	2	o.	.80	calm	...	or.	.79	SW	2	o.
Aparri,	.80	var.	1	c.	.79	var.	2	c.	.86	ENE	4	c.
Bolinao,	.85	WSW	2	o.	.85	ENE	1	o.	.86	S	1	o.
Manila,	.84	SW	1	o.	.86	WSW	1	o.	.90	S	1	o.

DETAILED OBSERVATIONS MADE IN FORMOSA, AT FISHER ISLAND, AND AT TURNABOUT.

Date and Hour.	Takow.	Anping.	Fisher Island.	Turnabout.	Tamsui.
July 21, 3 a.,	... ...	29.69 N 3 og.	29.69 NNW 5 cm.	29.74 NNE 4 cm.	... ...
6 a.,	... ...	... ...	.69 „ 5 „	.73 „ 4 „	... ...
9 a.,	29.72 N 2 or.	.68 ... 0 r.	.72 „ 5 „	.75 „ 4 „	29.68 SE 5 c.
Noon,	... ...	... ...	.70 „ 5 „	.72 „ 5 „	... ...
3 p.,	.55 NNW 2 oq.	.60 N 3 r.	.65 „ 5 „	.65 NE 5 „	.63 SE 7 cq.
6 p.,	... ...	... ...	.63 „ 5 „	.63 „ 4 „	... ...
9 p.,	.60 WNW 10 opq.	.52 NNW 4 oq.	.71 „ 6 omd.	.67 N 4 bm.	.57 SE 8 cq.
Midt.,	... ...	... ...	.69 W 6 og.	.67 NNW 4 bml.	... ...
22, 3 a.,	... ...	.74 NW 5 rqlt.	.68 „ 6 omd.	.65 „ 4 cm.	... ...
6 a.,	... ...	... ...	.73 „ 4 „	.67 „ 3 „	... ...
9 a.,	.77 SW 9 or.	.76 NW 3 r.	.77 SW 3 „	.71 „ 3 „	.70 SE 2 c.
Noon,	... ...	... ...	.75 „ 3 c.	.73 „ 2 „	... ...
3 p.,	.77 SSW 8 or.	.70 SW 7 rq.	.72 „ 5 cm.	.71 NNE 2 „	.73 NE 1 or.

OBSERVATIONS MADE AT THE SOUTH CAPE LIGHTHOUSE.

Date and Hour.	Bar.	Temp.	Wind.	Weather.	Date and Hour.	Bar.	Temp.	Wind.	Weather.
July 20, Noon,	29.87	84	NNE 4	cq.	July 21, 1.30 p.,	29.16	...	SSW 12	rpqlt.
3 p.,	.79	78	NE 4	cgmd.	2 p.,	.26	...	„ 12	„
6 p.,	.74	76	NNE 4	„	3 p.,	.51	74	„ 12	„
9 p.,	.74	77	NNE 4	omr.	4 p.,	.60	...	„ 11	„
Midt.,	.64	78	ENE 5	„	6 p.,	.66	75	„ 9	rpq.
21, 3 a.,	.64	78	E 7	omg.	9 p.,	.78	74	„ 9	„
6 a.,	.59	76	E 8	omgr.	Midt.,	.79	74	„ 8	„
9 a.,	.48	74	ESE 10	orq.	22, 3 a.,	.79	75	„ 7	omrq.
10 a.,	.37	...	ESE 10	„	6 a.,	.79	76	„ 6	„
11 a.,	.21	...	ESE 12	orpq.	9 a.,	.79	77	„ 6	„
Noon,	.03	74	SSE 12	„	Noon,	.83	77	„ 4	omr.
12.30 p.,	28.90	...	S 4	cgm.	3 p.,	.83	77	SW 4	„
1 p.,	.96	...	S 3	„					

The following gives the wind direction and velocity in miles per hour as recorded by the Beckley anemograph at the South Cape lighthouse. The direction given is that recorded at the hour, and the velocity is the distance traversed from half an hour before until half an hour after the time named:—

Date and Hour.	Direction.	Velocity.	Date and Hour.	Direction.	Velocity.
		m. p. h.			m. p. h.
July 20, Noon,	NE	23	July 21, 1 a.,	ENE	30
1 p.,	NE by N	20	2 a.,	E by N	32
2 p.,	„	19	3 a.,	E	38
3 p.,	„	27	4 a.,	E	35
4 p.,	„	18	5 a.,	E by S	44
5 p.,	NNE	25	6 a.,	„	50
6 p.,	„	21	7 a.,	„	57
7 p.,	„	25	8 a.,	ESE	56
8 p.,	„	27	9 a.,	„	68
9 p.,	„	25	10 a.,	SE by E	73
10 p.,	„	28	11 a.,	ESE	91
11 p.,	„	32	Noon,	SE	95
Midt.,	NE by E	36	12.30 p.,	SSE	...
			1 p.,	S	Cups blew
			2 p.,	S by W	[away.
			3 p.,	SSW	

Between the 19th and 20th July a slight decrease of pressure took place in Luzon, on the SE coast of China and in Formosa. On the latter day light variable airs and breezes chiefly from S and SW prevailed in N. Luzon with clouded skies, while in Formosa and the channel winds were light to moderate from NE and N with fair weather. At South Cape, however, the barometer commenced to fall rather rapidly towards the evening and the wind, which had been moderate from NNE and NE during the day, veered to ENE at midnight, the force increasing at the same time.

The centre of typhoon VIII at noon on the 20th was apparently situated to the SE of S. Cape but the disturbance was evidently of small area and the Luzon stations were scarcely affected. On the morning of the 21st the disturbance was moving northward and approaching S. Cape. The observations made there show that the wind attained typhoon force from ESE at 11 a. and that the station was situated on the eastern edge of the central calm at 12.30 p. The observer furnished the following notes:—

"12.15 p. Rain ceased.

12.25 p. Wind (South) suddenly fell in force from 12 to 4; overhead blue sky and detached clouds became visible, but round the horizon the weather remained misty and gloomy.

1.00 p. Very heavy rain commenced and at the cyclone broke forth again with a tremendous force accompanied by thunder and lightning of the most vivid kind from SSW. The lightning was of an intense blue colour."

The above notes are interesting as showing the cessation of rain and the partial clearing of the sky at the centre. Also lightning and thunder were observed in the immediate neighbourhood of the centre, and this feature of the disturbance was an unusual one, lightning and thunder rarely being observed near the centres of the typhoons of the China Seas. The gradients were steeper in rear than in front of the centre. Unfortunately the cups of the anemograph blew away at 1.10 p., but it appears probable that the velocity, at the rate of 100 miles per hour recorded by the instrument between 11.45 a. and 12.15 p., was exceeded after the passage of the centre.

After passing South Cape the disturbance moved northwards in Formosa and during the evening the centre passed to the east of Takow and Anping. During its progress over the land it was rapidly filling up, but next morning it apparently still existed as a feeble depression at the northern entrance to the Formosa Channel.

A small depression (IX) appears to have been formed between the East coast of China and SW Japan on the 26th July. The S. S. *General Werder* in 31° 50′, 128° 58′ at 9 p. on this day had the barometer (29.81) falling with a moderate increasing gale from ESE accompanied by rainsqualls. On the 27th at 4 a. in 31° 36′, 127° 42′, the barometer had fallen to 29.42 with the wind a fresh to strong gale from ESE. Between 4 a. and 6 a. the wind rapidly backed to ENE and NNE with the barometer rising at the latter hour. At noon in 31° 08′, 126° 05′ the wind had decreased to a fresh N by W breeze and the barometer had risen to 29.73. The centre thus passed at a short distance to the South of this vessel near 5 a. moving towards the East. During the evening it moved northwards along the W coast of Kiushiu (Japan), and early on the morning of the 28th it entered S. Korea near Fusan.

AUGUST.

During the month of August the coasts of China were not directly affected by any typhoons, but four depressions entered Japan from the Pacific area. Of these the disturbance of August 2nd to 5th (X) and that of August 22nd to 24th (XI) were the most important, the latter causing whole gales in Central and Northern Nippon during its passage northward. The tracks are taken from the Japanese weather maps.

SEPTEMBER.

The following noon observations refer to a typhoon (XII) which appears to have been formed in the China Sea on the 6th September:—

STATIONS.

	Sept. 5th.	6th.	7th.	8th.	9th.
Amoy, ...	29.67 NE 2 c.	29.72 NE 2 c.	29.80 NE 2 b.	29.85 NE 4 cm.	29.81 NE 3 c.
Hongkong, ...	.68 SSE 1 b.	.67 E 2 c.	.73 E 5 c.	.78 E 4 o.	.77 ENE 1 o.
Pakhoi, ...	.73 NNE 4 c.	.72 NNE 3 c.	.69 NNE 4 c.	.71 NE 5 c.	.70 NE 5 c.
Haiphong, ...	.74 NE 2 o.	.76 NNE 2 b.	.76 ... ... c.	.75 NNW 2 c.	.72 SE 2 opq.
Hoihow, ...	.75 NNE 1 o.	.79 NE 3 c.	.72 NE 9 oq.	.68 NE 8 orq.	.72 ENE 5 orq.
South Cape, ...	.63 ENE 2 c.	.71 NE 2 c.	.73 NE 1 c.	.81 NNE 2 cg.	.79 NE 2 cgd.
Bolinao,.....	.70 SSW 2 o.	.68 SSW 2 or.	.74 S 2 o.	.80 SE 3 o.	.81 SE 2 o.
Manila, ...	.68 WSW 3 o.	.71 SW 2 o.	.77 SSW 3 o.	.81 SW 2 c.	.84 calm o.

VESSELS.

5th September.

Bk. Penshaw,.....	20° 25′	120° 10′	...	SE	2 o.	S S. Nizam, ...	13° 52′	112° 29′	29.83	N	2 o.
S.S. Chusan,.....	15 43	110 05	29.67	N	4 b.	„ China, ...	12 42	109 41	.62	W	1 cm.

6th September.

S.S. General Werder,	23° 14′	117° 28′	29.70	NE	5 c.	S.S. Chusan, ...	18° 44′	112° 01′	29.62	N	7 or.
Bk. Penshaw,.....	20 16	118 33	...	SE	... orq.	„ Nizam, ...	17 48	113 41	.63	NNW	1 orq.
S.S. Diamante, ...	19 46	116 01	...	E	2 c.	„ China, ...	16 40	110 40	.58	N	6 orq.

7th September.

S.S. Chusan, ...	21° 20′	113° 24′	29.68	NE	8 or.	Bk. Penshaw, ...	20° 07′	116° 23′	...	SW	... orq.
„ Nizam, ...	21 20	113 59	.77	NE	7 orq.	S.S. China,.....	19 02	112 03	29.51	ENE	11 ...
„ Zafiro, ...	20 45	118 53	.75	SE	... orq.						

8th September.

Bk. Penshaw, ...	20° 39′	114° 56′	...	NE	7 og.	S.S. Zafiro,.....	17° 00′	119° 33′	29.78	S	6 opq.
„ Tarapaca,.....	19 47	115 09	...	SW	2 ...	„ Irrawaddy,.....	14 49	110 24	.63	SW	5 ...
I.M C. Likin, ...	18 12	109 33	29.45	NW	6 orq.						

On the 4th and 5th September pressure was increasing along the Yangtze and on the E coast of China in rear of a depression which had passed from the land to the sea area in the neighbourhood of Shanghai on the 3rd. NE breezes were spreading down the China coast on the 4th and they blew on the 5th with the force of moderate to fresh breezes in the Formosa Channel where also pressure had now increased. In Luzon pressure had decreased between the 3rd and 5th and on the latter date it was about 0.2 inch below the normal. Light SW breezes prevailed, chiefly, during the interval.

On the 6th the barometer had commenced rising in Luzon, light S to SW breezes continuing to prevail there. On the S coast of China and in the neighbourhood of the Formosa Channel pressure had also increased. In these districts the weather was fine and moderate to fresh NE breezes prevailed.

The marine data for the 6th shows that strong N breezes were blowing to the SE of Hainan, and from observations made on board the S.S. *Nizam* it is clearly established that a depression of a cyclonic character was in existence on this day. This vessel was proceeding on a northerly course bound for Hongkong. During the morning the barometer fell rather rapidly; the weather was wet and squally,

and the wind, of force 4, was veering from W towards N. In the afternoon the wind attained a NE direction blowing with force 5 and in the evening the barometer commenced to rise. The *Nizam* therefore passed from the SW quadrant in the morning to the NW quadrant in the evening and the centre of the depression, which was apparently of slight intensity at this time, was perhaps situated at a distance of about 100 miles to the E of her position at noon and in 17½°, 115½°.

On the 7th a further increase of pressure had taken place in Luzon and on the SE and E coasts of China but a decided decrease had occurred in Hainan. In Luzon winds were chiefly from S and SW light to moderate in force. Strong E to NE breezes prevailed at Hongkong and in the Formosa Channel, and at Hoihow (Hainan) a strong NE gale was experienced.

The information from the sea area is scanty, no observations to the southward of the centre being available; but from the observations made on board the S.S. *China* the centre may be placed approximately in 17¾°, 112½° at noon on the 7th. This vessel experienced winds of storm force from ENE at noon with high cross sea. At 10 p. they still had a whole gale from ENE but the barometer had risen to 29.59.

On the 8th a further decrease of pressure had occurred at Hoihow (Hainan), while on the SE coast of China and in Luzon the barometer continued to rise. At Hongkong fresh to strong E and ENE breezes prevailed accompanied by showery weather, while at Hoihow a fresh to strong NE gale accompanied by rainsqualls was experienced throughout the day.

The following observations were made on board the I. M. Customs Cruiser *Likin* at anchor in Yulinkan Bay on the extreme south coast of Hainan. The readings of the barometer are uncorrected and they are believed to require, if anything, a small negative correction :—

September 8th,	1 p.	29.41	NW	6	orq.	
	2 „	.28	NW/N	8	„	
	3 „	.19	NNW	8	„	Ship riding easily, being comparatively sheltered from the greater violence of the wind.
	4 „	.09	NW	7	„	
	4.30 „	.05	NNE		„	
	5 „	.09	E	5	„	
	6 „	.37	SE/S	7	„	

The above observations show that the centre passed over, or perhaps a little to the southward of, the vessel's position between 4 p. and 5 p., and at noon it may be placed in 18° 00′, 110° 00′.

On the 9th a slight decrease of pressure had occurred at Haiphong while at Hoihow the barometer had risen. The wind had veered to SE at Haiphong and to ENE at Hoihow, while on board the *Likin* still at Yulinkan the barometer had risen to 29.69 at noon and a moderate SSE breeze was blowing accompanied by showery and squally weather. The typhoon would thus appear to have continued to move towards the west across the southern entrance to the Gulf of Tongking.

Typhoon XIII entered W Kiushui (Japan) on the afternoon of the 23rd September and subsequently traversed Japan on the 24th and 25th moving in a NE direction. The track is taken from the Japanese weather maps and by aid of the observations made at Naha (Loochoo islands), it has been prolonged to the southward in the Pacific. At Naha the barometer fell quickly on the 20th and a fresh gale was blowing from N and NNW. The barometric minimum, 29.22, occurred at 10 p. on the 21st, a heavy N backing to NW gale being experienced on this day. The typhoon centre thus passed at a short distance to the E of this station on the evening of the 21st.

The following noon observations refer to typhoon XIV which after forming in the China Sea to the NW of Palawan, moved NNW and NW towards Hainan between the 21st and 25th of September :—

COAST STATIONS.

	September 20th.	21st.	22nd.	23rd.	24th.	25th.	26th.
Amoy,	29.85 SE 4 b.	29.85 NE 2 b.	29.91 NE 2 b.	29.92 NE 3 b.	29.92 NE 4 c.	29.89 NE 4 b.	29.94 NE 3 b.
Hongkong,	.85 SE 2 b.	.86 N 2 c.	.89 N 3 b.	.85 N 4 o.	.81 N 3 o.	.79 ENE 5 o.	.88 E 6 or.
Pakhoi,	.91 var. 2 b.	.93 NNE 5 c.	30.01 N 5 c.	.97 NNE 5 c.	.85 N 5 c.	.90 N 7 or.	.90 N 4 or.
Haiphong,	.91 ESE 2 cm.	.93 NE 1 c.	.01 NE 3 c.	.98 NE 2 b.	.89 NE 3 c.	.84 NW 2 b.	.86 NE 3 c.
Hoihow,	.89 NE 3 c.	.90 NE 4 cq.	29.93 NE 6 c.	.88 NE 8 c.	.82 NE 6 or.	.77 N 7 orq.	.79 ESE 4 orq.
S. Cape,	.79 NE 3 c.	.79 NE 2 c.	.83 NE 3 c.	.83 NE 3 c.	.83 NE 5 cd.	.84 NE 5 c.	.84 NE 3 c.
Bolinao,	.77 WNW 1 o.	.72 S 2 c.	.75 SSE 3 or.	.78 SSE 3 o.	.80 SSE 2 o.	.79 SSE 2 c.	.84 WNW 2 or.
Manila,	.76 SW 1 o.	.75 calm. o.	.79 calm. o.	.82 calm. o.	.84 WSW 1 o.	.83 SW 1 o.	.83 N 1 or.

VESSELS.

September 20th.

S.S. Zafiro,	20° 48′	119° 01′	29.81	NE	3 p.	S.S. Teheran,	16° 09′	110° 15′	29.84	W	4 orq.
Bk. W. Le Lacheur,	19 55	116 19	...	NE	5 ...	„ Kong Beng,	8 54	105 55	.80	W	6 or.
S.S. M. Jebsen,	11 32	120 55	.84	W	4 orq.	„ Avochie,	6 57	108 49	.83	WSW	6 q.

September 21st.

Bk. W. Le Lacheur,	18° 51′	117° 30′		ENE	8 ...	S.S. Teheran,	13° 42′	112° 09′	29.73	NW	4 ogqr.
S.S. Wingsang,	18 57	113 49	29.73	ENE	5 ...	„ Taicheong,	12 41	109 42	.82	NW	6 or.
„ Zafiro,	16 33	119 29	.74	E	2 c.	„ Soochow,	10 18	107 28	.81	NW	4 or.
„ M. Jebsen,	14 20	119 25	.80	SE	6 ...	„ Avochie,	9 38	109 09	.74	W	7 ...

September 22nd.

Bk. W. Le Lacheur,	17°	44′	118°	48′		ENE	4	...	S.S. Soochow,	12°	44′	109°	38′	29.69	NW	7	orq.
S.S. M. Jebsen,	17	05	117	21	29.76	ESE	8	...	„ Chusan,	12	19	109	29	.70	WNW	7	om.
„ Teheran,	16	02	113	12	.64	NE	7	orq.	„ Avochie,	12	02	109	20	.67	W	5	og.
„ Wingsang,	14	53	112	50	.58	NNE	7	orq.	„ Japan,	11	13	110	58	.69	WSW	9	oq.
„ Taicheong,	14	23	109	44	.78	NNE	8	orq.	„ Afghan,	7	52	109	35	...	SW	8	oq.

September 23rd.

S.S. M. Jebsen,	19°	51′	115°	36′	29.82	ENE	9	or.	S.S. Japan,	13°	18′	112°	19′	29.78	W	7	...
Bk. W. Le Lacheur,	18	48	119	38	...	ESE	...	oq.	„ Calédonien,	13	13	109	56	.77	NW	7	or.
S.S. Teheran,	17	52	113	38	29.61	NE	7	orq.	„ Avochie,	12	31	109	19	.72	NW	3	...
„ Taicheong,	15	30	109	59	.72	NNW	10	...	„ Wingsang,	11	19	110	53	.75	W	8	...
„ Chusan,	14	25	109	42	.74	WNW	8	orq.	„ Afghan,	10	14	110	40	...	SW	...	...
„ Soochow,	14	25	109	50	.71	NW	9	orq.									

September 24th.

S.S. Chowfa,	21°	39′	112°	46′	29.78	NNE	8	orq.	S.S. Taicheong,	15°	55′	109°	52′	29.74	WNW	8	...
„ Taichiow,	20	47	114	26	.59	NE	8	orq.	„ Calédonien,	15	17	113	36	.69	WSW	6	o.
„ M. Jebsen,	20	40	115	48	.76	NE	8	...	„ Chusan,	15	05	110	04	.68	NW	6	or.
„ Teheran,	20	14	114	35	.64	ENE	9	orq.	„ Japan,	15	02	114	08	.73	SW	5	bq.
Bk. W. Le Lacheur,	19	20	119	54	...	var.	2	...	„ Avochie,	14	24	109	53	.66	W	6	...
S.S. Velox,	19	05	108	02	.84	NNE	7	o.	„ Afghan,	12	24	111	34	...	NW	7	b.
„ Soochow,	16	13	109	57	.69	NW	9	...	„ Phra C. C. Klao,	11	05	108	49	.76	var.	1	b.

September 25th.

S.S. Teheran,	22°	02′	114°	35′	29.72	ENE	7	orq.	S.S. Taicheong,	17°	34′	109°	46′	29.78	WNW	5	
„ Chowfa,	21	39	112	46	.76	NNE	6	o.	„ Soochow,	16	48	109	50	.71	WNW	8	opq.
„ Taichiow,	20	41	112	55	.62	E	7	q.	„ Avochie,	16	06	110	35	.69	W	8	q.
„ Calédonien,	20	36	113	56	.75	SE	6	or.	„ Velox,	16	03	109	09	.77	NW	6	c.
Bk. W. Le Lacheur,	19	37	120	08	...	SE	5	o.	„ Chusan,	15	43	108	59	.74	NW	6	c.
S.S. Japan,	18	19	114	47	.78	SSW	5	b.	„ Afghan,	14	52	112	38	...	WNW	6	...

September 26th.

S.S. Chowfa,	21°	39′	112°	46′	29.86	ENE	7	...	S.S. Soochow,	18°	10′	109°	40′	29.72	WSW	2	c.
„ Taichiow,	20	57	112	05	.71	E	7	oq.	„ Afghan,	18	03	113	35	...	SW	4	b.
„ Avochie,	18	33	111	24	.71	NE	3		„ Phra C. C. Klao,	16	22	110	54	.80	W	6	q.

On the 20th September strong W breezes accompanied by wet and squally weather prevailed in the S part of the China Sea, while off the S coast of China a moderate NE monsoon was established; conditions were therefore favourable to the formation of a depression in the intervening area, but it is not until next day, the 21st, that the observations show the existence of a definite cyclonic disturbance with its centre at noon probably near the position 13½°, 115½°. The most noticeable change which had taken place since the previous day was in the wind direction on the SW coast of Luzon where moderate W and SW winds had given place to E and SE winds accompanied by a slight decrease of pressure. The S.S. *M. Jebsen* off the SW coast of Luzon had now a strong SE breeze in place of a moderate W breeze which she had experienced on the previous day when situated some 200 miles to the SSE. On the W side of the China Sea the S.S. *Teheran* steering towards NNE had the wind veering from W to NW and the barometer had fallen about 0.1 inch since the previous day. During the evening the wind direction veered still further and increased to a moderate gale from NE.

On the 22nd at noon the centre was situated in about 14°, 114¼°. Slight increases of pressure had taken place in Luzon and S China during the preceding 24 hours, light or moderate winds chiefly from S and SW, accompanied by wet weather, now prevailed in the former district while moderate increasing breezes from NE were blowing on the S coast of China where however the weather continued fine. At sea moderate or fresh cyclonic gales, accompanied by high seas, prevailed at a distance of about 250 miles from the centre. The S.S. *Wingsang* proceeding towards the SSW from her noon position passed W of the centre during the evening, the barometer falling to its minimum, 29.41, at 8 p. with the wind backing to NW and blowing with the force of a strong gale.

On the 23rd at noon the centre was situated in about 16¼°, 113¾° and the disturbance had thus moved towards N by W at the rate of about 6 miles per hour since noon of the previous day. Pressure was now giving way on the S coast of China, and in Hainan and at Hoihow the wind had increased to a fresh gale from NE. In Luzon the barometer was rising and moderate S winds prevailed.

At sea the S.S. *Teheran*, at a distance of about 100 miles to the N of the centre at noon and steering towards Hongkong, experienced a whole gale from ENE and E during the evening accompanied by a mountainous sea. Several vessels off the Annam coast, at a distance of about 250 miles to the WSW of the centre, experienced fresh or strong gales from NW while the S.S. *Japan*, at a distance of about 200 miles to the SSW of the centre, had a moderate W backing to WSW gale. Very high seas prevailed off the Annam and Cochin China coasts as well as in the N part of the China Sea.

On the 24th at noon the centre was situated in about 18°, 113½°. The disturbance had thus continued to move towards N by W at an average speed of about 4½ miles per hour since noon of the 23rd.

The barometer continued falling in Hongkong and around the Gulf of Tongking while a further slight increase of pressure had taken place in Luzon.

The S.S. *Teheran*, situated at a distance of about 150 miles to the NNE of the centre at noon, still had a strong or whole gale from ENE during the morning, but in the course of the evening the wind began to moderate and the barometer to rise. Fresh and strong NW backing gales were experienced by the steamships *Taicheong* and *Soochow* at a distance of about 250 miles to the WSW of the centre, while fresh or strong SW breezes backing to S were experienced by the steamships *Calédonien* and *Japan* at a distance of about 200 miles to the S of the centre.

On the 25th at noon the centre was probably situated in 19°, 111¾°. Its average speed during the preceding 24 hours was at the rate of about 5 miles per hour, but the direction in which the disturbance had moved between the 22nd and 24th, viz., towards N by W had been changed to WNW between the 24th and 25th.

At Hongkong fresh and strong ENE breezes with overcast sky prevailed, but the barometer had now ceased to fall. At Hoihow (Hainan) a moderate fall of the mercury continued and the wind increased to a fresh gale from N accompanied by rainsqualls.

At sea strong breezes to fresh gales from WNW prevailed now at a distance of about 200 miles to the SW of the centre, the S.S. *Japan* had a fresh SSW breeze with fine weather at a distance of about 175 miles to the ESE of the centre, and the S.S. *Taichiow* a moderate E veering to SE gale, the sea being high and confused, at a distance of about 125 miles to the NNE of the centre. This vessel had become disabled on the previous evening owing to salt water getting below and putting out the fires.

The disturbance would appear to have filled up somewhat between the 24th and 25th as shown by a comparison of the wind forces and barometric pressure at different distances on these two days.

On the 26th pressure had increased considerably in the neighbourhood of Hongkong and moderate but decreasing E gales still continued to blow in this locality. At Hoihow the wind had veered and blew a strong breeze from ESE at 9 a. accompanied by rainsqualls. During the afternoon, however, the barometer rose quickly, the wind veered to SE and decreased and the weather improved. The centre therefore entered Hainan and passed to the S of Hoihow on the morning of this day, but it apparently filled up and ceased to exist as a cyclonic depression shortly afterwards.

The following noon observations refer to typhoon XV which, after crossing Luzon, passed into the China Sea on the morning of September 30th :—

COAST STATIONS.

	September 27th.	28th.	29th.	30th.	October 1st.	2nd.
Woosung,	30.08 ENE 4 c.	30.05 ENE 4 b.	29.91 E 4 b.	29.91 SE 2 c.	29.91 NNE 4 c.	29.96 N 5 b.
Foochow,	29.99 ENE 3 c.	29.93 NE 4 o.	.87 NE 4 c.	.85 NE 4 o.	.82 NE 5 o.	.88 ENE 4 o.
Amoy,	.95 NE 3 b.	.93 NE 3 b.	.83 NE 3 c.	.79 NE 3 b.	.75 NE 3 c.	.80 NE 3 c.
Breaker Pt.,	.94 NE 6 c.	.88 NE 2 c.	.81 NE 3 c.	.79 ENE 2 c.	.73 E 2 c.	.76 ENE 7 c.
Hongkong,	.94 ENE 5 o.	.89 W 1 c.	.81 W 1 b.	.80 W 1 b.	.72 N 3 o.	.76 N 1 o.
Pakhoi,	.96 ENE 3 or.	.90 NNW 1 c.	.85 SW 1 b.	.82 N 3 c.	.87 N 3 c.	.82 N 4 c.
Haiphong,	.93 NNE 2 o.	.93 WSW 2 b.	.89 N 1 c.	.92 NW 1 c.	.87 ... 0 c.	.85 W 1 om.
Hoihow,	.92 NE 3 orq.	.94 ENE 3 b.	.90 NNW 3 c.	.89 WNW 4 c.	.85 NNW 4 b.	.84 NE 2 b.
South Cape,	.89 NE 4 c.	.83 NE 3 c.	.77 NE 3 c.	.70 NE 2 c.	.71 NE 4 c.	.67 NE 4 cp.
Bolinao,	.80 NNW 2 og.	.69 NNW 3 o.	.54 N 6 or.	.40 SE 6 op.	.53 S 4 or.	.69 SE 3 o.
Manila,	.82 ENE 1 o.	.67 ... 0 o.	.51 SW 3 op.	.55 SW 7 oq.	.64 SSW 7 cq.	.71 SW 4 c.

	October 3rd.	4th.	5th.	6th.	7th.	8th.
Woosung,	29.98 N 6 b.	29.94 N 5 b.	29.99 N 5 b.	30.05 NNE 4 b.	30.14 NE 3 b.	30.04 NE 4 b.
Foochow,	.89 NE 3 b.	.89 NE 2 b.	.94 N 2 b.	.03 NE 3 b.	.09 NE 3 b.	29.99 NE 3 b.
Amoy,	.84 NE 3 b.	.85 NE 3 b.	.89 NE 2 b.	.01 NE 3 b.	.05 NE 3 b.	.94 NE 3 b.
Breaker Pt.,	.79 NE 5 c.	.81 NE 4 c.	.86 NE 6 c.	29.98 NE 6 c.	.01 NE 6 c.	.98 NE 4 c.
Hongkong,	.78 E 4 o.	.78 NE 3 o.	.83 NE 3 o.	.95 E 5 o.	.00 E 5 c.	.96 ENE 4 b.
Pakhoi,	.83 N 4 c.	.84 N 4 b.	.85 N 3 b.	.93 NE 3 b.	29.95 NE 3 c.	.95 E 1 b.
Haiphong,	.87 N 2 c.	.85 NNE 3 b.	.87 ... ... b.	.94 NE 1 b.	.96 NE 2 c.	.95 E 3 o.
Hoihow,	.82 NE 4 c.	.84 NE 5 c.	.87 NE 5 o.	.93 NE 8 o.	.97 ENE 8 od.	.91 ENE 7 o.
South Cape,	.74 NE 4 c.	.77 NE 3 c.	.83 NE 3 c.	.89 NE 4 c.	.97 NNE 4 c.	.90 NE 3 c.
Bolinao,	.72 SSE 3 c.	.73 SSE 3 c.	.74 SE 3 c.	.81 SSW 2 o.	.85 var. 2 c.	.80 N 2 b.
Manila,	.77 WSW 4 c.	.76 SW (?) or.	.80 SSE 1 o.	.84 ... 0 c.	.86 W 1 c.	.78 W 1 c.

VESSELS.

September 27th.

Bk. W. Le Lacheur,	19° 30′	120° 52′	...	NE	8 c.	S.S. Zafiro,	19° 53′	115° 47′	29.87	NNE	5 op.
Sh. Adolph,	10 50	114 15	29.89	S	2 c.	„ Guthrie,	7 59	121 48	.94	WNW	5 orq.

September 28th.

Bk. W. Le Lacheur,	19° 35′	121° 03′	...	NE	6 q.	Sh. Adolph,	11° 16′	112° 12′	29.89	W	2 c.
S.S. Guthrie,	11 26	121 18	29.82	WNW	6 orq.	S.S. Memnon,	8 37	119 10	.96	SW	5 ...

September 29th.

Bk. W. Le Lacheur,	20°	29′	120°	12′	...	NE	9	...	Sh. Adolph, ...	12°	57′	113°	27′	29.75	WNW 5 crq.
S.S. Guthrie, ...	14	00	119	48	29.65	NW	6	q.	S.S. Memnon, ...	12	06	119	39	...	WSW 7

September 30th.

S.S. Diamante, ...	21°	00′	118°	55′	...	E	6	o.	S.S. Guthrie, ...	15°	18′	118°	42′	29.59	NNW 9 orq.
Bk. W. Le Lacheur,	20	30	120	03	...	NE	7	...	Sh. Adolph, ...	14	40	115	20	.75	W 5 oq.
S.S. Bengloe, ...	20	56	115	16	29.80	NE	5	...	S.S. Memnon, ...	13	03	118	29	.71	WSW 8 q.
„ Pathan, ...	19	56	115	42	.79	NE	5	...							

October 1st.

Bk. W. Le Lacheur,	20°	13′	120°	37′	...	ENE	9	...	S.S. Pathan, ...	16°	44′	116°	35′	29.49	N 9 q.
S.S. Diamante, ...	18	52	119	00	...	ENE	9	oq.	„ Guthrie, ...	14	50	119	13	.69	W 6 ...
„ Bengloe, ...	18	35	117	17	29.55	NNE	9	orq.	Sh. Adolph, ...	14	04	116	16	.67	WNW 8 oq.
									S.S. Memnon, ...	13	19	117	20	.61	WSW 7 ...

October 2nd.

Bk. W. Le Lacheur,	20°	17′	119°	53′	...	ENE	8	...	S.S. Pathan, ...	16°	00′	116°	00′	29.42	SW 12 ...
S.S. Bengloe, ...	18	47	116	13	29.46	E	10	q.	„ Memnon, ...	14	47	116	23	.61	SW 9 orq.
„ Pakshan, ...	17	35	111	23	.72	var.	...	o.	Sh. Adolph, ...	13	28	117	24	.67	SW 10 o.
„ Diamante, ...	17	19	119	17	...	SE	5	...	S.S. Tongshan, ...	11	24	109	04	.84	W 2 ...
									„ Kong Beng, ...	11	08	108	51	.80	WNW 3 op.

October 3rd.

Bk. W. Le Lacheur,	21°	21′	119°	49′	...	N	7	...	S.S. Memnon, ...	15°	33′	115°	43′	...	SW 10 q.
S.S. Alwine, ...	20	10	110	40	29.78	NNE	6	...	„ Pathan, ...	15	21	116	42	29.60	S 6 ...
„ Nanzing, ...	19	57	118	34	.69	E	7	oq.	„ Activ, ...	15	27	109	50	...	NW 9 ...
„ Peshawur, ...	19	13	113	37	.72?	NE	10	...	„ Tongshan, ...	14	38	110	05	.68	NW 9 ...
„ Bengloe, ...	18	43	116	27	.60	ESE	8	...	„ Diamante, ...	14	27	120	20	...	S 4 ...
„ Pakshan, ...	18	20	111	48	.66	NNE	10	...	„ Kong Beng, ...	14	18	110	36	.73	WNW 4 og.
									Sh. Adolph, ...	13	49	118	06	.66	SW 7 cpq.

October 4th.

Bk. W. Le Lacheur,	21°	48′	119°	55′	...	E	3	...	S.S. Tongshan, ...	16°	15′	110°	29′	...	WNW 7 ...
S.S. Zafiro, ...	20	58	118	49	29.73	E	6	...	„ Activ, ...	15	55	108	40	...	NW 9 ...
„ Peshawur, ...	19	16	112	53	.73?	N	6	...	„ Memnon, ...	15	53	114	55	29.45	SSW 9 ...
„ Pakshan, ...	19	10	111	21	.68	NNE	10	q.	„ Kong Beng, ...	14	34	113	33	.59	WSW 8 ...
„ Nanzing, ...	16	47	119	44	.68	SE	6	b.	Sh. Adolph, ...	14	22	117	22	.68	SW 7 cpq.
									S.S. Pathan, ...	13	54	120	00	.73	SW 6 orq.

October 5th.

Bk. W. Le Lacheur,	20°	34′	120°	13′	...	ENE	5	bq.	S.S. Zafiro, ...	17°	13′	119°	26′	29.73	SSE 4 ...
S.S. Pakshan, ...	19	51	111	31	29.67	NNE	8	...	Sh. Adolph, ...	14	49	116	31	.60	SW 6 cq.
„ Teheran, ...	18	52	114	01	.60	NE	7	orq.	S.S. Kong Beng, ...	14	30	114	00	.61	W 12 q.
„ Memnon, ...	18	01	115	20	.69	SE	5	o.	Bk. Thermopylœ, ...	6	31	106	48	.94	SW ... opq.
„ Tongshan, ...	17	16	110	23	.71	NNW	6	q.							

October 6th.

S.S. Memnon, ...	21°	14′	114°	04′	29.87	...	...	orq.	Sh. Adolph, ...	17°	10′	117°	01′	29.82	ESE 4 c.
„ Pakshan, ...	19	59	111	15	.87	NE	6	...	S.S. Kong Beng, ...	14	46	114	16	.39	SSW 10 o.
„ Teheran, ...	19	28	114	24	.77	ENE	6	o.	Bk. Thermopylœ, ...	8	31	108	19	.94	WNW 5 o.
Bk. W. Le Lacheur,	19	43	121	27	...	NNE	4	...	S.S. Thibet, ...	4	43	106	34	.95	SE 3 b.
S.S. Devawongse, ...	19	28	111	48	.79	NE	8	orq.							

October 7th.

S.S. Pakshan, ...	19°	59′	111°	15′	29.91	NE	7	oq.	S.S. Kong Beng, ...	17°	35′	114°	35′	29.84	ENE 4 o.
Sh. Adolph, ...	19	40	116	28	.91	ENE	7	c.	„ Teheran, ...	17	26	114	36	.85	E 5 oq.
Bk. W. Le Lacheur,	19	10	123	09	...	NNE	5	orq.	„ Devawongse, ...	16	47	110	27	.65	NE 10 ...
S.S. Tongshan, ...	18	04	110	02	.80	NE	9	...	Bk. Thermopylœ, ...	10	53	110	14	.89	SW 6 o.
									S.S. Thibet, ...	7	51	108	39	.88	SW 5 ...

October 8th.

S.S. Kong Beng, ...	20°	33′	114°	22′	29.91	NE	4	b.	S.S. Devawongse, ...	14°	51′	110°	24′	29.72	ESE 5 q.
„ Pakshan, ...	20	19	110	55	.93	NE	5	...	„ Teheran, ...	14	10	112	17	.79	ESE 4 orq.
Bk. W. Le Lacheur,	19	18	122	00	...	NE	5	or.	Bk. Thermopylœ, ...	13	53	112	02	.80	var. 6 ...
S.S. Tongshan, ...	16	21	108	20	.69	ENE	9	or.	S.S. Thibet, ...	10	29	110	46	.86	SW 4 o.
									„ Chowfa, ...	10	24	102	20	.90	NW 5 ...

The typhoon (XV) to which the foregoing observations refer was felt in the SE provinces of Luzon on September 27th and 28th according to the Jesuit Fathers in Manila, and on the 29th it entered the E coast of the island in about 15° Latitude, the central calm area passing over Cabanatuan (15° 29′, 120° 58′) between 9.30 p. and 10 p. when the barometric minimum (29.06) was observed. Hurricane winds from NW in front of, and from SE in rear of, the centre were experienced at that station.

On the morning of the 30th the centre entered the China Sea a few miles to the S of Bolinao. The position of the centre at noon each day, while the disturbance was crossing the China Sea, is given in the following table:—

Date.	Position of centre.		Date.	Position of centre.	
September 30,	15° 45′	119° 45′	October 4,	16° 45′	114° 00′
October 1,	16 30	118 00	5,	16 30	113 45
2,	17 15	115 45	6,	15 30	113 30
3,	17 00	115 15	7,	15 15	111 00

After October 2nd the above are only approximately correct chiefly on account of the doubtful accuracy of the positions of the vessels involved in the storm. Between October 2nd and 6th the disturbance moved very slowly and as many of the vessels were under its influence for several days and had no means of verifying their D.R. positions by observation, it is conceivable that these may be considerably in error, in some instances. As an example, the case of the English mail steamer *Peshawur* may be cited. This vessel left Hongkong for Singapore about noon on October 2nd and on October 4th at 2 p.—the vessel having been hove to on the starboard tack during a portion of this interval—observations were obtained and the vessel was found to be 62 miles N 12° W of the position by account.

Between September 30th and October 2nd the disturbance moved towards WNW with an average speed of 5 miles per hour. On the latter date its progress was retarded and its course towards WNW appears to have been no longer maintained. For in spite of some probable inaccuracy of the positions assigned to the centre, subsequent to October 2nd, the observations sufficiently establish that the average direction of the disturbance was towards WSW, at least after the 4th. From the 6th it moved with increasing speed, and at noon on the 8th it had passed into the Annam coast, the centre probably being situated in about 14½°, 108¼° at this hour.

In connection with the retardation on the 2nd and subsequent alteration of course, it must be noted (I) that another typhoon (XVI), which subsequently moved NNE towards S Japan, was at this time situated in the Pacific to the SSE of Naha, and (II) that pressure was increasing over China between the 1st and 7th, except for a slight interruption on the 4th.

Thus after a delay of between 2 and 3 days its course towards WSW seems to have been finally determined by the increasing depth of the NE monsoon.

The next typhoon (XVII) began to affect the Luzon stations on October 8th. According to the Jesuit Fathers in Manila this typhoon moved up from the SE in the Pacific, the central calm passing over Cape Engano (18° 35′, 122° 06′) between 11 p. and 11.30 p. on the 11th. The barometer fell to 29.31 and winds of typhoon force from NNW in front to S in rear of the centre were experienced.

The following noon observations are for the period October 11th to 14th inclusive:—

COAST STATIONS.

	October 11th.				October 12th.				October 13th.				October 14th.			
Foochow,	30.03	NE	4	o.	29.98	NE	5	o.	30.06	NE	2	o.	30.12	NE	4	o.
Lamocks,	29.93	NE	2	c.	.80	NE	4	o.	29.95	NNE	4	op.	.06	NNE	7	o.
Hongkong,	.97	W	2	b.	.84	N	3	o.	.90	ENE	7	or.	.05	E	5	o.
Hoihow,	.95	ENE	2	b.	30.00	NNW	3	b.	.83	N	6	oq.	29.97	E	4	op.
South Cape,	.80	NNE	5	c.	29.75	E	7	od.	.98	ENE	3	c.	.99	NE	4	c.
Bolinao,	.80	N	3	o.	.80	W	2	o.	.87	E	4	or.	.85	NNW	2	c.

VESSELS.

October 11th.

Bk. W. Le Lacheur,	(21° 56′	121° 57′)?	29.08	NNE	11	...	Bk. Nicoya,	19° 57′	115° 37′	...	NNE	5	o.
S.S. Nanzing,	21 36	114 42	.94	NE	6	c.	S.S. Rosetta,	13 36	112 45	29 92	NE	4	c.

October 12th.

Bk. Nicoya,	19° 57′	117° 03′	29.30?	NNW	12	orq.	Bk. Thermopylæ,	18° 24′	117° 58′	29.84?	NW	8	oq.
S.S. Rosetta,	18 09	113 30	.92	N	5	c.	S.S. Kaisow,	13 19	113 43	...	NNW	4	...

October 13th.

S.S. Rosetta,	20° 49′	113° 36′	29.89	E	8	q.	S.S. Chowfa,	18° 51′	112° 02′	29.65?	WSW	12	orq.
Bk. Thermopylæ	20 11	116 47	.99	SSW	5	b.	„ Kaisow,	17 30	114 10	...	SSW	5	...
S.S. Tongshan,	19 32	112 10	.20	NNW	12	...							

October 14th.

S.S. Chowfa,	20° 26′	113° 34	30.08?	ENE	8	...	S.S. Tongshan,	19° 46′	111° 56′	29.93	SE	5	...

On the 11th the bark *W. Le Lacheur* experienced a violent typhoon from NNE, the barometer falling to 29.08 at noon. The position of the vessel as given in the log book appears to be wrong, and it is probable that the vessel was considerably to the S and E of this position.

The vessel, according to the given position, was situated at a distance of only 65 miles to the E of South Cape (Formosa) at noon on the 11th, and the observations made at the latter station do not confirm those made on board. At South Cape strong NNE breezes were experienced on the evening of the 11th, the barometer falling to its minimum, 29.61, at 3 a. on the 12th with the wind veering to ENE and increasing to a fresh gale at 6 a. These latter observations are in accord with a typhoon centre moving Westward at a considerable distance to the south of South Cape near 3 a. and we know that the centre of a typhoon had already passed over Cape Engano near midnight of the 11th.

On the 12th the centre, which was in about 20° 00′ 118° 45′ at noon was approaching the bark *Nicoya*. This vessel had been hove to at 6 a. with the wind at N and the barometer falling quickly. At noon the wind was from NNW of typhoon force. Between this hour and 4 p. the barometer fell one inch, the wind was terrific, from NW by W, the rain blinding and it was quite impossible to move about. At 4.30 p. the barometer stood at 28.20 (uncorrected), there was a lull in the wind and they took the opportunity to try the pumps and found the vessel making no water. At 5 p. the wind came again from WSW with even greater violence than before, but at 8 p. the barometer having risen to 29.20, or one inch since 4.30 p., with the wind at S and backing to SE, the weather began to moderate. The centre evidently passed over or perhaps a little to the N of the vessel at 4.30 p. She sustained very considerable damage aloft and about the decks. The starboard bulwarks were carried away from break of poop to break of forecastle, the port bulwarks were damaged and much deck gear washed overboard. The bark *Thermopylæ* in the left-hand semicircle and about 100 miles to the SSE of the *Nicoya* also experienced winds of typhoon force from W backing to SSW between 2 p. and 8 p. of this day.

At Hongkong, in the right-hand front quadrant, the temperature rose to an excessive height (Max. 93.°8) for the time of year, on the afternoon and evening of the 12th the humidity at the same time being low. Between 3 a. and 3 p. of the 13th a moderate to strong gale veering from NE towards E accompanied by just a little drizzling rain in the afternoon, was experienced at this station, the barometer falling to its minimum, 29.78, near 3 a. The centre passed about 150 miles to the south of the Colony during the morning, and at noon it was situated in 19° 45′, 112° 45′ and moving towards WSW. The S.S. *Rosetta* in the right-hand semicircle experienced a fresh to strong N to E gale between midnight of the 12th and noon of the 13th accompanied by very high confused sea which carried away three boats. The barometer fell with great rapidity to 29.48 at 4 a. The S.S. *Tongshan* was right in the track of the centre which passed over or a little N of her position at 3.30 p. She experienced the full force of the typhoon, the barometer falling from 29.70 at 2 a. to 28.57 at 3.30 p. At 2 a. the wind was increasing from NW by N and there was a long easterly swell. When the barometer began to rise the wind backed to W and at 8 p. to SSE. Everything moveable on deck was swept away including two boats; the engine room was burst in and volumes of water got below, the ship lying broadside to the wind and sea and helpless between 4 p. and 8 p. The S.S. *Chowfa* turned round and ran to the south at 6 a., the wind being at this time a strong gale from NW by W. They experienced winds of typhoon force from W backing to SW between 10 a. and 3 p., the barometric minimum, 29.62, occurring at 3 p. During the evening the wind backed to SE and decreased to a fresh gale.

At Hoihow a strong to whole N gale was experienced the same evening, the worst weather occurring about 6 p. when the lowest reading of the barometer, 29.66, was made. Next day, the 14th, fresh E winds prevailed at this station while at Haiphong, the barometer having fallen slightly, fresh NE winds in the morning veering to E in the afternoon, were experienced. The typhoon appears to have continued to move towards WSW between the 13th and 14th crossing the S part of the Gulf of Tongking on the morning of the latter day. The centre was perhaps situated in about 18°, 107° at noon.

This disturbance was chiefly remarkable for the unusual velocity with which it crossed the China Sea. Between midnight of the 11th and noon of the 14th its average speed was at the rate of about 16 miles per hour which is excessive in latitude 20°. From the observations made at Cape Engano on the 11th and on board the S.S. *Tongshan* on the 13th, it will be seen that the disturbance had become much deeper during this interval. At Cape Engano, at the centre, we have the barometer reading 29.31, while on board the *Tongshan*, at or near the centre, the reading 28.57 was recorded.

According to the Jesuit Fathers in Manila a small depression (XVIII) which lay near Albay (SE Luzon) on the 16th moved towards NNW and occasioned strong SW winds in Manila on the evening of the 17th.

This depression would appear to have existed on the 18th and 19th as a feeble depression covering SW Luzon and the adjacent China Sea. It appears to have moved away towards W on the 20th and, having acquired greater intensity, it was subsequently encountered by several vessels in the China Sea to the E of the Annam Coast between the 21st and 25th.

The following observations made at 10 a. were telegraphed from Bolinao and Manila:—

	Oct. 17th.	18th.	19th.	20th.	21st.	22nd.	23rd.
Bolinao, ...	29.88 NW 3 o.	29.75 NE 3 od.	29.71 NE 3 b.	29.76 SE 1 o.	29.80 SE 1 o.	29.79 SE 2 o.	29.83 SE 2 o.
Manila, ...	.83 WNW 1 o.	.77 SE 1 b.	.74 NW 1 o.	.77 NE 1 orq.	.82 ESE 1 cm.	.82 calm c.	.86 SSE 2 cm.

The following observations at noon were made on board vessels in the China Sea:—

October 20th.

S.S. Devawongse,	11° 51′	110° 04′	29.94	N	8	...	S.S. Taichiow,	9° 58′	107° 21′	29.86	NE	5	...

October 21st.

S.S. Devawongse,	13° 28″	111° 52″	29.87	N	9	orq.	S.S. Doris,	11° 24′	109° 04′	29.92	NE	5	c.
„ Taichiow,	11 49	109 18	.87	N	6	b.	„ Phra Nang,	10 44	109 46	.93	NNE	6	...

October 22nd.

S.S. Devawongse,	14° 09′	112° 34′	29.72	N	8	or.	S.S. Taichiow,	13° 07′	110° 03′	29.81	NW	7	...
„ Doris,	13 25	110 06	.88	N	7	...	„ Phra Nang,	11 11	112 04	.88	NNW	7	...

October 23rd.

S.S. Doris,	14° 41′	111° 41′	29.79	NNW	7	q.	S.S. Phra Nang,	13° 09′	113° 11′	29.78	WNW	8	q.
„ Taichiow,	14 40	111 12	.77	NNW	9	orq.	„ Devawongse,	12 0	110 45	.80	WNW	8	q.

October 24th.

S.S. Doris,	15° 28′	112° 30′	29.68	ENE	6	q.	S.S. Phra Nang,	14° 36′	113° 35′	29.76	S	6	op.
„ Taichiow,	15 10	111 10	.62	NE	9	q.	„ Phra C. C. Klao,	13 04	109 31	.85	NW	5	...

October 25th.

S.S. Phra Nang,	18° 04′	114° 02′	29.98	NE	6	od.	S.S. Taichiow,	16° 52′	109° 32′	29.87	NE	9	...
„ Doris,	17 25	113 41	.97	NE	5	...	„ Phra C. C. Klao,	14 50	110 30	.84	SSE	6	...

On the 22nd the centre may have been situated in about 14½°, 115½° at noon. The track thereafter is accurately determined by aid of the observations made on board vessels. On the 23rd the centre was situated in 14° 45′ 114° 0′ at noon; on the 24th in 14° 30′, 111° 20′ and on the 25th in 14° 45′, 109° 15′. Late on the evening of the 23rd it passed to the north of the *Phra Nang* This vessel experienced a strong W backing to SW gale accompanied by terrific squalls and a mountainous sea. The lowest recorded barometer reading, 29.72, occurred near midnight. Next morning, the 24th, it passed south of the *Doris*. The barometric minimum, 29.59, occurred at 4 a. and they had the gale veering from N on the evening of the 23rd to NE on the morning of the 24th. A few hours later it passed S of the *Taichiow*. They encountered a fierce gale from N by E, during the early morning hours, veering to ENE and moderating the same evening. The barometric minimum, 29.57, occurred at 8 a. The *Phra C. C. Klao* in the left-hand semicircle experienced strong winds from WNW backing to WSW during the evening, the centre passing to the north of her position next morning, the 25th (barometer at 4 a. 29.73) when a gale from WSW at 1 a. backing to S by E at 9 a. was experienced. The disturbance must have entered the Annam Coast near noon.

During its progress across the China Sea this disturbance evidently increased in intensity. But as the centre passed close to some of the above mentioned vessels it does not appear, however, that the wind force in any part of the disturbance exceeded a whole gale. Probably the barometric height at the centre was only about 0.5 inch below the normal. Its average speed between the 23rd and 25th was at the rate of about 6 miles per hour.

Typhoon XIX was experienced by the bark *W. Le Lacheur* far out in the Pacific between October 29th and November 1st. They made the following observations:—

October	29,	Noon,	23° 03′	139° 58′	29.88	N	Strong gale, high sea.
		Midt.,	—	—	.84	NNE	Fierce gale with very high confused sea.
	30,	Noon,	22 44	141 20	.71	NNE	Hard gale and high sea.
		Midt.,	—	—	.70	NNE	Very heavy gale, mountainous sea.
	31,	Noon,	22 20	141 44	.56	N by E	Same weather.
		Midt.,	—	—	.34	N by W	Do.
November	1,	4 a.,	—	—	.33	NNW	Very fierce hurricane, fearful sea.
		8 a.,	—	—	.43	NW	Still same weather.
		Noon,	22 05	141 58	.78	NW	Do. with much rain.
		Midt.,	—	—	—	—	Moderating.
	2,	Noon,	21 43	143 50	30.03	N by W	Do., heavy rolling swell.

From the above observations the typhoon would appear to have been approaching the vessel from the SE between October 29th and midnight of the 31st when it began to recurve to the NE.

NOVEMBER.

According to the Jesuit Fathers in Manila the centre of typhoon XX entered the SE provinces of Luzon near Tabaco (13° 21′, 123° 49′) on the evening of the 10th November and passed a little N of Manila near noon on the 11th.

Between the 11th and 12th the disturbance moved very slowly, and it appears that on the latter date the central area of light winds had become somewhat extensive. At the Eastern Extension Telegraph Company's station of Bolinao moderate NE breezes prevailed nearly the whole day, the barometer being almost steady and it was not until midnight that the wind veered to SE and increased to a very heavy gale which blew with rising barometer, until 6 a. next morning the 13th. The centre therefore appears to have been situated perhaps 50 miles to the south of this station at mid-day on the 12th and moving very slowly towards WNW. On the 13th the centre was situated in about 15¾°, 117½° as indicated by the following observations: Bolinao noon 29.76, SE 5, c; S.S. *Pakshan* in 16° 00′, 113° 10′ 30.01 N 7. On the 14th the *Pakshan*, in 16° 45′, 114° 09′ at noon, experienced a strong NNE gale which veered to ENE during the evening, the lowest barometer reading, 29.80, being made at 4 p., while the S.S. *Catterthun* had moderate SSE and SE breezes in 15° 59′, 118° 41′ (barometer 29.96). The disturbance, which was evidently filling up rapidly, was probably situated in 15½°, 115½° at noon on the 14th, passed south of the *Pakshan* during the evening. From the observations made on board the S.S. *Chowfa* on the 15th and 16th the disturbance appears to have continued to move towards W or WSW. On the 15th this vessel experienced a fresh NE gale accompanied by rainsqualls in 18° 34′, 111° 7′. The barometer, 29.99, at noon was falling slowly and they suspected that a typhoon was passing to the southward. Next morning, the 16th, the wind veered to E and SE and decreased to a fresh breeze at noon, the vessel being then in 16° 08′, 109° 27′. The barometer (29.99) was rising during the evening. On the 15th the centre was perhaps in 15°, 112° at noon and on the 16th in 14°, 108°.

THE TYPHOONS OF 1891,

By W. Doberck and F. G. Figg.

MAY.

The following noon observations refer to depression I which made its appearance in the China Sea to the E of the Annam coast on May 10th. It subsequently recurved and passed a little to the S of South Cape, Formosa, on the morning of the 13th:—

COAST STATIONS.

	May 9th.			10th.			11th.			12th.			13th.		
Foochow, ...	29.85	S	1 c.	29.80	W	1 om.	29.82	var.	1 o.	29.84	NE	2 or.	29.82	var.	1 o.
Amoy, ...	.92	SSE	2 b.	.92	SE	3 o.	.87	SSE	2 c.	.84	SW	1 c.	.87	SSE	1 b.
Lamocks, ...	.87	...	0 f.	.89	...	0 cm.	.87	...	0 cm.	.79	NE	1 cm.	.82	...	0 cm.
Hongkong, ...	.88	E	2 c.	.87	E	1 c.	.85	E	3 o.	.81	W	1 o.	.80	E	1 or.
South Cape, ...	.87	S	1 c.	.91	W	1 c.	.85	WSW	1 c.	.85	NNE	3 o.	.78	WNW	2 c.
Hoihow, ...	.84	var.	2 c.	.86	E	1 c.	.85	ENE	3 cq.	.85	NE	2 c.	.79	SSW	2 cq.
Bolinao, ...	.86	var.	2 c.	.86	var.	2 c.	.86	var.	2 c.	.86	S	3 c.	.86	var.	2 o.

VESSELS.

May 9th.

S.S. Chingtu, ...	19° 22′	116° 18′	29.87	SE	2	...	S.S. Teheran, ...	7° 04′	107° 13′	29.82	S	1	cb.
„ Japan, ...	10 46	110 12	.88	N	2	...							

May 10th.

S.S. Benalder, ...	21° 09′	113° 28′	29.87	SE	4	...	S.S. Japan, ...	13° 09′	111° 37′	29.79	W	6	q.
„ Chingtu, ...	15 49	118 36	.85	S	5	...	„ Teheran, ...	10 30	109 01	.81	SW	3	o.
„ Nanshan, ...	14 13	112 37	.48	S	10	...							

May 11th.

S.S. Preussen, ...	18° 13′	113° 36′	29.85	SE	4	...	S.S. Don Juan, ...	16° 27′	118° 59′	29.81	var.	2	...
„ Benalder, ...	17 43	111 19	.87	N	2	...	„ Teheran, ...	14 27	110 17	.87	SE	2	b.
„ Japan, ...	16 35	113 51	.65	S	8	q.	„ Chingtu, ...	12 16	120 55	.89	SE	5	...

May 12th.

S.S. Don Juan, ...	19° 36′	116° 48′	29.67	SSW	7	...	S.S. Teheran, ...	18° 18′	111° 38′	29.83	ESE	2	b.
„ Japan, ...	19 49	114 34	.85	NW	5	...	„ Preussen, ...	14 26	112 44	.82	W	5	...

The following positions of the centre, at noon each day, have been determined: May 10, 13½° 112½°; May 11, 16½°, 113°; May 12, 20½° 116½°. At 3 a. on the 13th it passed a little to the SE of South Cape, Formosa, moving about ENE in the Pacific.

At first this small depression appears to have moved NW in the China Sea from the neighbourhood of Palawan. The S.S. *Japan*, steering towards NNE, experienced strong winds from NW on the evening of the 9th backing to W on the morning of the 10th. The barometer fell to 29.62 at 4 a. The S.S. *Nanshan*, steering S 15° W, passed a little to the eastward of the centre on the latter day. They experienced a whole gale from SE in the morning veering to SSW in the evening. The lowest barometer reading, 29.48, was made at noon. On the evening of the 11th the centre of the disturbance, which was then recurving towards NE, passed a little to the South of the S.S. *Preussen*. A fierce NE gale was experienced during the evening and the lowest barometer reading, 29.51, was recorded at midnight. After 4 a. on the 12th the wind backed to NNW and decreased. The centre passed N of the S.S. *Don Juan* near noon on this day. A strong gale from SSW in the morning veering to WNW in the afternoon was encountered. The disturbance was now moving rapidly towards ENE and at South Cape, Formosa, the barometer began to fall rapidly with the wind a moderate breeze from ESE during the evening but backing and increasing to a strong gale from N at 3 a. on the 13th when the barometer attained its minimum, 29.49. After this hour the barometer rose rapidly and the wind backed to NNW and WNW and quickly decreased. A great deal of rain fell in front but the weather became fine immediately in rear of the depression.

JUNE.

The following noon observations refer to Typhoon II which appears to have been formed in a trough-like depression to the NW of Palawan between the 28th and 29th June :—

COAST STATIONS.

Station.	June 28th.			29th.			30th.			July 1st.			2nd.			3rd.		
Breaker Point, ...	29.85	E	1 c.	29.82	NE	1 c.	29.81	SE	2 c.	29.76	SE	4 c.	29.68	SSW	4 o.	29.72	SSW	3 od.
Canton, ...	.81	SE	1 c.	.83	S	1 c.	.78	ESE	2 c.	.70	SE	1 c.	.61	ESE	1 o.	.63	E	1 o.
Hongkong, ...	.84	E	2 o.	.82	ESE	3 c.	.80	E	3 o.	.70	E	4 cr.	.64	S	2 o.	.65	SSW	2 o.
Pakhoi, ...	.83	W	1 ot.	.86	S	2 c.	.83	SE	1 c.	.74	SE	2 cp.	.63	ENE	2 c.	.71	N	2 c.
Hoihow, ...	.83	SSE	3 b.	.83	E	4 c.	.81	SE	4 orq.	.67	ESE	3 c.	.61	SE	3 o.	.69	W	4 o.
South Cape, ...	.88	NE	1 cp.	.86	ENE	2 cp.	.87	NE	1 cp.	.81	E	2 cp.	.76	SSE	2 c.	.77	SW	2 c.
Bolinao, ...	.81	ESE	2 c.	.80	SE	3 c.	.82	SSE	2 c.	.82	SSE	2 o.	.78	SSE	3 o.	.83	SSE	3 o.
Cape St. James, ...	...	SW	2 ...	...	SW	4 or.	...	SW	6 or.	...	WSW	4 o.	...	SW	3 oq.	...	WSW	3 o.

VESSELS.

June 28th.

S.S. Lancelot, ...	19°	14′	113°	48′	...	SSE	4	b.	S.S. Glenlyon, ...	11°	09′	110°	36′	...	WSW	4	...
„ Venetia, ...	18	49	114	07	29.81	SE	3	o.	„ Ravenna, ...	10	01	109	53	29.80	W	6	or.
„ Monmouthshire,	11	37	110	48	...	var.	2	q.	„ Mongkut, ...	8	32	105	40	.78	W	3	...

June 29th.

S.S. Lancelot, ...	16°	00′	112°	30′	...	E	3	...	S.S. Mongkut, ...	10°	58′	108°	46′	29.69	W	3	or.
„ Venetia, ...	14	56	113	00	29.70	E	4	bq.	„ Monmouthshire,	8	57	108	55	.71	W	5	orq.
„ Glenlyon, ...	14	19	112	26	.65	NE	5	...	„ Agamemnon, ...	8	13	108	11	...	WNW	5	q.
„ Siam, ...	13	24	109	36	...	NNW	5	og.	„ Chelydra, ...	8	00	107	53	...	SW	4	or.
„ Niobe, ...	12	27	111	06	...	NE	8	...	„ Ravenna, ...	6	32	107	34	.85	W	5	orq.

June 30th.

S.S. Doris, ...	19°	16′	111°	51′	29.73	SE	4	o.	S.S. Chelydra, ...	11°	32′	110°	38′	29.50	SW	8	...
„ Glenlyon, ...	18	16	113	15	.69	SE	2	b.	„ Siam, ...	11	05	108	38	...	SW	8	or.
„ Niobe, ...	16	23	110	43	...	E	6	...	„ Agamemnon, ...	9	05	109	54	...	WSW	8	...
„ Lancelot, ...	13	30	111	58	.40	SE	11	...	„ Decima, ...	8	05	109	08	.75	W	8	o.
„ Mongkut, ...	12	39	109	14	.52	NNW	5	oq.	„ Bombay, ...	7	47	108	14	.84	SW	7	...
„ Venetia, ...	12	17	111	41	.36	SW	8	...	„ Monmouthshire,	5	43	106	57	.76	SW	5	op.

July 1st.

S.S. Chowfa, ...	21°	05′	114°	44′	29.68	SSE	3	...	S.S. Agamemnon, ...	11°	47′	111°	50′	...	WSW	7	...
„ Niobe, ...	19	58	112	29	...	SE	2	...	„ Lancelot, ...	11	50	111	38	...	SW	6	c.
„ Triumph, ...	18	44	108	00	.51	NE	2	o.	„ Venetia, ...	11	03	111	03	29.66	SW	5	...
„ Doris, ...	16	21	109	41	.42	SE	9	...	„ Bombay, ...	10	45	110	57	.76	SW	6	c.
„ Chelydra, ...	13	33	113	36	...	SW	5	...	„ Decima, ...	10	11	109	52	.66	WSW	5	...
„ Mongkut, ...	13	31	109	48	.58	W	4	...	„ Teheran, ...	7	13	107	11	.90	SW	5	ol.

July 2nd.

S.S. Chowfa, ...	18°	41′	112°	02′	...	SSW	6	q.	S.S. Decima, ...	13°	49′	110°	10′	29.62	S	6	...
„ Triumph, ...	16	21	108	16	29.54	WSW	3	...	„ Doris, ...	13	47	109	13	.61	SW	5	c.
„ Chelydra, ...	17	51	113	49	...	SW	4	...	„ Teheran, ...	11	03	109	08	.79	SW	6	c.
„ Bombay, ...	14	34	112	27	.72	SSW	5	...	„ Lancelot, ...	9	14	110	40	...	SW	4	...

July 3rd.

S.S. Bombay, ...	18°	38′	113°	44′	29.75	SSE	5	c.	S.S. Chowfa, ...	15°	59′	110°	12′	...	S	...	...
„ Decima, ...	17	06	110	27	.74	SSW	2	b.	„ Teheran, ...	14	39	110	14	29.81	SW	4	c.

The existence of a depression on the 28th June is shown chiefly by the observations made on board the S.S. *Glenlyon*. This vessel, steering NNE, passed between 8 p. and midnight of this day, from an area where fresh W breezes and squally weather prevailed to one in which the wind was fresh from the NE. At the same time pressure was decreasing off the Annam and Cochin China coasts with W winds increasing in strength in the latter area.

On the 29th at noon the centre was probably situated in 11½°, 112½° and to the SE of the S.S. *Niobe*, which vessel experienced a strong NE and NNE gale while steering northwards during the evening. Off the Cochin China coast, about 250 miles to the SW of the centre, fresh W winds accompanied by very wet squally weather prevailed.

On the 30th at noon the centre was situated in 13° 00′, 111° 15′ moving towards NW. The S.S. *Venetia*, steering about SSW in the right-hand semicircle, passed close to the centre between 4 a. and 6 a. A fresh gale veering from NE at 2 a. to SSW at 6 a. was experienced, the barometric minimum, 29.28, occurring at the latter hour. The S.S. *Lancelot*, steering southwards in the right-hand semicircle, passed about 50 miles to the E of the centre between noon and 4 p. They had the wind veering from E at 4 a. to SSW at 4 p., the force being of almost hurricane strength at noon and the sea tremendous causing damage about the decks Fresh gales from SW and WSW were blowing at this time at a distance of 350 miles to the SSW of the centre but to the N of it, at the same distance, moderate breezes only, from SE, prevailed.

On the 1st July at noon the centre was situated in 16° 20′, 108° 40′. It had moved in a NW by N direction since the previous day at the rate of 10 miles per hour. Pressure had given way considerably on the S coast of China and particularly at Hoihow in Hainan. The centre passed W of the S.S. *Doris* during the afternoon. They experienced a gale veering from SE by E in the morning to S at 4 p. when it began to moderate. The lowest barometer reading was made at noon. The S.S. *Triumph*, at a distance of about 150 miles to the NNW of the centre, had then a heavy swell from ESE but the wind was blowing a light breeze only from NE. It increased to a strong breeze from NE an hour or two later and the barometer fell quickly. They were steering towards the Paracels, but at 8 p. with the wind at E by S, force 6, the course was altered to make Touron harbour. At midnight the wind had backed to NE again and increased to a fresh gale. Next morning at 3 a. they experienced a fierce gale from NW with the barometer, 29.39, at its lowest point. The wind, decreasing in force, backed to WSW at 8 a. at which point it remained steady in direction.

These observations indicate that the disturbance had began to recurve on the morning of July 2nd. At noon on this day the centre was probably situated in about 18½°, 108½°. In the act of recurving the rate of progression decreased considerably, its speed between the 1st and 2nd July being at the rate of rather less than 6 miles per hour. The disturbance appears to have entered Hainan about noon. The barometer continued to fall during the evening at Pakhoi and Hoihow, the wind backing to NE at the former station and to E at the latter but of the force of light and gentle breezes only. The disturbance apparently moved to the NNE across Hainan on the evening of the 2nd but it must have filled up considerably during its progress.

On the morning of the 3rd the wind was backing to the N at Pakhoi but remained light in force; while at Hoihow a complete change of direction had occurred since the previous evening, a moderate W breeze now prevailing. The barometer was rising at both places. The depression which had become feeble had apparently passed near Hoihow during the night and at noon on the 3rd July it may have been central in about 21½°, 111° and lying between Canton, Pakhoi and Hoihow but it had then become very shallow.

JULY.

Between the 8th and 10th a sharp fall of the barometer occurred over Luzon and a depression (III) seems to have covered the Philippine Archipelago on these days. On the 10th the disturbance appears to have passed into the China Sea and to have been situated off the SW coast of Luzon. On this day moderate SE and S winds prevailed at Bolinao (barometer 29.64) and the S.S. *Yiksang* experienced strong winds from NE veering to SE in about 17½°, 118° with the barometer reading 29.59 at noon. On the 11th, 12th and 13th moderate to strong NE and E breezes prevailed on the S coast of China where, however, the barometer remained almost steady. At Cape St. James fresh SW breezes prevailed on these days, and in Luzon moderate S breezes with rising barometer. These observations indicate a depression of slight or moderate intensity crossing the China Sea in about 15° or 16° latitude towards the Annam coast, but we have no observations from the sea area by which its actual track may be determined.

Typhoon IV advanced from the Pacific and was approaching the E coast of Luzon on the 16th. On the 17th it passed near Cape Engano (N Luzon) and subsequently, during the early morning hours of the 19th, the centre passed to the E and N of Hongkong moving towards WNW on the mainland.

The following are the noon observations referring to the above typhoon :—

COAST STATIONS.

	July 16th.				17th.				18th.				19th.				20th.			
Wenchow,	29.80	SE	3	b.	29.80	var.	3	b.	29.73	ESE	4	or.	29.73	SSE	2	bq.	29.76	SE	3	b.
Turnabout,	.78	N	2	c.	.69	NNE	7	cm.	.54	SSE	2	bm.	.76	SSE	3	c.	.86	SW	3	c.
Tamsui,	.78	SE	4	b.	.73	SE	4	b.	.59	SE	4	cp.	.87	ENE	1	or.	.89	SW	2	c.
Chapel Island,	.79	SSE	1	c.	.73	NE	4	c.	.62	ENE	4	cm.	.76	S	2	c.	.87	SSE	2	c.
Fisher Island,	.75	E	3	c.	.61	NNW	2	cm.	.49	SE	9	cmq.	.71	SSE	5	cm.	.86	SSE	3	cm.
South Cape,	.73	NE	1	c.	.57	NE	5	c.	.63	SSE	4	od.	.80	S	2	cmp.	.88	ENE	1	c.
Lamocks,	.78	SE	2	c.	.67	NNE	1	c.	.48	NE	7	cm.	.57	SE	6	cm.	.80	SE	2	bm.
Breaker Point,	.74	SE	3	c.	.68	NE	2	b.	.48	NNE	5	cm.	.64	SE	2	omq.	.80	SE	2	c.
Canton,	.69	SSE	1	o.	.71	SE	1	c.	.50	NW	2	b.	.36	E	5	or.	.70	ESE	3	o.
Hongkong,	.70	E	3	c.	.70	W	1	b.	.48	W	1	o.	.47	SSW	6	opq.	.74	SSE	3	o.
Pakhoi,	.74	SE	2	c.	.78	SE	2	b.	.69	NW	2	b.	.57	SSW	3	ort.	.68	SSE	2	b.
Haiphong,	.63	E	1	c.	.71	ENE	3	c.	.69	SW	1	c.	.59	W	1	og.	.60	S	1	o.
Hoihow,	.68	SE	4	cp.	.64	ESE	3	c.	.67	WNW	5	c.	.57	WSW	3	od.	.68	S	4	c.
Bolinao,	.72	S	3	c.	.67	SSW	1	or.	.71	SE	3	or.	.81	SSE	3	or.	.85	SSE	2	o.
Manila,	.72	SSW	1	o.	.71	SW	7	orq.	.78	S	2	o.	.86	calm		o.	.89	SE	1	o.
Cape St. James,	...	SW	4	oq.	...	SW	4	oq.	...	SW	5	o.	...	SW	6	or.	...	SW	4	c.

VESSELS.

July 17th.

S.S. Ancona,	27°	00′	122°	40′	...	SSE	5	...	S.S. Yiksang,	21°	08′	118°	51′	29.59	NNE	4	...
„ Taicheong,	26	08	120	20	29.74	NE	6	...	„ Oxford,	19	52	114	18	.67	NE	2	b.
„ Euphrates,	25	00	119	34	.66	SE	5	...	„ Loosok,	12	57	109	39	.68	SW	4	...
„ Fushun,	24	35	119	04	.62	NNE	4	om.	„ Memnon,	11	07	119	58	.86	W	4	q.

July 18th.

S.S. Ancona,	24°	21′	119°	00′	...	SSE	4	...	Sh. Canara,	22°	33′	117°	04′	...	NE	10	q.
„ Ajax,	23	22	117	40	29.55	N	4	...	S.S. Clara,	21	56	113	35	29.48	W	5	...
„ Taicheong,	23	17	117	16	.52	NE	6	...	„ Triumph,	21	35	113	29	.46	SW	4	...
H.M.S. Pigmy,	23	07	113	17	.48	NE	2	c.	„ Don Juan,	21	00	117	51	28.54	WNW	11	orq.
S.S. Euphrates,	22	50	116	21	.49	NE	7	...	„ Yiksang,	18	30	119	00	29.62	SSW	9	...
„ Fushun,	22	32	115	24	.46	NW	2	o.	„ Borneo,	16	29	113	03	.64	SW	2	...
„ Lennox,	22	22	114	44	.49	NNE	4	g.	„ Memnon,	14	05	118	41	.77	WSW	7	...

July 19th.

S.S. Pekin,	27°	04′	120°	58′	29.76	SSE	3	...	S.S. Don Juan,	20°	37′	118°	08′	29.68	S	7	...
„ Haitan,	23	20	116	43	.64	SSE	6	orq.	Bk. Kitty,	20	20	113	17	...	WSW	8	...
„ Swatow,	23	07	113	17	.34	ENE	8	...	S.S. Loosok,	20	12	112	55	.52	SW	5	q.
H.M.S. Pigmy,	23	07	113	17	.28	ESE	7	odq.	„ Clara,	20	05	110	25	.52	WSW	4	or.
S.S. Ajax,	23	15	116	51	.65	S	4	...	„ Triumph,	20	05	111	13	.46	SW	2	...
„ Lennox,	22	00	115	30	.65	S	4	...	„ Borneo,	19	40	113	47	.56	SW	6	...
„ Ancona,	22	24	115	02	...	SSE	3	...	„ Memnon,	17	46	116	38	...	SSW	7	...
„ Taicheong,	22	03	114	09	.52	SW	7	...	„ Diamante,	16	31	118	40	.78	S	5	o.

The typhoon referred to in the foregoing observations appears to have moved towards WNW in the Pacific previous to July 16th when the disturbance was situated to the E of Luzon, the centre perhaps being in the position 16° 125°½ at noon. In Luzon the barometer was falling, light winds chiefly from a N direction prevailing in the N. part of the island while moderate breezes from NW to SW blew in the S. part. On the China coast SE breezes blew at this time, but at South Cape light NE breezes prevailed and the barometer had commenced to fall. In Hongkong cirrus clouds coming from ENE were noted.

On the 17th at noon the centre must have been situated in 18° 45′, 122° 30′, for according to observations contained in the Manila publications the centre passed near Cape Engano (18° 35′, 122° 06′), a hurricane from NW to SW being experienced at this station between 10 a. and 5 p., the mercury descending to 29.23.

Pressure had decreased considerably in S. Formosa and along the SE coast of China. In the N. part of the Formosa channel strong increasing winds from NE prevailed but between Hongkong and Swatow the wind was light and variable. On this part of the coast temperature was high and the air unusually dry. At South Cape a fresh NE veering to ESE gale was experienced between 9 p. of the 17th and 6 a. of the 18th, the barometric minimum, 29.46, occurring at 3 a., the centre being then situated about 100 miles to the SSW of the station. The S.S. *Yiksang*, steering about S by E from her noon position, ran across the track in front of, and at a distance of about 150 miles from, the centre. Strong NNE backing to NW winds were experienced during the evening, the barometric minimum, 29.43, occurring at midnight. Shortly afterwards, the vessel being then in the left-hand semicircle, the wind rose to a strong gale from W.

The disturbance was now moving towards WNW at the rate of about 12 miles per hour and at noon on the 18th the centre must have been situated in 21° 10′, 118° 10′ as shown by the observations made on board the S.S. *Don Juan*. It passed almost over this vessel, a typhoon from NW to SW being experienced between 11 a. and 3 p. with the barometer at its lowest point, 28.54, at noon. About the latter hour the wind began to increase in force in the neighbourhood of Swatow and reached the strength of a whole gale from NE during the afternoon. At Breaker Point the barometric minimum, 29.31, occurred at 6 p. the wind direction then veering to ENE and E. At Hongkong, in front of the centre, the wind continued remarkably light, force 1 to 3, chiefly from a W direction, until 10 p. when it began to increase from the NW. At midnight the force was between 5 and 6 and the barometer had fallen at the rate of about 0.04 inch per hour during the past 2 hours. The centre was then situated in 22° 10′, 115° 40′ or 80 miles to the E of the Colony. The steamships *Oceanic* and *Taicheong* both experienced the centre near this hour. The *Oceanic* was hove to in 22° 16′, 115° 40′. They had first a violent gale from NW at 11 p. which gradually lulled, but heavy rain continued. At midnight the wind was of force 2 only from NW and 15 minutes later the barometer was at its lowest point, 28.68; but the wind did not rise again until 1.15 a. when it blew a hurricane from SW. The S.S. *Taicheong* was situated in 22° 06′, 115° 36′ at midnight, the barometer being then at its lowest point, 28.60, with a moderate breeze from NNW. The force had been light since 11.15 p. At 15 minutes after midnight the wind came again from SW with hurricane force. These two vessels were about 10 miles asunder so that the central area of light winds must have had a considerable diameter, probably of about 15 miles.

On the 19th at 5 a. the centre passed about 20 miles to the NNE of Hongkong where the barometer fell to 29.02 at 4.40 a. The wind was a whole gale from WSW at 5 a. backing to SSW at 7 a. and afterwards decreasing in force. The centre passed 20 miles S of Canton at 10 a. when the barometer fell to 29.17 and a fresh ENE quickly veering to SE gale was experienced on board H.M.S. *Pigmy* then lying at the anchorage. The observations made at Hongkong and Canton show that the disturbance continued to fill up from the time it entered the coast to the ENE of Hongkong. At noon the centre was situated in 22° 50′, 112° 50′. It continued to move in a WNW direction on the mainland. The observations made at Pakhoi and Haiphong indicate that the disturbance was passing to the north of these stations between the 19th and 20th. At noon on the latter date the centre may have been situated in 24°, 106°½.

The average speed of the disturbance between noon of the 17th and 18th was nearly 12 miles per hour and between the 18th and 19th just over 13 miles per hour.

On the evening of the 18th directly in front, *i.e.*, to the WNW of the centre, the wind was of force 5 only at a distance of about 100 miles and of force 8 at a distance of 50 miles as shown by the observations made on board the S.S. *Oceanic* and at Hongkong; but to the N of the centre, strong to whole gales blew at the lighthouse stations in the neighbourhood of Swatow at a distance of 100 miles. Farther north, however, *i.e.*, in the N part of the Formosa Channel, gradients were slight and light to moderate variable winds prevailed there with rising barometer. In the S. semicircle the strong winds extended to a greater distance than in other parts of the disturbance. The S.S. *Yiksang* had a strong SSW gale to the SSE at a distance of 200 miles, and the bark *Kitty* a strong W gale at the same distance to the SW of the centre.

The observations made on board the *Oceanic* show that the steepest gradients amounted to somewhat over 0.3 inch in 15 miles, these being found at a distance about 30 miles in front of, and at about 20 miles in rear of, the centre; but the wind force was greater in rear than in front.

According to the Jesuit Fathers in Manila a typhoon passed very near Manila early on the morning of the 26th July moving so slowly, however, that only on the following day had it passed to the China Sea after crossing the provinces of Balacan, Pampangas and Zambales.

This typhoon (V) subsequently moved very slowly towards NW in the China Sea, but it was not until August 3rd that it entered the China coast to the W of Macao.

The following are the noon observations:—

COAST STATIONS.

Station.	July 26th.			27th.			28th.			29th.			30th.			31st.		
Turnabout,	29.85	SSE	1 b.	29.77	WNW	3 c.	29.74	N	4 c.	29.72	NE	2 bm.	29.73	ENE	4 c.	29.74	NE	3 c.
Chapel Island,	.86	SSW	2 c.	.80	S	1 c.	.76	NNE	1 b.	.77	E	1 b.	.76	ENE	3 c.	.75	ENE	2 c.
Lamocks,	.87	S	1 c.	.77	WSW	1 c.	.72	NE	2 c.	.73	NE	1 cm.	.69	ENE	2 cm.	.72	NE	4 cm.
Hongkong,	.82	E	1 b.	.78	W	1 b.	.72	E	1 b.	.71	E	3 b.	.65	ENE	4 c.	.63	NE	7 o.
Hoihow,	.88	NE	3 b.	.84	SSW	3 b.	.79	SE	4 b.	.77	N	4 b.	.74	WNW	3 b.	.78	SE	4 b.
South Cape,	.82	NE	2 c.	.76	NE	2 c.	.70	NNE	3 c.	.71	NE	3 c.	.70	NE	2 c.	.72	ESE	1 c.
Bolinao,	.67	SE	3 od.	.62	SSW	3 or.	.67	S	3 or.	.71	SSE	3 c.	.74	SE	2 or.	.73	SSE	2 or.
Manila,	.71	SSE	4 or.	.73	SW	3 or.	.71	SW	5 c.	.75	SSW	4 o.	.79	S	2 o.	.77	WSW	1 o.

	August 1st.			2nd.			3rd.			4th.		
Turnabout,	29.71	NE	2 b.	29.64	SW	2 b.	29.82	SSW	1 cm.	29.83	NNE	1 c.
Chapel Island,	.73	ENE	2 b.	.70	ENE	2 c.	.81	SSE	2 cm.	.88	ESE	1 c.
Lamocks,	.67	NE	4 cm.	.60	NE	4 cm.	.71	ENE	3 omp.	.85	ESE	3 cm
Canton,	.62	ENE	1 c.	.57	NNE	2 b.	.51	NNE	4 orq.	.74	ESE	2 or.
Hongkong,	.62	NE	3 c.	.50	NE	2 or.	.53	SE	8 orq.	.77	SE	4 o.
Macao,	.62	NNW	1 bv.	.50	NNW	2 cm.	.39	ENE	8 cdq.	...	...	...
Pakhoi,	.68	WSW	2 c.	.56	WNW	3 ct.	.60	N	4 b.	.65	W	1 cp.
Hoihow,	.73	WNW	3 c.	.66	WNW	5 c.	.66	W	6 o.	.73	SE	3 o.
South Cape,	.66	W	3 cp.	.69	SSE	4 c.	.83	ESE	2 c.	.86	NE	2 cp.
Bolinao,	.71	S	2 od.	.72	SSW	3 cd.	.81	SSE	2 or.	.85	S	2 o.
Manila,	.76	S	4 o.	.76	SW	5 o.	.84	SSW	1 o.	.90	calm	o.

VESSELS.

July 26th.

S.S. Kutsang,	14° 53′	112° 56′	29.75	WSW	4 ...	S.S. Changsha,	6° 54′	122° 03′	29.86	S	4 b.
„ Pingsuey,	13 55	112 10	.83	W	2 b.						

July 27th.

S.S. Memnon,	18° 38′	116° 03′	29.78	ENE	4 ...	S.S. Pingsuey,	10° 03′	109° 57′	29.83	WSW	2 b.
„ Kutsang,	11 18	110 33	.72	SW	5 c.	„ Changsha,	2 56	124 31	.87	S	4 b.

July 28th.

S.S. Glenavon,	18° 57′	113° 48′	29.82	N	2 ...	S.S. Kutsang,	8° 20′	109° 07′	29.75	SW	6 b.
„ Memnon,	14 46	117 17	.67	WSW	4 p.	„ Keemun,	7 31	108 01	.84	NW	5 ...
„ Chowfa,	9 36	102 56	.84	WSW	3 o.	„ Pingsuey,	6 37	108 03	.87	WSW	5 q.

July 29th.

S.S. Esmeralda,	16° 13′	118° 42′	29.66	SSW	4 orq.	S.S. Keemun,	11° 20′	110° 54′	29.63	WSW	6 ...
„ Glenavon,	14 50	112 44	.74	WSW	5 o.	„ Bisagno,	10 20	110 04	.65	WSW	6 o.
„ Wingsang,	14 42	112 53	.69	WSW	3 ...	„ Chowfa,	9 21	106 43	.83	W	3 o.
„ Memnon,	12 02	119 42	.73	SSW	4 or.	„ Kutsang,	5 26	107 05	.81	SW	5 b.

July 30th.

S.S. Bombay,	21° 15′	113° 34′	29.64	E	4 b.	S.S. Keemun,	14° 58′	112° 42′	29.64	WSW	4 o.
„ Esmeralda,	19 21	116 05	.56	E	6 ...	„ Peninsular,	13 23	112 07	.75	WSW	4 ...
„ Woosung,	19 08	114 03	.55	NE	5 q.	„ Bisagno,	13 14	113 11	.65	S	3 o.
„ Don Juan,	19 08	116 38	.53	ESE	8 ...	„ Chowfa,	12 35	109 32	.73	W	2 c.
„ Wingsang,	17 56	113 52	.51	NW	9 ...	„ Memnon,	8 52	119 09	.86	S	4 ...

July 31st.

S.S. Canton,	22° 58′	116° 53′	29.70	NE	6 ...	S.S. Bombay,	17° 22′	110° 59′	29.63	NW	4 b.
„ Yiksang,	(21 30	118 00)?	.70	SE	5 q.	„ Woosung,	16 55	114 27	.53	W	11 ...
„ Wingsang,	21 03	113 50	.52	NE	7 ...	„ Chowfa,	16 31	110 45	.66	NW	3 c.
„ Keemun,	18 40	113 27	.45	WNW	10 ...	„ Bisagno,	16 20	113 55	.49	W	8 o.
„ Peninsular,	17 56	113 48	.47	W	7 ...	„ Zafiro,	14 20	120 02	.72	SW	6 o.
„ Johann,	17 41	109 33	.69	WNW	8 ...	„ Glenavon,	8 57	108 56	.91	SW	5 orq.

August 1st.

S.S. Keemun,	21° 48′	113° 59′	29 53	NE	8 ...	S.S. Bisagno,	17° 52′	114° 15′	29.37	W	8 omr.
„ Peninsular,	20 54	114 55	.37	NNE	9 orq.	„ Zafiro,	17 17	117 40	.50	S	6 ...
„ Johann,	19 06	111 29	.68	NW	8 ...	„ Benalder,	16 05	113 47	...	SW	6 o.
„ Chowfa,	18 53	112 09	.63	NNW	6 otl.	„ Woosung,	14 31	112 42	.67	SW	5 ...
„ Yiksang,	18 36	119 14	.61	S	6 ...	„ Bombay,	13 25	109 43	.71	SW	4 o.

August 2nd.

S.S. Cardiganshire,	22° 39′	115° 35′	29.50	NE	7 o.	S.S. Bisagno,	19° 18′	114° 40′	29.31	SW	9 o.
„ Ningpo,	22 18	115 07	.48	NE	5 cq.	„ Zafiro,	19 05	116 35	.44	SSW	6 q.
„ Sachsen,	21 09	114 23	.39	N	9 og.	„ Chowfa,	18 24	113 16	.58	WSW	4 ...
„ Lightning,	20 27	113 49	.45	NW	7 og.	„ Yiksang,	15 58	119 40	.73	SW	6 ...
„ Johann,	20 04	112 27	.62	WNW	8 ...	„ Benalder,	13 12	113 35	...	SW	4 b.
„ Teheran,	19 35	112 27	.50	WNW	5 og.	„ Woosung,	11 47	110 46	.75	SW	5 ...

August 3rd.

S.S. Verona,	22° 11′	114° 28′	29.53	S	8 q.	S.S. Chowfa,	19° 25′	116° 21′	29.72	S	3 o.
„ Johann,	20 22	112 58	.67	SSW	9 ...	„ Lightning,	17 36	111 30	.65	SW	4 ...
„ Bisagno,	20 21	114 41	.61	S	4 c.	„ Teheran,	16 31	110 32	.64	SW	3 o.

The following table gives the position of the centre, at noon each day, of the disturbance referred to in the foregoing observations:—

Date.	Position of centre.		Date.	Position of centre.	
July 26,	* 15°¼	120°½	July 31,	19° 00′	114° 40′
27,	* 16	119	August 1,	19 40	115 20
28,	* 16 ½	118	2,	20 20	115 10
29,	* 17	116 ½	3,	21 45	113 00
30,	18° 00′	115° 15′	4,	* 23 00	110 30

* Approximate.

After leaving the W coast of Luzon on the 27th the disturbance moved, at first, to the WNW and NW by W. The most important observations on the 28th are those made on board the S.S. *Memnon*. This vessel, steering towards SSE, passed across the track in front of the centre between noon of the 27th and the same hour on the 28th. A complete change of wind was experienced during this 24 hours, the direction backing gradually from ENE to N on the evening of the 27th, and to NW and WSW on the morning of the 28th. The force was from 6 to 4 with heavy squalls at times. The barometer fell to its lowest point, 29.64, between 4 a. and 8 a. on the 28th when the vessel passed probably about 75 miles to the W and WSW of the centre.

Between the 28th and 29th the S.S. *Glenavon* passed also across the track in front of the centre, *i.e.*, from the NW to the SW quadrant. Steering about S by W they encountered moderate and fresh breezes from N on the 28th backing to NW and WSW on the morning of the 29th. The weather was showery and there was a confused swell. The barometer fell to 29.68 at 4 a. when the vessel passed about 200 miles to the W of the centre.

The steamships *Esmeralda* and *Don Juan* leaving Manila for Hongkong on the evening of the 28th passed to the rear of the disturbance, *i.e.*, from the SE to the NE quadrant, between the 29th and 30th. The *Esmeralda* had moderate SW and S breezes on the 29th with wet squally weather, a cross sea and falling barometer. On the 30th the wind backed from SE to E and ENE of the force of a strong breeze. There was a heavy SW. swell and the weather was squally with much rain. The barometer continued to fall until the afternoon, but rose again during the evening as the vessel was moving so much faster than the typhoon at that time. The steamships *Wingsang* and *Woosung* were situated on the other side, that is in front of the disturbance. The former was steering towards N and the latter towards S. The *Wingsang* experienced a strong NW veering to N gale with the barometer almost steady at a distance of from 75 to 100 miles to the W and NW of the disturbance and the *Woosung* a strong N breeze backing to NW and increasing in force. In keeping her course towards N the *Wingsang* would have advanced towards or into the right-hand front quadrant and might have encountered the centre had not the disturbance been moving very slowly; but as it was advancing in a NNW direction at scarcely more than 2 miles per hour on the evening of the 30th, the vessel ran out of the very bad weather early next morning.

On the 31st the S.S. *Yiksang*, in the E semicircle, passed from the NE to the SE quadrant at a distance of 250 to 200 miles from the centre. The barometer was falling and a fresh breeze from SE veering to S was encountered and a high SW sea was running. Several vessels experienced bad weather in the W semicircle. Of these the S.S. *Keemun* was nearest to the centre at noon when she was situated at a distance of about 80 miles to the W by S of the centre. A strong WNW gale, with falling barometer, prevailed at the time. The vessel was kept on her course to N by E and they had the wind veering towards NNW during the afternoon, blowing a fierce gale accompanied by a tremendously high sea. After 4 p. the barometer, which had then fallen to 29.34, was rising. As in the case of the *Wingsang*, this vessel, in keeping her course in a N direction, only escaped meeting with the centre on account of the slow movement of the typhoon.

The S.S. *Peninsular* was also steering towards Hongkong and during the afternoon they turned round and steered S as the barometer was falling sharply and the wind had veered from W to NW. The original course was, however, resumed at 7 p. At 8 p. they had a fresh gale from WNW which, increasing in force, backed to SW at 11 p. and to S at midnight. At 1 a. on August 1st the direction was E and at 3 a. the barometer had fallen to its minimum, 29.00, and the wind had backed to ENE blowing a hard gale with heavy rain and high cross sea. Thereafter the barometer rose with the wind backing. At 9 a. (bar. 29.30) it blew a fierce gale from NNE with squalls of hurricane force. It thus appears that the *Peninsular* passed round the Eastern edge of the centre and that the disturbance must have been almost stationary on the evening of the 31st and probably recurving slowly towards NE on the morning of the 1st August.

On August 2nd the S.S. *Sachsen* had left Hongkong at daylight steering S. During the day the vessel passed from the NW to the SW quadrant and experienced at first moderate winds from NNE which however backed to N at noon and increased to a fresh gale. Between noon and 7 p. the wind backed from N to W. The strongest wind of force 10 to 11 from NNW was experienced between 3 p. and 4 p, the vessel being situated in 20° 17′, 114° 23′ at the latter hour. The barometer was at its lowest point, 29.27, at 5 p. but it was practically steady between 3 p. and 6 p. This vessel probably passed about 30 miles to the W of the centre during the afternoon. The disturbance had now resumed its original direction, viz, towards NW and the barometer began to fall quickly in Hongkong during the evening, the wind increasing to a strong gale from NE during the evening.

At 4 a. on the 3rd the barometric minimum, 29.31, occurred at Hongkong with the wind a strong to whole gale from E by N veering to ESE at 5 a. At Macao the minimum, 29.29, was at 6 a. with the wind at ENE of force 7 to 10. The wind was decreasing in force after 9.30 a., but the direction was practically steady at ENE until 2 p. when it veered to ESE and SE. The centre passed about 30 miles to the S of Macao at 6 a. It appears to have continued to move towards NW on the mainland as on the 4th the observations made at Pakhoi give some indication of the disturbance passing at some distance to the N of that port.

The most noticeable feature of this disturbance was its unusually slow rate of progression. In the three days between noon of July 27th and 30th, it only traversed 270 miles, and in the subsequent 3 days, viz., from July 30th to August 2nd 180 miles. During the latter period the disturbance was undoubtedly influenced by another typhoón which was situated in the Pacific to the S of the Loo Choo islands on July 31st. This typhoon moved towards NNW, and on August 1st passed near and to the W of the Southern Loo Choos. That the China Sea typhoon was delayed and commenced to recurve between the 31st July and August 1st owing to the presence of the other centre at a distance of about 700 miles to the NE by E seems certain. It will be noticed that South Cape, Formosa, was under the influence of the Pacific typhoon on August 1st, but on the evening of the 2nd this disturbance had advanced to a high latitude and pressure was rapidly increasing in Formosa and probably to the Eastward in the Pacific. The China Sea typhoon in consequence resumed its original direction and moved with increased speed towards NW under the influence of the strong E winds blowing through the Balingtang Channel.

The disturbance would appear to have been increasing in intensity during its passage across the China Sea as may be inferred from the observations made on board the *Memnon* on the 28th and the *Keemun* on the 31st. The former had the barometer reading 29.64 with a fresh breeze on the 28th, and the latter a whole gale with barometer 29.45 on the 31st, these vessels being situated at the same distance to the W of the centre on the respective dates.

The typhoon (VI), already referred to as having been situated in the Pacific on July 31st, is chiefly shown by the observations made on this day at Naha (26° 13′, 127° 41′) in the Loo Choo islands. These observations show that the barometer fell from 29.66 at 2 a. to 29.55 at 10 p. and that the wind was steadily increasing in force from the ENE until at the latter hour it blew a fresh breeze.

On the 1st August at noon the centre was probably situated in 25°¾, 127° moving towards NNW. During the afternoon it passed to the W of Naha apparently at no greater distance than 50 miles. The barometer, at this station, fell to 29.04 at 6 p., a moderate to fresh gale veering from ENE in the morning to S at night being experienced accompanied by excessively heavy rain. At Tamsui and Keelung (N. Formosa), about 300 miles to the W of the centre, the barometer read about 29.70, winds being light breezes, chiefly from NW. At a distance of about 400 miles to the NW of the centre, *i.e.*, at the lighthouse stations off the coast between Ningpo and Shanghai, the barometer was falling (Steep Island 29.69) with the wind backing to NE and freshening. In SW Japan the barometer read about 29.76, light winds, chiefly from E and SE, prevailing. The S.S. *Verona*, situated at noon in 27° 17′, 122° 15′ passed from the NW to the SW quadrant during the day. They had the barometer, 29.67, falling slightly with fresh NNE breezes in the morning backing to WNW and decreasing during the evening. A high swell was running at first from SE but afterwards from E.

The disturbance, having moved towards NNW, was situated at noon on August 2nd in 29°½ 125°, but it was now beginning to recurve towards NNE. The barometer, 29.67, had risen greatly at Naha where moderate and light S winds accompanied by wet weather now prevailed. In SW Japan the barometer, 29.72, was falling slightly, winds being chiefly moderate breezes from SE. At Steep Island the barometer, 29.52, had fallen considerably during the preceding 24 hours, and fresh breezes to moderate gales backing from NE to N prevailed at this and at the lighthouse stations at the month of the Yangtze, the barometer showing the minimum during the evening.

The following observations recorded on board H.M.S. *Archer* show that the centre passed a little W of the vessel at 2 a. on August 3rd:—

August 2	Noon	29.55	SE	7	orq.	31° 46′	126° 21′	August 3	1 a.	28.57	SE	8	orq.
	2 p.	.51	ESE	8	„				2 „	.52	S/W	5	„
	4 „	.49	„	8	„				3 „	.78	SW	8	„
	6 „	.32	ENE	8	„				4 „	29.12	W	8	„
	8 „	.22	„	9	„				6 „	.44	W/N	10	„
	10 „	.07	„	10	„				8 „	.62	„	8	„
	11 „	...	ESE	10	„				10 „	.62	WNW	7	opq.
	Midt.	28.73	SE	10	„				Noon	.71	NW	6	cq. 31° 35′ 126° 37′

At noon on the 3rd the centre was in 34° 30′, 128° 20′ and approaching Fusan (35° 05′, 129° 06′) Korea, where the following observations were made: August 3rd 3 a. 29.67 NE 6 rg; 9 a. 29.40 NE 9 cgr, 3 p. 29.14 SW 7 og, 9 p. 29.61 SW 5 c. The centre seems to have passed to the West of Fusan near 2 p. The observer states that from 1 p. the wind was veering towards SW. The disturbance continued on its course towards NNE into the Sea of Japan and the centre was encountered by the S.S. *Rio* at 8 p. in 37° 41′, 130° 26′. A heavy gale from E was experienced during the afternoon and at 7.55 p. they had the calm centre, a barometer giving the reading 28.98 and an anëroid 28.44, both uncorrected. The barometer rose with great rapidity and they had then the strongest wind, a hurricane from NW, which however quickly moderated. Next morning (August 4th) the centre was evidently passing to the E of Wladiwostok where the barometer had fallen to 29.17 at 7 a. with strong winds from NW, towards evening it appears to have moved towards ENE and to have passed into the Okhotsk Sea.

Between the 1st and 2nd this typhoon travelled at the rate of about 10 miles per hour, but after recurvature, it moved with increasing velocity, *i. e.*, between 2 a. and 8 p. of the 3rd it traversed a distance of 430 miles or moved at the rate of about 24 miles per hour, and its speed was still further increased during its progress across the Sea of Japan.

AUGUST.

Typhoon VII moved northwards in the Pacific at a great distance from the China coast and entered Japan near Kochi (33° 33′, 133° 34′) about 2 p. on August 16th. It subsequently moved to the NE, crossed N Nippon on the evening of 17th and thence re-entered the Pacific. The track is taken from Japanese weather maps.

In connection with this disturbance which left the shores of Japan about 9 p. on the 17th moving in a NE direction, a depression advancing from SW and observed on board the U.S. cruiser *Alert* lying in Unalaska harbour, Alaska, is worthy of notice. SE winds, at times of the strength of a gale, were experienced between the 17th and 19th with constantly falling barometer. On the afternoon of the latter day the wind backed to NE, the barometer continuing to fall until the early morning of August 20th when it stood at 29.04 with the wind a strong gale from NNW.

Although the depression experienced on board the *Alert* cannot be definitely connected with the Japan typhoon it has been thought well to place it on record in this connection.

The next disturbance was a small depression (VIII) which appears to have been situated to the E of N Luzon on the 20th August and thence to have moved towards NW crossing S. Formosa and the Channel on the 22nd.

The following are the noon observations :—

Stations.	August 20th.				21st.				22nd.			
Naha, *	29.84	E	1	o.	29.80	ESE	1	o.	29.80	SSW	1	o.
Middle Dog,	.82	calm.		c.	.77	NE	1	c.	.66	ENE	4	cmg.
Turnabout,	.89	var.	1	c.	.76	NNE	4	c.	.60	NE	8	cm.
Tamsui,	.89	var.	1	b.	.82	ESE	2	b.	.63	ESE	4	opq.
Ockseu,	.90	S	1	c.	.80	NNE	2	c.	.56	NNE	6	cm.
Chapel Island,	.87	S	1	b.	.83	E	2	c.	.69	NNW	4	c.
Fisher Island,	.87	NW	1	b.	.74	NW	1	b.	.47	N	7	omr.
Lamocks,	.87	NW	1	c.	.76	calm.		cm.	.63	SW	1	cm.
Hongkong,	.87	E	2	b.	.78	W	1	b.	.68	WSW	2	b.
South Cape,	.82	NNE	2	c.	.72	N	2	c.	.58	SW	6	omp.
Bolinao,	.82	N	2	c.	.81	S	1	or.	.73	S	2	o.
Manila,	.82	S	2	c.	.80	WSW	2	o.	.79	S	4	o.

* $1^h\ 32^m$ p.

Observations made at Cape Engano (NE Luzon) are contained in the Manila publications, and these show that moderate to strong breezes, backing from NW in the morning to WSW in the afternoon, prevailed at this station on August 21st, the barometer standing at 29.70, so that the centre of the disturbance at noon on this day may be placed approximately in 21°, 123½°, *i. e.*, to the NNE of Cape Engano and to the ESE of South Cape, Formosa. At the latter station the barometer fell quickly on the morning of the 22nd (at 9 a. 29.55) with the wind backing from NW to SW, a fresh to strong breeze, accompanied by rain. The disturbance was therefore passing to the N of this station during the morning and its central area, which was ill defined, seems to have passed the neighbourhood of Anping soon after 9 a., where the following observations were made: 9 a. 29.50 NW 1 od, 3 p. 29.50 SE 3 g. At the latter hour Fisher Island had 29.45 N 7 org; at 6 p. 29.50 E 2 og and at 9 p. 29.58 SE 5 oml; so that the centre after being, most probably, situated in 23°, 120° at noon must have passed near this station during the afternoon. The same evening a moderate N gale at 6 p., decreasing and gradually backing to WSW at 3 a. on the 23rd, was experienced at Chapel Island while strong to moderate breezes veering from NE to ESE blew at Ockseu. The disturbance evidently passed between these two stations on the morning of the 23rd and entered the coast between Amoy and Ockseu where it quickly disappeared.

On the 23rd August the Luzon observations show indications of another depression (IX) of slight intensity covering the N coasts of the island. This disturbance subsequently moved towards WNW and entered the coast of China between Hongkong and Breaker Point on the morning of the 26th.

The following are the noon observations:—

	August 24th.	25th.	26th.	27th.	28th.
Naha,	29.94 SE 2 o.	29.91 SE 1 or.	29.84 SE 1 o.	29.83 NE 1 o.	29.83 NNW 1 o.
Turnabout,	.78 ENE 7 bm.	.71 ENE 6 om.	.79 NNE 1 c.	.82 NE 1 c.	.87 E 1 c.
Chapel Island,	.78 NNE 6 c.	.76 NNE 5 cm.	.78 ESE 3 omp.	.80 SSE 1 cm.	.89 calm c.
Fisher Island,	.72 N 3 bm.	.73 SE 5 om.	.77 SE 4 c.	.81 NE 2 c.	.86 NW 2 c.
Breaker Point,	.74 N 3 c.	.64 NE 6 c.	.70 SE 2 c.	.75 ESE 4 cp.	.86 E 2 c.
Canton,	.79 NW 1 or.	.69 N 1 c.	.63 NNW 1 or.	.70 E 1 or.	.81 ESE 1 o.
Hongkong,	.77 SE 1 c.	.67 ENE 1 c.	.63 WNW 1 o.	.72 E 3 o.	.83 E 2 op.
Pakhoi,	.78 NNE 3 cr.	.75 N 3 c.	.68 NNW 3 c.	.67 N 1 c.	.78 SW 1 or.
Hoihow,	.82 ENE 3 o.	.79 N 4 b.	.74 WNW 5 c.	.73 WNW 3 o.	.82 SW 3 crq.
South Cape,	.68 NE 6 cm.	.76 NE 2 om.	.81 NE 1 c.	.81 NE 1 c.	.86 NE 1 c.
Bolinao,	.66 SSE 3 o.	.76 S 2 or.	.78 SSE 2 or.	.78 NW 2 c.	.83 S 3 c.
Manila,	.75 S 5 o.	.84 SSW 3 o.	.83 W 3 o.	.79 WSW 1 o.	.87 SW 1 c.

The depression seems to have been in the initial stage on the 23rd August, but on the 24th it had probably become cyclonic and was central over the Balingtang Channel. Pressure had decreased considerably between the 23rd and 24th in S Formosa and strong NE breezes to moderate gales prevailed at South Cape and in the Formosa Channel. In Luzon light to moderate S and SW breezes prevailed, pressure being lowest, about 29.61, on the N coast of the island.

On the 25th pressure had increased at South Cape and in Luzon, but had decreased on the China coast, between Hongkong and Swatow, to the extent of 0.1 inch. Moderate S and SSW breezes prevailed in Luzon and strong NE breezes in the neighbourhood of Swatow. The wind had become light at South Cape varying between NE and SE, but a fresh SE breeze blew at Fisher Island. At noon the centre of the depression may be placed, approximately, in 21°, 117°. During the evening a fresh NE gale blew at Breaker Point but at 3 a. next morning, the 26th, the wind had veered to ESE of force 6. Decreasing in force, it veered gradually to SSE at 9 a. At Hongkong NW to W winds of force 3 blew during the morning, the barometer being at its lowest point, 29.56, at 3 a., but in the course of the afternoon the wind backed to S and SE. The lower clouds came from WNW at 7 a., from WSW at 1 p. and from ESE at 10 p. At Victoria Peak we have the following observations of wind direction and force 10 a. WNW 4; 4 p. SW 4; 10 p. SE 4. These observations point to a weak depression having entered the coast between Breaker Point and Hongkong on the morning of the 26th and to its subsequent movement in a W direction to the N of Hongkong and to the S of Canton. At noon the central area may be placed in 22¾°, 114¼°.

The Pakhoi and Hoihow observations faintly indicate the passage of the depression to the N of these stations between the 27th and 28th.

Between the 29th and 31st August a general and well marked decrease of pressure was in progress over China, the Loo Choo Islands, Formosa and Luzon. In the south-east part of this area the decrease of pressure was due to a typhoon (X) in the Pacific which appears to have been situated to the E of N Luzon on 29th and to have been advancing in a WNW direction. The following are the noon observations:—

Station.	August 31st.				September 1st.				September 2nd.			
N. Saddle,	29.72	E	2	o.	29.71	ESE	5	orq.	...	...	...	...
Ningpo,	.67	N	1	o.	.68	NE	2	opq.	...	...	...	...
Naha, *	.60	ESE	2	or.	.66	S	2	o.	29.83	SE	1	o.
Turnabout,	.68	NNE	1	c.	.58	NNW	5	omp.	.71	SSW	4	c.
Keelung,	.69	N	1	b.	.48	NW	2	odq.	.73	NE	1	ot.
Chapel Island,	.70	calm		c.	.65	calm		c.	.73	S	1	c.
Fisher Island,	.66	N	2	b.	.60	N	2	c.	.71	S	2	b..
Lamocks,	.67	calm		c.	.64	calm		cv.	.72	calm	...	c.
Hongkong,	.66	NE	1	o.	.66	W	1	c.	.73	WSW	1	o.
South Cape,	.63	NNE	2	c.	.55	W	6	cp.	.74	WSW	2	c.
Bolinao,	.71	S	2	o.	.72	SSE	2	o.	.79	S	2	o.
Manila,	.71	SW	2	c.	.74	SW	4	o.	.84	SW	1	o.

* 1.32 p.

On the 31st the typhoon seems to have been central in about 22°, 126½° or almost equi-distant from Naha to the NNE, South Cape (Formosa) to the W and Cape Engano (NE Luzon) to the SW of the position named. The disturbance appears to have been moving towards NW at this time. At Naha the barometer was steady but the wind freshened somewhat from E and ESE during the evening. In Formosa pressure was decreasing and in the S part of the island the wind increased slightly in force towards evening and backed to NW. At Cape Engano the barometer was inclined to rise with the wind backing to WSW. The observations at the latter station, are extracted from the Manila publications and are as follows:—10 a. 29.65 NW 3; 4 p. 29.57 WSW 4. On the 1st September at noon the centre had arrived in the approximate position of 25°, 124° and was then moving to the NNW. Pressure was increasing in Luzon and also over Japan and Manchuria, but it had decreased very considerably about the N part of the Formosa Channel particularly at Tamsui and Keelung (N Formosa). At these stations the lowest barometer readings were made at 3 p. (at Keelung 29.45) with moderate NW winds which backed to W at Keelung, during the evening. The centre passed E of Keelung during the afternoon probably at a distance of 100 miles. The gradients appear to have been very moderate in the W part of the disturbance and the winds comparatively light. To the N of the centre at the light stations between Ningpo and Shanghai the wind increased to strong breezes from NE and E during the evening and the barometer commenced to fall quickly.

The following observations on September 2nd indicate the path of the centre:—

Hour.	Ningpo.	Steep Island.	Gutzlaff.	N. Saddle.	Woosung.	Wuhu.	Chinkiang.
3 a.	29.30 N 10 orq.	29.32 NE 10 ogr.	29.54 ESE 6 omr.	29.62 SE 10 orq.	29.55 E 6 orq.	N 2 o.	NE 5 orq.
9 a.	.33 S 6 orq.	.42 SE 9 omr.	.28 SE 12 omr.	.45 SE 9 orq.	.26 E 8 orq.	N 4 o.	NE 6 od.
3 p.	.53 S 6 oq.	.58 SSW 8 cmp.	.45 SSW 10 omr.	.51 S 10 orq.	.31 S 6 odq.	NE 5 op.	N 8 or.
9 p.	.72 calm. o.	.74 SW 5 cmp.	.67 WSW 6 og.	.66 WSW 10 orq.	.46 WSW 5 od.	NW 2 c.	NW 7 or.

Evidently the centre passed almost over Ningpo at 7.30 a. where the barometer was at its minimum, 29.23, at this hour with a sudden change of wind from N to S. At noon it was situated about 20 miles to the W of Shanghai and its position may be given as 31° 10′, 121° 15′. Accepting the position of the centre as stated for the previous day as fairly correct this would give the disturbance an average speed at the rate of about 17 miles per hour during the 24 hours ending at noon on the 2nd.

During the evening of the 2nd the disturbance was recurving and moving to the NNE in the Yellow Sea. At the light stations on the Shantung Promontory the barometer began to fall quickly with the winds increasing from the NE, but over Japan pressure remained high at from 29.9 to 30.0 inches.

On the 3rd and 4th we have the following observations:—

Date.	Hour.	SE Shantung Py.				NE Shantung Py.				Chemulpo.			
Sept. 3	3 a.	NE	11	omr.		29.56	ENE	8	omr.	29.82	NE	3	r.
	9 a.	NE	8	omd.		.35	NE	8	omd.	.76	ESE	4	og.
	3 p.	NW	6	om.		.29	N	9	om.	.70	S	6	oq.
	9 p.	NW	5	cm.		.73	NNW	7	omd.	.82	S	6	opq.
Sept. 4	3 a.	WNW	4	cm.		.82	W	4	cm.	.86	SW	6	opq.
	9 a.	WSW	4	c.		.89	WNW	3	cm.	.87	SW	3	c.
	3 p.	SW	4	c.		.88	NW	4	cm.	.87	SW	3	c.
	9 p.	SW	3	bm.		.88	WSW	2	cv.	.89	WSW	1	c.

The centre was probably situated in 36½°, 123° at noon on the 3rd, *i. e.*, about 30 miles to SE of the SE Shantung Promontory. Its course which had been towards NNE seems then to have become NE and it is probable that it crossed N Korea between the evening of the 3rd and morning of the 4th. At Yuensan the barometer fell about 0.2 inch between 9 a. of the 3rd and 9 a. of the 4th and the wind which had been a fresh NE breeze on the evening of the 3rd became light from NW on the morning of the 4th. It would appear that the disturbance passed the neighbourhood of Yuensan and entered the N part of the Sea of Japan early on the morning of the latter day. On the 4th a sharp fall of the barometer from 29.88 at 7 a. to 29.54 at 9 p. occurred at Wladiwostock, but there was no wind. On the 5th between 6 a. and 2 p. a depression which approached from the W crossed Hokkaido (N Japan) and passed to the Pacific. This may have been the original disturbance, but the observations are insufficient to show this with certainty.

SEPTEMBER.

The next depression (XI) was not at first of any considerable intensity. It appears to have had its origin in a rather high latitude, about 20°, to the NE of Luzon. At first it moved slowly to the NNW, but after recurvature it travelled quickly towards NNE and passed into the Sea of Japan.

The following are the noon observations :—

Station.	September 5th.	6th.	7th.	8th.	9th.
Fusan,	29.88 SW 2 c.	29.85 SSW 3 c.	29.83 SW 1 c.	29.67 NE 2 cr.	29.63 NE 4 cr.
Steep Island,	.85 NE 3 c.	.78 NE 3 cm.	.73 NE 4 cm.	.64 N 4 c.	.61 NW 6 c.
Naha,	.71 ESE 2 c.	.61 SE 2 o.	.63 SSE 1 o.	.61 S 1 o.	.66 WSW 1 o.
Keelung,	.76 NE 3 or.	.65 NE 2 od.	.58 NNE 2 o.	.64 NNW 2 ...	.69 N 2 b.
Turnabout,	.78 NNE 6 om.	.70 NNE 6 cmp.	.65 N 6 c.	.68 SW 1 c.	.70 var. 1 b.
Lamocks,	.74 NNE 5 c.	.66 NNE 2 c.	.66 WSW 1 cm.	.68 SW 1 c.	.68 calm cm.
Hongkong,	.75 E 4 o.	.69 W 1 c.	.72 W 2 c.	.70 W 1 o.	.66 ESE 1 b.
South Cape,	.69 NE 2 c.	.63 ESE 1 c.	.57 WNW 5 c.	.62 WNW 5 c.	.68 NE 1 c.
Bolinao,	.77 SSW 2 o.	.77 SW 2 or.	.81 SSW 2 o.	.82 NE 2 or.	.79 SW 2 or.

Between the 4th and 5th September a considerable decrease of pressure occurred at Naha and at South Cape, Formosa, light E and ESE winds prevailing at the former station and light N and NE winds at the latter, while in the Formosa Channel strong breezes from NNE prevailed. In Luzon, where the barometer was steady, SW winds were blowing. The area of low barometer seems to have been central in about 21° 126°.

On the 6th a further considerable decrease of pressure had taken place at Naha and in Formosa, particularly in the N part of the island. The disturbance seems to have been moving slowly towards NNW and was probably central in about 22½°, 125½° at noon on this day.

On the 7th pressure was increasing in Luzon, but had again decreased in Formosa during the previous 24 hours, slightly in the S and considerably in the N part of the island. At Naha the barometer was steady but it was falling at Steep Island. In SW Japan the barometer stood at 29.80 and upwards. At Keelung light breezes backing from NE to NW prevailed and at Naha light breezes veering from SE to S. The disturbance which had its centre in about 24½°, 124½° at noon was still moving to the NNW between these two stations. The S.S. *City of Peking*, situated in 28° 58′, 126° 28′ at noon and steering towards W 32° S, had the barometer, 29.71, falling with fresh to strong SE backing to E breezes and high confused sea.

On the 8th they made the following observations on board this vessel :—

4 a.,	29.44	NE	5	gloomy, squally.	4 p.,	29.61	W	5	sea going down, fine.
8 a.,	.47	N	6		8 p.,	.65	SW	2	
Noon,	.56	N/W	7	26° 40′ 122° 20′	Midt.,	.68	SW	1	

These show that the vessel passed from the NW to the W of the centre during the morning, probably at a distance of about 75 miles. At noon the centre may be placed in 27°, 124½°. In the neighbourhood of Steep Island the barometer continued falling and pressure had also decreased to the extent of 0.1 inch and upwards in SW Japan where at 2 p. the barometer read about 29.70. At Naha the barometer was almost steady while in Formosa pressure had increased. The depression seems to have been recurving to the NNE on the evening of this day.

On the 9th at noon, the centre was probably situated in 30°, 126°. The barometer had then commenced to rise at Steep Island and the wind had backed to NW. The barometer was falling at Fusan (S. Korea), with increasing winds from NE, and in Kiusiu (W. Japan) with strong breezes from E and SE.

The centre passed near Fusan about 3 a. on the 10th where the following observations were made:—9th 9 p. 29.59 NE 7 cgr; 10th 3 a. 29.18 SW 10 cg; 9 a. 29.54 SW 1 c. It was moving now very rapidly towards NNE and a considerable fall of the barometer at Yuensan since the previous evening with light winds from W during afternoon of the 10th, indicate its having passed to the N of the latitude of this station near mid-day. Its approximate position at noon was 40° 132°. A sharp fall of the barometer, to 29.50, at 9 p. at Wladiwostok and to 29.69 in W. Hokkaido (N Japan) at the same hour with a moderate N breeze at the former station and gales from SE and S in the latter district indicate that its course, towards NNE, was maintained, in the Northern Sea of Japan.

The following observations refer to depression XII which originated in the China Sea to the S of Swatow in about 18° to 20° Lat. on September 10th. Subsequently it moved westward and crossed Hainan on the 12th:—

COAST STATIONS.

Station.	September 9th.	10th.	11th.	12th.	13th.
Turnabout,	29.70 var. 1 b.	29.78 NE 5 b.	29.81 NE 5 c.	29.82 NNE 3 c.	29.82 NE 1 c.
Chapel Island,	.70 SSE 1 b.	.77 NE 5 c.	.80 NE 5 c.	.83 NE 3 c.	.84 calm 0 b.
Fisher Island,	.68 var. 1 bm.	.70 NNE 3 cm.	.74 NNE 5 cm.	.78 NNE 5 c.	.80 NNE 4 b.
Breaker Pt.,	.66 SE 2 b.	.69 NE 7 c.	.73 NE 6 cm.	.79 NE 4 c.	.83 E 3 c.
Canton,	.66 NW 1 b.	.69 N 1 c.	.69 NE 1 c.	.78 NE 1 o.	.80 SE 1 o.
Hongkong,	.66 ESE 1 b.	.68 E 2 c.	.67 ENE 6 o.	.76 ENE 5 or.	.82 E 2 o.
Pakhoi,	.70 N 2 c.	.71 NNE 2 c.	.70 WNW 2 c.	.68 NE 4 o.	.72 E 4 c.
Haiphong,	.74 NW 2 c.	.73 calm 0 cm.	.76 W 1 cm.	.72 W 1 o.	.72 NNW 1 o.
Hoihow,	.76 NW 4 c.	.77 WNW 3 or.	.75 NW 3 o.	.58 ENE 7 or.	.79 SE 5 or.
South Cape,	.68 NE 1 c.	.73 NNE 1 od.	.73 NE 3 c.	.77 NNE 1 c.	.75 WNW 4 c.
Bolinao,	.79 SW 2 or.	.77 SW 2 o.	.79 SSW 2 o.	.84 SW 2 c.	.89 SW 1 o.
Manila,	.81 SSW 4 o.	.80 SW 5 o.	.80 SW 6 c.	.85 SW 4 o.	.89 SW 5 o.

VESSELS.

September 9th.

S.S. Zafiro,	19°	27′	116°	18′	29.63	W	4 o.	S.S. Taiyuan,	16°	10′	118°	43′	29.71	SW	5 oq.
„ Macduff,	19	22	111	57	.70	NE	5 o.	„ Namchow,	15	00	110	36	.74	W	5 b.
„ Electra,	17	35	110	70	.70	var.	0 o.	„ Borneo,	12	21	111	18	.80	SW	5 ...
„ Crown of Arragon,	17	29	113	56	...	SW	5 odq.	„ Lightning,	8	34	108	23	.84	SW	5 ...

September 10th.

S.S. Loosok,	20°	46′	113°	00′	29.68	N	2 o.	S.S. Shanghai,	15°	09′	112°	59′	29.72	SW	4 o.
„ Sishan,	19	17	112	12	.63	NW	5 b.	„ Thisbe,	15	05	113	00	.74	WSW	5 ...
„ Namchow,	18	46	111	25	.66	NW	5 o.	„ Lightning,	12	20	111	30	.80	WSW	6 ...
„ Borneo,	16	02	113	03	.77	WSW	5 ...	„ Taiyuan,	12	23	120	54	.84	SSW	4 o.
„ Macduff,	15	35	109	46	.77	SW	2 ...	Bk. Dorothy,	9	58	110	08	...	SW	6 ...

September 11th.

S.S. Namchow,	20°	20′	112°	10′	29.54?	NNE	10 oq.	S.S. Diamond,	18°	28′	111°	53′	29.70	NW	5 or.
„ Kutsang,	19	07	111	50	.65	N	6 or.	„ Johann,	18	12	110	17	.66	NW	6 or.
„ Borneo,	18	58	114	00	.46	WNW	8 orq.	„ Lightning,	15	50	113	22	.72	W	5 o.
„ Thisbe,	18	46	113	29	.56	WSW	9 o.	Bk. Dorothy,	12	14	113	10	...	SW	6 ...
„ Shanghai,	18	25	113	36	.61	W	10 ...	S.S. Macduff,	11	25	109	15	.80	SW	6 ...

September 12th.

S.S. Shanghai,	20°	46′	113°	53′	29.79	E	4 ...	S.S. Kutsang,	15°	54′	110°	24′	29.69	SW	6 ...
„ Lightning,	19	23	114	20	.74	SE	4 ...	Bk. Dorothy,	14	35	114	44	...	SW	6 ...
„ Diamond,	19	05	112	20	.58	ENE	7 ...	S.S. Activ,	13	47	109	13	.75	WNW	3 ...
„ Johann,	18	17	110	48	.59	WSW	8 ...	„ Macduff,	8	06	107	52	.93	SW	4 b.

September 13th.

S.S. Johann,	18°	33′	111°	40′	29.77	SE	6 ...	S.S. Phra Chom Klao,	14°	51′	110°	05′	29.78	SW	4 c.
„ Activ,	15	57	108	28	.75	NE	1 ...	„ Kutsang,	12	22	109	44	.79	SW	6 ...
Bk. Dorothy,	16	44	116	00	...	SW	4 ...	„ Nizam,	11	06	110	54	.88	SW	5 b.

Between the 9th and 10th September pressure increased very considerably on the E and SE coasts of China in rear of the recent typhoon which on the latter date was moving to the NNE in the N part of the Sea of Japan. Gradients thus again became favourable for NE winds on the China Coast to the Southward of Shanghai, and such winds were established and blew strongly in the Formosa Channel and on the adjacent coasts on the 10th. It appears also that they had spread to the Southward in the N part of the China Sea off the coast, but SW winds were still maintained in force over the greater part of the China Sea, certainly to the S of 16° Lat. and probably to the S of 18° Lat. It appears that a depression had been formed in the area between the two currents and the observations on the 10th show that winds were cyclonic around the N part of the China Sea and indicate that a depression was central probably near the position 19° 115½° at noon on this day. The steamships *Borneo*, *Shanghai* and *Thisbe*, at noon situated at a distance of from 250 to 300 miles to the SW by S of this position and steering northwards, all had the barometer falling during the evening with the wind increasing in force from W and WNW. The S. S. *Namchow*, situated at a distance of 250 miles to the W of the centre at noon and steering towards Hongkong, had the barometer falling and the wind veering to N, increasing in force. At Hongkong, about 200 miles to the NNW of the centre, the barometer remained steady but the wind increased to a strong breeze from ENE after noon.

The depression was moving slowly westward.

On the 11th pressure had increased slightly about the Formosa Channel, while at Hoihow the barometer was inclined to fall. At Hongkong a strong breeze to moderate gale from NE and ENE blew throughout the day with the barometer practically steady. At Hoihow moderate NW breezes prevailed, but late at night the barometer then having fallen decisively, the wind increased in force, and some heavy squalls were experienced. In Luzon light to fresh S and SW winds prevailed.

The centre of the disturbance was situated in 19° 30′, 114° 15′ at noon. It was moving towards W and passed to the N, and within a few miles of the steamships *Borneo* and *Thisbe* during the afternoon. On the latter vessel the following observations were made:—

10 a.,	29.62	W	9.	5 p.,	29.46	S	4.
Noon,	.56	WSW	9.	6 p.,	.46	S	4.
1 p.,	.54	SW	7.	7 p.,	.50	S	4.
2 p.,	.48	SW	7.	8 p.,	.46	S	4.
3 p.,	.47	SSW	4.	9 p.,	.55	S	4.
4 p.,	.46	SSW	5.	Midnight,	.66	S	4.

These observations indicate that the worst weather was found in the advancing semicircle and that in rear the winds were moderate. This conclusion is confirmed by the observations made on board the S. S. *Shanghai*. This vessel was situated a few miles to the S of the *Thisbe* and had very bad weather until the evening, a fierce gale being experienced from W and SW. The lowest barometer reading, 29.41, was recorded at 7.15 p., the mercury having fallen rapidly in a squall from SW which lasted 20 minutes and was almost of typhoon force, but after this the barometer rose quickly, the wind backed towards S and the gale was over. The S. S. *Namchow*, at a distance of about 130 miles to the WNW of the centre at noon, had a strong NNE gale which continued during the evening as she steered towards Hongkong. The S. S. *Kutsang* was situated about 140 miles to the W of the centre at noon and experienced strong N breezes backing gradually to SW as she steered southwards.

On the 12th the centre was situated in about 19° 15′, 110° 30′ and it passed to the S of Hoihow during the afternoon. The barometer had fallen rapidly at this station since the previous midnight and a moderate gale, accompanied by hard rainsquall, blew throughout the day, the wind direction veering from NNW at 3 a. to ESE at 3 p.; the lowest recorded reading of the barometer, 29.55, occurring at the latter hour.

To the S of the centre the S. S. *Johann* experienced a strong SW gale which decreased during the evening and backed to S at midnight. The centre seems to have passed about midway between this vessel and Hoihow. The S. S. *Diamond* had passed near the centre during the morning and experienced a very heavy gale from WSW and SW up to 8 a. when the wind moderated and apparently backed towards E. This vessel's position at noon seems doubtful, and the position of the centre is given more particularly with reference to the observations made at Hoihow and on board the S. S. *Johann*.

Between the 11th and 12th the disturbance had moved at the rate of about 9 miles per hour in a W direction and after crossing the island of Hainan on the evening of the latter day its course seems to have been maintained in the Gulf of Tongking, the observations for the 13th still showing a trace of the depression which may have been situated near the position 19° 107° at noon on this day.

Typhoon XIII appears to have been approaching the Loo Choo islands from the SE between the 10th and 12th September. At Naha (26° 13′, 127° 41′) the mean pressure was 29.67, 29.59 and 29.49 on the 10th, 11th and 12th respectively, so that the barometer was falling steadily while the wind was increasing from NNE and N. At noon on the latter date the centre may be placed approximately in 24° 131½°. Already on the 11th the ship *W. J. Rotch* experienced a heavy SE swell with the wind freshening from the NE in 28° 50′, 130° 10′. On the 13th the centre of the typhoon passed to the E of this station during the early morning. The mercury descended to 29.34 at 5.32 a. and a moderate to fresh gale, backing from N to W, prevailed throughout the day. The centre passed over the sailing vessel *W. J. Rotch* near 11 a. The following interesting account of the storm is furnished by Captain L. Bray, her commander:—

September 12th, Noon,	29.57	Position of ship, 28° 08′ N, 130° 44′ E. Think we are in for a typhoon. Cannot go on the starboard tack on account of Kikai Island.
4 p.,	.47	Typhoon. Wind steady at NE and increasing; took in upper topsail and mainsail.
6 p.,	.43	Furled foresail and lower mizzen topsail.
8.15 p.,	.37	Furled lower topsails.
9 p.,	.32	
10 p.,	.17	Wind of great force. Furled main spencer and fore topmast staysail and lay under bare poles with tackles on the tiller and ten oil bags over. Sea terrible, but ship takes very little water to windward although the lee rails are under.
Midt.,	28.99	

September 13th, 2 a., ...28.87; 4 a., 28.67; 6 a., 28.42; 8 a., 28.27.

9.30 a., ...	Shipped a tremendous sea which swept the decks, took the boats off the house, both skylights, house rails, &c., but worst of all washed overboard Paul Paulsen and Carl Hansen, seamen, and nothing could be done to save them.
10 a., ...27.97	
10.30 a., ...27.87	The most terrific squall possible; do not see how the masts stood it, they swayed like the boughs of a tree.
10.45 a., ...	The calm centre, wind very light from NE to SW through E for about twenty minutes and sun out bright overhead. We had just time to brace around the yards before it struck us again as heavy as ever from SW, and the barometer leaped up as fast as it went down. Lots of birds and butterflies came on board in the calm.
Noon, ...27.97	Position of ship (by guess) 27° 40′ N., 130° 10′ E.
6 p., ...	Receding half of typhoon very heavy to 6 p.m. when we got the clew of the main spencer set.
Midt., ...28.99	Still blowing hard but sea more regular.
14th, 6 a., ...	We lay under bare poles at 6 a.m., wind a fresh gale and sea getting smoother; bent a new fore topsail, made more sail and kept away on our course. All hands employed in getting water out of poop and cabin and in cleaning away the wreck. Three feet of water in the hold. Got up steam to pump out and sucked the pumps in five hours.
8 a., ...	Set lower main topsail. Through all this blow the rain has been constant and heavy and so thick in some of the squalls that the foremast could not be seen from the poop. The sea was indescribable, mountainous does not express it, unless say a jumble of mountains threatened from all directions. I attribute the safety of the ship and our lives to God's good providence and the constant and free use of oil of which we used about 15 gallons in 22 hours.
Noon, ...29.87	Position of ship, 28° 57′ 131° 52′. The typhoon current has set the ship out of her course by DR, NE by E 78 miles.

These observations sufficiently indicate the character of the disturbance and its course to the northward. In front of and near the centre the steepest gradients seem to have amounted to between 0.15 and 0.20 inch in 15 miles.

The disturbance was moving with increasing velocity, and on the 14th about 6 a. it passed near Nagasaki at which hour the barometer read 28.21. Its course towards NE in the Sea of Japan on the 14th and across Hohkaido on the 15th is shown by the Japanese Weather Maps. On the 16th the storm was encountered by H. M. S. *Porpoise*. At noon this vessel was situated in 50° 00′, 155° 55′. A fierce gale veering from SE in the morning to SW at 6 p. was experienced, the barometer having fallen to 29.25 at 2 p. at which point it remained steady until 6 p. when it rose.

On the 14th the centre was situated in about 35½°, 131½°, on the 15th in 44° 143° and on the 16th in perhaps 50° 154°.

Depression XIV appears to have originated in the China Sea to the W of Luzon on the 15th September. Subsequently it moved towards WNW and passed into the S part of Gulf of Tongking on the 18th.

The following are the noon observations:—

Station.	September 15th.	16th.	17th.	18th.
Steep Island,	29.96 NE 3 c.	29.98 ENE 1 c.	30.00 NE 4 cgr.	30.01 ENE 4 c.
Turnabout,	.93 NE 5 c.	92 N 5 om.	29.92 NNE 3 b.	29.89 ENE 6 c.
Chapel Island,	.92 NE 5 c.	93 NNE 4 c.	.97 calm 0 c.	.93 E 3 c.
Lamocks,	.88 NNE 4 c.	86 NE 4 c.	.89 NE 3 c.	.92 NE 2 c.
Hongkong,	.87 ENE 4 b.	85 E 3 b.	.87 E 7 or.	.88 E 4 or.
Haiphong,	.85 SSW 1 o.	87 SE 1 o.	.84 E 2 o.	.80 ENE 4 o.
Hoihow,	.88 E 3 c.	85 ENE 3 c.	.79 ENE 6 oq.	.81 E 2 c.
South Cape,	.87 NE 5 c.	89 NE 4 cp.	.93 NE 4 c.	.91 NE 3 c.
Bolinao,	.76 E 2 c.	77 SE 2 c.	.84 SE 2 c.	.85 var. 1 c.
Manila,	.76 SSW 1 o.	78 E 1 o.	.84 SW 1 c.	.86 SW 2 o.

VESSELS.

September 15th.

S.S. Cosmopolit,	19°	27′	116°	08′	...	E	5	...	S.S. Pollux,	17°	45′	110°	54′	29.78	NE	3	...
„ Nizam,	18	43	114	16	29.83	NE	3	c.	„ Telamon,	13	16	110	14	...	NW	2	b.
„ Libelle,	18	19	110	33	.83	NE	2	...	„ Hampshire,	7	06	107	37	..	SW	5	b.
„ Activ,	17	55	109	51	.85	ENE	2	b.	„ Kutsang,	5	59	107	18	.91	W	4	b.

September 16th.

S.S. Chowfa,	20°	45′	114°	21′	29.82	NE	5	o.	S.S. Cicero,	19°	48′	112°	16′	...	NE	6	...
„ Libelle,	20	10	112	12	.78	NNW	8	...	„ Memnon,	18	51	113	38	29.76	ENE	6	...
„ Pollux,	20	03	112	42	.76	NE	6	...	„ Telamon,	17	07	110	58	...	NE	4	q.
„ Activ,	19	58	111	26	.82	NE	3	o.	„ Hampshire,	10	16	109	50	...	WSW	6	orq.

September 17th.

S.S. Chowfa,	22°	10′	114°	15′	29.86	ESE	8	q.	S.S. Triumph,	20°	13′	110°	43′	...	NE	5	orq.
„ Pollux,	22	00	114	00	.78	NE	8	...	„ Telamon,	19	55	112	31	...	NE	6	...
„ Cicero,	21	11	113	18	...	NE	8	q.	„ Memnon,	15	48	115	07	29.76	S	6	cp.
„ Libelle,	21	33	112	58	...	E	5	q.	„ Hampshire,	13	43	110	23	...	SW	6	orq.

September 18th.

S.S. Activ,	21°	56′	113°	39′	29.85	ENE	3	q.	S.S. Hampshire,	16°	40′	110°	43′	...	S	6	...
„ Clara,	20	30	108	25	...	NE	7	orq.	„ Memnon,	12	59	117	01	29.83	SW	4	b.

The formation of this depression was preceded, between the 14th and 15th, by a considerable increase of pressure on the China Coast and the spread of NE winds to the southward into the N part of the China Sea while in Luzon the barometer had fallen from 0.05 to 0.10 inch, winds being light and variable chiefly from an E direction in the N part of the island and from SW on the SW coast. The depression seems to have been in the initial stage and lying off the W coast of Luzon on the 15th.

On the 16th pressure had scarcely changed in Luzon, but a slight decrease had occurred on the S coast of China. To the S of Hongkong in about 20° Lat. the NE winds had freshened considerably while at Bolinao and Manila light to moderate SE winds now prevailed. The S.S. *Hampshire* had strong WSW and W winds accompanied by rainsqualls in about 10°, 110°. Winds were therefore cyclonic around the middle part of the China Sea, the central area of the depression probably occupying the position 15°½, 115°½, *i.e.*, about 250 miles to the W by S of Bolinao and about the same distance to the SSE of the S S. *Memnon*. The disturbance appears to have been moving towards WNW. The S.S. *Memnon* proceeding on her course to the SSE had the barometer falling until midnight when the wind veered to the E accompanied by heavy rainsqualls. Next morning, the 17th, the barometer was rising after 4 a with the wind veering to SE and S. This vessel evidently passed to the rear of the depression during the morning.

On the 17th at noon the centre was situated, approximately, in 17°, 112°½. The barometer had risen considerably at Bolinao and Manila and slightly at Hongkong while it had fallen at Hoihow. Fresh NE to E gales prevailed off the coast to the S of Hongkong, while at Hoihow strong ENE breezes with heavy rainsqualls prevailed throughout the day, the barometer remaining practically steady. The S S. *Memnon* now had a strong S breeze at a distance of about 150 miles to the ESE of the centre and the S.S. *Hampshire* a strong SW breeze at a distance of about 250 to the SW by S of the centre. The latter vessel, steering northwards, had the wind backing to SSE at 4 a. next morning, thus showing that the centre had passed to the westward of her position at that hour. Unfortunately they made no barometric observations.

On the 18th at noon the centre was perhaps situated in 18°, 108°. The barometer had risen slightly at Hoihow and the wind fallen light veering to E and SE. At Haiphong the barometer had fallen during the preceding 24 hours, the wind having increased to a moderate breeze from NE which veered to E during the afternoon. At sea the S.S. *Clara* had a moderate NE gale at a distance of about 150 miles to the N of the centre, and the S.S. *Hampshire* a strong S breeze to the ESE of the centre at a distance of about 170 miles. The disturbance seems to have moved westward and passed into the coast during the evening at some distance to the S of Haiphong.

The following noon observations refer to typhoon XV which originated in the Pacific to the E of Luzon and was approaching the NE coast of the island on the 20th September. Subsequently, on the 23rd, this typhoon entered the China Coast at Swatow. Thence recurving to the NE it passed to the sea again a few miles to the N of Foochow on the 24th; but resuming a NW or NNW course, it a second time approached the China Coast on the 25th in the neighbourhood of the lighthouse stations at the mouth of the Yangtze and apparently again entered the mainland to the N of Shanghai on the 26th:—

Station.	September 20th.	21st.	22nd.	23rd.	24th.	25th.
Steep Island,	30.01 NW 4 c.	29.98 N 4 c.	30.02 NE 1 c.	30.03 SE 3 cgr.	29.90 ENE 5 cgd.	... ...
Turnabout,	29.95 NNE 7 c.	.89 NNE 7 cm.	29.89 NNE 8 omd.	29.88 N 5 ogm.	.75 SW 8 c.	29.93 var. 1 b.
Tamsui,	.95 NE 3 cd.	.92 NE 4 or.	.85 ENE 3 o.	.90 SE 3 cd.	.82 E 3 c.	.99 SW 1 o.
Chapel Island,	.94 NE 6 c.	.86 NE 7 c.	.86 NE 7 om.	.77 E 7 omr.	.83 SSW 4 c.	.95 NE 1 b.
Fisher Island,	.88 NNE 6 cm.	.76 N 7 omq.	.81 NE 6 omg.	.81 SE 6 om	.85 SW 6 cm.	.90 N 2 c.
Lamocks,	.93 NE 4 cm.	.84 NNE 4 cv.	.81 NE 8 pq.	.00 E 12 orq.	.85 W 3 cv.	.92 NNE 2 c.
Breaker Point,	.91 NE 2 c.	.82 NE 3 c.	.80 N 4 om.	.22 W 9 odq.	.84 SW 3 b.	.92 ENE 2 c.
Canton,	.96 NE 1 c.	.89 NNW 2 b.	.86 N 4 b.	.70 WNW 3 b.	.87 NW 1 b.	.91 NNW 1 b.
Hongkong,	.95 WSW 1 c.	.86 W 1 b.	.82 N 3 o.	.75 NW 3 c.	.86 W 1 b.	.90 NE 1 b.
Hoihow,	.92 ESE 3 o.	.96 NE 3 c.	.92 NW 2 b.	.87 NW 3 b.	.89 WNW 3 b.	.97 WNW 3 b.
South Cape,	.84 NNE 3 c.	.73 NE 6 cmp.	.82 ESE 4 cm.	.90 SE 1 c.	.89 WSW 3 cp.	.91 WNW 3 c.
Bolinao,	.79 NW 4 or.	.81 SW 5 orq.	.88 SSE 3 or.	.94 S 2 od.	.95 SSE 2 c.	.95 SW 1 o.
Manila,	.82 calm o.	.83 SW 4 o.	.91 WSW 3 o.	.96 W 1 o.	.98 WSW 1 c.	.95 W 1 c.

VESSELS.

September 22nd.

S.S. Airlie,	27°	41′	122°	22′	29.99	NNE	4 or.	S.S. Chiyuen,	24°	10′	118°	20′	29.86	NNE 6 o.
„ General Werder,	27	03	122	22	.98	NE	5 op.	„ Ningpo,	23	06	116	33	.78	NNE 4 o.
Bk. Emma P. Crowell,	25	13	119	56	.91	NE	8 ...	„ Taisang,	22	37	115	38	.85	NE 2 o.

September 23rd.

S.S. Amoy,	27°	36′	121°	31′	29.96	NE	7 od.	S.S. Nanshan,	23°	20′	116°	43′	28.92	N 12 orq.
„ Formosa,	25	28	119	41	.85	NNE	7 o.	Bk. Emma P. Crowell,	(23	16	118	16)?	.93	E to SW 12 ...
„ Airlie,	24	29	118	45	...	ENE	7 or.	S.S. Empress of India,	23	13	117	35	29.37	S 12 orq.
„ General Werder,	23	57	118	17	.72	ESE	7 org.	„ Glenearn,	22	40	116	04	...	NW 6 ...
„ Ningpo,	23	50	118	00	.68	ESE	7 oq.	„ Hampshire,	22	36	116	46	...	SW 9 ...

September 24th.

S.S. Empress of India,	27°	22′	121°	16′	29.67	NNE	7 or.	S.S. Amoy,	24°	53′	119°	27′	29.74	SW 9 or.
„ Ningpo,	26	00	120	25	.72	SW	3 c.	„ Airlie,	23	51	117	56	.86	SW 5 b.
„ Formosa,	25	28	119	41	.77	SW	6 ...	„ General Werder,	23	06	117	10	.86	W 3 b.

The existence of typhoon XV was first indicated in Luzon, between the 19th and 20th September, by decreasing pressure accompanied by freshening winds from the N and W. The typhoon seems to have been advancing from the ESE and on the 20th at noon the centre was situated, approximately, in 17°, 124°. On this day the barometer was falling in S Formosa and the wind freshening from the NNE at South Cape, while at Bolinao strong NW winds prevailed and during the night a gale with the direction backing towards W.

The Manila publications show that the centre passed at a short distance to the N of Aparri (18° 22′ 121° 34′) at 6 a. on the 21st, moving towards WNW. At noon the centre may be placed in 19°½, 121°¼. Pressure had given way quickly on the SE coast of China and already moderate gales from N and NNE blew in the Formosa Channel. At S. Cape, Formosa, where the barometer was at its lowest point about midday, a strong NNE breeze prevailed until late at night when the direction veered to E. In N Luzon strong winds and gales backing from W towards S prevailed.

On the 22nd at noon the centre was situated in about 20°¾, 118°. It had thus traversed a distance of about 200 miles in a WNW direction during the past 24 hours. At South Cape, Bolinao and Manila, in rear of the disturbance, the barometer had risen nearly 0.1 inch since the previous day. Moderate ESE breezes now prevailed at the first named station while in Luzon winds were moderate from S and SW. In the right front of the disturbance, *i.e.*, on the coast between Swatow and Hongkong the decrease of pressure was, on the whole, very slight, although the centre had almost certainly advanced 150 miles nearer to this part of the coast during the past 24 hours. Towards evening, however, the course of the disturbance had become more northerly and it was moving directly towards Swatow. The barometer then began to fall rapidly at Lamocks and Breaker Point, the wind at the same time rising to a fierce gale from NE at the former station and from N at the latter.

The disturbance, which was moving northwards to the S of Swatow during the early morning of the 23rd, was encountered by the S.S. *Empress of India*. This vessel had left Hongkong for Shanghai at noon on the 22nd and experienced strong increasing winds from N with the barometer falling rapidly during the evening as she steered towards ENE. Between Breaker Point and Lamocks she crossed the track at a short distance in front of the centre on the morning of the 23rd and experienced winds of typhoon force from N at 1 a., from NE by E at 6 a. (barometer 29.09 lowest reading) and from S at 10 a. The S.S. *Hailoong* encountered the centre apparently to the SSE of Lamocks. She had left Amoy for Swatow at 5 p. on the 22nd. The barometer commenced to fall rapidly after 8 p. with strong increasing winds from NE. At 3.45 a. on the 23rd she was hove to and experienced a typhoon from ENE and E until 8 a. when the barometer was at its minimum, 28.49. The wind then fell to a moderate breeze for half an hour, birds in great number coming on board the vessel. The wind came again from SW with terrific force, the barometer rising nearly one

inch in 4 hours which shows how enormous the gradients must have been, the disturbance having a speed at the time of probably about 8 miles per hour. During the typhoon the vessel drifted about 50 miles to the SE. The sailing vessel *Emma P. Crowell* experienced the typhoon near Lamocks and sustained great damage, it being found necessary to cut away the fore and main masts to save the ship.

The following detailed observations for September 23rd show the progress of the disturbance and the passage of the centre near the Cape of Good Hope at noon. The barometric observations at this station and at Sugar Loaf have been corrected as well as possible, but they must be taken as only approximately correct:—

Hour.	Swatow. (23° 20′ 126° 43′).				Sugar Loaf. (23° 20′ 116° 46′).				Cape of Good Hope. (23° 14′ 116° 48′).				Lamocks. (23° 16′ 117° 17′).				Breaker Pt. (22° 56′ 116° 30′).			
1 a.	29.70	NE	7	or.	29.70	NE	10	orq.	...	...	...	...	29.62	NE	11	orq.	29.54	N	11	orq.
2 a.	.61	„	8	„	.65	„	10	„	29.56	NE	9	or.	.62	„	11	„	.49	„	10-11	„
3 a.	.58	„	8	„	.59	„	11	„	.54	„	9	„	.55	„	11	„	.51	„	10	„
4 a.	.56	NNE	8	orq.	.60	„	11	„	.52	„	9	„	.55	„	11	„	.40	„	11-12	„
5 a.	.55	NE	10	„	.56	„	11	„	.47	„	9	„	.52	NNE	11	„	.32	„	10	„
6 a.	.49	NNE	9	„	.50	„	11	„	.45	„	10	„	.50	NE	12	„	.24	„	11	„
7 a.	.49	„	10	„	.45	„	11	„	.35	„	10	„	.40	„	12	„	.21	„	10	„
8 a.	.49	NE	10	„	.36	„	11	„	.33	„	10	„	.37	E	12	„	.13	„	10	„
9 a.	.35	„	12	„	.32	NNE	11-12	„	.21	ENE	10	„	.30	„	12	„	.01	NW	11	„
10 a.	.20	NNE	12	„	.18	„	11-12	„	28.99	E	10	„	.12	SE	12	„	.03	„	11	„
11 a.	.05	„	12	„	.01	„	12	„	.69	ENE	11	„	.06	„	12	„	.15	W	10	„
Noon	28.94	NNW	12	„	28.78	N	12	„	.47	NW	8	„	.00	E	12	„	.22	„	9	„
1 p.	29.02	„	12	„	.82	NNW	12	„	.57	„	12	„	28.98	ESE	12	„	.40	SW	9-10	„
2 p.	.22	WNW	11	„	29.11	NW	12	„	29.10	„	12	„	29.14	S	12	„	.48	„	8	„
3 p.	.37	WSW	9	„	.32	SW	12	„	.28	SW	12	„	.34	SW	11	„	.54	WSW	6-7	„
4 p.	.47	„	7	„	.36	„	12	odq.	.43	„	10	„	.47	„	11	„	...	...	...	...
5 p.	.53	„	6	or.	.52	„	10	om.	.53	„	9	„	...	...	...	...	...	...	...	...
6 p.	.56	„	6	„	.56	„	8	„	.55	„	8	„	.56	SW	10	orq.	.61	WSW	5-6	c.
7 p.	.62	W	5	o.	.60	„	5	„	.61	„	7	o.	...	...	...	...	..	...	...	...
8 p.	.66	„	5	o.	.66	„	4	„	.67	„	6	o.	...	...	...	...	...	...	...	...
9 p.	.70	„	4	c.	.70	„	4	c.	.71	„	6	o.	.71	SW	6	orq.	.69	SW	5	c.
10 p.	.72	WSW	3	c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11 p.	.73	„	2	c.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Midt.	.75	„	2	c.	.75	SW	4	c.	...	...	...	...	.73	SSW	4	cm.	.76	W	4	c.

It is clearly seen from the above observations that the centre passed almost over the Cape of Good Hope light station at noon. Its position at this hour may therefore be given as 23° 15′, 116° 50′. It had already recurved and was now moving to the NNE. The disturbance having filled up considerably on entering the mainland passed probably some 50 to 60 miles to the W of Amoy during the evening; but its course now having become a NE one, it re-gained the sea near Foochow about noon next day, the 24th, as shown by the following observations:—

Date and Hour.	Amoy.				Turnabout.				Middle Dog.				Wenchow.			
September 23 3 p., ...	29.66	E	5	or.	29.83	N	5	op.	29.79	NNE	5	orq.	29.99	NW	2	or.
6 „	.62	SE	5	„	.84	var.	4	orq.	.78	„	5	„	...	...	...	...
9 „	.67	„	6	„	.84	ENE	5	odq.	.84	„	5	oq.	.99	NW	1	or.
midt., ...	.67	„	5	o.	.83	„	5	opq.	.80	„	6	„	...	...	...	...
September 24 3 a., ...	.65	S	5	„	.75	ESE	6	om.	.68	„	6	oqd.	...	...	...	...
6 „	.62	SW	3	c.	.69	SSE	7	pg.	.68	„	6	orq.	...	...	...	...
9 „	.68	„	3	b.	.74	SSW	7	rqg.	.69	SE	7	oq.	.89	NW	1	or.
noon, ...	.80	W	3	„	.75	SW	8	c.	.72	SW	3	c.	...	...	...	...
3 p., ...	.79	„	3	„	.76	„	6	c.	.79	„	3	c.	.79	NW	2	rf.
6 „	.86	„	2	„	.81	„	4	c.	.81	NW	2	c.	...	...	...	...
9 „	.90	calm		„	.86	NNW	4	c.	.83	„	2	c.	.89	NW	1	rf.

The centre was situated about 26° 45′, 120° 30′ at noon, and it appears to have been moving towards ENE at this time. The steam-ships *Empress of India* and *Ningpo* had both experienced the typhoon in the S part of the Formosa Channel on the previous day but the former having steamed quickly had passed to the northward of the disturbance while the *Ningpo* remained yet to the southward. As the course of the storm appears to have been gradually becoming a northerly one again during the evening, the *Empress of India* continued to have bad weather as she steamed towards Shanghai. The barometer was inclined to fall, a fresh NNE and N gale with thick rain and high sea being experienced throughout the evening. The S.S. *Ningpo* had the barometer almost steady with the wind veering to W and NW, a moderate to strong breeze as she steered northwards.

On the morning of the 25th the disturbance was slowly approaching the lighthouse stations at the mouth of the Yangtze. The centre appears to have been situated in 30°½, 123° at noon, that is between Steep Island and North Saddle lighthouse and it apparently passed almost over the latter station the same evening. The following are the observations:—

Date and Hour.	Steep Island.				Gutzlaff.				North Saddle.				Shaweishan.			Woosung.		
September 25 3 a.	29.70	NE	8	or.	29.78	NE	6	od.	29.76	ENE	11	rq.	ENE	7	or.	29.84	ENE	6
9 „	.69	NW	7	cd.	.76	N	6	„	.62	„	9	pq.	E	8	„	.82	NNE	7
3 p.	.63	W	7	c.	.62	NNE	4	c.	.63	E	5	c.	„	8	„	.79	N	7
9 „	.69	„	7	„	.66	NNW	4	od.	.67	SW	3	oq.	ENE	5	„	.70	„	7
26 3 a.	.80	„	5	„	.71	W	4	o.	.75	„	6	„	SSW	5	od.	.65	NW	4
9 „	.88	SW	3	„	.75	WSW	4	cq.	.86	„	6	„	WSW	5	o.	.72	SW	3
3 p.	.88	SSE	1	„	.86	„	2	c.	.87	„	3	o.	SSW	4	c.	.75	S	2
9 „	.94	SE	2	„	.93	SE	1	„	.93	SE	1	o.	„	4	c.	.85	calm	

The depression must have passed near Shaweishan between 9 p. of the 25th and 3 a. of the 26th apparently moving in a NW direction. It appears to have entered the coast to the N of Shanghai and may have been central in about 32°½, 121° at noon on the 26th. At Chinkiang, where the barometer had fallen since the previous day, moderate breezes backing from NE in the morning to NW at night were experienced.

The depression had no great depth on entering the mainland and it probably soon disappeared.

On September 29th typhoon XVI passed at a distance to the E of Naha (Loo Choo Islands). At noon the centre may have been situated in about 28°, 131°. The Japanese weather maps show that it entered South Nippon on the morning of the 30th and moving rapidly towards NE re-gained the Pacific the same evening. At noon on the 30th the centre was situated in about 36°, 139°.

Typhoon XVII was experienced in the Pacific by the Japanese man-of-war *Hiyei* on October 4th, while on a voyage from Japan to the Mariana Islands. The following are some of the observations made on board:—

October 3,	Noon,	20° 36′	149° 01′	29.92	E/N	4	c.
	Midt.,			.67	NE	7	cq.
4,	6 a.,			.57	NE	10	url.
	9 a.,			.35	NE	12	url.
	Noon,	19 10	148 00	.24	NE	12	url.
	3 p.,			.17	NE	12	url.
	4 p.,			.12	ENE	12	url.
	6 p.,			.33	E	12	url.
	Midt.,			.68	E	11	ur.
5,	1 a.,			.69	S/E	9	pql.
	Noon,	18 57	147 50	.87	S/E	7	c.

The centre of the disturbance seems to have passed, at a short distance to the S of the vessel at 4 p. on the 4th, moving towards WNW. The Japanese weather maps show that a depression appeared off the E coast of Japan in about 35°, 142° on the morning of the 8th and moving quickly towards NNE passed E of Hokkaido the next morning. It appears probable that the typhoon experienced by the *Hiyei* had re-curved between the 5th and 7th and had reached the Eastern shores of Japan on the 8th.

The following noon observations refer to typhoon XVIII which, according to the Manila publications, crossed the S provinces of Luzon on November 13th, moving from E to W, the centre passing over Puerto Galera (13° 31′, 120° 59′) between 6 p. and 7 p. on this day. Subsequently this disturbance moved Westward across the China Sea and entered the Annam coast early on the morning of the 16th November:—

Station.	November 12th.				13th.				14th.				15th.				16th.			
Steep Island,	30.23	N	2	b.	30.18	SE	3	c.	30.21	SE	3	c.	30.23	ENE	3	c.	30.32	NNW	6	c.
Turnabouts,	.17	NNE	6	c.	.09	NE	7	c.	.07	NE	7	om.	.09	NNE	8	om.	.20	NNE	8	om.
Lamocks,	.09	NE	6	c.	.01	NE	6	c.	29.99	NE	6	cm.	.00	NNE	5	om.	.10	NE	6	cm.
Hongkong,	.11	ENE	2	b.	.05	E	4	b.	30.02	W	1	o.	.02	N	3	c.	.09	N	4	o.
Haiphong,	.12	calm		b.	.05	E	2	od.	.02	calm		c.	.03	NNW	1	b.	.05	N	3	o.
Hoihow,	.16	NE	3	c.	.08	ENE	3	b.	.06	ENE	3	b.	.04	NE	3	o.	.07	NE	6	c.
South Cape,	.02	NNE	6	c.	29.96	NNE	6	c.	29.94	NE	7	c.	29.99	NE	5	c.	29.98	NNE	7	cq.
Bolinao,	29.82	NE	3	o.	.75	E	3	o.	.76	SSE	2	o.	.82	E	2	c.	.73	NE	3	od.
Manila,	.77	NNE	2	c.	.65	NNW	5	or.	.73	ESE	4	o.	.82	NW	1	o.	.54	E	10	or.

VESSELS.

November 12th.

Bk. W. Le Lacheur,	21°	32′	120°	45′	29.96	NE	8	...	S.S. Venetia,	12°	03′	112°	12′	29.89	NNE 5 ...
„ Adam W. Spies,	19	31	129	58	...	NNE	4	or.	„ Cheang Hye Teng,	11	31	110	51	...	N 5 o.
Sh. B. J. Hunt, Jr.,	17	25	118	28	...	N	7	...	„ Chowfa,	9	46	107	19	.85	NE 3 cp.
Bk. Tarapaca,	13	54	122	28	...	NE	6	oq.	„ Pingsuey,	3	38	105	42	.95	W 2 q.

November 13th.

Bk. Adam W. Spies,	20°	22′	127°	43′	...	NE	7	g.	S.S. Cheang Hye Teng,	13°	44′	112°	20′	...	N 6 orq.
Sh. B. J. Hunt, Jr.,	18	25	117	20	...	NE	7	o.	„ Chowfa,	12	10	109	20	29.85	NNE 6 ...
S.S. Venetia,	15	08	113	24	29.87	NNE	5	...	„ Diamond,	11	00	110	47	...	NNE 7 ...
Bk. Tarapaca,	13	54	122	28	...	NE	12	...	„ Pingsuey,	6	46	108	05	.91	ENE 2 ...

November 14th.

Bk. W. Le Lacheur,	21°	19′	120°	49′	29.94	NE	10	q.	S.S. Cheang Hye Teng,	15°	37′	113°	27′	...	NNW 6 q.
„ Adam W. Spies,	20	52	125	00	...	ENE	4	b.	„ Glamorganshire,	14	50	113	20	29.81	N 6 q.
Sh. B. J. Hunt, Jr.,	19	59	116	15	...	NE	6	o.	Bk. Aron,	14	09	119	05	...	SSE 9 or.
S.S. Polyhymnia,	18	25	111	15	...	NE	5	...	„ Tarapaca,	13	54	122	28	...	NE 5 o.
„ Catterthun,	18	09	117	13	.81	NE	9	o.	S.S. Chowfa,	13	24	109	15	.92	NW 7 ...
„ Venetia,	17	58	113	46	.88	NNE	6	o.	„ Diamond,	12	40	112	55	...	N ... ...

November 15th.

S.S. Memnon,	21°	23′	114°	20′	30.02	NE	5	b.	S.S. Polyhymnia,	14°	52′	110°	14′	29.72	NNW 8 ...
Bk. Adam W. Spies,	21	30	121	58	...	ENE	4	b.	„ Diamond,	14	03	114	13	...	S 5 or.
Sh. B. J. Hunt, Jr.,	21	25	114	42	...	NE	7	...	„ Chowfa,	13	24	109	15	.78	NNW 6 orq.
S.S. Glamorganshire,	17	10	113	33	29.66	NE	9	...	„ Pingsuey,	12	21	111	58	.63	WNW 8 ...
„ Cheang Hye Teng,	17	10	113	55	...	NE	8	q.	„ Tetartos,	12	12	109	12	.73	N 4 ...
Bk. Aron,	15	53	118	48	...	E	6	...	„ Melbourne,	10	47	106	42	.78	NW 1 o.
S.S. Catterthun,	15	20	119	10	.83	SE	4	b.	„ Arratoon Apcar,	9	46	109	53	.75	N 6 ...

November 16th.

Bk. Adam W. Spies,	21°	46′	118°	29′	...	NE	7	...	Bk. Aron,	16°	10′	119°	08′	...	NNE 6 or.
Sh. B. J. Hunt, Jr.,	21	30	115	01	...	NE	6	...	S.S. Pingsuey,	15	28	113	40	29.84	NE 6 ...
S.S. Glamorganshire,	19	32	114	36	29.83	ENE	7	...	„ Chowfa,	13	37	109	26	.80	E 3 o.
„ Cheang Hye Teng,	19	24	114	16	...	NNE	6	q.	„ Arratoon Apcar,	13	06	111	48	.85	E 2 b.
„ Yiksang,	19	21	116	25	.86	NE	6	...	„ Polyhymia,	11	43	109	41	...	S 4 ...
„ Diamond,	17	33	114	54	.78	NE	7	...	„ Catterthun,	11	36	121	15	.73	W 8 q.
„ Memnon,	17	24	115	08	...	NE	6	o.	„ Melbourne,	10	49	108	35	.83	SSW 6 o.

The following gives the position of the centre at noon each day :—

November 12th,	13°	126°	November 15th,	14¼°	113°
13th,	13½	122	16th,	13	107
14th,	14¼	117¾			

The disturbance having passed into the China Sea on the evening of the 13th, the centre was experienced by the bark *Aron* on the morning of the 14th. They had first a hurricane from N until 8 a. and then a change of direction to SSE at 8.15 a. The sea coming from all quarters did much damage about the decks. Barometer readings were not recorded.

On the morning of the 15th the centre passed a little N of the S.S. *Diamond*. The vessel was hove to at 1 a., the barometer (29.50 uncorrected) falling rapidly with a fierce increasing gale from NW by N. At 5 a. the barometer read 29.20, the wind being now from W. At 5.30 a. the barometer began to rise with the wind gradually veering to S at 8 a. The vessel suffered severely, the cabin being gutted, three life-boats washed away, tarpaulins and covers washed off hatches, besides other damage about the decks. The S.S. *Pingsuey*, situated at a distance of about 130 miles to the SSW of the centre at noon and steering to the NNE, had the barometer falling to 29.52 at 4 p. with the wind backing to W by S; but at 8 p. the mercury had risen to 29.72 and the wind had decreased to a light breeze from SSW The strong winds in rear of the centre evidently extended but a short distance. To the N of the centre at a distance of about 170 miles the steamships *Glamorganshire* and *Cheang Hye Teng* had strong decreasing gales with rising barometer as they steered northwards. The S S. *Polyhymia* was at noon situated at a distance of about 160 miles to the W by N of the centre. Between her noon position and Cape Varella (12° 55′ 109° 26′) which was sighted at 4 a. next morning, the 16th, they experienced a fierce gale backing from NW at 4 p. on the 15th to S by E at 4 a. on the 16th, the wind being of typhoon force between 6 p. and 3 a. The lowest barometer reading, 29.27, was recorded at midnight with the wind at SW when the centre passed very near, and to the N of the vessel. The centre entered the Annam Coast a little north of Phuyen harbour (13° 27′ 109° 13′) near 1 a. on the 16th as seen by the following observations made on board the S.S. *Chowfa* which had taken shelter there on the 14th :—

November 15th,—8.00 p.,	29.65	WNW	7	orq.	Wind increasing.
Midt.,	.51	SW/W	8	orq.	Terrific squalls of wind and rain, wind backing to S in the squalls.
16th,—1.00 a.,	.41	...	...		
2.00 a.,	.42	...	...		
4.00 a.,	.45	SW/S	10	orq.	Squalls less frequent. Weather improving.
8.00 a.,	.77	S	...		
9.15 a.,	Weighed anchor and proceeded.				

The average speed of the disturbance while crossing the China Sea was at the rate of about 12 miles per hour.

Typhoon XVIII had not yet reached the Annam coast when the next typhoon (XIX) commenced to make itself felt in Luzon on the 15th November. According to the Manila publications the centre moved towards WNW across the S provinces of Luzon, the track being represented by a line joining Gubat (12° 55′, 124° 08′) with Nasugbu (14° 04′, 120° 38′).

After passing into the China Sea on the 16th it continued to move towards WNW until the 18th when it commenced to move slowly towards the SW arriving off the Cochin China Coast on the 25th.

The following are the noon observations from the 17th to 25th. Those for the 15th and 16th have been already given:—

Station.	November 17th.				18th.				19th.				20th.				21st.			
Steep Island, .	30.29	NW	5	c.	30.26	NNW	4	cg.	30.18	NW	4	c.	30.12	ENE	3	c.	30.09	NNE	2	c.
Turnabout, ...	.16	NNE	7	gm.	.13	NNE	7	gd.	.07	NNE	7	om.	.04	N	5	om.	.05	N	5	cm.
Lamocks, ...	.02	„	8	om.	.01	„	7	om.	29.98	NE	6	om.	.00	NE	5	cm.	29.99	NE	4	cm.
Hongkong, ...	.04	N	3	o.	.01	NNW	2	c.	.99	„	3	c.	29.98	E	2	c.	30.00	SE	1	c.
Haiphong, ...	.08	NE	3	op.	.08	N	2	od.	30.00	WSW	1	b.	.98	„	2	c.	.03	NW	2	bm.
Hoihow, ...	.11	„	4	c.	.06	N	3	b.	.04	NNE	3	o.	30.04	NE	2	o.	.04	NE	2	c.
South Cape, ...	29.99	NNE	7	omp.	29.91	NE	5	od.	29.91	NE	7	c.	29.93	„	5	c.	29.93	„	3	c.
Bolinao, ...	.76	SE	4	or.	.83	SE	2	c.	.80	SE	2	c.	.82	var.	4	c.	.84	NNE	3	c.
Manila,.....	.83	SSE	2	o.	.83	„	1	c.	.80	„	1	o.	.82	S	2	o.	.82	ESE	1	o.

	November 22nd.				23rd.				24th.				25th.			
Steep Island, ...	30.17	NW	5	c.	30.30	NW	6	cg.	30.40	N	4	c.	30.50	NW	6	c.
Turnabout, ...	.12	NNE	6	cm.	.22	NNE	7	o.	.26	NNE	7	om.	.39	NNE	7	cm.
Lamocks, ...	.05	NE	5	cm.	.16	NE	5	cm.	.17	NE	8	cm.	.29	NE	7	om.
Hongkong, ...	.06	SE	2	b.	.18	N	3	b.	.18	„	3	o.	.32	N	5	o.
Haiphong,.....	.05	E	1	od.	.18	E	1	c.	.14	ESE	2	b.	.27	E	...	o.
Hoihow, ...	.10	NE	2	c.	.20	ENE	5	c.	.19	ENE	4	od.	.32	NE	7	od.
South Cape, ...	29.98	„	3	c.	.08	NE	5	c.	.12	NNE	7	c.	.12	„	6	c.
Bolinao, ...	.87	SE	3	o.	29.95	ENE	2	b.	29.96	ESE	2	b.	29.99	SE	2	o.
Manila, ...	.87	calm.		o.	.94	W	2	o.	.97	SW	1	o.	.99	N	1	o.

VESSELS.

November 17th.

Bk. W. Le Lacheur,	21°	51′	120°	30′	29.98	ENE	9	...	S.S. Zafiro,.....	14°	54′	120°	02′	...	SE	5	o.
Sh. B. J. Hunt, Jr.,	20	56	115	39	...	NNE	9	...	„ Melbourne, ...	14	42	110	16	29.87	NE	3	or.
S.S. Cheang Hye Teng,	20	55	114	04	...	NNE	6	...	„ Ghazee, ...	14	30	112	54	.86	NE	4	or.
„ Pingsuey, ...	18	06	113	30	.85	NE	7	q.	„ Memnon, ...	13	45	117	02	.81	W	5	o.
Bk. Aron, ...	16	38	118	22	...	SSE	8	o.	„ Loosok, ...	10	48	108	20	.78?	SW	2	b.
S.S. Arratoon Apcar,	15	59	113	05	...	NE	6	q.	„ Catterthun, ...	7	23	121	52	.95	SE	2	o.
„ Chowfa, ...	15	47	110	46	.84	ENE	4	q.	„ Namyong, ...	5	28	106	09	.94	NW	2	o.

November 18th.

Bk. W. Le Lacheur,	22°	20′	119°	59′	29.96	NNE	6	or.	Bk. Aron, ...	18°	09′	117°	50′	...	E	7	...
Sh. B. J. Hunt, Jr.,	20	36	116	11	...	NNE	9	...	S.S. Arratoon Apcar, ...	17	31	113	20	29.78	NNE	10	q.
S.S. Pingsuey, ...	19	40	114	23	...	NNE	9	q.	„ Esmeralda,.....	16	21	118	53	...	SE	4	op.
„ Diamond, ...	19	20	114	44	...	NE	9	oq.	„ Ghazee, ...	15	48	113	34	.78	NNW	9	...
„ Wingsang, ...	18	37	113	56	.86	NE	8	orq.	„ Loosok, ...	13	08	109	40	.92	N	8	...
„ Melbourne, ...	18	26	110	26	30.01	NNE	9	orq.	„ Memnon, ...	10	40	117	51	.88	SW	4	...
„ Devawongse, ...	18	21	111	17	29.94	NNE	6	oq.	„ Namyong, ...	8	19	108	29	.97	SW	4	orq.
„ Chowfa, ...	17	43	110	17	.94	NNE	8	q.	„ Priam, ...	7	37	108	14	.92	SW	...	or.

November 19th.

Bk. W. Le Lacheur,	22°	21′	118°	47	29.91	NNE	7	...	S.S. Wingsang, ...	17°	44′	113°	20′	29.86	NE	9	orq.
S.S. Pingsuey, ...	21	47	113	31	.99	NE	6	...	„ Ghazee, ...	15	31	113	20	.81	NNE	9	...
„ Diamante, ...	21	09	118	47	...	ENE	7	...	„ Loosok, ...	14	16	110	27	.84	NW	9	...
„ Diamond, ...	20	21	114	17	...	NNE	6	oq.	„ Devawongse, ...	13	57	109	41	.88	NW	5	o.
Sh. B. J. Hunt, Jr.,	19	51	116	21	...	ENE	7	...	„ Taicheong, ...	13	20	111	00	.82	N	7	...
S.S. Esmeralda, ...	19	44	116	30	...	NE	7	...	„ Namyong, ...	10	04	110	43	.91	NNW	5	...
„ Arratoon Apcar,	19	08	113	04	.88	NNE	7	orq.	„ Priam, ...	10	04	110	58	.87	N	7	...
„ Chowfa, ...	18	25	110	11	.94	NNE	4	...	„ Memnon, ...	8	46	117	01	.86	SSW	6	...

November 20th.

Bk. W. Le Lacheur,	22°	22′	115°	07′	29.98	NNE	4	b.	S.S. Taicheong, ...	15°	33′	112°	34′	29.72	NNE	7	o.
Sh. B. J. Hunt, Jr.,	20	47	115	43	...	ENE	6	oq.	„ Loosok, ...	15	00	110	29	.84	NNW	9	...
S.S. Chowfa, ...	20	33	111	44	.93	ENE	7	or.	„ Wingsang, ...	14	54	113	26	.54	NNE	8	od.
„ Chingtu, ...	19	20	116	09	...	NE	7	oq.	„ Oxus, ...	13	52	110	01	...	NW	3	o.
„ Vorwaerts, ...	18	59	116	59	...	NE	7	...	„ Priam, ...	12	59	112	51	.73	W	6	...
„ Breconshire, ...	18	23	111	51	...	NNE	6	or.	„ Namyong, ...	12	17	112	20	.81	NW	6	q.
„ Ghazee, ...	17	06	113	18	.86	NE	9	...	„ Pekin, ...	10	55	111	15	.94	NW	5	...
„ Diamante, ...	16	55	119	08	...	SE	4	op.	„ Devawongse, ..	9	48	107	29	.90	WNW	4	b.

November 21st.

S.S. Ghazee,	19°	07′	114°	08′	30.03?	NNE	7	q.	S.S. Chingtu,	15°	42′	118°	24′	...	SE	5	orq.
„ Glenshiel,	16	43	114	10	29.79	NNE	9	or.	„ Namyong,	15	22	114	44	29.58	SE	8	q.
„ Loosok,	16	39	110	41	.90	N	8	q.	„ Breconshire,	14	40	110	00	...	NNW	6	or.
„ Taicheong,	16	33	113	46	.78	NE	8	...	„ Pekin,	14	27	113	01	.78	NNW	4	o.
„ Zafiro,	16	00	119	13	...	NE	4	...	„ Wingsang,	11	51	110	13	.96	NW	4	...
„ Priam,	15	55	113	39	.49	NNE	9	q.	„ Devawongse,	9	10	103	30	.97	NW	4	b.

November 22nd.

S.S. Zafiro,	19°	26′	116°	32′	...	NE	6	...	S.S. Namyong,	16°	57′	115°	28′	29.92	NE	5	q.
„ Melpomene,	18	53	114	49	29.96	ENE	5	org.	„ Priam,	16	30	114	01	.84	NNE	8	c.
„ Loosok,	18	14	111	15	30.00	N	5	oq.	„ Pekin,	14	12	114	12	.70	N	5	or.
„ Sachsen,	18	06	114	21	29.95	NE	5	...	„ Glenshiel,	12	16	111	12	.97	N	7	...
„ Taicheong,	18	00	113	33	.95	NNE	5	...	„ Chelydra,	9	33	110	29	.88	NNW	8	...

November 23rd.

S.S. Priam,	20°	10′	114°	07′	30.12	NE	7	b.	S.S. Sachsen,	13°	21′	112°	18′	29.92	NNE	5	or.
„ Namyong,	19	18	115	00	.11	NE	6	o.	„ Chelydra,	11	19	111	43	.82	NNW	9	q.
„ Pekin,	17	49	114	39	29.98	NNE	8	q.	„ Glenshiel,	8	02	108	44	.97	N	5	b.
„ Melpomene,	14	47	113	53	.90	NE	4	o.	„ Decima,	4	53	109	37	.90	N	3	...

November 24th.

S.S. Chelydra,	12°	04′	112°	32′	29.74	NNE	10	q.	S.S. Sachsen,	8°	52′	109°	08′	29.89	N	7	o.
„ Preussen,	8	55	109	28	.97	N	7	...	„ Decima,	7	08	110	51	.86	NNW	3	...
„ Melpomene,	11	22	111	17	.81	NNW	10	or.	„ Glenshiel,	3	49	105	42	30.04	N	2	...

November 25th.

S.S. Chelydra,	14°	56′	113°	31′	29.98	NE	6	...	S.S. Decima,	9°	43′	111°	16′	29.87	SE	4	o.
„ Preussen,	11	41	111	00	30.00	E	6	...	„ Melpomene,	7	42	107	59	.88	WSW	3	b.

The following are the approximate positions occupied by the centre at Noon each day:—

November 16th,	14°	120¾°	November 21st,	15¼°	114°
17th,	16¼	117½	22nd,	14	115
18th,	16¼	116½	23rd,	11½	113
19th,	15½	116½	24th,	11	112½
20th,	14¾	114¾	25th,	10	108

On entering the China Sea the disturbance moved at first towards NW by W and was encountered on the morning of the 17th by the bark *Aron*, a hurricane-like gale veering from NE at 1 a. to SE at 8 a. being experienced. The disturbance had travelled at the rate of about 10 miles per hour during the previous 24 hours, but its speed now diminished and by the 18th at noon it had only progressed about 60 miles in a W direction during the preceding 24 hours. Very bad weather now prevailed over the NW part of the China Sea, N and NNE gales blowing in the area comprised by the S coast of China and the Annam coast. Off the W Luzon coast E and SE winds prevailed while between Palawan and the Cochin China Coast winds were moderate from SW.

On the 19th the position of the centre is not well determined and on the whole it appears that the disturbance had scarcely changed its position since the previous day.

On the 20th its position, however, is more clearly indicated, and it was probably situated about 80 miles to the ESE of the S.S. *Wingsang* and about 150 miles to the NE of the S.S. *Priam*. The former vessel, steering towards SW, had the wind backing to N and NW with rising barometer during afternoon and evening, while the *Priam* had the wind veering towards NW and blowing a gale as she steamed to N by E.

On the 21st the situation of the centre is well shown by the observations and it was within the area enclosed by the positions of the steamships *Priam*, *Namyong* and *Pekin*. It appears to have moved a few miles in a WNW direction since the previous day, but probably its general direction since the 18th was towards WSW, the observations during the interval not permitting of great accuracy in the determination of its position. The *Priam* had passed from the SW to the NW quadrant since the previous day and now had a strong gale from NNE with terrific rainsqualls. The S.S. *Namyong* to the E of the centre had the wind backing towards E and NE with rising barometer as she steered to the NNE during the evening. Between the 21st and 25th pressure was increasing over China and the depression was evidently driven to the S and W by the increasing depth of the NE monsoon. On the 22nd the centre appears to have been situated close to the S.S. *Pekin*, on the 23rd to the E of the S.S. *Chelydra* and on the 24th to the S of the *Chelydra* and to the E of the S.S. *Melpomene*. The S.S. *Preussen*, steering towards NNE, passed near the centre apparently between midnight of the 24th and 4 a. of the 25th. A strong gale was experienced backing from NW at 4 p. to WSW at midnight of the 24th and to SSE at 4 a. of the 25th the barometric minimum, 29.61, occurring at the latter hour. The S.S. *Decima* also experienced the wind backing gradually from NW to SE between her noon positions of the 24th and 25th. At Cape St. James fresh NW wind were experienced on the 25th and strong NE winds during the night between the 25th and 26th.

In November, with normal conditions over China as regards pressure, typhoons passing from the Philippines to the China Sea in a moderately high latitude (say 16°) for the time of year, appear to commence to fill up on passing well clear of the Luzon Coast and becoming exposed to the full strength of the NE monsoon. They then generally move slowly in a WSW direction, but should any considerable increase of pressure occur over China they move towards SW with increasing speed.

Usually the strong S winds in rear of such depressions extend but a short distance while in front of (the W quadrant) and to the N of them gales blow at great distances.

The sailing vessel *Dona Bartola* encountered typhoon XX in the Pacific while on a voyage from the Caroline Islands to Hongkong.

The following observations were made on board the vessel :—

November 17,	12° 00′	136° 31′	29.85	NW	Wind and sea increasing, heavy rain.
18,	13 06	135 50	.80	W	Hard squalls, heavy rain, high cross sea.
19,	15 00	134 06	.85	SSW	Fresh gale, heavy squalls, high sea.
20,	16 13	132 40	.80	SW	Hard increasing gale, heavy cross sea.
21,	17 30	131 58	.78	SW	Strong gale, heavy cross sea.
22,	18 00	131 29	.85	NW	Barometer rising, weather improving, heavy cross sea.
23,	18 30	131 11	.95	NE	Hauling to NE, less wind and sea.

These observations indicate a cyclonic disturbance to the E of the vessel on the 17th which moved towards NW passing N of the vessel between the 18th and 19th and finally recurving between the 21st and 22nd. The Japanese weather maps show that a disturbance, coming from the southward, approached S Japan on the 23rd and skirted the E coast on the 24th moving towards NNE. This was evidently the depression which had been experienced by the *Dona Bartola* on the previous days.

The following positions of the centre at noon each day give an approximation to the track of the disturbance :—

November 17,	13°	141°	November 21,	21°	132°
18,	15	137	22,	24	133
19,	17	134	23,	31	137
20,	19	133	24,	39	144

THE TYPHOONS OF 1893.

By W. Doberck and F. G. Figg.

The storm-warnings issued have been printed in "Observations and Researches made in 1893." The observations made on board ships are printed at the end of this report.

MAY.

Typhoon I appeared near Northern Palawan on the 8th May. It was small at the time, perhaps only a trough between areas with NE winds in the E part of the China Sea, and with S wind in the Mindara Sea :—

Bolinao, 16° 24′, 119° 55′				Hoihow, 20° 03′, 110° 20′				Pakhoi. 21° 29′, 109° 06′				Haiphong, 20° 52″, 106° 40′			
5th 3 p.	29.86	WNW	1 ct.	11th 3 p.	29.88	ENE	5 o.	11th 3 p.	29.92	SE	5 c.	11th 7 a.	29.93	NE	1 c.
6th 9 a.	.92	SE	2 b.	12th 9 a.	.87	ENE	4 od.	12th 9 a.	30.00	E	5 c.	11th 1.30 p.	.87	NE	c.
6th 3 p.	.82	NW	3 c.	12th 3 p.	.77	E	5 o.	12th 3 p.	29.86	E	5 c.	12th 7 a.	.84	N	o.
7th 9 a.	.90	NE	2 b.	13th 9 a.	.88	SE	3 or.	13th 9 a.	.85	SE	5 c.	12th 1.30 p.	.78	NNW	1 o.
7th 3 p.	.82	NNW	2 b.	13th 3 p.	.81	SSE	3 or.	13th 3 p.	.79	S	6 opq.	13th 7 a.	.70	NNW	2 od.
8th 9 a.	.91	NE	3 b.	14th 9 a.	.91	SE	3 o.	14th 9 a.	.90	SE	4 or.	13th 1.30 p.	.63	NW	or.
8th 3 p.	.80	ENE	2 b.									14th 7 a.	.77	SSW	1 o.
9th 9 a.	.87	SE	3 b.									14th 1.30 p.	.73	S	1 o.
9th 3 p.	.79	SE	3 c.												

On the 12th there was strong N wind at Haiphong and on the 13th it rained hard. At Hoihow there were heavy gusts of wind and rain-squalls during the night between the 11th and 12th. At 9 a. on the 14th 5.20 inches of rain were measured in Pakhoi, and at 9 a. on the 15th 5.46 inches.

The positions of the centre were as follows :—

8th noon, 11½°, 120°. 9th noon, 11½°, 118°. Midt., 11°55′, 116°35′. 10th noon, 12°30′, 115° 5′. Midt., 12°50′, 130°40′. 11th noon, 13°40′, 112° 0′. Midt., 14°45′, 110°20′. 12th noon, 16°35′, 109°10′. Midt., 18°25′, 108° 5′. 13th noon, 20°32′, 107°40′. Midt., 21°50′, 107°30′. 14th noon, 13½°, 107°.

On board the *Somali*, a British 4-master of above 3,000 tons, built of iron throughout, which had a high cross sea, slight rain, a NE gale on the 9th, it was noticed that the barometer was beginning to fall. At 4 a. the barometer was entered for the first time (!) 29.55. It blew a fierce NW gale. At 5 a. they hove her to. At 8 a. it blew NW 11 (29.03). The wind was quickly backing to S. At noon the lowest reading, 28.73, was taken. It blew S 12. At 8 p. they had 28.87 SSE 10. At 8 a. the lower topsail and reefed spanker were blown out of the ropes. At 10 a. the wind veering to S brought down the fore-top-mast at the cap, and at the same time the mainmast also carried away. At 11 a. the mizen-mast fell overboard. These masts were of steel ½ inch thick and carried no sail at the time. At 4 p. it began to moderate, but at noon on the 11th there was still a very high confused sea. There was only one yard left. The ship would not steer and from this time she drifted. On the 13th she was picked up by the S.S. *Carmarthenshire* and towed into Hongkong harbour.

On board the S.S. *Thisbe* the following observations were made:—

10th 4 p.	29.66	N	8	11th 2 a.	—	W/N	11
10th 8 p.	.63	NW	9	11th 4 a.	29.59	WSW	10
10th Midnight	.55	WNW	10	11th 8 a.	.75	S	8

There was a high confused sea and very heavy rain.

On board the S.S. *Benalder* they prepared for a typhoon early in the afternoon on the 11th. The sea was rising rapidly. At 5 p. they filled Nos. 3 and 4 water ballast tanks and battened down the hatches. The ship was laying over to starboard by pressure of wind and sea. At 8p (28.52 ENE 12) the spray was blinding. At 8.45 p. the lowest reading of the barometer, 27.76 (uncorrected), was taken. At 10 p. (E by N 12, 28.20) the weather fore-top-mast backstays carried away and the starboard topsail braces. They braced in the port braces to steady the yards. The typhoon was at its height at midnight, blowing beyond description, and the ship was drifting before it. At 2 a. on the 12th the rudder got adrift, and after great trouble was secured with two tackles and lashings, also hand gear shipped. At 4 a. the weather and sea moderated. At daylight they unbattened one of the hatches and found the manhole doors of Nos. 3 and 4 water ballast tanks washed off and broken, and much water in the hold, which had washed up all the ceiling, and the tanks were filled with broken dunnage and sediment. The pumps were then worked. At 9 a. the steam steering gear was connected again and the ship proceeded on her course.

From observations made within 300 miles of the centre on the 10th, 11th and 12th May it follows that the angle between the wind and the direction of the centre was 11 points in front of the centre, the same in the right-hand semicircle, 12 points behind the centre, and 14 points in the left-hand semicircle, say: 11 points in front and to the right and 13 points behind and to the left.

The wind forces were distributed as follows:—

Distance.	Direction from the centre.			
	NW	NE	SE	SW
50 miles,	10	—	11	10
150 „	8	7	8	—
250 „	6	6	6	4

To the N it was overcast within 300 and to the S much farther. It rained to the NW within 250 miles and in other directions within 200 miles. Lightning was noticed on board H.M.S. *Egeria* in the right-hand semicircle 250 miles from the centre, and also on board the S.S. *Nanshan* 400 miles SW of the centre. The barometer read 29.80 within 250 miles of the centre, and 29.70 within 150 miles. There was high sea within 400 miles, and high cross sea within 300 miles behind the centre, and within 150 miles in front of the centre. The lowest barometer reading on the S.S. *Benalder*, 27.76, is not altogether trustworthy. Between 8 p. and 8.45 p. on the 11th the gradient was one inch in 15 miles, which gradient was at times exceeded. The barometer used on board the S.S. *Thisbe* seems on the other hand to have been sluggish. On board the ship *Somali* the barometer was not regularly entered. Perhaps they did not look at it till the storm began, and that was the cause of the heavy damage suffered. A gradient of 0.20 inch in 15 miles corresponded to force 11. On the 13th the depression filled and on the 14th, having entered the mainland, it disappeared.

Typhoon II appeared to the SE of Luzon on the 13th. The barque *William Le Lacheur* at anchor in 14° 09′, 122° 10′ experienced a heavy typhoon on the 14th. The wind veered from N to SE. The typhoon crossed Luzon during the following days when it appears that the centre became large and confused as is usually the case when typhoons cross the islands. The co-ordinates of the centre were as follows:—

Date.	Lat.	Long.	Date.	Lat.	Long.	Date.	Lat.	Long.
May 13,	12°	126°½	16,	17°½	119°	19,	24°	126°½
14,	13 ¾	122	17,	19 ½	121 ½	21,	31	130 ½
15,	15 ¼	121	18,	20 ½	124 ½	21,	37	140 ½

The cause why it recurved so soon and passed out again into the Pacific must be sought in the strength of the SW monsoon. This happens mostly early in the year. Later in the year typhoons mostly move to the W or NW, and late in the year when the NE monsoon is strong they move SW in the China Sea, pressure rising quickly in their rear. As far as can be seen the central area of the depression remained large and ill defined between the 16th and the 18th. Light winds apparently prevailed over a large area while the strong winds were found at considerable distances. Probably

the intensity was increased in the Pacific as on passing near Naha about 9 p. on the 19th the barometer was read as low as 29.21. The following observations were made (at noon) at South Cape (Formosa):—

May 13th,...29.96 NE 4 b.; 14th,...29.89 NE 5 bm.; 15th,...29.80 NE 5 cm.; 16th,...29.74 ENE 3 cm.; 17th,...29.65 N 6 omr.; 18th,...29.65 var. 1 omd.; 19th,...29.70 WNW 6 c.

There was a low pressure NE of Luzon on the 23rd, which spread to the N between Formosa and Loochoo Islands on the 24th. On the 25th it was SW of Kiusiu and it then passed over Japan.

On the 28th there was a trough in about 18° latitude. It moved N and reached the S coast of China on 29th and the latitude of Foochow on the 30th.

JUNE.

A small depression (III) seemed to have been formed in the China Sea on the 22nd in a trough-like area of slightly low pressure which appears to have stretched NE ward from the Annam Coast on the 21st. The depression was probably central at noon on the 22nd in about 15°, 113° and it moved to the NW. On the 23rd it had reached the position 17°½, 109° and on the 24th, having crossed Hainan and passed to the E of Hoihow it had entered the China Coast and was situated in about 21°½, 111° moving N-ward.

These trough-like areas of low pressure which are frequently formed in the summer months apparently become closed on their eastern extremities by an increase of pressure spreading from the Pacific, and the SW monsoon spreading up on the E side of the China Sea. In the small depressions thus formed the isobars are scarcely closed on their western sides owing to the low pressure usually prevailing about the Gulf of Tongking in the summer months, and towards which they generally move; but in case of the above depression which recurved across Hainan isobars were thoroughly closed in this part of the disturbance as shown by the following observations made at Hoihow: 23rd 9 a. 29.78 ESE 2; 3 p. 29.70 E 3; 9 p. 29.72 E 2 increasing to heavy gusts during the night. At 7 a. wind shifted from N to NW. 24th 9 a. 29.58 SW 6; 3 p. 29.73 SSW 3.

JULY.

Typhoon IV made its appearance to the NE of Luzon on the 10th July. The position of the centre at noon each day was as follows:—

Date.	Lat.	Long.	Date.	Lat.	Long.
July 10,.....	21°	125°½	July 14,.....	33°½	122°½
11,.....	25	124½	15,.....	38	126
12, ...	28 15	123 15	16,.....	41?	140½?
13,.....	30 20	121 45			

The disturbance was first observed on board the ship *Josephus* which experienced fresh breezes backing from NNE to W with a cross sea on the morning of the 10th probably at a distance of about 150 miles from the centre. Moving towards NNW it passed between Naha (Loo Choo Islands) and Keelung (N Formosa) on the 11th. The observations, made at the stations, however, show that at distances of 150 to 200 miles from the centre moderate or light winds only prevailed at this time. On the 12th the bark *Commerzienrath Rodbertus* had a typhoon from N backing to SW, the centre passing a little E of the vessel shortly before noon. On the 13th the disturbance was beginning to recurve, moving with reduced speed, at the mouth of the Yangtze river. It passed between Ningpo and Steep Island during the morning and between Woosung and Shaweishan the same evening. The steamships *Fuping* and *Swatow* steering southwards in the Yellow Sea both passed at a distance of perhaps 50 miles to the W of the centre during the evening of the 14th and experienced E backing to NW winds, but the strong winds (force 10?) lasted an hour or two only. On the 15th the centre passed probably some 50 miles to the W of Chemulpo about 9 a and there are indications of its having crossed N Korea and thence moved E-ward in the Northern. Sea of Japan.

The following are a few observations made at Coast stations.

South Cape, ...July 10,...Noon,	29.73	NNE	4 c.
11,... „	.71	W	7 cm.
Keelung, ...July 11,...9 a.	29.74	NW	2 op.
...3 p.	.68	SW	3 o.
...9 p.	.68	SW	5 o.
Naha,.....July 10,...1.32 p.	29.88	S	1 o.
11,... „	.75	SSE	2 op.
12,... „	.83	S	1 o.
Ningpo, ...July 13,...3 a.	29.32	NNE	7 od.
...9 a.	.35	NW	3 or.
...3 p.	.48	WSW	4 or.
...9 p.			
Woosung, ...July 13,...3 a.	29.63	ENE	7 r.
...9 a.	.60	ENE	7 c.
...3 p.	.47	ESE	9 om.
...9 p.	.37	NE	4 omd.
14,...3 a.	.54	W	7 omd.

The following positions of the centre indicate the track of typhoon V :—

July 15,	.....Noon,	15°30′	127°00′	July 19,	...9 a.	22°30′	120°20′	July 20, ...Noon, 27°? 119½?
16,	..... „	16 45	124 00		...Noon,	23 45	120 45	21, ... „ 32 ? 119 ?
17,	..... „	18 00	120 45		...3 p.	25 00	120 45	
18,	..... „	20 15	119 15		...9 p.	26 20	120 10	

Observations on July 19th.

Date and Hour.	South Cape.	Takao.	Anping.	Fisher Island.	Ockseu.	Tamsui.	Middle Dog.	S.S. *Chi Yuen* at anchor in 26°58′ 120°15′
July 19, 3 a.,	29.40 SE 9 rqm.	.....	29.46 NE 4 or	29.49 NNE 5 cm.	29 49 NNE 5 cm.	.....	29.54 NNE 5 cm.	4a. 29.71 ENE 5 opq
6 a.,	.41 SSE 9 „	.....	.34 NE 6 „	.39 N 6 omp.	.50 N 4 „	.....	.56 ENE 5 „	8a. .71 NE 5 oq.
9 a.,	.56 SSW 8 rgm.	29.21 NE 9 or.	.27 NNE 8 „	.43 N 7 omp	.47 N 5 „	29.51 SE 8 cd.	.52 ENE 5 „	.....
Noon	63 WSW 6 „	.56 NW 8 „	.46 WNW 9 orq.	.43 W 7 om.	.45 N 4 „	.....	.46 NNE 5 „	noon .66 NE 6 odq.
3 p.,	.63 W 5 „	.63 WSW 8 „	.58 SW 6 „	.52 SSW 5 „	.49 NNW 2 „	.45 SSE 8 or	.45 NNE 5 „	4p. .65 ENE 6 „
6 p.,	.63 SSW 6 dmg.	.....	.....	.52 SSW 5 omp.	.52 SW 2 „	.....	.43 NNE 4 „	8p. .61 E 8 rq.
9 p.,	.67 SSW 7 „	.67 SW 9 „	.65 SW 4 orq.	.57 SSW 6 „	.54 W 1 cml.	.63 calm o.	.50 SW 4 „	.....
Midt.,	.70 SSW 7 pmg.	.....	.....	.51 SSW 6 ompl.	.53 WSW 1 cm.	.....	.52 SSE 4 om.	midt. .61 E/S 8 rq.

After passing to the S of the ship *Josephus* in the Pacific on the 15th the typhoon moved WNW, crossing N Luzon on the 17th. In the China Sea it began to recurve and moved towards S. Formosa. It passed W of S. Cape and E of Takow on the morning of the 19th. When the centre was quite close and to the S of the latter port the wind changed to SE for about an hour and then it became NE again. It was evidently a current of air belonging to a higher level that was brought down to the surface owing to the influence of the high mountains. Typhoons are broken up greatly while the centre is in Formosa. This typhoon was no exception. It moved rapidly N and began filling up. The outer isobars were elongated towards N and crowded together in rear. In consequence the wind at the lighthouses in the N part of the Channel blew in only fresh breezes, which is most unusual with a typhoon centre in Formosa. At Tamsui the wind-direction was SE while the centre was S, but that is not unusual at that station.—The following are some noon observations. Bolinao: 15th 29.81 NNW 2 c, 16th 29.73 NNW 3 or, 17th 29.62 W 4 oqd. S. Cape (Formosa): 15th 29.84 ENE 2 bv, 16th 29.79 NE 4 c, 17th 29.70 NE 6 gmp, 18th 29.61 ESE 7 gmr.—This remained as a shallow depression near Wenchow on the 20th inside the coast and then spread N-wards on the 21st.

Typhoon VI was announced on the 23rd July. There are no observations. It may have been only a trough in which a depression formed, but on the 27th there certainly was a typhoon in about 19°, 127° moving NW/W. There were N and NE breezes and falling barometer in S Formosa, where the sky was becoming overcast and hazy. The lowest barometer, 29.45, was registered at S Cape at 3 p. on the 29th with WNW 7 backing to SSW 6 at 6 p. with rain. The centre of the disturbance passed NW-ward to the E of Anping in the evening. The noon positions of the centre were: July 28th 20½°, 124°; 29th 22¼°, 121½°; 30th 25¾°, 120°; 31st 30½°? 119°? It was already filling while going up the Channel. At midnight on the 29th it blew NNE 8 at Turnabout and SW 4 at noon on the 30th. At the latter hour Middle Dog had only ENE 3, the centre lying between the two stations at that hour.

AUGUST.

Typhoon VII can be traced from the 8th to the E of N Luzon. The noon positions were as follows: 9th 20½°? 124½°? 10th 24°, 124° (midt. 27¼°, 123°½); 11th 30° 30′, 121° 45′; 12th 32°, 118½°. Its path was very like those of the two preceding ones and like them its intensity was not great. At stations near the Formosa Channel the wind passed from NE through variable to SW, the isobars apparently forming a *V*-shaped depression to the W, the axis lying towards WSW and moving with the typhoon. The S.S. *Lennox* at noon on the 10th in 28° 38′, 123° 59′ had 29.75 E 5-6 orq. and high sea, at 8 p. 29.57 N/E 5-6 o and E swell, midt. 29.61 NNW 5-6 odq. At 4 a. on the 11th 29.62 WSW 3 o and at noon in 26° 6′, 120° 36′ 29.67 SW 2 b. The S.S. *Fuping* at 8 a. in 30° 40′, 122° 24′ had a fierce ENE gale with torrents of rain and hard squalls. When it passed between Chinkiang and Wuhu on the 12th the winds were only moderate breezes.

Typhoon VIII appeared in about 19°-20°, 130° on the 13th August. There are indications of it in the meteorological registers kept in Luzon, Formosa and the Loochoos. On the 14th in about 23°, 129°; on the 15th it passed E of Naha about 8 a; at noon 27°, 129°; on the 16th at noon 29½°, 129½°; on the 17th 32¼°, 132¾°; on 18th 35¾°, 137°. It raged fiercely in Japan but filled up while passing to NE. How violent it was at sea we cannot say, because apparently no ships came near it.

After this there was no typhoon anywhere for 9 days with the exception of a very shallow depression to the S of Hongkong on the 19th in about 20° N. It seems to have spread W and reached Hainan on the 20th (wind force 3). On the 23rd to 26th a trough was lying from W to E in the China Sea between 17° N and 15° N, varying slightly in position. Typhoon IX formed on the 27th in this trough. The centre was on the 28th at noon in 15°, 113° and at midt. in 15°, 112½°. On the 29th at noon in 15½°, 112° and at midt. in 15½°, 111½°. On the 30th at noon in 16½°, 109½° and on the 31st in 18°, 106½°. The winds were comparatively light near the central area, but to the N strong breezes and moderate gales prevailed between the 29th and the 30th. The S.S. *Triumph* from Hongkong approaching N Hainan experienced NE/E 8-10 at midt. on the 29th with hard squalls veering to ESE 6-10 at 8 a. on the 30th, whereas the S.S. *Sishan* to the S of this vessel and nearer the centre had only strong NE veering breezes. After the typhoon had passed the trough remained in the same place in the China Sea, the centre of the typhoon apparently having passed along it, and the next typhoon seems to have originated in the same latitude out in the Pacific in the same trough lying between the areas with NE winds and SW winds.

SEPTEMBER.

Typhoon X seems to have originated on the 28th or the 29th August in about 18°, 128°. As usual it hardly moved in the beginning and appears to have been in 18°, 127° on the 31st. At noon on the 1st September it was in 22°, 124½°. The barometer at South Cape remained low when the typhoon had passed and was off N. Formosa, and the strongest wind W 9 blew about 8 a. on the 2nd. This is only what usually occurs when a typhoon is rather distant and to the E of Formosa moving NNW. It is explained by the sheltering effect of the high mountains (in places over 2 miles high) in Formosa. At noon on the 2nd the centre was in 26½°, 123°. Fresh gales blew at sea about 200 miles from the centre. It skirted the lighthouses at the mouth of the Yangtze on the early morning of the 3rd. The lowest barometer was read at N. Saddle at 3 a. on the 3rd 29.20 (with all corrections applied except for gravity) with N force 12. It then was recurving and moving with increasing speed, and at noon on the 3rd it was in 33½°, 125½°. The centre was encountered by the bark *Sin Colga*, which after a SE hurricane had the calm centre for 2½ hours, after which it blew NW and again force 12. The diameter must have been at least 50 miles. The sea was frightful and from all directions, but the sky did not clear. This typhoon crossed Korea without change of intensity, and was at noon on the 4th in 43°, 135° moving ENE. At 10 p. it reached northern Hokkaido. We cannot trace it in the Pacific.

Typhoon XI was formed on the 4th in a trough between NE and SW monsoon in about the same latitude as the previous typhoons. At noon on the 5th the centre may have been in 18°, 124°. It seems to have been small. At noon on the 6th it was in 19¼°, 120½°. The barometer had fallen from one to two tenths in S. Formosa and N. Luzon. It blew a moderate veering NE gale at S. Cape and there were strong SW winds, backing, in Luzon when the centre passed. On the 7th it was in 19° 45′, 117° 15′ and on the 8th 21°, 116°. At 3 a. on the 9th it entered the coast in 22° 50′, 115° 20′. The S.S. *Nanyang* in 22° 33′, 114° 26′ had NW 12 backing (lowest barometer 28.97) and the *Taksang* in 22° 57′, 115° 39′ SE 11 veering (lowest 28.82). At noon on the 9th it was in 24° 30′ 115° 30′ and at midt in 27°, 116½°. It filled up gradually. At noon on the 10th it was in 31°, 119°. At Wuhu there was NE 4 backing to SW 1 with wet weather and low barometer. At Kiukiang there was NE 8 at 9 p. on the 9th backing to NW 5 at noon on the 10th, and at the lighthouses outside the Yangtze SE 6. At Zi-Ka-Wei it blew SE, 67 kilometer per hour, between 1 p. and 2 p. The typhoon moving NNE entered the Yellow Sea but cannot be traced any further with any certainty.

Typhoon XII approached S. Cape rather suddenly from the SE in the early morning hours on the 11th :—

Date and Hour.	South Cape.	Takow.	Anping.	Fisher Island.	Chapel Island.	Lamocks.
Sept. 11th, 9 a.,...	29.23 N 8 gmrq.	29.42 NNE 5 og.	29.41 NE 2 org.	29.44 N 6 omg.	29.54 N 7 cq.	29.62 NNW 3 om.
Noon,.	28.78 ENE 9 „	.28	.31 N 1 or.	.30 NE 6 om.	.40 „ 8 cgq.	.52 NW 3 „
3 p.,...	.22 SSW 9 gmp.	28.87 NW 11 og.	28.92 NNE 9 org.	.11 NNE 8 gmq.	.26 „ 10 „	.44 NE 3 omd.
6 p.,...	29.38 „ 9 gmr.	29.17 SE 12	29.00 SSE 9 or.	28.92 „ 9 gmrq.	.13 „ 11 orq.	.37 NW 3 „
9 p.,...	.61 S 7 gmp.	.47 „ 11	.40 S 6 „	29.25 E 11 omrq.	.25 NNE 10 „	.36 W 6 omr.
Midt.,.	.73 SSE 5 „	.63 „ ...	.60 „ 6 „	.43 SSE 11 gmrq.	.21 NE 9 ,	.10 WSW 10 „
12th, 3 a.,...	.77 „ 4 omp.	.69 „ 6	.68 SE 5 „	.59 „ 10 omrq.	.34 S 8 „	.33 SW 8 omp.
6 a.,...	.80 „ 2 o.	.74 „	.77 „ 4 o.	.73 „ 7 gm.	.54 ESE 7 omd.	.52 SSW 6 „
9 a.,...	.85 SE 2 o.	.85 SSE 7 o.	.84 S 6 o.	.85 „ 6 cm.	.70 SSE 5 om.	.66 SSE 6 om.
Noon,.	.85 E 2 o.	... ...	... ...	.88 SE 5 om.	.77 SE 4 cm.	.73 „ 6 omp.

The positions of the centre were as follows: 11th 4 a. 20°, 123°, 11th noon 21° 15′ 121° 00′, 3 p. 22° 00′ 120° 45′, 6 p. 23° 00° 119° 30′, 9 p. 23° 20′ 118° 30′, midt 23° 30′ 117° 40′, 12th 3 a. 23° 50′

117° 15′, 6 a. 24° 15′ 116° 00′, 9 a. 24° 30′ 115° 15′, noon 24° 45′ 114° 45′. It ceased to blow after this. The observer at Anping reports: "numbers of tiles have been blown off the houses. Several native houses have been blown down, but no lives lost. The shipping fared well, as the water was low." During the passage across the Channel typhoon force was experienced at the northern entrance to the Channel. The American Mail S.S. *City of New York* ran across the path in front of the centre on the evening of the 11th and experienced a typhoon from N backing to SW. The centre passed within 10 miles of the vessel at 11 p. (28.44 WSW 12 and terrific sea).

Typhoon XIII seems to have originated near the place where the last typhoon originated but moved more N than it, which probably was due to the higher pressure area lying more to the E than before. At S Cape (Formosa): 17th noon 29.89 NE 4 c, 18th 29.80 NE 4 c, midt. 29.75 NNW 2 c, 19th noon 29.57 WSW 5 omg., midt. 29.68 W 5 o.m. At Anping 19th 1.30 p. 29.41 N 9 og, 9 p. 29.59 SW 3 o., 20th 3 a. 29.68 SW 8 or. The positions of the centre were: 19th noon 22° 45′, 121° 15′; 9 p. 24° 0′ 120° 20′; 20th noon 25° 45′, 119° 50′; 21st noon 28½°, 119°. The S.S. *Haitan* at anchor in 25° 57′, 119° 58′ had 29.60 NE/E 10-11 at 9 a. on the 20th with terrific squalls of wind and torrents of rain. At 9.20 a. there was a sudden cessation of wind which veered to E force about 3 which lasted till 1 p. and the breeze had veered to SE in the meantime, then a strong gale rose from WNW backing to SW. This is confirmed by the lighthouse-keepers, and shows that the calm central area must have been 30 miles in diameter. It was cloudy there and there was only light rain, but within a short distance of the centre there was no rain. The same evening the disturbance passed W of Wenchow with heavy squalls and rain. The disturbance was quickly filling and moving N.

Depression XIV formed on the 22nd in about 17°, 115°. It is curious that such small depressions were so scarce in 1893, which was also characterised by a tendency of typhoons to move N along the E coast of China. That was apparently caused by the anti-cyclone lying to the E of its average position. At noon on the 23rd the centre was in 18° 30′, 113° 15′. The S.S. *Hesperia* from Saigon to Hongkong kept its course till 4 p. when the barometer had fallen to 29.59 with NW 6. They then turned back and experienced NW 7 at 6 p. after which they proceeded on their course and had S 5 at 8 p. with rising barometer. The disturbance passed close to Hoihow at 7 a. on the 24th: 23rd 9 p: 29.79 NNE 3 orq, 24th 3.40 a: 29.54 NE orq., 7 a: 29.46 SW orq, 3 p: 29.65 SSW 4 od. At noon the centre was in 20° 45′, 109° 40′, moving towards Pakhoi, where the following observations were made: 9 a. 29.69 NE 4 or, 3 p. 29.52 N 6 or, 25th 9 a: 29.72 SW 3 c. At noon on the 25th the centre was perhaps in 24°, 107½°.

Typhoon XV was on the 24th September E of S Luzon. The positions of the centre at noon were as follows: 25th 15°, 127°; 26th 16½°, 123°; 27th 17° 30′, 119° 45′; 28th 19° 30′, 116° 0′; 29th 20° 10′, 109° 50′; 30th 20°? 105°?. The typhoon after entering the China Sea passed about 30 miles N of the bark *Martha Bockhahn* at 4 p. on the 27th (29.25). On that day the centre moved NW/W, but was deflected towards W moving with increasing speed (as usual) about noon on the 28th, owing to rapidly increasing pressure in N China and strong NE monsoon. Pressure fell quickly over Hongkong, where a strong NE to SE gale blew (lowest barometer 29.56 at 4 p. on the 28th). The centre passed a few miles S of the S.S. *Agamemnon* at 3 p on the 28th (29.05 ENE 12). From Hoihow exceptionally high tides are reported on the night of the 28th and on the morning of the 29th, being 3 feet above ordinary springs. 6 a: 29.04 NW 12 orq.

The centre passed a couple of miles S of that port about 9 a. on the 29th (29.00 E 6). The sun came out. 10 a.: 29.06 ESE 9, no rain. 11 a. 29.18 SE/E 12 orq, sea smoking. These observations were made on board the S.S. *Activ*. The S.S *Hanoi* in 20° 10′, 109° 40′ (approximate) had at 1 p. NNW 12, at 2 p. calm, and 3 p. SSW 7. The radius of the centre cannot be ascertained from the observations that were made but it must have been extremely small. The centre went S of Haiphong: 29th 1.30 p. 29.66 NW 4 o, 30th 7 a. 29.66 ENE 5 o, 1.30 p. 29.73 SSE 3 o. It appears to have filled up after crossing Hainan for the centre must have passed rather near to Haiphong.

OCTOBER.

Typhoon XVI was already on the 29th September E of Bolinao in the Pacific. On the 30th at noon the centre was in 17° 15′, 122° 30′, and on the 1st October in 18° 0′, 119° 0′. The bark *Orient* in about 18° 44′, 118° 04′ had at 4 a. 29.39 N 12, 8 a. 29.33 N 12, noon 29.23 N 12, 4 p. 29.09 E 12, 8 p. 29.09 ESE 12, midt. 29.23 SSE 12. The bark *Martha Bockhahn* in about 17° 44′, 118° 48′ had at 4 a. 28.85 N 12, 8 a. 28.76 NNW 10, noon 28.67 W 9, 4 p. 28.70 W-SSW 10, 8 p. 29.08 SSW 12. After leaving Luzon there was a great increase of speed as it then felt the push of the strong E wind coming through the Balingtang Channel. The following observations show that the central area with light winds was unusally large—probably of a diameter of nearly 100 miles—and winds

of typhoon force were found 150 miles from the centre. The bark *Fannie Skolfield* had light winds and calms between 5.30 a. and 11.30 a. on the 2nd, hove to in about 21° 0′, 115° 45′. The previous night she had experienced NNE 10-11. At noon on the 2nd she had S 9 and at 6 p. S 11. The S.S. *Mathilde* hove to in the dangerous semi-circle in 21° 18′, 113° 37′ had at 8 a. 29.18 N 9 orq., noon NE 12, then gradually decreasing with falling barometer and veering gale till 4 p: 28.73 E 6, when the sky gradually cleared with some blue sky overhead. The sea went down with the wind as usual when the central calm area is large. There were many birds on deck. Then the wind veered to SSE (5 p. force 6) and the barometer rose. At 9 p. the wind increased (29.03 S 8) and at midnight she had 29.22 S 12. The wind was worst in front of the centre, the squalls being of shorter duration in rear but the sea was worst behind the centre. The S.S. *Mongkut* in 20° 01′, 112° 55′ had at 4 a. 29.21 N/W 12, 8 a. 29.10 N/W 10 and tremendous cross sea, noon 29.05 N 5, 4 p. 29.00 W 2. At 3.30 p. the sky cleared and the sea went down. At 6 p. 28.99 S 4. At 8 p. S/E 8 increasing fast and sea rising. At 10 p. 29.01 S/E 12. Midt. 29.19 S/W 10. At noon on the 2nd the centre was in 20° 40′, 114° 00′. The S.S. *Activ*, at anchor in Namo harbour (21° 35′, 112° 34′) had a typhoon from NE at noon veering to ENE at 7 p., when the barometer was at its lowest 28.98. At midt. 29.18 E 12. The barometer rose slowly next morning with veering wind (ESE 11 to S/W 7). At Hoihow at 5 p. on the 2nd 29.36 NW 10, midt. 29.35 W 11, on the 3rd at 4 a. 29.32 W 12, 7 a. 29.40 W 10, 10 a. 29.49 W 10, 5.30 p. 29.50 SW 8, 4th noon 29.78 W 3. At Pakhoi at 9 p. on the 2nd 29.51 N 4, 3rd 9 a. 29.47 NNW 6, 3 p. 29.42 NNW 6, 4th 9 a. 29.67 N 5, 3 p. 29 67 N 4. At noon on the 3rd the centre was in 22°, 109°. On approaching the coast between Hongkong and Hoihow the speed diminished and the course became more N, but the typhoon was unable to recurve and it seems to have been slowly filling up on the 3rd and 4th between Canton and Pakhoi, pressure on the latter date rapidly increasing over N China.

Typhoon XVII was first experienced in the Pacific by the bark *Velocity* while on a voyage from Honolulu to Hongkong. The centre which on the 1st may have been in about 15°, 140° approached the vessel from SE on the 2nd. Already on the 29th this typhoon seems to have passed S of the Mariana Islands moving NW. We thus see that there were 3 typhoons in the trough-like area between the NE and SW monsoons on the 29th and 30th,—one S of the Marianas, one entering N Luzon, and one in the Gulf of Tongking. They all followed very nearly the same path in the China Sea, determined by the shape of the area of high pressure to the N of the paths. The following midt. observations were made on the *Velocity*: 2nd N 10, 3rd SW 9–10 orq. The positions of the centre at noon were as follows: 1st: 15°, 140°, 2nd: 18°, 137°, 3rd: 21° 134°, 4th: 22°, 129½°, 5th: 22°, 126°, 6th: 21° 45′, 122° 15′, 7th: 20° 45′, 118° 30′, 8th: 20° 45′, 113° 15′, 9th: 22°, 110½°. At Naha they had NE 3 and lowest barometer on the 4th. The bark *Basuto* on the 6th in 21° 50′, 120° 55′ hove to on the port tack had 28.30 (lowest uncorrected) E 12, she was lying with the main hatch under water and they had to cut away the fore-top-mast to save her. The bark *Martha Bockhahn*, which successively experienced all the three typhoons, was in 21° 41′, 120° 42′. At 3 p. they had NNW 12, at 8 p. WNW 12 (lowest barometer 27.93, uncorrected) 8.30 p. S 11. The vessel was on her beam ends with the rail 4 feet under water and they had to cut away the foremast to save the ship. On the 7th they had the wind gradually backing to SE and E blowing a strong gale. The disturbance moved westward across the China Sea between the 7th and 8th and was encountered on the latter date by the S.S. *Glenartney* in 20° 30′, 113° 40′. They made the following observations 2 a. 29.52 NW 10 orq., 8 a. 29.18 NW/W 11, 8.30 a. 29.10 WNW 12, 10 a. 29.15 WSW 11, 10.30 a. 29.15 SSW 11, 4 p. 29.50 S 7. Near the centre the sea was terrible—a confused heap of pyramids completely overwhelming the ship—and the rain and spray so thick that for minutes at a time it was not possible to see the foremast from the bridge, the after part of the ship being lost to view altogether. Two bags of oil had a good effect in stopping the crests from crashing on board with such force. On obtaining observations of stars at midnight the same evening the vessel was found to be 40 miles to the WSW of the D.R. position. The S.S. *Triumph* at anchor in Namo harbour (21° 35′, 112° 34′) reports: 8 a. 29.57 N 9 orq., 2 p. 29.47 NE/E 11 orq., 4 p. 29.46 E 12 orq., 8 p. 29.66 ESE 8 orq., midt. 29.77 SE 4 q. The S.S. *Haiphong* at the same anchorage reports: 10 p. 29.53 N 7, 4 p. 29.45 E 8 orq., 8 p. 29.68 SE 10 orq., midt. 29.76 SSE 10 orq., 9th 4 a. 29.77 S-SW 9 q. The observations have been reduced but agree only partly. From Hoihow we have: 8th noon 29.77 NW 4 o., 3 p. 29.69 NW 4 od., 9 p. 29.74 NW 6 od., 9th 3 a. 29.91 S 3 od., noon 29.88 W 3 o., and from Pakhoi: 8th 9 a. 29.84 N 4 c., 3 p. 29.70 N 4 c., 9th 9 a. 29.73 NW 5 od., 3 p. 29.75 NW 2 o., 10th 9 a. 29.89 N 1 od.

Typhoon XVIII appears to have been in about 19°, 130° on the 11th. Pressure fell slightly in S Formosa and in Luzon. At noon on the 12th the centre was in 22½°, 128½°, on the 13th in 26½°, 129°, on the 14th in 32° 15′, 132° 0′, and on the 15th in 33°, 134°. At Naha the barometer fell to 29.07 on the 13th between 6 a. and 10 a. The wind was NE backing to NNW. Greatest force was 10 at 2 p. The depression filled up quickly on entering Japan, but it blew hard on the morning of the 14th. On the 16th the depression was lying off the Kii Channel and next day it became an irregular slight depression spreading N into the Sea of Japan.

NOVEMBER.

Typhoon XIX originated as a slight depression in connection with a trough in 10° to 12° latitude. On the 11th moderate winds apparently circulated round 11°, 123°, where the barometer was rather low. On the 12th the lowest appears to have been in about 12°, 120° and on the 13th in about 12°, 117°. There was strong monsoon (NE 8) in the China Sea. On the 14th the lowest was in about 9°, 111½°. The S.S. *Japan* bound NNE had rising barometer during the evening and continuous NE 9 orq. The S.S. *Rosetta* at 4 a. on the 15th in 7° 30′, 108° 50′ had 29.44 WNW 8 orq. They were bound from Singapore to Hongkong but at 3.30 a. they turned and ran full speed to SW to avoid crossing the path of the typhoon. At 5 a. they had 29.71 NW 9 oq. Rain had ceased at 4 a. At 5.30 a. course to N 26° E was resumed dead slow. The wind was decreasing in force and veering to NNE, and at 8 a. to ENE 7 (29.74). At noon on the 15th the centre must have been in about 7½°, 109° but this position is somewhat uncertain owing presumably to strong currents. It is, however, quite certain that the centre was moving SW between the 13th and the 16th. At noon on the 16th the centre appears to have been in a higher latitude, say 8°, 108°. It cannot be traced any further. At 4 p. the S.S. *Bayern* in 7° 28°, 108° 14′ had 29.78 SSW 4 or and at midt. in 6° 3′, 107° 3′ : 29.88 W 3 or. After the passage of the typhoon the trough appears to have remained in the same latitude.

Typhoon XX, like the previous one, originated in a low latitude as the NE monsoon had then spread farther S. The latitude of the belt in the China Sea between the NE and SW monsoon was about 15° in the beginning of October, and about 10° in the middle of November. The schooner *Dona Bartola*, in about 7°, 136½°, had fine weather on the 18th, but at 8 p. there was a bank of clouds all round the horizon with falling barometer, and rain fell during the night. On the morning of the 19th there was NE wind veering to S. The after rail with the mainsheet was carried away and the main-boom broke. At 9 a. 29.69 SW 9. At noon it cleared up and the voyage was continued under jury rig. At noon on the 19th the typhoon may have been in about 9°, 136° and on the 20th in 10°, 131°. On the 21st it was in 12½°, 125°. It was still very small, as nearly all the typhoons during the NE monsoon, and the winds over the Philippines were light. On the 22nd it was in 12½°, 121½°, on the 23rd in 13°, 118½°, and on the 25th perhaps in 12°, 116½°. It was then lost in the NE monsoon. The ship *Bangalore* at noon on the 22nd in 12°, 119° had N/W 6 orq backing to NW and increasing (10 p. W 8). At midt. the wind was still backing in heavy squalls from W to S and SE. They furled the upper topsail. On the morning of the 23rd they furled the courses and lower topsails. There was SE 12, violent squalls, high cross sea and rain. The ship was hove to under bare poles and 25 gallons of oil were used. At noon in about 14° (?), 118° (?) with 29.70 (?) E 12 orq. they set the mizen staysail, but it blew away. They had four oil bags floating to windward to prevent the sea from breaking too furiously on board, and found this a great advantage. The storm-spanker was tried but had to be taken in again. The log book states that the greatest force of wind N 12 occurred at 8 p., at 10 p. again E 12, from midt. to 2 a. (on the 24th) it again veered to N. At 10 a. on the 24th the air was calm but the heat was excessive and numerous butterflies and landbirds alighted on board. Evidently the ship was carried by the E hurricane right round in front of the centre and towards the centre and went into the central calm about 10 a., but under these circumstances nothing can be known concerning the whereabouts of the ship. At 11 a. they had again NE 12 and wore the ship to W. There was now no rain but densely overcast. At noon in 13° 40′ (?), 119° 0′ (?) (estimated) they registered 29.65 (?) NE 12. It decreased and veered to ENE (at midt. force 8). At 6 a. on the 25th they set all sail possible, and at noon in 14° 17′, 118° 31′ they had E 3 o, but the position of the ship in the meantime is not known within 100 miles.

MAY, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 8th.						
Sin Kolga, bk.,	32° 40′	125° 18′	...	SSE	1	...
Esang, str.,	31 15	122 56	29.83	S	4	fg.
Omega, bk.,	20 25	138 8	.85	WNW	2	k.
Glenorchy, str.,	18 36	111 47	.92	NE	2	k.
Japan, bk.,	18 25	151 42	30.00	ESE	5	...
Habitant, sh.,	17 49	114 37	29.92	ENE	4	k.
Spinaway, bqt.,	15 30	114 37	...	NNE	5	k.
H.M.S. Egeria,	15 30	114 30	.91	...	0	c.
Wingsang, str.,	15 18	113 13	.91	SW	1	c.
Somali, sh.,	12 33	117 0	...	NW	6	oq.
Ancaios, sh.,	10 10	122 33	...	S	5	q.
Taksang, str.,	8 35	105 45	...	ENE	4	o.
Loosok, str.,	8 31	105 32	.90	var.	1	k.
Thisbe, str.,	6 47	107 42	.93	W	2	...
Iceberg, str.,	6 42	105 17	...	SW	1	...
Golden Fleece, sch.,	6 32	132 51	...	NNW	4	q.
Emilie, bk.,	1 52	105 44	...	NE	2	...
May 9th.						
Sin Kolga, bk.,	32 ...	127 58	...	W	7	...
Glenorchy, str.,	21 38	113 49	29.92	N	5	p.
Taichiow, str.,	20 55	114 53	.91	...	0	cm.
Omega, bk.,	19 46	136 52	.92	NE	2	k.
Japan, bk.,	19 0	149 8	30.00	ESE	6	...
Habitant, sh.,	18 49	114 50	29.92	NNE	4	k.
Spinaway, bqt.,	16 16	114 23	...	NE	6	cq.
Don Juan, str.,	16 11	118 51	.89	NW	2	...
H.M.S. Egeria,	15 50	114 30	.87	NNE	4	c.
Somali, sh.,	12 24	116 24	...	NE	8	orq.
Ancaios, sh.,	11 44	121 6	...	S	4	c.
Wingsang, str.,	11 30	110 46	.83	WSW	3	c.
Loosok, str.,	11 1	108 36	.84	E	2	k.
Taksang, str.,	10 50	108 28	...	NE	4	oq.
Thisbe, str.,	10 19	109 43	.89	W	2	...
Argus, str.,	10 18	102 25	83	WSW	2	k.
Golden Fleece, sch.,	6 59	132 32	...	WNW	3	...
Iceberg, str.,	6 16	105 32	...	W	2	...
Emilie, bk.,	1 8	105 35	...	var.	...	...
May 10th.						
Nürnberg, str.,	22 16	114 32	29.99	E	3	b.
Activ, str.,	21 27	113 7	.99	NE	4	c.
Cape Colonna, str.,	20 28	108 19	...	NE	2	o.
Doris, str.,	19 35	116 23	...	ENE	6	...
Omega, bk.,	19 30	135 17	.91	NE	2	k.
Japan, bk.,	19 27	146 31	...	SE	5	...
Habitant, sh.,	19 14	115 14	.92	ENE	8	...
Don Juan, str.,	19 9	116 41	.92	NE	3	or.
Benalder, str.,	19 0	112 10	...	NE	5	or.
Taichiow, str.,	18 5	111 53	.88	NNE	3	orq.
Spinaway, bqt.,	16 59	114 24	.88	ESE	5	omq.
Cosmopolit, str.,	16 8	108 20	.89	NW	7	o.
H.M.S. Egeria,	15 53	114 28	.83	NE	6	cq.
Taksang, str.,	14 21	110 9	.85	NE	4	q.
Loosok, str.,	14 21	110 15	.80	NNW	6	op.
Thisbe, str.,	13 35	111 55	.78	NW	8	or.
Ancaios, sh.,	12 42	120 6	...	SSE	4	k.
Somali, sh.,	12 34	115 10	28.73	S	12	...
Nanshan, str.,	10 38	102 21	29.81	W	3	o.
Wingsang, str.,	7 44	108 22	.79	SW	4	c.
Argus, str.,	7 5	105 36	...	SW	2	k.
Golden Fleece, sch.,	7 1	132 22	...	WNW	4	q.
Cheang Hock Kian, str.,	6 12	107 25	...	var.	2	...
Iceberg, sh.,	5 59	105 56	...	SW	2	...
Emilie, bk.,	1 56	105 27	.84	SW	2	...
May 11th.						
Nürnberg, str.,	24 1	118 20	30.01	NNE	5	c.
Athole, str.,	20 30?	113 0?	...	E	8	og.
Cape Colonna, str.,	20 10	110 16	...	E	6	c.
Habitant, sh.,	19 43	114 14	29.90	ENE	8	...
Omega, bk.,	19 29	132 21	.92	NNE	6	c.
Japan, bk.,	19 21	142 50	...	SE	4	...
Spinaway, bqt.,	18 38	114 54	.90	ESE	4	...
Taksang, str.,	17 51	111 12	...	E	1	k.
Doris, str.,	16 50	118 31	...	E	5	...
Benalder, str.,	16 0	110 10	...	NE	6	orq.
H.M.S. Egeria,	15 53	114 28	29.81	SSE	6	opq.
Yiksang, str.,	14 44	120 2	...	W	2	...
Taichiow, str.,	13 45	109 25	.59	NW	7	...
Somali, sh.,	13 40	115 36	...	SSE	7	...
May 11th.						
Ancaios, sh.,	13° 10′	119° 11′	...	ESE	2	k.
Thisbe, str.,	11 50	113 37	29.77	SSE	8	...
Argus, str.,	10 8	120 2	...	W	2	...
Cheang Hock Kian, str.,	9 22	109 40	...	W	...	m.
Nanshan, str.,	8 34	105 24	.70	SSW	2	c.
Ulysses, str.,	8 0	108 49	.80	var.	2	orq.
Wingsang, str.,	4 0	106 11	.73	SSW	4	c.
Japan, bk.,	2 30	105 5	.84	WSW	4	...
May 12th.						
Chi Yuen, str.,	31 30	121 50	30.06	SE	4	c.
Nürnberg, str.,	26 22	122 7	29.99	SE	3	c.
Spinaway, bqt.,	21 27	114 28	.95	NE	...	k.
Habitant, sh.,	21 21	113 56	.90	E N	6	c.
Taksang, str.,	21 21	113 33	.88	...	0	k.
Cape Colonna, str.,	20 34	111 40	...	NE	7	...
Loosok, str.,	19 50	112 23	.87	E	6	c.
Japan, bk.,	19 34	140 13	...	E S	4	...
Memnon, str.,	19 32	114 59	.81	ENE	5	...
Omega, bk.,	19 16	127 37	.90	NE	5	p.
Athole, str.,	17 58	110 56	...	SE	7	orq.
Yiksang, str.,	17 36	118 5	...	var.	2	...
Cosmopolit, str.,	16 9	108 11	...	S	2	...
H.M.S. Egeria,	15 53	114 28	.86	S	2	c.
Benalder, str.,	15 46	109 30	...	S	...	...
Thisbe, str.,	15 1	114 43	.87	SE	4	k.
Somali, sh.,	13 40	113 56	...	SE	4	k.
Ancaios, sh.,	13 34	118 45	...	S	1	...
Doris, str.,	13 25	120 15	...	...	..	k.
Argus, str.,	13 13	111 13	.72	SW	6	...
Cheang Hock Kian, str.,	12 49	113 35	...	SSW	...	crq.
Bua Pan, bk.,	12 12	100 27	.78	N	2	...
Ulysses, str.,	11 26	111 1	.82	S	4	...
Nanshan, str.,	10 47	108 30	.77	var.	4	c.
Phra Chula Chom Klao, str.,	10 37	102 12	.80	SW	2	or.
Taichiow, str.,	10 34	108 25	.79	var.	2	cmp.
Golden Fleece, sch.,	8 10	132 17	...	SSW	5	q.
Glamorganshire, str.,	7 50	108 1	.80	var.	2	p.
Principality, sh.,	6 24	107 8	.80	SSW	2	p.
Japan, bk.,	3 35	105 17	.80	S	2	...
May 13th.						
Nürnberg, str.,	28 29	126 40	30.04	ESE	3	c.
Chi Yuen, str.,	28 6	121 32	.07	SE	2	o.
Teheran, str.,	22 22	115 1	29.97	NE	4	...
Cape Colonna, str.,	21 32	112 55	...	ENE	5	...
Yiksang, str.,	20 31	115 54	...	NE	4	k.
Activ, str.,	20 6	110 0	.80	SSE	4	o.
Omega, bk.,	19 50	123 37	.91	N	5	k.
Japan, bk.,	19 41	137 50	...	SE	4	o.
Thisbe, str.,	18 49	114 46	.91	NE	4	...
Cheang Hock Kian, str.,	16 10	113 16	...	ESE	...	k.
Sungkiang, str.,	15 59	118 56	.84	NW	4	k.
Athole, str.,	15 53	110 30	...	S	5	o.
Memnon, str.	15 38	116 16	.88	NE	2	...
H.M.S. Egeria,	15 35	114 27	.89	NE	1	c.
Argus, str.,	15 29	113 17	...	S	6	k.
Ulysses, str.,	15 14	112 56	.90	SE	2	c.
Somali, sh.,	14 15	113 47	...	NE	2	...
Nanshan, str.,	14 7	110 20	.80	SE	2	k.
Ancaios, sh.,	13 18	117 45	...	NNW	4	c.
Benalder, str.,	12 36	110 0	...	SE	4	k.
Deuteros, str.,	12 4	109 24	.83	SW	3	k.
Glamorganshire, str.,	11 16	109 44	.80	var.	4	...
Bua Pan, bk.,	10 55	101 16	.79	SW S	2	b.
Doris, str.,	10 18	121 56	...	WNW	...	...
Golden Fleece, sch.,	9 0	131 42	...	E	4	q.
Phra Chula Chom Klao, str.,	8 30	105 25	.86	SW	4	o.
Java, str.,	8 3	108 35	.87	SSW	3	or.
Principality, sh.,	7 15	107 28	.85	SSW	2	op.
Taichiow, str.,	7 1	107 5	.86	SSW	3	c.
Japan, bk.,	4 34	105 57	.88	S	4	...
May 14th.						
Nürnberg, str.,	31 19	131 27	30.16	SE	2	c.
Teheran, str.,	23 53	118 21	29.92	NE	3	k.
Torridon, str.,	22 25	114 55	.78	ENE	5	...
Omega, bk.,	20 26	119 23	.86	NNE	6	k.
Cheang Hock Kian, str.,	20 8	113 34	...	E	...	k.
Argus, str.,	19 41	114 2	...	ENE	4	k.
Japan, bk.,	19 38	135 48	...	ESE	4	...

MAY, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
May 14th.						
Ulysses, str.,	19° 12′	113° 38′	29.90	ENE	5	k.
Sungkiang, str.,	19 5	116 43	.84	N/E	4	p.
Nanshan, str.,	17 56	111 41	.81	E	4	k.
Deuteros, str.,	15 14	110 25	.81	E	3	k.
Somali, sh.,	15 13	113 22	...	NE	5	...
Glamorganshire, str.,	15 10	110 11	.80	SW	2	k.
Zafiro, str.,	14 28	120 31	.64	NW	5	o.
Ancaios, sh.,	13 41	117 6	...	NW	5	c.
Athole, str.,	13 19	109 45	...	SSW	2	o.
Benlarig, str.,	12 11	109 33	.81	W	3	...
Java, str.,	11 35	110 44	.88	SW	3	k.
Memnon, str.,	11 35	117 32	.78	NW	4	k.
Phra Chula Chom Klao, str.,	10 56	108 44	.86	var.	2	p.
Golden Fleece, sch.,	10 4	130 53	...	E	2	...
Doris, str.,	9 45	123 48	...	S	...	...
Principality, sh.,	8 39	108 34	.85	SSW	4	p.
Emilie, bk.,	5 13	106 14	.87	SW	2	...
Sepia, bk.,	5 2	106 45	.85	SW	3	cq.
May 15th.						
Nürnberg, str.,	33 50	136 55	30.04	SSW	1	c.
Teheran, str.,	25 52	121 27	29.83	E	4	k.
H.M.S. Leander,	25 9	121 45	.78	SE	2	c.
Torridon, str.,	23 51	118 3	.82	ENE	4	k.
Esmeralda, str.,	23 25	117 33?	.81	NE/E	4	b.
Chi Yuen, str.,	22 49	116 6?	.88	E	2	k.
Omega, bk.,	22 12	116 14	.83	ENE	3	k.
Activ, str.,	21 28	109 6	.83	ESE	3	or.
Nanshan, str.,	21 2	113 33	.81	NE	4	k.
Japan, bk.,	19 36	133 38	...	ESE	2	...
Glamorganshire, str.,	18 53	111 40	.80	NE	4	o.
Deuteros, str.,	18 33	111 18	.81	E	3	k.
Zafiro, str.,	17 43	118 0	.60	NE	5	b.
Somali, sh.,	17 42	113 46	...	NE	5	...
Benlarig, str.,	15 43	110 4	.78	ENE	4	...
Java, str.,	15 16	112 51	.79	N/E	3	k.
Phra Chula Chom Klao, str.,	14 26	110 8	.81	...	0	...
Ancaios, sh.,	13 58	117 16	...	W/N	6	q.
Athole, str.,	11 1	108 45	...	SW	5	b.
Golden Fleece, sch.,	10 56	130 53	...	SSE	2	...
Principality, sh.,	10 34	109 55	...	SW	4	m.
Memnon, str.,	8 12	116 48	.80	SW	4	...
Sepia, bk.,	6 19	106 44	.85	W	4	orq.
Emilie, bk.,	6 14	106 46	.86	SW	3	orq.
May 16th.						
Teheran, str.,	27 35	125 39	29.84	NNE	3	od.
Torridon, str.,	25 45	121 10	.80	NE	6	om.
H.M.S. Leander,	25 11	121 25	...	N	2	cq.
Don Juan, str.,	23 10	117 0	.80	ENE	2	...
Chi Yuen, str.,	22 18	114 ...	.81	WNW	1	k.
Glamorganshire, str.,	21 59	113 57	.75	var.	2	k.
Activ, str.,	21 28	109 6	.84	ENE	3	o.
Zafiro, str.,	21 23	114 50	.74	NNE	4	k.
Deuteros, str.,	21 19	113 1	.77	NE	3	k.
Somali, sh.,	19 44	114 12	...	NNE	4	...
Japan, bk.,	19 42	132 20	...	var.	1	...
Java, str.,	19 16	113 33	.76	NE/E	4	...
Benlarig, str.,	18 48	111 48	.75	ENE	4	o.
Phra Chula Chom Klao, str.,	18 9	111 20	.79	NE	3	p.
Principality, sh.,	12 14	112 12	...	NW	2	...
Golden Fleece, sch.,	11 37	131 2	...	SSE	1	k.
Sepia, bk.,	7 30	107 30	.85	SW	2	cp.
Emilie, bk.,	7 11	107 27	.85	S	2	orq.
May 17th.						
Esang, str.,	31 36	118 48?	29.88	S	1	k.
Teheran, str.,	29 16	129 40	.86	var.	2	om.
Torridon, str.,	26 52	123 25	.79	NE	6	or.
Esmeralda, str.,	21 29	118 45	.70	N	6	c.
Phra Chula Chom Klao, str.,	21 24	113 52	.81	var.	1	...
Activ, str.,	20 10	109 54	.83	var.	1	k.
Japan, bk.,	19 37	131 20	...	var.	1	...
Ancaios, sh.,	15 19	117 42	...	WNW	5	oq.
Principality, sh.,	12 49	112 39	...	var.	2	...
Golden Fleece, sch.,	11 50	130 12	...	...	0	...
Phra Nang, str.,	10 31	102 17	.86	SW	3	o.
Bua Pan, bk.,	8 59	107 50	.81	SW	2	k.
Sepia, bk.,	8 20	108 38	.85	SW	3	c.
Emilie, bk.,	7 57	108 3	.82	SSW	2	o.
Hupeh, str.,	5 41	109 19	.88	NNW	2	...
May 18th.						
Esang, str.,	31° 22′	118° 22′	29.88	E	2	k.
Teheran, str.,	31 16	132 45	.90	NE	4	orq.
Torridon, str.,	28 55	126 42	.82	NE	4	...
Don Juan, str.,	21 34	118 41	.80	N	6	or.
Japan, bk.,	19 47	129 44	...	S	gale	orq.
Esmeralda, str.,	17 23	119 29	.83	WNW	4	c.
Principality, sh.,	13 13	112 51	.80	S	2	...
Bua Pan, bk.,	10 3	109 24	.85	SW/W	2	...
Sepia, bk.,	9 38	109 40	.91	WSW	4	q.
Emilie, bk.,	9 6	109 15	.88	SW	2	o.
Hupeh, str.,	8 38	110 0	.91	W	4	k.
Phra Nang, str.,	8 29	105 25	.91	SW	2	b.
May 19th.						
Teheran, str.,	34 3	134 56	30.01	var.	2	...
Torridon, str.,	30 36	129 35	29.84	SE	7	...
Glenorchy, str.,	23 9	117 25	.83	E	4	...
Activ, str.,	21 36	112 58	.79	WSW	2	k.
Japan, bk.,	20 34	127 26	...	WSW	strong	oq.
Don Juan, str.,	17 43	119 19	.81	...	0	...
Ancaios, sh.,	14 47	117 20	...	SW	2	k.
Esmeralda, str.,	14 35	120 57	.78	...	...	...
Golden Fleece, sch.,	13 12	130 20	...	NW/W	...	...
Bua Pan, bk.,	11 59	109 52	.83	W	2	k.
Hupeh, str.,	11 23	111 25	.87	WSW	4	k.
Emilie, bk.,	11 7	109 59	.80	W	3	...
Sepia, bk.,	11 2	110 35	.85	SSW	2	c.
Phra Nang, str.,	10 40	108 30	.87	NW	3	b.
May 20th.						
Victoria, str.,	48 43	175 7	30.21	NW	3	b.
Teheran, str.,	34 40	135 11	29.91	NE	4	or.
Nürnberg, str.,	33 44	135 13	.83	ENE	3	od.
Kingsland, str.,	32 45	128 10	.66	E	6	orq.
Esang, str.,	32 12	119 30	.71	S	1	k.
H.M.S. Impérieuse,	31 7	131 14	...	E	8	crq.
Torridon, str.,	31 3	131 10	.30	E	10	...
Glenorchy, str.,	25 34	120 33	.79	NW	2	o.
Japan, bk.,	20 15	127 32	...	WSW	2	...
Principality, sh.,	16 33	113 26	.75	W	2	b.
Ancaios, sh.,	15 30	116 22	...	S	2	kq.
Don Juan, str.,	14 25	120 34	.80	var.	...	...
Hupeh, str.,	14 16	112 52	.79	W	4	k.
Phra Nang, str.,	14 13	109 21	.75	var.	2	b.
Golden Fleece, sch.,	14 5	130 30	...	N	5	o.
Bua Pan, bk.,	13 48	110 10	.81	WSW	4	k.
Sepia, bk.,	12 29	111 24	.85	W	3	k.
Emilie, bk.,	11 51	110 0	.83	WSW	2	k.
Doris, str.,	9 26?	123 23?	...	SSW	2	...
May 21st.						
Victoria, str.,	46 44	167 37	29.19	SE	7	ph.
Teheran, str.,	34 40	135 11	.81	WNW	1	og.
Torridon, str.,	32 35	133 41	.88	NNW	4	...
Esang, str.,	31 15	121 43	.78	SSE	4	o.
Kingsland, str.,	30 28	125 15	...	S	4	m.
Glenorchy, str.,	27 32	124 3	.91	NE	2	k.
Chi Yuen, str.,	23 14	116 48	.82	NE	3	op.
Activ, str.,	21 27	113 5	.76	E	3	orq.
Japan, bk.,	20 23	126 30	...	ENE	2	b.
Principality, sh.,	17 47	113 31	.77	SSW	4	b.
Phra Nang, str.,	17 38	108 15	.74	var.	2	b.
Hupeh, str.,	17 24	113 36	.82	SSW	2	k.
Bua Pan, bk.,	15 8	110 28	.78	S	2	k.
Golden Fleece, sch.,	14 40	129 10	...	var.	8	q.
Sepia, bk.,	13 22	111 50	.85	SSW	3	k.
Emilie, bk.,	13 4	110 11	.80	W	2	k.
Doris, str.,	11 25	121 30	...	...	0	k.
May 22nd.						
Teheran, str.,	34 40	135 11	29.95	SE	1	k.
Nürnberg, str.,	34 26	134 25	30.04	NW	1	og.
Tellus, str.,	32 30	119 35	...	W	3	b.
Esang, str.,	30 17	122 36	29.83	S/E	2	f.
Glenorchy, str.,	29 39	127 44	30.01	E	2	k.
Kingsland, str.,	28 13	122 53	29.99	SE	2	m.
Chi Yuen, str.,	25 26	119 59	.91	NE	3	o.
Activ, str.,	20 4	110 20	.73	W	5	oq.
Japan, bk.,	20 3	124 51	...	ESE	4	...
Principality, sh.,	19 41	113 42	...	W	5	or.
Henry Failing, sh.,	18 39	177 6	...	NE	5	orq.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 22nd.						
Ancaios, sh.,	17° 13′	115° 19′	...	S/E	2	k.
Golden Fleece, sch.,	16 33	128 47	...	var.	...	p.
Bua Pan, bk.,	16 6	110 28	29.78	SSW	2	k.
Sepia, bk.,	14 25	122 39	.85	SW/S	3	...
Emilie, bk.,	14 8	109 53	.82	W	2	...
Prometheus, str.,	7 15	107 52	.91	SW	1	k.
Iceberg, sh.,	6 23	106 50	...	SSW	2	k.
Cimbria, bk.,	5 28	106 32	...	S	2	b.
May 23rd.						
Victoria, str.,	42 16	154 30	30.05	N	2	c.
Teheran, str.,	34 40	135 11	.06	ENE	1	c.
Nürnberg, str.,	33 6	129 24	29.99	NW	2	o.
Glenorchy, str.,	31 22	131 34	30.02	NE	5	or.
Tellus, str.,	30 43	127 17	29.85	...	0	...
Chi Yuen, str.,	28 24	121 54	.98	N	3	od.
Esang, str.,	27 30	121 32	.88	SE	1	mgp.
Kingsland, str.,	26 11	120 36	.93	NW	1	omr.
Activ, str.,	21 28	109 6	.73	N	1	c.
Principality, sh.,	21 21	113 44	...	S	2	p.
Japan, bk.,	20 1	123 3	...	ESE	6	opq.
Henry Failing, sh.,	18 28	174 15	...	NE	4	c.
Bua Pan, bk.,	18 22	110 47	.76	WNW	2	...
Ancaios, sh.,	18 11	114 32	...	SSW	4	k.
Golden Fleece, sch.,	17 32	128 34	...	SE	4	...
Doris, str.,	16 12	118 0	...	SW	4	k.
Sepia, bk.,	15 17	113 8	.83	SW	3	k.
Emilie, bk.,	14 35	109 36	.80	SW	2	o.
Prometheus, str.,	10 42	110 20	.87	SW	2	k.
Iceberg, sh.,	7 54	107 30	...	SW	5	q.
Cimbria, bk.,	6 6	107 1	...	SW	3	c.
May 24th.						
Victoria, str.,	39 31	148 33	29.99	SW	2	b.
Teheran, str.,	34 40	135 11	.90	ESE	1	om.
Glenorchy, str.,	33 27	136 16	.92	E	5	omr.
Sin Kolga, bk.,	32 5	127 2	...	E/N	1	m.
Nürnberg, str.,	31 25	127 50	.90	NE	2	og.
Chi Yuen, str.,	30 37	122 26	.97	ESE	3	f.
Tellus, str.,	28 16	123 53	.86	ESE	3	f.
Esang, str.,	24 30	119 0	.84	N	3	gd.
Kingsland, str.,	23 40	118 16	.84	NE	5	or.
Principality, sh.,	21 35	113 49	...	NE	4	...
Japan, bk.,	20 37	121 22	...	SW	...	orq.
Phra Nang, str.,	20 30	111 16	.68	NE	3	b.
Activ, str.,	20 9	109 58	.71	var.	1	c.
Doris, str.,	19 50	116 0	...	SW	4	or.
Ancaios, sh.,	19 46	114 3	...	S	5	q.
Bua Pan, bk.,	19 28	111 27	.76	SW	5	...
Henry Failing, sh.,	18 25	170 30	...	E	4	b.
Golden Fleece, sch.,	18 20	127 56	...	SSE	3	p.
Emilie, bk.,	14 59	109 30	.80	W	2	b.
Prometheus, str.,	14 18	112 36	.85	SSW	4	k.
Athole, str.,	11 0	108 52	...	SW	4	...
Iceberg, sh.,	9 31	109 12	...	SW	6	k.
Cimbria, bk.,	7 25	107 21	...	WSW	4	c.
May 25th.						
Victoria, str.,	36 37	142 22	29.93	N	3	b.
Belgic, str.,	34 25	138 33	.95	ENE	4	o.
Torridon, str.,	34 21	133 45	...	E	2	od.
Teheran, str.,	33 52	131 15	...	NW	2	omr.
Sin Kolga, bk.,	31 30	124 40	...	N	5	rf.
Chi Yuen, str.,	31 14	121 29	.86	N/E	3	or.
Nürnberg, str.,	28 24	123 28	.60	N	3	og.
Tellus, str.,	25 51	120 46	.81	WNW	2	f.
Verona, str.,	22 29	115 23	.70	N/W	3	o.
Kingsland, str.,	22 19	115 8	.70	NW	1	or.
Principality, sh.,	21 40	113 54?	...	NNE	4	...
Japan, bk.,	21 38	118 41	...	SSW	1	...
Ancaios, sh.,	20 31	114 1	...	NNW	4	c.
Activ, str.,	20 4	110 20	.74	NE	2	o.
Bua Pan, bk.,	19 55	112 17	.73	NNE	4	o.
Golden Fleece, sch.,	19 2	126 34	...	SW	4	...
Prometheus, str.,	18 30	113 27	.78	NW	4	k.
Sepia, bk.,	18 25	114 5	.73	NW	4	...
Henry Failing, sh.,	17 37	168 4	...	ENE	5	b.
Nicoya, bk.,	17 28	177 27	30.02	NE	4	o.
Esmeralda, str.,	16 18	118 52	29.79	SSW	5	c.
Emilie, bk.,	14 56	109 22	.79	var.	2	...
May 25th.						
Athole, str.,	13° 37′	110° 0′	...	SW	2	...
Cicero, str.,	11 55	109 19	29.83	S	2	k.
Iceberg, sh.,	11 31	110 37	...	SW	6	o.
Cimbria, bk.,	8 31	108 37	...	SW	1	orq.
May 26th.						
Victoria, str.,	34 43	139 25	29.69	N	5	or.
Teheran, str.,	33 58	130 55	.59	NW	2	...
Belgic, str.,	31 50	134 6	.60	SW/S	5	orq.
Nürnberg, str.,	25 4	119 40	.82	NE	2	c.
Verona, str.,	24 53	119 29	.83	NE/E	5	k.
Tellus, str.,	23 33	117 41	.84	NE	5	k.
Japan, bk.,	21 53	117 50	...	NE	6	...
Ancaios, sh.,	20 49	114 0	...	NE	4	...
Bua Pan, bk.,	20 39	112 32	...	ENE	3	...
Esmeralda, str.,	19 27	116 20	.82	NNE	5	c.
Golden Fleece, sch.,	19 26	125 46	...	var.	1	...
Sepia, bk.,	18 56	113 49	.75	NE/E	4	c.
Nicoya, bk.,	17 17	174 49	30.02	NE/N	4	o.
Henry Failing, sh.,	16 59	164 46	...	E	5	c.
Emilie, bk.,	15 40	109 20	29.79	NE	2	...
Cicero, str.,	15 14	110 18	.77	NW	4	o.
Don Juan, str.,	14 15	120 30	.84	SW	2	...
Iceberg, sh.,	13 29	111 55	...	WSW	5	o.
Cimbria, bk.,	10 8	109 10	...	WSW	4	q.
Memnon, str.,	8 51	119 26	.82	SE	2	...
May 27th.						
Torridon, str.,	34 0	130 3	30.02	SW	4	k.
Teheran, str.,	32 50	128 30	29.87	var.	2	k.
Belgic, str.,	29 31	129 34	.89	W	3	c.
Verona, str.,	27 55	123 12	.98	var.	1	k.
Nürnberg, str.,	22 25	115 17	.88	ENE	3	c.
Japan, bk.,	22 15	115 22	...	NE	4	...
Bua Pan, bk.,	20 48	113 9	.86	NNW	4	b.
Sepia, bk.,	20 37	113 30	.85	E/N	3	c.
Tailee, str.,	20 26	115 42	.91	SE	4	k.
Golden Fleece, sch.,	19 38	124 37	...	SSW	4	k.
Athole, str.,	18 44	112 52	...	NNE	4	b.
Cicero, str.,	18 17	111 12	.80	NNE	4	...
Don Juan, str.,	17 15	118 30	.81	var.	...	...
Nicoya, bk.,	17 12	173 7	30.02	ESE	2	...
Henry Failing, sh.,	15 52	161 40	...	ENE	5	...
Emilie, bk.,	15 4	109 20	29.81	NE	2	...
Iceberg, sh.,	14 20	112 31	...	NW	2	or.
Memnon, str.,	12 27	119 23	.88	SW	2	c.
Cimbria, bk.,	11 12	110 37	...	W	2	c.
May 28th.						
Victoria, str.,	34 29	138 43	29.76	N	2	b.
Torridon, str.,	31 45	127 19	30.00	var.	2	o.
Verona, str.,	31 0	127 11	.04	NE	2	o.
Belgic, str.,	27 16	124 18	.03	E	...	b.
Bua Pan, bk.,	21 26	113 23	29.84	ENE	6	op.
Athole, str.,	20 49	112 52	...	ENE	5	c.
Cicero, str.,	20 40	113 7	.84	NE	4	opq.
Don Juan, str.,	20 27	116 15	.85	SE	2	c.
Doris, str.,	20 14	115 55	...	SE/E	5	...
Golden Fleece, sch.,	19 32	123 49	...	S	4	...
Nicoya, bk.,	16 49	171 10	30.07	NE	2	...
Tailee, str.,	16 36	114 11	29.83	SSW	8	orq.
Memnon, str.,	15 58	117 56	.87	S	2	b.
Iceberg, sh.,	15 28	112 35	...	W	4	o.
Henry Failing, sh.,	14 54	158 24	...	E	5	b.
Emilie, bk.,	14 51	109 28	.87	...	0	b.
Cimbria, bk.,	11 38	111 8	...	SW	1	cq.
May 29th.						
Torridon, str.,	29 37	124 0	29.82	NE	5	o.
Chi Yuen, str.,	28 28	121 53	.99	SSE	3	c.
Teheran, str.,	27 38	122 21	.88	SSE	4	k.
Belgic, str.,	24 38	119 7	.97	SE	...	c.
Golden Fleece, sch.,	19 48	122 34	...	W	4	...
Memnon, str.,	19 27	116 11	.90	SSW	3	b.
Doris str.,	17 28	118 1	...	SE/S	2	...
Iceberg, sh.,	17 4	113 22	...	SW	5	k.
Nicoya, bk.,	16 50	169 5	30.12	ENE	2	k.
Emilie, bk.,	15 13	109 16	29.87	S	2	k.
Henry Failing, sh.,	13 50	155 37	...	ESE	4	cp.
Cimbria, bk.,	12 24	111 41	...	WSW	3	c.
Rosetta, str.,	6 11	107 28	.88	NW	2	c.
Kutsang, str.,	5 34	107 4	.89	NNW	2	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 30th.						
Victoria, str.,	34° 22′	133° 45′	29.87	NW	2	b.
Verona, str.,	33 50	132 16	.92	var.	1	k.
Torridon, str.,	26 54	121 29	.87	NE	5	od.
Chi Yuen, str.,	25 58	120 2	.88	SW	4	op.
Teheran, str.,	25 19	120 0	.81	SSW	4	o.
Belgic, str.,	22 16	114 33	.90	SW	...	c.
Activ, str.,	21 30	113 5	.89	SW	3	c.
Golden Fleece, sch.,	19 48	122 23	...	W	2	...
Iceberg, sh.,	18 26	113 36	...	S	4	...
Emilie, bk.,	16 56	108 45	.88	S	4	k.
Nicoya, bk.,	16 37	166 45	30.12	ENE	3	k.
Doris, str.,	14 22	120 11	...	E/S	4	...
Henry Failing, sh.,	13 1	152 44	...	E	4	orq.
Cimbria, bk.,	13 0	111 59	...	ENE	1	...
Rosetta, str.,	10 32	110 20	29.91	SE	2	b.
Kutsang, str.,	9 19	109 32	.90	NE	2	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
May 31st.						
Torridon, str.,	24° 33′	119° 4′	...	S	6	m.
Chi Yuen, str.,	23 15	117 18	29.90	NE	3	o.
Teheran, str.,	22 56	116 58	.83	SW	2	k.
Tellus, str.,	22 23	115 24	...	SW	3	k.
Iceberg, sh.,	20 27	113 45	...	SW	5	m.
Golden Fleece, sch.,	20 24	121 35	...	WSW	3	...
Activ, str.,	20 10	110 38	.78	WSW	3	c.
Emilie, bk.,	18 11	108 15	.80	SSE	2	...
Nicoya, bk.,	16 22	164 19	30.12	ENE	5	op.
Cimbria, bk.,	13 57	112 27	...	SE	2	b.
Kutsang, str.,	13 5	111 51	29.89	E	2	c.
Henry Failing, sh.,	12 44	149 24	...	var.	5	...
Doris, str.,	11 59	122 22	...	ESE	...	...
Taichiow, str.,	8 34	105 42	.90	SE	2	cp.
		.....				
		.....				

JUNE, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 1st.						
Victoria, str.,	32° 13′	127° 42′	29.80	E	2	...
Tellus, str.,	24 41	119 13	.82	SW	2	orf.
Don Juan, str.,	22 56	116 29	.76	S	2	...
Torridon, str.,	22 48	116 30	.72	var.	...	...
Golden Fleece, sch.,	21 46	121 3	...	WSW	2	...
Emilie, bk.,	19 40	107 10	.70	SSW	2	k.
Rosetta, str.,	19 35	114 3	.77	SW	4	b.
Kutsang, str.,	17 14	113 39	.86	SW	2	b.
Cimbria, bk.,	14 46	112 54	...	SSE	3	b.
Henry Failing, sh.,	12 30	146 13	...	E var.	5	...
Taichiow, str.,	11 4	108 44	.85	SW	3	c.
Dardanus, str.,	7 57	108 44	.84	...	...	...
June 2nd.						
Verona, str.,	34 48	139 17	29.81	N	5	or.
Victoria, str.,	27 53	122 30	.81	NNW	3	c.
Tellus, str.,	26 57	122 27	.84	N var.	6	fr.
Golden Fleece, sch.,	21 41	120 11	...	ESE	2	k.
Kutsang, str.,	21 26	114 1	.77	SW	4	og.
Cimbria, bk.,	15 31	114 10	...	S	3	b.
Taichiow, str.,	14 45	110 5	.70	SE	4	c.
Henry Failing, sh.,	12 26	142 59	...	E S	5	o.
Dardanus, str.,	11 40	111 19	.78	SW	2	k.
Chingtu, str.,	3 39	124 13	.83	W	2	c.
June 3rd.						
Tellus, str.,	29 16	125 18	29.84	NE	6	frq.
Victoria, str.,	24 20	118 41	.89	NW	2	...
Golden Fleece, sch.,	21 40	119 7	...	ESE	2	k.
Don Juan, str.,	21 31	118 42	.88	SSE	1	...
Phra Nang, str.,	20 57	114 37	.87	SSW	4	k.
Activ, str.,	20 10	110 2	.77	var.	1	c.
Taichiow, str.,	18 29	111 38	.84	SE	3	c.
Cimbria, bk.,	16 39	114 18	...	SSE	2	c.
Dardanus, str.,	15 38	113 18	.84	SSE	2	k.
Henry Failing, sh.,	13 1	139 58	...	ENE	4	c.
Chingtu, str.,	7 19	121 49	.83	SW/W	2	k.
June 4th.						
Tellus, str.,	32 11	129 0	29.84	ENE	4	frq.
Esang, str.,	24 55	119 38	.86	WSW	3	c.
Papa, bk.,	22 29	115 15	.88	SE	1	c.
Taichiow, str.,	21 37	113 39	.88	SE	3	c.
Memnon, str.,	21 27	114 18	.83	SSE	1	...
Dardanus, str.,	19 57	113 50	.88	SE	2	k.
Cimbria, bk.,	18 20	114 23	...	E	4	b.
Phra Nang, str.,	18 5	111 38	.84	SSW	4	k.
Don Juan, str.,	17 45	118 23	.85	SW	1	k.
Nicoya, bk.,	15 29	153 34	.92	ENE	2	k.
Henry Failing, sh.,	12 0	136 34	...	ESE	6	qm.
Chingtu, str.,	11 30	121 19	.81	NNE	5	k.
June 5th.						
Esang, str.,	28 46	122 20	29.71	NNE	2	m.
Papa, bk.,	22 34	115 31	.87	...	0	b.
Golden Fleece, sch.,	22 16	118 28	...	...	0	k.
Cimbria, bk.,	19 42	114 29	...	ESE	2	b.
Memnon, str.,	17 52	115 55	.85	...	0	...
Chingtu, str.,	15 15	118 54	.78	W	2	k.
Phra Nang, str.,	14 36	109 48	.82	ESE	4	k.
Don Juan, str.,	14 35	120 50	.80	var.	1	...
Nicoya, bk.,	14 31	151 22	.92	NE	2	o.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 5th.						
Henry Failing, sh.,	12° 23′	134° 10′	...	ENE	2	cpq.
June 6th.						
Esang, str.,	31 15	121 30	29.81	...	0	od.
Chi Yuen, str.,	22 29	113 48?	.87	SSE	2	c.
Golden Fleece, sch.,	22 22	118 39	...	...	0	k.
Activ, str.,	20 39	111 32	.86	E	2	c.
Cimbria, bk.,	20 8	114 18	...	...	0	b.
Chingtu, str.,	18 53	116 28	.84	N/E	2	k.
Memnon, str.,	14 3	117 0	.79	ESE	4	k.
Nicoya, bk.,	14 1	149 15	.87	ENE	2	o.
Henry Failing, sh.,	13 24	131 41	...	NE	5	b.
Phra Nang, str.,	11 1	108 43	.82	N	2	k.
Orange Grove, bk.,	4 9	109 45	.72	N	2	...
Pembrokeshire, str.,	4 3	105 52	.74	...	0	k.
June 7th.						
Esang, str.,	32 3	120 19	29.86	SE	3	k.
Papa, bk.,	23 ...	118 28	.85	S	1	c.
Zafiro, str.,	23 ...	117 5	.77	ESE	2	b.
Golden Fleece, sch.,	22 6	117 48	...	SE	4	k.
Cimbria, bk.,	20 22	114 6	...	...	0	...
Henry Failing, sh.,	14 36	128 21	...	NE	4	b.
Nicoya, bk.,	14 2	146 56	.87	ENE	2	k.
Memnon, str.,	10 20	117 43	.77	SE	2	...
Phra Nang, str.,	8 28	105 25	.81	var.	2	c.
Pembrokeshire, str.,	7 23	108 4	.76	...	0	...
Orange Grove, bk.,	4 20	109 46	.73	...	0	...
June 8th.						
Esang, str.,	32 17	118 50	29.89	SE	3	k.
Papa, bk.,	23 58	118 52	.92	WNW	1	c.
Activ, str.,	22 9	114 2	.94	S	2	c.
Golden Fleece, sch.,	22 0	116 21	...	ESE	2	k.
Cimbria, bk.,	21 9	114 3	...	E	3	...
Henry Failing, sh.,	16 20	125 38	...	NE	4	orq.
Nicoya, bk.,	13 27	144 38	.82	ENE	2	cp.
Phra Nang, str.,	10 45	102 4	.81	N	2	k.
Pembrokeshire, str.,	10 43	110 11	.84	E	4	od.
Taksang, str.,	8 25	105 45	.76	ENE	4	o.
Memnon, str.,	6 48	116 52	.77	SE	3	k.
Orange Grove, bk.,	4 50	109 40	.75	S	2	...
June 9th.						
Tellus, str.,	31 4	127 49	29.84	SW	6	orq.
Papa, bk.,	24 50	120 2	.98	W	1	c.
Chi Yuen, str.,	23 14	116 48	.97	E N	3	k.
Torridon, str.,	22 53	118 39	.89	E	4	k.
Nürnberg, str.,	22 18	114 41	.93	E	2	c.
Golden Fleece, sch.,	21 47	115 15	...	E/S	2	k.
Activ, str.,	21 13	112 49	.95	var.	1	c.
Zafiro, str.,	21 10	118 48	.87	E	3	c.
Henry Failing, sh.,	17 36	123 12	...	NE	4	b.
Pembrokeshire, str.,	14 11	112 13	.87	E	4	og.
Nicoya, bk.,	13 44	142 2	.92	ENE	4	k.
Taksang, str.,	10 50	108 28	...	NE	4	oq.
Doris, str.,	10 13	121 49	...	ENE	2	...
Orange Grove, bk.,	5 17	109 48	.79	N	1	o.
June 10th.						
Verona, str.,	35 8	139 42	30.02	S	4	or.
Tellus, str.,	28 55	124 34	29.85	SW	4	fr.
Chi Yuen, str.,	25 26	119 59	.96	NNE	2	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 10th.						
Papa, bk.,	25° 7′	120° 35′	29.90	NE	...	c.
Torridon, str.,	25 4	120 22	.88	WSW	4	k.
Nürnberg, str.,	24 30	118 58	.93	NE	1	c.
Activ, str.,	20 4	110 20	.86	NE	3	oq.
Kutsang, str.,	18 47	113 49	.87	SE	4	b.
Henry Failing, sh.,	18 37	122 24	...	var.	2	...
Pembrokeshire, str.,	18 30	113 43	.87	ESE	2	k.
Zafiro, str.,	16 54	119 25	.79	S	2	b.
Don Juan, str.,	16 18	118 54	.84	var.	1	k.
Taksang, str.,	14 21	110 9	.85	NE	4	q.
Nicoya, bk.,	13 55	139 3	.82	E/N	5	o.
Doris, str.,	13 17	120 17	...	NE	4	b.
Orange Grove, bk.,	5 38	110 0	...	NW	1	...
June 11th.						
Galveston, bk.,	38 21	119 21	29.67	NE	4	...
Verona, str.,	34 22	135 3	30.03	var.	1	k.
Chi Yuen, str.,	28 53	122 15	29.89	S	2	og.
Torridon, str.,	27 7	123 8	.87	S	5	k.
Nürnberg, str.,	26 49	123 31	.85	S	3	c.
Tellus, str.,	26 37	121 31	.85	SE	4	k.
Papa, bk.,	25 35	120 55	.86	SSW	1	c.
Activ, str.,	21 28	109 5	.84	SW	3	o.
Henry Failing, sh.,	19 44	118 24	...	E/S	1	b.
Don Juan, str.,	19 31	116 55	.84	NE	1	k.
Taksang, str.,	17 51	111 12	.95	E	1	k.
Doris, str.,	15 50	118 35	...	...	0	b.
Kutsang, str.,	14 51	112 51	.87	SE	2	o.
Nicoya, bk.,	14 16	136 28	.87	E/N	4	o.
Orange Grove, bk.,	6 32	110 15	.79	W	1	k.
June 12th.						
Galveston, bk.,	38 1	121 9	...	N	2	...
Torridon, str.,	29 6	126 39	29.86	NNW	...	k.
Nürnberg, str.,	28 56	128 41	.89	SW	5	c.
Papa, bk.,	27 9	123 40	.90	SW	4	c.
Tellus, str.,	24 25	119 3	.84	SW	4	k.
Activ, str.,	21 28	109 5	.88	WSW	3	c.
Taksang, str.,	21 21	113 33	.88	...	0	k.
Henry Failing, sh.,	20 5	117 0	...	N	1	...
Doris, str.,	18 55	116 48	...	...	0	b.
Nicoya, bk.,	14 38	133 48	.87	E	4	or.
Kutsang, str.,	11 17	110 31	.86	SSW	4	olr.
Orange Grove, bk.,	7 27	110 19	.82	S	2	o.
Wingsang, str.,	7 8	107 55	.80	ENE	1	c.
Salatiga, str.,	7 1	107 9	...	...	0	...
Nanchang, str.,	6 25	103 36	.81	var.	1	k.
June 13th.						
Empress of India, str.,	50 21	176 23	30.07	NW	3	o.
Galveston, bk.,	37 50	121 41	29.81	W	2	k.
Nürnberg, str.,	31 23	133 7	.95	WNW	3	o.
Torridon, str.,	30 57	130 51	.98	W	2	k.
Papa, bk.,	27 30	125 0	30.00	NE	2	or.
Tellus, str.,	22 35	115 55	...	SW	4	k.
Doris, str.,	21 36	114 33	...	...	0	...
Henry Failing, sh.,	20 17	116 9	...	N	1	b.
Activ, str.,	20 9	110 1	29.93	var.	1	c.
Nicoya, bk.,	15 21	131 14	.92	E/S	2	m.
Wingsang, str.,	10 59	110 2	.81	E	4	c.
Salatiga, str.,	10 15	108 42	...	N	2	orq.
Nanchang, str.,	9 44	109 31	.82	NE	5	...
Orange Grove, bk.,	7 58	110 18	.85	...	0	...
Kutsang, str.,	7 52	108 20	.87	S	2	c.
June 14th.						
Empress of India, str.,	48 35	168 3	30.14	SW	4	f.
Galveston, bk.,	37 5	122 49	...	WNW	1	...
Glenorchy, str.,	34 49	139 16	29.95	SW	5	k.
Nürnberg, str.,	34 6	137 55	.92	WSW	1	c.
Verona, str.,	33 48	131 31	.92	SE	2	k.
Torridon, str.,	33 43	134 41	.94	NE	4	...
Esang, str.,	31 17	121 45	.96	NE	1	k.
Papa, bk.,	27 39	126 23	.92	NNE	3	op.
Chingtu, str.,	23 23	117 31	.90	NE/E	4	o.
Henry Failing, sh.,	21 9	114 28	...	ENE	4	k.
Activ, str.,	20 27	111 15	.90	NE	2	c.
Nicoya, bk.,	15 45	129 40	.92	E/S	2	k.
Wingsang, str.,	14 43	112 24	.83	NNE	3	c.
Salatiga, str.,	13 31	110 7	...	var.	...	c.
Nanchang, str.,	12 55	111 53	.82	var.	1	p.
Orange Grove, bk.,	8 39	110 15	.83	S	2	or.
June 14th.						
Gwalior, str.,	6° 56′	107° 57′	29.87	NE	3	op.
Kutsang, str.,	4 24	106 19	.83	SSW	4	b.
June 15th.						
Empress of India, str.,	46 29	159 28	29.98	SE	3	o.
Galveston, bk.,	36 37	122 56	...	N	1	...
Glenorchy, str.,	33 31	135 23	.81	var.	2	k.
Papa, bk.,	27 38	128 47	.86	NNE	3	o.
Esang, str.,	27 29	121 32	.91	...	0	o.
Chingtu, str.,	25 41	121 3	.91	NE	4	c.
Activ, str.,	22 4	113 55	.87	ENE	4	crq.
Taichiow, str.,	19 19	112 15	.85	SSE	3	c.
Wingsang, str.,	18 27	114 51	.75	NE/N	2	c.
Salatiga, str.,	17 13	110 29	...	N	3	...
Nicoya, bk.,	16 12	128 29	.87	E/S	1	b.
Nanchang, str.,	15 56	113 34	.76	E/N	6	or.
Gwalior, str.,	10 32	110 9	.79	NNE	3	cp.
Donar, str.,	10 20	107 23	.80	S	1	...
Orange Grove, bk.,	9 14	110 26	.77	S	2	o.
Malacca, str.,	6 45	108 0	.82	WSW	2	o.
June 16th.						
Empress of India, str.,	44 6	153 34	29.79	W	4	o.
Galveston, bk.,	35 26	123 17	.77	W	2	...
Verona, str.,	30 15	126 33	.91	NW/W	4	c.
Papa, bk.,	28 33	130 56	.82	NNW	4	c.
Chingtu, str.,	27 33	125 14	.96	NE/N	4	o.
Esang, str.,	24 29	118 55	.87	NNE	5	o.
Salatiga, str.,	20 7	112 15	.87	ENE	6	oq.
Nanchang, str.,	19 39	114 1	.81	E/S	2	...
Nicoya, bk.,	16 30	127 57	.87	E	1	...
Zafiro, str.,	16 23	118 51	.78	NE	2	b.
Taichiow, str.,	15 49	110 14	.67	SE	6	orq.
Gwalior, str.,	13 48	112 20	.77	SSW	4	cp.
Donar, str.,	12 59	109 49	.77	S	2	o.
Phra Nang, str.,	12 9	101 6	.81	S	4	o.
Orange Grove, bk.,	10 11	110 25	.75	S	2	or.
Johann Adolph, bqt.,	4 4	109 13	...	W	4	orlt.
Angers, str.,	3 42	105 44	.81	SW	2	k.
June 17th.						
Empress of India, str.,	41 16	146 52	29.77	ESE	4	fr.
Galveston, bk.,	34 46	123 42	...	S	2	...
Nürnberg, str.,	34 34	138 59	.86	...	0	ct.
Torridon, str.,	34 26	134 8	.86	E	2	k.
Papa, bk.,	30 26	133 25	.88	NNE	1	cm.
Sin Kolga, bk.,	30 11	123 35	...	SSW	2	m.
Chingtu, str.,	29 32	130 7?	.94	N	2	k.
Chi Yuen, str.,	28 42	121 55	.92	S	2	k.
Verona, str.,	27 0	122 19	.92	SE/S	3	k.
Esang, str.,	23 20	116 44	.86	E/S	2	o.
Salatiga, str.,	21 34	113 45	...	E	...	...
Zafiro, str.,	19 55	116 18	.84	W	2	b.
Gwalior, str.,	17 43	113 55	.84	S	4	o.
Nicoya, bk.,	16 56	126 42	.87	SE	2	k.
Donar, str.,	16 42	110 53	.81	SE	4	q.
Malacca, str.,	12 41	111 42	.82	S	2	b.
Taichiow, str.,	12 16	109 25	.81	S	4	...
Orange Grove, bk.,	11 33	110 26	.80	S	3	or.
Nierstein, str.,	11 4	101 45	.81	SSW	4	opq.
Protos, str.,	10 41	102 13	.82	S	2	orq.
Phra Nang, str.,	9 3	103 40	.88	N	4	or.
Memnon, str.,	8 11	119 8	.92	SW	2	k.
Angers, str.,	6 20	107 51	.82	var.	3	or.
Johann Adolph, bqt.,	4 45	102 13	.82	S	2	orq.
June 18th.						
Empress of India, str.,	37 35	141 35	29.89	SE	2	k.
Galveston, bk.,	34 9	124 3	.61	S	2	or.
Torridon, str.,	33 58	130 55	.91	E	2	k.
Glenorchy, str.,	33 50	131 22	.96	E	2	k.
Chingtu, str.,	32 53	133 41	.99	E/S	2	m.
Papa, bk.,	30 44	134 8	.98	SE	2	b.
Sin Kolga, bk.,	29 42	122 35	...	S	3	f.
Taisang, str.,	28 23	121 55	.76	SW	5	...
Chi Yuen, str.,	25 58	120 2	.86	SSW	3	k.
Verona, str.,	23 57	118 22	.87	SSW	3	k.
Gwalior, str.,	21 55	113 59	.88	NW	4	or.
Donar, str.,	20 4	112 44	.83	SW	3	oq.
Nicoya, bk.,	17 19	125 43	.89	E	2	m.
Malacca, str.,	16 48	113 39	.82	S	4	b.
Orange Grove, bk.,	13 50	110 50	.81	S	4	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
June 18th.						
Memnon, str.,	11° 43′	119° 51′	29.91	...	0	...
Pakshan, str.,	11 5	101 53	.85	var.	2	or.
Libelle, str.,	10 26	102 16	...	var.	5	or.
Phra Nang, str.,	9 28	106 59	.86	SW	4	k.
Angers, str..	9 8	109 39	.82	SW	2	o.
Taichiow, str.,	9 0	107 37	.86	SSW	2	c.
Nierstein, str.,	8 30	103 34	.88	ESE	4	oq.
Protos, str,	8 18	104 51	.80	S	3	k.
Johann Adolph, bqt.,	5 56	109 42	...	S	2	...
Kintuck, str.,	4 45	106 16	.87	SE	2	b.
Arratoon Apcar, str.,	4 15	105 52	.87	ESE	2	k.
Georgietta, bk.,	2 45	105 2	...	SE	5	k.
June 19th.						
Empress of India, str.,	35 25	139 39	29.98	...	...	k.
Galveston, bk.,	34 26	124 19	...	E	2	...
Nürnberg, str.,	34 24	133 53	.95	var.	1	c.
Papa, bk.,	32 6	136 16	30.08	S	2	k.
Sin Kolga, bk.,	29 21	123 28	...	SSW	2	m.
Taisang, str.,	25 5	119 39	29.88	SW	4	of.
Malacca, str.,	21 15	114 14	.85	S	1	b.
Nicoya, bk.,	16 59	124 26	.89	NE	2	o.
Orange Grove, bk.,	16 7	110 50	.81	S	5	k.
Memnon, str.,	15 8	118 16	.91	SW	1	or.
Wm. le Lacheur, bk.,	14 20	121 57	...	NE	4	cq.
Phra Nang, str.,	12 28	109 34	.90	N	2	k.
Angers, str.,	12 22	111 27	.84	var.	2	k.
Protos, str.,	9 54	107 5	.86	NE	2	k.
Nierstein, str.	8 58	106 45	.88	N	2	k.
Kintuck, str.,	8 55	108 54	.87	SE	2	b.
Pakshan, str.,	8 27	104 31	.89	WSW	4	k.
Libelle, str.,	8 22	104 52	...	SW	2	k.
Arratoon Apcar, str.,	7 52	108 9	.89	E	2	k.
Johann Adolph, bqt.,	6 58	109 42	...	SE	2	k.
Taichiow, str.	5 22	106 19	.87	SW	2	orqlt.
Georgietta, bk.,	4 32	105 35	...	SE	2	q.
Assyria, bk.,	4 20	105 32	...	SE	4	orqlt.
June 20th.						
Galveston, bk.,	34 11	123 29	...	S	2	...
Empress of India, str.,	33 37	135 20	30.00	SW	3	o.
Papa, bk.,	32 57	139 30	.03	SW	3	o.
Nürnberg, str.,	32 49	129 41	29.94	var.	1	od.
Sin Kolga, bk.,	29 16	123 18	...	SSW	1	m.
Cape Colonna, str.,	20 19	108 40	.81	SE	2	k.
Chusan, str.,	20 15	109 15	.85	NE	1	k.
Memnon, str.,	18 40	116 29	.92	E	1	...
Orange Grove, bk.,	18 7	111 26	.87	SE	4	k.
Nicoya, bk.,	17 44	122 57	.92	ENE	2	q.
Phra Nang, str.,	16 31	110 39	.91	SE	4	k.
Angers, str.,	15 35	113 2	.87	SE	4	o.
Wm. le Lacheur, bk.,	14 28	122 4	...	ENE	...	og.
Kintuck, str.,	13 52	110 3	.82	SW	2	o.
Protos, str.,	12 52	109 40	.91	var.	4	k.
Nierstein, str.,	11 30	109 11	.89	NW	2	...
Arratoon Apcar, str.,	11 19	110 49	.87	ENE	2	o.
Phra Chom Klao, str.,	10 46	102 4	.88	SSW	2	o.
Libelle, str.,	10 2	107 40	...	SW	2	o.
Pakshan, str.,	9 54	107 34	.92	...	0	k.
Johann Adolph, bqt.,	7 42	109 38	...	NE	3	...
Georgietta, bk.,	5 53	106 17	...	E	1	k.
Assyria, bk.,	5 29	106 0	...	E	1	...
Taichiow, str.,	1 49	104 33	.90	S	7	c.
June 21st.						
Papa, bk.,	34 1	142 44	30.04	SW/W	4	c.
Empress of India, str.,	33 46	132 22	29.95	var.	1	f.
Galveston, bk.,	33 18	123 35	...	ESE	4	...
Nürnberg, str.,	30 56	127 16	.93	SE	1	od.
Sin Kolga, bk.,	29 ...	122 30?	...	S/W	2	of.
Memnon, str.,	22 0	114 23	.91	E	1	k.
Cape Colonna, str.,	20 10	110 36	.82	SE	5	k.
Phra Nang, str.,	20 4	112 49	.95	var.	2	k.
Memnon, str.,	20 0	114 23	.91	E	1	k.
Angers, str.,	19 14	113 42	.88	NE	2	k.
Orange Grove, bk.,	19 9	112 18	.87	SSE	2	...
Nicoya, bk.,	18 45	121 50	.92	E	1	b.
Kintuck, str.,	18 34	111 44	.88	SW	2	b.
Protos, str.,	16 21	110 22	.92	NE	3	...
Wm. le Lacheur, bk.,	15 22	122 53	...	E	5	od.
Nierstein, str.,	14 40	110 3	.90	NW	2	k.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
June 21st.						
Pakshan, str.,	12° 53′	109° 37′	29.89	N	4	k.
Libelle, str.,	12 50	109 36	...	N	2	o.
Tetartos, str.,	12 33	109 39	...	NW	4	...
Bengloe, str.,	12 31	109 29	...	NW	2	o.
Johann Adolph, bqt.,	9 37	108 48	...	W	4	o.
Phra Chom Klao, str.,	8 23	105 11	.90	NW	4	og.
Georgietta, bk.,	6 46	106 45	...	W	3	dq.
Assyria, str.,	6 12	106 30	...	NNW	1	p.
Palinurus, str.,	3 56	105 40	.90	NW	2	o.
June 22nd.						
Papa, bk.,	35 22	145 21	29.85	SW	5	or.
Galveston, bk.,	32 17	123 0	...	S	3	...
Empress of India, str.,	32 45	129 50	.92	var.	1	o.
Nürnberg, str.,	28 1	123 7	.84	SSW	4	c.
Salatiga str.,	23 0	116 57	...	E	5	c.
Donar, str.,	21 21	113 30	.83	...	0	b.
Zafiro, str.,	22 28	115 8	...	E	3	b.
Chusan, str.,	21 45	113 31	.83	E	1	c.
Cape Colonna, str.,	21 35	113 11	.79	E	2	...
Orange Grove, bk.,	20 20	112 35	.82	...	0	k.
Protos, str.,	19 19	112 11	.85	NE	4	oq.
Nicoya, bk.,	19 17	120 22	.82	...	0	k.
Arratoon Apcar, str.,	19 11	113 34	.85	E	2	k.
Nierstein, str.,	18 12	111 2	.81	NE	3	k.
Phra Chom Klao, str.,	18 0	111 34	.84	SE	1	...
Doris, str.,	17 0	118 0	...	SSE	6	...
Wm. le Lacheur, bk.,	16 53	123 22	...	S	2	og.
Pakshan, str.,	16 27	110 44	.83	N	4	k.
Libelle, str.,	16 20	110 27	...	NW	5	k.
Bengloe, str.,	16 17	110 26	...	N/E	2	k.
Tetartos, str.,	16 15	110 19	.79	N	2	...
Johann Adolph, bqt.,	11 58	109 42	...	WSW	5	or.
Georgietta, bk.,	8 42	108 0	...	WSW	4	c.
Palinurus, str.,	7 6	107 51	.89	NW	4	k.
Assyria, bk.,	7 3	107 43	...	SW	4	k.
June 23rd.						
Papa, bk.,	36 4	147 49	29.85	SW	3	o.
Empress of India, str.,	31 56	125 43	.78	SSW	4	...
Galveston, bk.,	31 43	123 28	...	SW	2	...
Sin Kolga, bk.,	28 26	122 12	...	SSW	5	k.
Salatiga, str.,	25 10	120 33	...	S	5	cq.
Nürnberg, str.,	24 58	119 34	.89	SW	5	c.
Frejr, str.,	21 34	112 46	.74	ESE	4	...
Nierstein, str.,	21 0	113 30	.79	ENE	3	orq.
Alwine, str.,	20 30?	111 10?	.80	E	4	oq.
Pakshan, str.,	19 27	112 35	...	E	4	k.
Bengloe, str.,	19 24	112 24	...	SE	4	o.
Tetartos, str.,	19 17	112 20	.76	SE	4	o.
Nicoya, bk.,	19 8	118 17	.87	S/E	6	o.
Libelle, str.,	19 5	112 8	...	ESE	6	q.
Wm. le Lacheur, bk.,	18 15	123 26	...	SE	3	o.
Amigo, str.,	18 8	111 20	.72	SSE	6	q.
Donar, str.,	17 53	111 28	.72	ESE	4	orq.
Doris, str.,	15 0	119 5	.85	SSE	5	...
Phra Chom Klao, str.,	14 40	109 41?	.73	SW	4	...
Johann Adolph, bqt.,	14 16	109 52	...	W	6	...
Cosmopolit. str.,	11 16	109 3	.83	SW	5	c.
Palinurus str.,	10 31	110 4	.80	WSW	5	o.
Georgietta, bk.,	10 24	110 1	...	SW	6	q.
Assyria, bk.,	8 38	108 57	...	SW	3	k.
Glengyle, str.,	3 51	105 50	.87	SW	2	o.
Taichiow, str.,	1 52	104 32	.89	SE	3	c.
June 24th.						
Papa, bk.,	36 19	150 0	29.85	NE	1	c.
Chingtu, str.,	34 26	134 8	.83	...	0	...
Glenorchy, str.,	32 45	127 3	.90	W	4	omr.
Empress of India, str.,	31 23	121 30	.80	E	2	...
Galveston, bk.,	31 3	124 26	...	SSW	2	or.
Salatiga, str.,	26 53	124 15	...	S W	3	c.
Nürnberg, str.,	23 38	115 47	.85	SSE	3	c.
Verona, str,	22 30	115 25	.87	SE E	6	orq
Zafiro, str.,	21 37	118 45	.84	SSE	3	b.
Haiphong, str.,	21 11?	111 40?	...	S	5	...
Frejr, str,	20 28	111 55?	...	SSW	5	...
Nicoya, bk.,	20 5	115 18	.87	SSE	5	q.
Wm. le Lacheur, bk.,	19 27	122 28	...	SE	4	og.
Phra Chom Klao, str.,	17 52	111 6	.78	S/W	5	o.
Johann Adolph, bqt.,	17 28	110 33	...	SSW	3	k.

JUNE, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
June 24th.						
Amigo, str.,	15° 38′	109° 44′	29.74	SW	3	...
Donar, str.,	15 17	109 53	.78	SSW	5	c.
Cosmopolit. str.,	14 12	109 21	.78	SW	2	c.
Palinurus, str.,	13 57	112 29	.82	SSW	4	k.
Georgietta, bk.,	12 22	112 21	...	SSW	4	...
Doris, str.,	12 0	121 0	.87	var.	...	orqtl.
Fidelia, str.,	11 1	101 51	.84	SW	4	o.
Assyria, bk.,	10 37	110 8	...	SW	5	...
Glenogle, str.,	7 37	108 7	.85	var.	2	op.
Taichiow, str.,	6 19	103 19	.88	var.	2	orq.
June 25th.						
Papa, bk.,	36 31	150 27	29.76	SE	1	o.
Glenorchy, str.,	30 56	122 41	.97	S	2	k.
Galveston, bk.,	30 51	125 28	...	var.	1	...
Salatiga, str.,	28 57	128 5	...	WSW	2	c.
Empress of India, str.,	28 15	121 51	.88	SW	4	...
Sin Kolga, bk.,	27 27	122 46	...	SW	2	...
Chi Yuen, str.,	26 23	120 21	.89	SW/S	2	k.
Verona, str.,	25 7	119 59	.95	SW	2	k.
Phra Chom Klao, str.,	21 1	113 31	.87	SE	5	o.
Wm. le Lacheur, bk.,	20 1	120 43	...	E	2	c.
Johann Adolph, bqt.,	19 14	111 21	...	SE	5	orq.
Palinurus, str.,	17 57	113 38	.87	SSE	5	o.
Georgietta, bk.,	14 26	113 16	...	SSW	4	...
Mongkut, str.,	12 57	100 44	.83	SSW	4	k.
Assyria, bk.,	12 2	111 57	...	SW	5	q.
Donar, str.,	11 47	109 13	.85	S	4	q.
Glengyle, str.,	11 26	110 33	.85	SW	2	o.
Taichiow, str.,	10 26	101 33	.87	SW	3	orq.
Doris, str.,	9 0	122 5	.87	NE	2	b.
Fidelio, str.,	8 40	104 22	.92	S	1	or.
Phra Chom Klao, str.,	8 36	105 42	.91	SW	2	orq.
June 26th.						
Papa, bk.,	38 0	154 9	29.77	SE/S	6	op.
Chingtu, str.,	33 45	130 4	.96	var.	1	f.
Salatiga, str.,	30 41	132 50	...	NW	3	o.
Galveston, bk.,	30 35	125 13	...	SSE	1	...
Verona, str.,	28 28	124 5	.94	S	4	c.
Chi Yuen, str.,	28 24	121 54	.87	S	2	f.
Sin Kolga, bk.,	27 50	121 26	...	S/W	5	k.
Empress of India, str.,	23 53	118 8	.92	SW	3	k.
Cape Colonna, str.,	22 2	113 46	.87	SSE	6	q.
Wm. le Lacheur, bk.,	20 18	119 2	...	SE	2	cm.
Georgietta, bk.,	16 40	113 59	...	S	4	k.
Glengyle, str.,	15 18	112 54	.89	SE	2	o.
Assyria, bk.,	13 19	113 17	...	SW	2	...
Phra Chom Klao, str.,	10 31	102 16	.91	WNW	1	...
Fidelio, str.,	9 56	107 21	.92	NW	1	c.
Mongkut, str.,	9 48	102 54	.91	var.	1	o.
June 27th.						
Papa, bk.,	38 55	158 19	30.00	SSE	4	of.
Salatiga, str.,	32 44	135 2	...	N	6	k.
Verona, str.,	31 42	128 13	29.95	ESE	2	c.
Chingtu, str.,	31 18	126 20	.91	S	2	f.
Galveston, bk.,	30 28	124 17	...	SE	4	...
Sin Kolga, bk.,	27 23	121 56	...	SW/S	4	k.
Esang, str.,	25 0	119 42	.92	SW	4	k.
Josephus, sh.,	22 8	115 55	.96	S	3	k.
Cape Colonna, str.	20 28	111 28	.86	S	5	...
Wm. le Lacheur, bk.,	20 26	118 59	...	W/N	1	cm.
Glengyle, str.,	19 40	113 27	.92	SE	2	b.
Georgietta, bk.,	18 26	114 20	...	SSE	2	k.
Assyria, bk.,	14 39	113 56	...	ENE	2	...
Fidelio, str.,	12 53	109 29	.92	...	0	k.
June 27th.						
Mongkut, str.,	8° 45′	106° 16′	29.91	N	3	k.
June 28th.						
Papa, bk.,	39 20	162 3	30.08	S	2	of.
Salatiga, str.,	34 28	138 45	...	...	0	...
Torridon, str.,	33 58	130 55	29.96	SE	...	...
Taiyuan, str.,	31 15	121 34	.89	SSE	2	b.
Galveston, bk.,	30 2	123 47	...	S	2	...
Esang, str.,	29 4	122 18	.84	SSW	4	c.
Chingtu, str.,	28 17	122 47	.85	SSW	4	k.
Sin Kolga, bk.,	26 54	121 42	...	S/W	2	k.
Josephus, sh.,	21 43	117 35	.91	ENE	3	k.
Frejr, str.,	20 25?	109 45?	.85	SSE	5	b.
Wm. le Lacheur, bk.,	20 12	118 18	...	N	2	cm.
Cape Colonna, str.,	20 11	109 42	.85	var.	2	...
Memnon, str.,	19 31	115 5	.90	SSW	1	b.
Georgietta, bk.,	19 23	114 14	...	S	1	...
Gwalior, str.,	18 52	113 41	.93	var.	2	k.
Fidelio, str.,	16 39	108 42	.91	S	2	k.
Assyria, bk.,	15 47	113 56	...	E	1	...
Malwa, str.,	12 39	111 23	.83	E	1	...
Mongkut, str.,	11 37	109 12	.89	NE	1	k.
Chelydra, str.,	1 43	104 39	.87	...	0	c.
June 29th.						
Papa, str.,	39 30	164 51	30.02	SW	1	of.
Verona, str.,	33 50	132 18	29.96	SE	3	c.
Torridon, str.,	33 5	128 20	.93	SSW	4	k.
Galveston, bk.,	29 44	123 15	...	S	3	...
Taiyuan, str.,	27 43	121 23	.88	SW	4	k.
Sin Kolga, bk.,	26 58	120 47?	...	SSW	5	k.
Chingtu, str.,	25 12	119 54	.83	SW	4	k.
Taisang, str.,	23 22	117 29	.90	WSW	2	...
Josephus, sh.,	21 42	117 50	.94	ESE	1	c.
Georgietta, bk.,	20 19	113 58	...	var.	1	...
Wm. le Lacheur, bk.,	20 7	117 10	...	NW	2	cq.
Phra Nang, str.,	20 ...	115 ...	.87	SW	3	k.
Fidelio, str.,	19 51	108 56	...	SSW	2	...
Assyria, bk.,	17 13	113 59	...	S	2	...
Malwa, str.,	17 10	113 14	.91	...	0	c.
Memnon, str.,	15 43	116 9	.87	SSE	2	b.
Mongkut, str.,	15 34	110 14	.91	NE	2	k.
Gwalior, str.,	15 1	112 51	.91	SSE	3	k.
Lennox, str.,	11 17	101 52	.90	SW	1	...
Chelydra, str.,	5 39	106 29	.85	NE	3	cp.
June 30th.						
Papa, bk.,	39 30	167 12	29.87	SW	1	of.
Torridon, str.,	30 34	125 40	.88	S	5	k.
Galveston, bk.,	29 27	122 46	...	S	5	...
Taisang, str.,	26 25	120 37	.90	S	3	...
Sin Kolga, bk.,	26 23	120 31	...	S/W	2	k.
Chingtu, str.,	22 49	116 21	.82	SW	2	k.
Malwa, str.,	21 45	113 56	.86	SSW	2	...
Georgietta, bk.,	21 29	113 58	...	WSW	3	...
Bengloe, str.,	21 26	113 17	...	SW	4	k.
Josephus, sh.,	21 16	118 35	.84	S	1	c.
Frejr, str.,	20 33	111 15	...	SSE	2	b.
Wm. le Lacheur, bk.,	20 7	116 26	...	NW/W	1	cm.
Mongkut, str.,	19 12	112 5	.86	S	2	...
Phra Nang, str.,	18 26	111 47	.79	S	2	k.
Assyria, bk.,	17 57	114 16	...	S	1	...
Cosmopolit, str.,	17 42	110 3	.85	SE	2	k.
Memnon, str.,	12 10	117 22	.81	ESE	3	b.
Gwalior, str.,	11 29	110 54	.85	SE	2	k.
Chelydra, str.,	9 53	108 28	.83	NE	3	c.
Lennox, str.,	8 48	104 13	.83	SE	2	k.

JULY, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 1st.						
Papa, bk.,	40° 44′	171° 9′	29.80	WNW	1	o.
Esang, str.,	32 7	122 28	.76	S	2	k.
Feilung, str.,	32 1	124 24	...	SSW	4	b.
Taisang, str.,	30 10	122 35	.84	SSE	4	...
Galveston, bk.,	29 12	122 59	...	SSW	3	...
Chi Yuen, str.	28 53	122 15	.80	S	3	k.
Torridon, str.,	28 23	123 26	.85	S	5	k.
Lyeemoon, str.	27 52	121 29	.82	SSW	4	b.
Catterthun, str.,	24 27	119 5	.90	...	0	cp.
Activ, str.,	21 42	113 23	.84	S	3	orq.
July 1st.						
Josephus, sh.,	21° 6′	118° 19′	29.86	N	1	c.
Cosmopolit, str.	20 29	112 40	.84	SSE	3	k.
Wm le Lacheur, bk.,	20 15	116 4	...	SW/S	1	...
Assyria, bk,	18 32	114 16	...	S	1	...
Bengloe, str.,	18 21	110 49	.78	SSW	5	p.
Chelydra, str.,	14 13	109 58	.83	SSE	3	b.
Lennox, str.,	9 34	107 2	.84	...	0	k.
Memnon, str.,	8 28	116 44	.81	ESE	3	b.
Gwalior, str.,	8 9	108 34	.91	...	0	k.

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JULY, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 2nd.						
Papa, bk.,	41° 23′	173° 28′	29.73	S	1	o.
Esang, str.,	35 55	122 45	.76	...	0	f.
Verona, str.,	34 49	139 20	.82	S	3	m.
Glenorchy, str.,	30 5	122 35	.85	S	4	k.
Galveston, bk.,	28 51	123 16	...	S	1	...
Catterthun, str.,	28 13	121 59	.88	var.	2	b.
Torridon, str.,	26 18	121 7	.86	S	2	k.
Chi Yuen, str.,	25 58	120 2	.82	SSW	2	k.
Lyeemoon, str.,	24 32	118 59	.84	SW	4	b.
Malwa, str.,	24 26	118 54	.87	S	2	k.
Josephus, sh.,	20 46	118 21	.86	ENE	1	k.
Wm. le Lacheur, bk.,	20 42	114 58	...	SE	2	oq.
Activ, str.,	20 3	110 20	.78	S	3	o.
Assyria, bk.,	19 38	114 17	...	S	2	...
Chelydra, str.,	18 27	111 34	.83	SSE	3	o.
Bengloe, str.,	14 37	110 14	.78	S	6	o.
Lennox, str.,	12 18	109 27	.79	...	0	k.
Phra Nang, str.,	11 29	109 11	.78	S	2	k.
Taichiow, str.,	10 7	102 39	.88	SSE	1	...
Memnon, str.,	7 0	116 53	.81	ESE	4	b.
Gwalior, str.,	4 38	106 15	.84	...	0	k.
July 3rd.						
Papa, bk.,	41 19	175 52	29.73	NNW	1	cd.
Esang, str.,	37 46	121 30	.72	SE	1	f.
Malwa, str.,	28 52	122 8	.82	S	3	c.
Galveston, bk.,	28 32	123 4	...	S	1	...
Glenorchy, str.,	26 34	120 25	.85	SW	4	k.
Torridon, str.,	24 30	119 5	.81	SW	4	k.
Lyeemoon, str.,	22 22	115 1	.86	NE	1	o.
Wm. le Lacheur, bk.,	21 55	114 2	...	var.	2	or.
Assyria, bk.,	20 52	114 17	...	SSW	3	...
Josephus, sh.,	20 29	118 10	.86	...	0	k.
Lennox, str.,	15 58	110 19	.80	SE	4	k.
Bengloe, str.,	11 3	108 47	.80	SSW	2	k.
Phra Nang, str.,	9 ...	106 30	.79	S	3	k.
Taichiow, str.,	8 39	106 1	.88	var.	1	...
July 4th.						
Esang, str.,	38 4	121 17	29.67	SE	1	...
Taisang, str.,	30 30	123 30	.74	SSW	5	...
Galveston, bk.,	27 49	123 35	...	var.	2	...
Yiksang, str.,	23 3	116 59	.78	S	2	k.
Torridon, str.,	22 54	116 31	.81	SW	2	k.
Wm. le Lacheur, bk.,	21 58	114 25	...	SW	2	cm.
Cape Colonna, str.,	20 36	107 43	.67	S	8	...
Josephus, sh.,	20 2	118 26	.85	NE	1	...
Lennox, str.,	19 3	112 21	.81	ESE	3	k.
Taichiow, str.,	11 24	109 6	.82	var.	2	k.
Phra Nang, str.,	9 24	103 15	.77	W	3	k.
July 5th.						
Salatiga, str.,	34 6	136 51	...	...	0	m.
Galveston, bk.,	27 37	123 17	...	SW	2	...
Taisang, str.,	27 1	120 53	29.79	SW	5	...
Cape Colonna, str.,	20 10	110 23	.69	S	6	o.
Josephus, sh.,	20 2	118 45	.86	ESE	2	...
Taichiow, str.,	15 21	110 9	.84	SE	4	k.
Phra Nang, str.,	12 24	100 56	.78	SW	3	o.
Tailee, str.,	7 16	107 11	.86	W/S	5	crq.
July 6th.						
Galveston, bk.,	27 31	122 37	...	SW	5	...
Empress of India, str.,	24 34	119 2	29.89	SW	2	c.
Taisang, str.,	24 4	118 4	.88	SW	3	...
Frigga, str.,	22 13	114 20	...	SW	2	...
Cape Colonna, str.,	21 21	112 56	.86	SE	4	k.
Yiksang, str,	21 12	118 54	.89	SSE	1	k.
Activ, str.,	20 3	110 20	.83	SSE	3	o.
Josephus, sh.,	19 46	119 21	.90	E	2	...
Phra Chom Klao, str,	8 28	105 ...	.91	var.	1	...
Tailee, str.,	3 11	106 56	.97	S	6	orq.
July 7th.						
Empress of India, str.,	28 39	122 8	29.86	var.	2	b.
Galveston, bk.,	27 0	122 38	...	SW	3	...
Frigga, str.,	23 49	118 20	...	...	0	...
Nürnberg, str.,	22 31	115 31	.89	S	1	c.
Activ, str.,	20 38	111 31	.86	SE	2	c.
Josephus, sh.,	19 39	120 0	.86	E	2	...
Yiksang, str.,	17 3	119 31	.83	S	1	k.
Phra Chom Klao, str.,	10 56	108 44	.79	NW	3	...
Tailee, str.,	0 4	108 8	.90	SE	4	c.
July 8th.						
Nanchang, str.,	37° 4′	122° 45′	29.71	SSW	5	k.
Verona, str.,	35 7	139 40	.90	var.	2	b.
Galveston, str.,	26 48	122 9	...	SW	1	...
Frigga, str.,	25 52	122 15	...	S	2	...
Nürnberg, str.,	25 11	119 59	.95	SW	1	c.
Ancona, str.,	22 54	116 48	.89	E	1	b.
Glenorchy, str.,	22 20	114 53	.93	N	2	k.
Josephus, sh.,	19 48	120 27	.88	ENE	3	oq.
Phra Chom Klao, str.,	15 10	109 13	.79	var.	2	...
Doris, str.,	10 0	122 0	.83	N	2	...
Cromarty, str.,	4 14	109 8	...	NNE	5	or.
July 9th.						
Verona, str.,	33 40	135 17	29.82	ESE	2	c.
Nanchang, str.,	33 28	123 7	.78	S	1	k.
Empress of India, str.,	31 47	125 41	.86	var.	1	b.
Commerzienrath Rodbertus, bk.,	30 13	124 2	...	SW	1	...
Frigga, str.,	27 27	126 11	...	SW	2	k.
Nürnberg, str.,	27 26	124 36	.88	S	1	c.
Galveston, bk.,	26 36	121 29	...	S	1	...
Chi Yuen, str.,	26 0	120 8	.86	S	1	b.
Ancona, str.,	25 53	121 0	.86	ESE	3	k.
Taksang, str.,	25 0	119 35	...	...	2	b.
Glenorchy, str.,	21 10	114 9	.89	SE	2	k.
Josephus, sh.,	19 49	121 3	.84	ENE	4	c.
Doris, str.,	13 0	120 5	.83	var.	1	...
Hupeh, str.,	4 38	108 48	.93	SW	3	orq.
Keemun, str.,	4 23	105 49	.87	S	2	or.
Cromarty, str.,	1 48	108 47	...	N	2	b.
July 10th.						
Glenshiel, str.,	32 46	126 42	29.76	var.	1	k.
Catterthun, str.,	31 22	123 3	.83	S	2	b.
Chi Yuen, str.,	30 25	122 26	.84	S/W	1	b.
Nürnberg, str.,	30 1	129 25	.84	var.	2	o.
Nanchang, str.,	29 59	122 45	.76	SW	2	...
Frigga, str.,	29 28	130 15	...	NW	2	b.
Commerzienrath Rodbertus, str.,	29 4	124 37	...	SW/W	1	c.
Ancona, str.,	28 55	125 5	.88	var.	1	b.
Taksang, str.,	28 48	122 20	...	SE	3	b.
Galveston, bk.,	25 59	120 30	...	SE	2	...
Activ, str.,	21 37	113 19	.81	S	1	c.
Emilie, bk.,	20 29	107 19	.76	SSE	2	k.
Josephus, sh.,	19 44	123 23	.68	W	5	p.
Chingtu, str.,	19 5	116 6	.84	SE	2	k.
Glenorchy, str.,	17 3	113 26	.83	W	2	k.
Doris, str.,	15 5	118 5	.78	SW	2	or.
Memnon, str.,	8 31	119 12	.81	SW	3	k.
Keemun, str.,	8 30	108 19	.83	W	4	k.
Hupeh, str.,	7 42	109 16	.87	WNW	4	or.
Cromarty, str.,	1 44	108 8	...	SE	1	b.
July 11th.						
Esang, str.,	35 55	123 4	29.74	SSW	2	k.
Yungping, str.,	35 44?	122 42?	.77	SW	2	k.
Empress of India, str.,	34 25	134 8	.74	var.	1	c.
Benlawers, str.,	33 37	129 47	.82	WSW	3	...
Catterthun, str.,	33 11	127 52	.83	NW	1	b.
Nürnberg, str.,	32 42	134 19	.71	NW	2	c.
Ancona, str.,	32 11	129 5	.83	NNW	2	b.
Frigga, str.,	32 4	133 46	...	NW/W	4	b.
Chi Yuen, str.,	31 35	121 27	.77	S	1	b.
Glenshiel, str.,	31 0	122 6	.77	...	...	...
Commerzienrath Rodbertus, bk.,	28 38	123 20	...	NE	4	...
Nanchang, str.,	26 45	121 2	.79	NE	2	k.
Taiyuan, str.,	25 27	119 59	.86	NW/W	3	b.
Fokien, str.,	25 11	121 23	.70	WNW	4	r.
Loksang, str.,	24 49	119 14	.75	NE	4	b.
Galveston, bk.,	24 27	118 55	...	NE	1	...
Torridon, str.,	22 48	116 47	.81	SE	2	...
Emilie, bk.,	19 52	106 54	.75	SSE	4	k.
Josephus, sh.,	19 4	124 56	.81	W	6	lrq.
Doris, str.,	18 0	116 5	.78	SW	...	b.
Chingtu, str.,	15 44	118 41	.85	SE	4	o.
Glenorchy, str.,	13 15	111 42	.79	S	5	o.
Phra Nang, str,	13 ...	100 47	.85	S	2	k.
Keemun, str.,	12 49	109 51	.77	E	2	c.
Memnon, str.,	11 57	119 37	.83	SW	2	o.
Hupeh str.,	10 29	110 15	.83	var.	2	or.
Cromarty, str.,	5 9	109 15	...	var.	2	b.
Footing Sucy, bk.,	3 36	105 37	.83	ESE	4	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 11th.						
Crown of Arragon, str.,	3° 21′	105° 34′	29.77	S	2	o.
July 12th.						
Nürnberg, str.,	35 5	139 39	29.67	N	1	b.
Empress of India, str.,	34 40	135 12	.77	SW	1	c.
Frigga, str.,	34 2	137 41	...	NW	5	c.
Verona, str.,	33 58	130 59	.79	NW	2	b.
Catterthun, str.,	33 47	132 20	.83	ENE	2	b.
City of Peking, str.,	33 35	136 15	.64	SW	3	...
Yung Ping, str.,	32 15?	122 15?	...	SSW	5	...
Salatiga, str.,	32 10	132 50	...	WSW	3	b.
Esang, str.,	31 53	123 3	.77	E	4	c.
Chi Yuen, str.,	31 36	121 28	.75	E	4	o.
Canton, str.,	31 25	121 47	.77	ESE	5	c.
Nanyang, str.,	31 18	121 42	.74	E	5	o.
Feichung, str.,	31 14	121 51	.78	E	5	o.
Feilung, str.,	30 48	122 11	.74	ENE	4	m.
Benlawers, str.,	30 26	126 36	.77	SE	3	...
Commerzienrath Rodbertus, bk.,	28 0?	123 15?	.29	WSW	12	orq.
Loksang, str.,	27 57	121 34	.47	NNW	8	...
Fooksang, str.,	26 8	119 39	.73	S	2	b.
Torridon, str.,	25 5	119 58	.79	SW	5	...
Nanchang, str.,	24 17	118 36	.71	SW	5	k.
Lyeemoon, str.,	23 41	117 55	.76	SW	3	c.
Galveston, bk.,	23 35	119 39	...	SW	4	...
Taiyuan, str.,	22 49	116 26	.77	WSW	3	b.
Activ, str.,	21 29	109 5	.73	SSE	3	o.
Doris, str.,	21 0	115 0	.75	SW	2	...
Emilie, bk.,	19 41	107 33	.77	S	2	k.
Josephus, sh.,	18 35	126 36	.88	S	5	o.
Keemun, str.,	17 15	111 18	.77	S	2	k.
Memnon, str.,	15 21	117 59	.82	SW	2	b.
Hūpeh, str.,	13 28	112 27	.85	SSW	2	...
Chingtu, str.,	12 15	120 56	.91	S	2	c.
Tetartos, str.,	12 0	109 24	...	SW	2	k.
Phra Nang, str.,	10 0	103 0	.89	S	3	k.
Glenorchy, str.,	9 51	109 39	.81	SW	6	k.
Cromarty, str.,	8 37	110 10	...	NW	4	o.
Crown of Arragon, str.,	6 25	107 40	.79	NNW	3	c.
Foohng Suey, bk.,	5 40	106 43	.90	S	2	or.
Cheang Hock Kian, str.,	4 0	105 28	...	NNE	3	o.
July 13th.						
Empress of India, str.,	35 26	139 39	29.76	NW	2	k.
Catterthun, str.,	34 40	135 12	.83	...	0	...
Taksang, str.,	33 1	125 47	...	SE	4	b.
City of Peking, str.,	31 40	132 0	.88	WNW	3	...
Tellus, str.,	31 2	128 4	.76	SW	5	b.
Salatiga, str.,	30 56	129 39	...	SW	2	c.
Canton, str.,	30 42	122 5?	.46	SE	9	orq.
Nanyang, str.,	30 41	122 24	.48	SE	10	orq.
Yungping, str.,	30 37?	122 4?	.41	ESE	9	orq.
Feichung, str.,	30 29	122 21	.45	SE	7-8	orq.
Feilung, str.,	30 26	122 26	.41	ESE	10	orq.
Esang, str.,	30 15	122 17	...	SSE	10	odgq.
Fooksang, str.,	29 32	122 24	.58	S	8	or.
Benlawers, str.,	28 25	123 55	.77	SSE	6	c.
Loksang, str.,	28 17	121 40	.57	SW	5	o.
Commerzienrath Rodbertus, bk.,	27 39	123 4	...	S	5	...
Lyeemoon, str.,	27 25	121 30	.66	S/W	5	og.
Torridon, str.,	26 45	123 16	.69	SW	6	...
Haitan, str.,	26 8	119 56?	.69	S	4	k.
Galveston, bk.,	23 46	118 37	...	SW	1	...
Sungkiang, str.,	22 31	115 30	.77	NNE	1	c.
Taiyuan, str.,	22 17	114 8	.74	...	0	k.
Activ, str.,	21 29	109 5	.72	SSW	2	c.
Keemun, str.,	21 17	113 44	.77	S	2	...
Emilie, bk.,	18 57	107 17	.77	SSE	2	k.
Memnon, str.,	18 41	116 5	.78	SW	3	ortl.
Josephus, sh.,	18 16	127 37	.88	SSE	2	olrq.
Hupeh, str.,	16 26	113 30	.87	S	4	or.
Cromarty, str.,	12 1	111 21	...	SSW	2	b.
Amigo, str.,	11 22	109 1	.77	N	3	k.
Crown of Arragon, str.,	9 22	109 51	.79	WSW	2	k.
Phra Nang, str.,	8 40	106 ...	.87	S	2	k.
Chingtu, str.,	8 13	121 52	.86	...	0	o.
Cheang Hock Kian, str.,	7 15	107 46	...	WNW	2	k.
Glenorchy, str.,	6 39	107 3	.85	W	2	k.
Foohng Suey, bk.,	5 55	106 52	.88	S	1	f.
Nanshan, str.,	3 50	105 38	.84	var.	1	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 14th.						
Swatow, str.,	36° 52′	123° 22′	29.69	SSE	4	...
Fuping, str.,	35 36	122 51	.69	ESE	4	...
Empress of India, str.,	35 26	139 39	.86	var.	1	c.
Nürnberg, str.,	35 1	139 32	.86	SE	1	o.
Taksang, str.,	34 2	130 41	...	var.	1	b.
Pembrokeshire, str.,	32 59	127 12	.78	W	4	c.
Loksang, str.,	31 51	123 21	.62	SW	5	k.
Lyeemoon, str.,	31 15	121 43	.66	W	6	c.
Fooksang, str.,	30 58	122 8	.65	SSW	2	b.
Verona, str.,	30 20	126 44	.86	SW	7	c.
Feichung, str.,	30 8	122 35	.76	S	6	...
Salatiga, str.,	30 5	126 27	...	SSW	6	cq.
Yungping, str.,	30 1?	122 31?	.70	S/W	6	...
Canton, str.,	29 46	122 38	.74	S	5	o.
Feilung, str.,	29 44	122 27	.73	SSE	6	b.
Nanyang, str.,	29 44	122 38	.75	S/W	5	...
Tellus, str.,	29 42	125 46	...	S	6	c.
Esang, str.,	29 36	122 28	.73	S/W	5	c.
City of Peking, str.,	29 27	127 22	.91	SW	4	...
Toonan, str.,	29 15	122 6	.73	SW	5	om.
Commerzienrath Rodbertus, bk.,	28 42	123 0	...	S	4	k.
Torridon, str.,	28 20	126 12	.94	SSE	5	...
Benlawers, str.,	26 16	120 59	.82	S	3	b.
Taisang, str.,	25 2	119 35	.77	ESE	2	...
Galveston, bk.,	23 34	117 58	...	SE	2	...
Memnon, str.,	22 3	114 20	.75	N	1	b.
Activ, str.,	20 4	110 20	.72	SE	1	b.
Hupeh, str.,	19 43	114 11	.79	SSW	2	c.
Tetartos, str.,	19 6	112 4	.75	...	0	k.
Taiyuan, str.,	18 55	116 36	.75	SW/W	5	orq.
Emilie, bk.,	18 25	107 24	.77	S	2	k.
Josephus, sh.,	16 54	127 51	.84	ENE	4	p.
Yiksang, str.,	16 51	118 26	.81	...	0	...
Cromarty, str.,	15 30	112 32	...	SE	4	or.
Amigo, str.,	15 1	109 40	.73	SW	3	...
Crown of Arragon, str.,	12 24	111 56	.77	var.	2	ortl.
Phra Nang, str.,	11 26	109 10	.81	NW	3	k.
Cheang Hock Kian, str.,	10 43	109 37	...	SW	2	orq.
Nanshan, str.,	7 33	107 43	.82	W	2	c.
Foohng Suey, bk.,	7 8	107 39	.83	S	4	orqt.
Chingtu, str.,	4 46	123 35	.87	SSE	2	k.
July 15th.						
Empress of China, str.,	37 22	144 31	29.91	E	1	c.
Hangchow, str.,	35 30	122 43	.67	S	4	o.
Loksang, str.,	35 22	122 56	.62	SW	4	c.
Nürnberg, str.,	34 13	135 0	.85	var.	1	c.
Swatow, str.,	33 50	123 34	.72	S/W	2	f.
Fuping, str.,	32 38	123 9	.77	SW	4	...
Pembrokeshire, str.,	31 18	123 47	.72	SSW	6	...
Torridon, str.,	30 20	129 57	.92	SW	4	...
Taisang, str.,	29 4	122 16	.83	SSW	4	...
Kwanglee, str.,	28 22	122 22?	.78	SW	6	...
Salatiga, str.,	28 17	123 39	...	SSW	...	c.
Tellus, str.,	27 45	123 19	...	S	5	b.
Yung Ping, str.,	27 26	121 5	...	SSW	4	...
Verona, str.,	27 24	122 58	.84	SW/S	6	c.
Feichung, str.,	27 18	120 43	.85	S	5	k.
City of Peking, str.,	27 6	122 51	.87	SW	4	...
Feilung, str.,	26 59	120 57	.82	SSW	3	b.
Toonan, str.,	26 47	120 20	.82	SSW	3	k.
Esang, str.,	26 29	120 29	.81	S/W	3	k.
Canton, str.,	26 29	120 53	.84	SSW	2	k.
Nanyang, str.,	26 26	120 38	.84	SSW	2	b.
Benlawers, str.,	23 42	118 1	.87	S	2	b.
Galveston, bk.,	23 33	117 41	...	S	1	...
Nanchang, str.,	22 14	114 23	.76	var.	2	or.
Sungkiang, str.,	21 27	118 47	.80	S	4	b.
Kwongsang, str.,	21 26	114 42	.83	S	4	c.
Activ, str.,	20 36	111 27	.72	NE	2	c.
Cromarty, str.,	18 58	113 42	...	var.	2	c.
Amigo, str.,	18 14	111 18	.74	var.	3	or.
Emilie, bk.,	17 57	107 40	.76	SSW	2	...
Josephus, sh.,	16 3	128 17	.64	S-SE	9	lq.
Crown of Arragon, str.,	15 48	114 2	...	S	4	k.
Taiyuan, str.,	15 9	118 55	.78	SSE	2	o.
Phra Nang, str.,	15 ...	110 14	.79	SE	3	k.
Cheang Hock Kian, str.,	14 47	110 34	...	SSW	2	k.
Charon Wattana, bk.,	13 15	100 37	...	SW	2	k.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	Wind. For.	Weather.
			ins.		0-12	
July 15th.						
Nanshan, str.,	11° 9′	109° 5′	29.80	NW	2	k.
Foohng Suey, bk.,	9 23	108 38	.83	SW	4	b.
Chingtu, str.,	1 12	125 32	.87	S	4	orq.
July 16th.						
Empress of India, str.,	40 27	151 8	29.76	SE	3	or.
Catterthun, str.,	34 26	134 25	.83	SW	4	b.
Torridon, str.,	32 25	133 3	.88	NW	3	...
Hangchow, str.,	31 45	123 9	.75	SW	2	k.
Swatow, str.,	30 55	123 23	.79	S	4	m.
Fuping, str.,	29 48	122 38	.79	SSW	4	m.
Ningpo, str.,	28 50	122 0	.80	SSW	4	c.
Peninsular, str.,	27 11	121 20	.77	SW	5	k.
Namoa, str.,	26 10	119 42	.80	SE	2	b.
Salatiga, str.,	25 55	120 48	...	...	0	k.
Tellus, str.,	25 34	120 24	.77	S	2	b.
Kwanglee, str.,	25 10	119 30	.76	SW	2	k.
Fokieu, str.,	25 9	121 10	.81	NNE	2	b.
Yungping, str.,	25 2	119 11	.83	S	2	...
Feilung, str.,	24 35	118 51	.84	SSW	1	b.
Feichung, str.,	24 28	118 44	.82	SW	2	k.
Verona, str.,	24 27	118 57	.80	var.	1	c.
City of Peking, str.,	24 11	118 40	.80	S	1	...
Toonan, str.,	24 0	118 10?	.81	SW	2	...
Canton, str.,	23 44	117 42	.82	...	0	...
Surat, str.,	23 42	117 56	.82	NE	1	...
Esang, str.,	23 37	117 42	.79	...	0	k.
Nanyang, str.,	23 30	117 42	.78	...	0	...
Galveston, bk.,	23 11?	117 27?	...	NE	1	...
Haitan, str.,	23 0	116 30	.81	SW	1	k.
Benlawers, str.,	22 17	114 36	.77	SE	4	...
Amigo, str.,	21 16	113 29	.77	var.	2	...
Crown of Arragon, str.,	19 34	114 2	.77	S	2	p.
Phra Nang, str.,	18 39	111 35	.76	SE	3	o.
Cheang Hock Kian, str.,	18 37	111 58	...	var.	2	o.
Sungkiang, str.,	17 39	119 29	.76	var.	4	or.
Emilie, bk.,	17 37	107 54	.79	S	2	k.
Josephus, sh.,	17 1	129 10	.80	SE	9-10	orlq.
Zafiro, str.,	16 8	118 52	.73	NW	4	or.
Nanshan, str.,	14 55	110 14	.75	SSW	2	b.
Charon Wattana, bk.,	12 46	100 31	.71	SW/W	1	...
Taiyuan, str.,	11 21	121 22	.76	SE/E	4	or.
Kutsang, str.,	5 18	106 46	.86	WNW	1	op.
July 17th.						
Empress of India, str.,	43 26	158 6	29.18	SE	6	or.
Torridon, str.,	34 26	134 8	.86	E	2	k.
Nürnberg, str.,	34 20	133 40	.83	WSW	4	c.
Catterthun, str.,	33 58	130 55	.84	SW	5	c.
Taksang, str.,	33 39	129 52	...	SW	4	b.
Sikh, str.,	33 36	129 41	.88	SW	4	...
Chi Yuen, str.,	28 53	122 15	.78	S	2	c.
Hangchow, str.,	28 5	122 5	.79	SSW	4	or.
Swatow, str.,	27 56	121 39	.79	S	2	orq.
Surat, str.,	27 39	121 21	.79	NE	3	k.
Fuping, str.,	26 55	121 9	.84	ESE	2	b
Ningpo, str.,	25 3	119 30	.78	W	4	c.
Tellus, str.,	23 33	117 41	...	SW	2	...
Salatiga, str.,	23 20	117 48	...	var.	1	k.
Galveston, bk.,	23 15	117 18	...	NE	1	...
Peninsular, str.,	23 13	117 25	.70	N	1	k.
Kwanglee, str.,	22 50	116 12	.73	var.	1	k.
Yungping, str.,	22 45	116 15	.74	S	2	k.
Feilung, str.,	22 40	115 54	.77	...	0	b.
Feichung, str.,	22 32	115 30	.76	NE	2	...
Verona, str.,	22 17	114 31	.73	ENE	3	c.
Phra Nang, str.,	21 47	113 50	.75	E	3	opq.
Zafiro, str.,	19 9	116 46	.69	N	5	b.
Mathilde, str.,	18 55	110 40	.64	S	2	...
Nanshan, str.,	18 31	111 52	.73	ENE	2	o.
Emilie, bk.,	17 30	108 53	.76	S	2	k.
Josephus, sh.,	16 36	129 20	.86	...	...	or.
Sungkiang, str.,	14 52	119 46	.67	WSW	6	orq.
Kwongsang, str.,	14 32	119 30	.66	W	6	...
Foohng Suey, bk.,	13 26	112 8	.73	SW	4	b.
Charon Wattana, bk.,	11 20	100 42	.72	WSW	2	q.
Kutsang, str.,	8 54	109 4	.82	W	2	op.
Taiyuan, str.,	6 54	122 2	.75	S	2	b.
July 18th.						
Empress of India, str.,	46 25	165 6	29.52	N/W	4	o.
July 18th.						
Catterthun, str.,	33° 36′	129° 8′	29.86	S/W	4	b.
Nürnberg, str.,	32 47	129 43	.86	SW	2	c.
Charters Tower, str.,	32 11	128 51	...	S	5	c.
Taksang, str.,	32 9	126 0	...	SW	4	c.
Sikh, str.,	31 13	125 54	.88	SW	4	...
Taisang, str.,	30 23	122 31	.82	S	4	...
Chi Yuen, str.,	26 58	120 15	.76	NE	5	o.
Swatow, str.,	25 20	119 54	.61	N	5	...
Hangchow, str.,	25 18	119 52	.62	N	4	...
Fuping, str.,	24 3	118 38	.69	NW	4	b.
Ningpo, str.,	22 56	116 28	.67	SW	1	...
Galveston, bk.,	22 42	116 32	...	SE	1	...
Fokien, str.,	22 31	114 50	.62	WNW	2	...
Nanshan, str.,	21 55	114 0	.69	NW	...	...
Activ, str.,	21 31	113 13	.70	var.	1	c.
Emilie, bk.,	17 30	110 5	.76	S	5	eq.
Josephus, sh.,	15 49	128 42	.86	SSE	3	orq.
Foohng Suey, bk.,	15 29	113 31	.73	SSW	4	b.
Kwongsang, str.,	12 51	120 32	.77	SE	5	o.
Kutsang, str.,	12 23	111 28	.76	WSW	4	b.
Charon Wattana, bk.,	9 21	102 56	.74	SSW	3	...
Taiyuan, str.,	3 7	124 15	.80	SE	4	c.
July 19th.						
Chingping, str.,	38 37	118 45	...	SE	4	k.
Kiel, str.,	36 12	122 49	...	S	4	b.
Taksang, str.,	31 5	122 6	...	SSE	5	b.
Catterthun, str.,	30 55	126 4	29.90	SSW	2	c.
Nürnberg, str.,	30 32	126 42	.87	SSW	3	c.
Charters Tower, str.,	29 53	125 59	...	SSW	5	c.
Sikh, str.,	28 40	122 27	.83	SSE	5	k.
Taisang, str.,	27 17	120 42	.68	SE/E	4	...
Chi Yuen, str.,	26 58	120 15	.68	NE	6	odq.
Yuensang, str.,	24 59	119 5	.47	N/E	6	o.
Hailoong, str.,	24 27	118 4	.45	NW	...	...
Tacoma, str.,	23 50	118 15	.54	W	2	...
Swatow, str.,	22 59	116 42	.54	SSW	5	...
Feilung, str.,	22 50?	113 35?	.64	N	2	b.
Fuping, str.,	22 30	115 19	.64	WSW	5	o.
Hsin Fung, str.,	22 26	115 41	.64	W	5	...
Galveston, bk.,	21 15	116 15	...	W/S	6	...
Activ, str.,	20 4	110 20	.62	S	3	c.
Doris, str.,	19 36	116 11	.67	SW	5	o.
Emilie, bk.,	18 46	111 34	.75	S	4	orqt.
Foohng Suey, str.,	18 17	113 55	.73	SSW	4	b.
Kutsang, str.,	16 11	113 19	.74	SW	5	c.
Josephus, sh.,	14 52	128 44	.86	E/S	2	kq.
Kwongsang, str.,	9 20	122 24	.79	SE	2	b.
Charon Wattana, bk.,	8 23	104 58	.75	SE/S	2	k.
Tailee, str.,	4 42	104 0	.81	WSW	5	k.
Lucy A. Nichols, bk.,	4 29	107 7	...	...	2	cp.
July 20th.						
Chingping, str.,	37 17	122 43	...	SE	2	or.
Kiel, str.,	33 32	122 54	...	SSE	6	...
Taksang, str.,	32 12	119 30	...	SE	5	o.
Pembrokeshire, str.,	30 31	122 29	29.63	SE	6	oq.
Catterthun, str.,	29 2	123 54	.74	SE	5	...
Charters Tower, str.,	28 1	123 20	...	SSE	8	og.
Nürnberg, str.,	27 43	123 0	.59	SE	6	opu.
Taisang, str.,	27 13	120 16	.54	E/S	4	b.
Chi Yuen, str.,	26 58	120 15	.60	ESE	6	mdq.
Yuensang, str.,	26 11	119 55	...	S	2	o.
Sikh, str.,	26 8	119 38	.68	SE	6	orq.
Hailoong, str.,	25 36	119 59	.52	SW	4	k.
Hsin Fung, str.,	24 59	119 28	.62	SW	5	b.
Manila, str.,	23 32	117 51	.63	SW	3	k.
Galveston, bk.,	21 49	114 57	...	SW	4	orq.
Activ, str.,	21 20	109 4	.63	SW	4	c.
Emilie, bk.,	20 44	113 2	.67	SSW	4	ortq.
Kutsang, str.,	20 15	113 45	.66	SW	5	b.
Doris, str.,	16 55	118 4	.78	SW	6	orq.
Josephus, sh.,	13 45	128 11	.81	ESE	3	...
Charon Wattana, bk.,	8 47	107 13	.78	S	2	k.
Tailee, str.,	8 45	102 4	.77	...	0	c.
Lucy A. Nichols, bk.,	6 25	107 7	...	SSW	5	cp.
July 21st.						
Chingping, str.,	34 29	122 48	...	SE/S	6	...
Torridon, str.,	34 27	134 5	...	...	0	...
Kiel, str.,	31 40	123 5	...	SE	8	...

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
July 21st.						
Taksang, str.,	31° 0′	117° 40′	...	SW	2	b.
Lennox, str.,	30 19	127 31	29.92	SE	4	...
Hsin Fung, str.,	28 47	122 0?	.72	SSE	4	o.
Yuensang, str.,	28 0	121 18	.68	SSE	5	o.
Manila, str.,	27 25	121 8	.69	SE/S	2	o.
Charters Tower, str.,	26 57	121 39	...	S	4	og.
Catterthun, str.,	26 50	123 8	.78	SSE	2	o.
Chi Yuen, str.,	26 28	120 15	.68	SSW	4	o.
Taisang, str.,	26 25	120 1	.63	SSW	4	o.
Nürnberg, str.,	25 43	120 29	.62	SSW	5	ou.
Yiksang, str.,	23 34	117 28	...	SW	2	or.
Galveston, bk.,	21 48	114 19	...	S	4	crq.
Activ, str.,	21 29	109 5	.58	SSW	4	c.
Peninsular, str.,	17 42	113 46	.73	SSW	6	c.
Doris, str.,	13 52	120 0	.81	SSW	2	orq.
Josephus, sh.,	13 9	128 58	.81	...	3	orq.
Tailee, str.,	12 55	100 36	.79	W	4	c.
Charon Wattana, bk.,	9 48	108 57	.79	WSW	2	orq.
Lucy A. Nichols, bk.,	7 59	107 27	...	SSW	5	o.
July 22nd.						
China, str.,	34 23	138 22	30.05	E	2	b.
Torridon, str.,	33 56?	131 45?	.04	N	1	...
Chingping, str.,	32 57	122 54	...	SE/S	5	c.
Yuensang, str.,	31 13	121 52	29.79	SE	2	k.
Kiel, str.,	30 26	122 56	...	SSE	8	...
Lyeemoon, str.,	29 56	122 40	.81	S/E	6	od.
Pembrokeshire, str.,	29 31	122 31	.81	S	6	or.
Tacoma, str.,	29 1	122 25	.82	SE	4	or.
Lennox, str.,	28 46	124 56	.92	SE/S	4	...
Sin Kolga, bk.,	27 58	122 8	...	SW	...	orq.
Catterthun, str.,	25 30	120 2	.76	SW	4	m.
Charters Tower, str.,	24 58	119 27	...	SW	2	od.
Nürnberg, str.,	23 2	116 57	.72	var.	1	oru.
Verona, str.,	22 28	115 21	.75	SW	4	opq.
Galveston, bk.,	22 10	114 40	...	SSW	4	q.
Salatiga, str.,	21 38	113 38	...	S	5	pq.
Activ, str.,	21 29	109 5	.61	SSW	5	o.
Esmeralda, str.,	20 52	115 29	.76	SSW	6	cl.
Sungkiang, str.,	15 52	119 5	.74	NW	4	c.
Peninsular, str.,	13 6	111 25	.79	SSW	6	c.
Josephus, sh.,	12 26	129 27	.86	...	3	...
Charon Wattana, bk.,	11 40	110 36	.78	SW	3	k.
Doris, str.,	10 35	121 46	.82	S	2	k.
Falls of Clyde, sh.,	5 26	106 40	...	S	3	...
July 23rd.						
Torridon, str.,	32 54	129 25	29.98	...	0	...
China, str.,	32 1	133 14	.97	N	1	b.
Tacoma, str.,	31 5	122 6	.80	SE	6	...
Chingping, str.,	30 36	121 55	...	SE	4	b.
Sin Kolga, bk.,	30 23	124 12	...	SE	4	b.
Kiel, str.,	28 53	122 15	...	S	6	orq.
Lyeemoon, str.,	27 4	121 0	.82	S/E	4	oq.
Lennox, str.,	26 40	122 2	.86	S	4	o.
Pembrokeshire, str.,	26 32	120 35	.82	S	4	od.
Verona, str.,	25 5	119 55	.83	SW	3	op.
Yiksang, str.,	24 27	118 4	...	SSW	4	o.
Hailoong, str.,	23 36?	117 46?	.82	WSW	2	k.
Nanchang, str.,	23 17?	116 47?	.75	SSW	2	k.
Charters Tower, str.,	23 14	116 48	...	...	0	o.
Catterthun, str.,	23 1	117 20	.81	var.	1	c.
Glenshiel, str.,	22 41	115 59	...	WNW	1	orq.
Nürnberg, str.,	22 13	114 23	.72	S	4-7	ourltq.
Activ, str.,	20 4	110 20	.66	SW	3	o.
Phra Nang, str.,	20 ...	112 30	.76	SW	4	b.
Salatiga, str.,	19 0	112 17	...	SSW	5	c.
Sungkiang, str.,	18 47	116 58	.78	NNE	2	c.
Esmeralda, str.,	17 15	118 6	.79	var.	2	c.
Charon Wattana, bk.,	14 1	113 10	.79	SSW	3	c.
Josephus, sh.,	12 11	129 30	.81	WSW	6-1	orq.
Lucy A. Nichols, bk.,	11 49	111 38	...	SW/S	5	or.
Peninsular, str.,	8 47	108 45	.80	SW	4	c.
Falls of Clyde, sh.,	7 41	107 4	...	var.	3	ort.
July 24th.						
Sin Kolga, bk.,	32 22	124 0	...	SE	5	k.
China, str.,	29 27	127 42	29.88	NE	4	b.
Chingping, str.,	28 53	122 15	...	S	2	k.
Verona, str.,	28 21	123 58	.84	E	3	b.
Kiel, str.,	26 23	120 31	...	SW	2	o.
July 24th.						
Pembrokeshire, str.,	25° 19′	119° 54′	29.85	S	2	k.
Lennox, str.,	24 34	119 4	.82	S	1	c.
Lyeemoon, str.,	23 56	118 9	.78	NE	1	o.
Sungkiang, str.,	21 53	114 42	.78	SSW	4	c.
Activ, str.,	20 4	110 20	.67	S	2	o.
Phra Nang, str.,	16 30	111 ...	.79	SW	3	c.
Salatiga, str.,	16 12	110 20	...	S	2	c.
Charon Wattana, bk.,	16 1	113 42	.73	SSW	1	...
Lucy A. Nichols, bk.,	13 3	113 20	...	SW	5	b.
Josephus, sh.,	11 38	130 21	.81	SSW	2	c.
Falls of Clyde, sh.,	9 38	109 30	...	SW/W	2-3	op.
Tarapaca, bk.,	7 20	118 45	.83	NW	2	k.
July 25th.						
Sin Kolga, bk.,	34 16	123 30	...	ESE	2	k.
Verona, str.,	31 34	127 58	29.84	NE/N	3	b.
Tacoma, str.,	31 15	122 50	.82	E	4	...
China, str.,	26 39	122 17	.85	E	...	b.
Chingping, str.,	26 3	120 20?	...	W	1	c.
Pembrokeshire, str.,	25 19	119 54	.75	S	2	c.
Lennox, str.,	22 30	116 2	.81	WNW	1	b.
Nanchang, str.,	20 42	115 49	.77	SSE	4	k.
Activ, str.,	20 35	111 30	.74	SSE	3	o.
Charon Wattana, bk.,	17 53	114 6	.78	SSE	2	k.
Yiksang, str.,	16 48	119 33	...	SW	2	b.
Lucy A. Nichols, bk.,	16 2	113 27	...	SSW	5	b.
Phra Nang, str.,	13 ...	110 ...	.81	S	3	b.
Salatiga, str.,	12 24	109 54	...	SW/S	4	k.
Falls of Clyde, sh.,	11 24	110 49	...	SW	2	or.
Josephus, sh.,	9 54	131 18	.85	SSW	2	c.
Tarapaca, bk.,	8 0	118 55	.83	S	3	k.
Tantalus, str.,	4 4	105 42	.81	ESE	4	k.
July 26th.						
Sin Kolga, bk.,	35 11	123 11	...	...	0	k.
Loksang, str.,	35 2	122 45	29.86	NE	2	b.
Tacoma, str.,	33 7	127 19	.87	NE	5	k.
Mogul, str.,	33 7	128 32	.87	NE	4	c.
Frigga, str.,	32 12	133 27	...	NE	4	k.
Torridon, str.,	31 11	128 12	.86	NW	1	...
Victoria, str.,	31 4	128 8	...	WNW	2	b.
Nanyang, str.,	25 7	119 47	.79	NE	6	b.
Chingping, str.,	23 33	117 41	...	W	1	k.
China, str.,	23 24	117 36	.82	N	2	...
Pembrokeshire, str.,	22 52	116 28	.81	S	2	...
Kiel, str.,	22 48	115 57	...	var.	1	...
Feilung, str.,	22 42	115 46	.82	ENE	1	b.
Charon Wattana, bk.,	19 27	114 1	.75	S	2	k.
Malacca, str.,	18 6	114 4	...	SW	1	b.
Nanchang, str.,	17 8	114 9	.79	SSW	4	...
Lucy A. Nichols, bk.,	17 0	113 0	...	...	0	b.
Falls of Clyde, sh.,	13 37	112 18	...	SSE	2	...
Kong Beng, str.,	11 9	101 46	.83	S	5	or.
Phra Nang, str.,	10 ...	108 ...	.88	SW	3	b.
Salatiga, str.,	9 12	109 11	...	SW/S	2	opq.
Tarapaca, bk.,	8 41	119 4	.88	SSW	3	k.
Josephus, sh.,	8 35	131 30	.86	SW	4	c.
Tantalus, str.,	7 48	108 15	.85	SE	2	...
Bombay, str.,	5 13	106 39	.89	SE	1	k.
George Stetson, sh.,	5 4	107 24	.93	S	2	k.
July 27th.						
Empress of China, str.,	46 29	157 26	30.07	var.	1	f.
Tamsui, str.,	40 35	122 0	29.83	SW	4	k.
Sin Kolga, bk.,	35 34	123 ...	...	WNW	2	o.
Tacoma, str.,	33 58	130 55	.82	...	...	...
Verona, str.,	33 50	132 16	.81	NE	2	b.
H.M.S. Severn,	33 33	136 41	.78	NNE	2	c.
Loksang, str.,	31 16	122 44	.82	E	2	b.
Palinurus, str.,	31 14	121 51	.85	SE	4	k.
Peiyang, str.,	31 3	122 11	.86	ESE	2	c.
Choysang, str.,	30 12	122 36	.85	S	1	k.
Mogul, str.,	29 59	124 43	.81	NE	2	k.
Torridon, str.,	29 32	125 35	.86	NNW	4	...
Victoria, str.,	29 17	125 16	...	N	2	b.
Nanyang, str.,	28 44	122 20	.84	NE	2	b.
Hsin Fung, str.,	27 49	121 33?	...	SE	2	m.
Esang, str.,	25 9	119 17	.77	NE	7	m.
Feilung, str.,	24 32	118 41	.81	NE/E	5	b.
Charon Wattana, bk.,	20 18	113 53	.80	S	1	k.
Lucy A. Nichols, bk.,	17 7	114 8	...	SSW	1	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
July 27th.						
Falls of Clyde, sh.,	15° 14′	113° 16′	...	SW	2	k.
Malacca, str.,	14 2	112 12	29.81	SW	1	...
Nanchang, str.,	13 45	112 14	...	SW/S	5	...
Tantalus, str.,	11 30	110 59	.82	SW/S	3	b.
Tarapaca, bk.,	9 28	119 37	.83	SW	4	k.
Bombay, str.,	8 50	108 54	.89	WSW	2	k.
Kong Beng, str.,	8 30	104 40	.86	SW	4	k.
Josephus, sh.,	8 5	131 20	.86	SSW	3	c.
Phra Nang, str.,	6 30	107 ...	.91	SW	3	b.
George Stetson, sh.,	6 14	107 46	.93	S	2	k.
July 28th.						
Empress of China, str.,	43 9	150 28	29.56	SE	4	f.
Tamsui, str.,	37 34	121 32	.80	S	2	k.
Sin Kolga, bk.,	37 15	122 40	...	W	3	k.
H.M.S. Severn,	31 4	131 36	.84	...	0	b.
Ancona, str.,	30 19	126 15	.82	N	1	k.
Frigga, str.,	28 10	126 55	...	NNW	3	b.
Peiyang, str.,	27 52	121 30	.88	SSE	2	c.
Loksang, str.,	27 51	121 32	.83	E	3	b.
Palinurus, str.,	27 31	121 26	.87	E	2	k.
Torridon, str.,	27 41	122 58	.87	E	2	...
Empress of Japan, str.,	27 18	121 7	.86	NE	2	m.
Victoria, str.,	27 10	122 22	...	N	2	...
Choysang, str.,	26 55	120 43	.83	ENE	2	...
Mogul, str.,	26 53	121 20	.83	N	2	...
Feilung, str.,	25 55	119 48	.81	NE	6	m.
Hsin Fung, str.,	24 30	118 42?	.78	SE	4	...
Activ, str.,	21 30	113 12	.80	SSE	3	c.
Charon Wattana, bk.,	21 29	113 51	.77	var.	2	...
Kutsang, str.,	19 15	112 10	.78	S	2	b.
Lucy A. Nichols, bk.,	17 48	114 24	...	...	0	b.
Falls of Clyde, sh.,	16 14	114 0	...	W	1	k.
Bombay, str.,	12 27	111 14	.81	SW	2	k.
Tarapaca, bk.,	10 47	120 10	.83	WSW	2	ou.
Nanchang, str.,	10 38	110 37	.80	SW/S	5	...
Kong Beng, str.,	10 27	108 2	.84	WSW	4	b.
Malacca, str.,	10 14	110 12	.82	SW	3	b.
Changsha, str.,	8 21	121 49	.84	N	2	b.
George Stetson, sh.,	8 2	108 36	.88	SW/S	5	k.
Josephus, sh.,	7 47	130 40	.85	S	3	o.
July 29th.						
Empress of India, str.,	40 29	147 0	29.86	SW	2	b.
Sin Kolga, bk.,	38 36	120 0	...	SW	3	cm.
Tamsui, str.,	37 34	121 32	.78	ENE	2	k.
Empress of Japan, str.,	31 20	121 41	.84	var.	1	c.
H.M.S. Severn,	28 45	126 13	.88	var.	1	c.
Feilung, str.,	28 43	121 49	.88	ENE	1	b.
Ancona, str.,	27 15	122 20	.81	ESE	3	k.
Frigga, str.,	26 46	123 8	...	ESE	4	c.
Palinurus, str.,	26 8	119 38	.76	ENE	5	k.
Torridon, str.,	25 55	120 19	.78	NE	5	...
Victoria, str.,	25 24	119 42?	...	NE	5	...
Loksang, str.,	24 33	118 51	.63	NNE	7	og.
Peiyang, str.,	24 26	118 29	.70	NNE	4	o.
Choysang, str.,	23 40?	117 40?	.72	N	2	o.
Mogul, str.,	23 39	117 53	...	N	5	og.
Taisang, str.,	23 23	117 7	.73	NE/N	3	o.
Ningpo, str.,	23 23	117 7	.72	ENE	3	o.
Ravenna, str.,	22 33	115 35	.72	SE	2	o.
Hsin Fung, str.,	22 19	115 8	.72	WNW	5	c.
Tantalus, str.,	20 10	114 2	.75	N	2	b.
Lucy A. Nichols, bk.,	18 5	114 7	...	S	2	b.
Falls of Clyde, sh.,	16 52	114 9	...	ENE	2	...
Bombay, str.,	16 5	112 57	.78	WNW	2	k.
July 29th.						
Kutsang, str.,	15° 34′	110° 10′	29.78	S	1	b.
Kong Beng, str.,	13 56	110 6	...	SW	5	c.
Changsha, str.,	12 18	120 55	.82	var.	2	orq.
Tarapaca, bk.,	11 22	119 51	.84	W	5	or.
Kwongsang, str.,	10 32	121 46	.82	NW	2	k.
George Stetson, sh.,	10 31	110 14	.83	WSW	6	o.
Nanchang, str.,	7 16	108 34	.84	SW/W	5	k.
Josephus, sh.,	7 14	130 50	.85	SW	1	orq.
Malacca, str.,	6 20	107 39	.87	SW	4	c.
July 30th.						
Sin Kolga, bk.,	38 46	119 40	...	WSW	var.	tlq.
Empress of China, str.,	38 11	141 25	29.84	...	0	b.
Tamsui, str.,	34 57	122 44	.82	SSW	4	b.
Verona, str.,	34 44	139 9	.87	N	3	c.
H.M.S. Caroline,	33 48	137 13	.84	SW/W	1	c.
H.M.S. Imperieuse,	32 40	134 44	.87	SW	1	c.
Feilung, str.,	32 11?	119 50?	.85	SE	1	b.
Empress of Japan, str.,	31 40	124 48	.86	SE	3	k.
Malwa, str.,	27 13	121 2	.66	ESE	7	...
H.M.S. Severn,	26 0	121 20	.66	SE	8	orq.
Frigga, str.,	25 26	120 6	...	S/W	5	o.
Taisang, str.,	25 24	119 41	.57	var.	3-6	orq.
Ravenna, str.,	25 7	119 42	.59	NW	4	omr.
Ningpo, str.,	24 45?	119 10?	.64	W	1	orq.
Ancona, str.,	24 9	118 28	.66	SW	3	k.
Torridon, str.,	23 46	117 56	.69	SW	5	...
Thales, str.,	23 33	119 30	...	SSW	4	o.
Victoria, str.,	23 26	117 28	...	SW	...	...
Peiyang, str.,	22 24	114 40	.75	WSW	4	c.
Activ, str.,	21 29	109 5	.73	E	3	o.
Bombay, str.,	19 52	113 40	.76	SW	3	c.
Lucy A. Nichols, bk.,	18 48	114 0	...	SW	2	b.
Falls of Clyde, sh.,	17 50	114 8	...	...	0	...
Kong Beng, str.,	17 44	111 21	.76	var.	1	...
Changsha, str.,	16 2	118 28	.79	WSW	2	o.
Kwongsang, str.,	13 53	119 55	.79	E	4	o.
George Stetson, sh.,	13 1	112 24	.83	W	4	k.
Tarapaca, bk.,	12 13	120 15	.85	SW	4	o.
Kutsang, str.,	11 25	109 14	.76	SW	5	c.
Josephus, sh.,	6 53	131 51	.85	SW	1	orq.
Nanchang, str.,	4 7	106 22	.81	SSW	5	k.
July 31st.						
Esang, str.,	34 45	122 45	29.76	E	1	k.
H.M.S. Caroline,	32 2	133 48	.79	NW	3	...
Tamsui, str.,	31 30	122 52	.76	S	5	...
H.M.S. Imperieuse,	30 3	129 18	.94	SW/W	2	cp.
Ravenna, str.,	29 48	122 35	.71	S	7	...
Taisang, str.,	28 28	121 49	.77	SE	5	o.
Canton, str.,	28 28	121 53	.71	SSE	6	...
Ningpo, str.,	28 23	121 56?	.75	S	6	or.
Malwa, str.,	25 46	120 1	.79	S/W	5	k.
H.M.S. Severn,	23 27	118 3	.84	S	3	c.
Frigga, str.,	23 13	117 24	...	...	0	...
Torridon, str.,	22 29	115 23	...	S	1	...
Kong Beng, str.,	21 12	113 31	.78	var.	...	k.
Changsha, str.,	19 44	116 8	.81	SE	2	k.
Falls of Clyde, sh.,	19 5	114 14	...	var.	2	k.
Kwongsang, str.,	16 57	117 32	.82	SSW	2	b.
George Stetson, sh.,	15 10	113 0	.83	W/S	2	o.
Yiksang, str.,	14 35	120 59	...	SW	2	b.
Tarapaca, bk.,	12 54	119 27	.85	SW	4	pq.
Kutsang, str.,	7 57	107 44	.88	WNW	6	orq.
Josephus, sh.,	5 27	132 50	.91	SW	3	orq.

AUGUST, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 1st.						
Yuensang, str.,	39° 53′	121° 23′	29.67	SW	2	k.
Empress of Japan, str.,	34 19	133 25	.77	SW	2	k.
Tsinan, str.,	32 38	128 1	.77	WSW	4	o.
H.M.S. Caroline,	30 47	130 28	.83	NW/W	2-5	crq.
Tamsui, str.,	29 1	122 21	.73	SSW	4	...
H.M.S. Imperieuse,	27 12	124 41	.84	SW	4	c.
Canton, str.,	26 23	120 1	.77	SSW	5	...
Palinurus, str.,	26 0	119 50	.77	SW	4	...
Malwa, str.,	23 3	116 48	.82	SE	2	k.
Activ, str.,	21 29	109 5	.76	S	3	o.
August 1st.						
Falls of Clyde, sh.,	20° 26′	114° 8′	...	var.	2	k.
Kwongsang, str.,	20 3	116 0	29.80	SSW	4	k.
Yiksang, str.,	16 52	118 12	...	SSW	2	...
George Stetson, sh.,	16 51	113 36	.83	S	2	k.
Tarapaca, bk.,	13 30	117 52	.87	SW	2	...
Doris, str.,	11 50	121 10	.84	...	0	...
Shantung, str.,	6 58	109 31	.87	SW	5	o.
Josephus, sh.,	4 12	132 51	.91	ESE	3	c.
Kutsang, str.,	4 11	106 8	.91	SW	2	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 2nd.						
Empress of Japan, str.	34° 31′	135° 10′	29.75	SW	2	o.
Kwanglee, str.,	30 12	122 36	.66	SW	4	b.
Tsinan, str.,	30 5	125 16	.67	SW	5	k.
H.M.S. Caroline,	29 53	128 5	.67	SW/W	6	opq.
Tamsui, str.,	26 40	120 44	.72	SSW	5	...
H.M.S. Imperieuse,	24 27	119 45	.82	S	2	c.
Canton, str.,	23 47	117 45	.79	WSW	4	p.
Palinurus, str.,	23 32	117 56	.80	SSW	2	o.
Falls of Clyde, sh.,	21 21	114 7	...	var.	1	k.
Yiksang, str.,	20 7	116 0	...	var.	2	op.
Activ, str.,	20 4	110 20	.75	SSE	2	c.
Nizam, str.,	18 55	112 10	.78	SSW	2	...
George Stetson, sh.,	18 29	114 14	.83	S/E	4	c.
Catherine Apcar, str.,	18 21	114 3	.85	SSE	4	k.
Esmeralda, str.,	16 30	118 47	.86	NE	2	o.
Tarapaca, bk.,	14 8	116 28	.83	SSW	2	...
Doris, str.,	13 40	119 22	.86	S	5	...
Shantung, str.,	9 53	110 39	.87	SW	5	o.
Moray, str.,	5 22	106 45	.87	SW	4	...
Josephus, str.,	3 15	132 33	.90	SE	3	c.
August 3rd.						
Empress of Japan, str.,	35 26	139 39	29.90	N	2	o.
Yuensang, str.,	35 21	122 35	.50	SW	5	o.
Nanyang, str.,	30 20	122 36	.63	SW	4	...
H.M.S. Caroline,	29 25	125 39	.81	SW/W	3	eq.
Tsinan, str.,	27 50	122 35	.71	SW	5	...
Kwanglee, str,	27 0?	120 45?	.69	SW	7	...
Tamsui, str.,	24 23	118 38	.78	S	5	...
Bombay, str.,	24 1	118 26	.83	S	2	o.
Sikh, str.,	23 25	117 52	.87	SSW	2	c.
Chi Yuen, str.,	22 40	115 30	.83	S	2	op.
Changsha, str.,	22 28	115 22	...	...	4	c.
H.M.S. Imperieuse,	22 16	114 42	.82	...	0	egp.
Palinurus, str.,	22 14	114 26	.79	SW	2	p.
Taiyick, str.,	21 42	113 48	.80	SW	...	or.
George Stetson, sh.,	20 39	114 0	.83	S/W	4	c.
Esmeralda, str.,	20 6	116 23	.83	SSW	2	od.
Activ, str.,	20 4	110 20	.71	N	2	c.
Doris, str.,	17 16	117 24	.82	S	5	k.
Nizam, str.,	15 36	110 44	.81	S/W	4	...
Tarapaca, bk.,	15 4	114 42	.85	SSW	5	cp.
Catherine Apcar, str.,	14 46	112 22	.84	S	4	pq.
Shantung, str.,	12 57	112 11	.80	SSW	2	k.
Moray, str.,	8 43	108 56	.87	SW/S	3	o.
Josephus, sh.,	3 17	132 48	.90	var.	2	orq.
August 4th.						
Empress of China, str.,	31 35	124 59	29.72	SW	6	k.
Yuensang, str.,	31 14	122 22	.60	SW	5	o.
Taisang, str.,	30 27	122 28	.60	SW	3	k.
H.M.S. Caroline,	28 36	123 46	.70	SW	3-6	eq.
Nanyang, str.,	28 2	121 39	.68	SW	5	bm.
Bombay, str.,	27 43	121 24	.72	SW	5	c.
Tsinan, str.,	25 46	120 8	.79	SW	5	op.
Changsha, str.,	25 4	119 42	.82	SW	4	o.
Chi Yuen, str.,	24 53	118 58	.84	S	3	o.
Kwanglee, str.,	24 20?	118 38?	.79	SW	4	o.
Tamsui, str.,	22 34	115 45	.80	SW	4	o.
Nürnberg, str.,	22 33	115 41	.79	S	3	o.
George Stetson, sh.,	22 25	114 52	.83	SW	2	c.
Activ, str.,	20 40	111 38	.75	SSE	3	c.
Taiyick, str.,	18 55	111 57	.78	SSE	5	b.
Tarapaca, bk.,	16 59	113 57	.81	S	5	op.
Shantung, str.,	16 36	113 33	.79	S	4	pq.
Moray, str.,	12 24	111 30	.85	SW/S	4	k.
Nizam, str.,	11 56	110 22	.86	SW	4	...
Catherine Apcar, str.,	11 28	110 49	.86	WSW	6	...
Phra Nang, str.,	7 ...	103 ...	.99	N	2	b.
Josephus, sh.,	3 0	133 14	.95	ENE	1	orq.
August 5th.						
Esang, str.,	39 0	117 20?	29.71	...	0	b.
Frojner, str.,	36 22	123 1	..	N	4	c.
Verona, str.,	35 10	139 42	.90	SW	3	b.
Bombay, str.,	31 6	122 3	.64	S	3	c.
Taksang, str.,	28 39	121 59	...	SW/S	6	c.
Yuensang, str.,	28 17	121 38	.71	SSW	6	g.
Chi Yuen, str.,	28 8	121 53	.75	SW	6	o.
Taisang, str.,	27 31	120 55	.69	SSW	6	...
H.M.S. Caroline,	27 18	122 31	.65	SW/S	6	eq.
August 5th.						
Nürnberg, str.,	25° 31′	120° 30′	29.78	SSW	4	c.
Nanyang, str.,	25 10	119 45	.77	SSW	5	b.
Ancona, str.,	23 31	117 54	.78	SSW	2	ogp.
Tsinan, str.,	23 4	117 8	.78	WSW	2	op.
Kwanglee, str.,	22 31	115 10	.75	var.	...	orq.
George Stetson, sh.,	22 25	114 44	.83	SSW	1	c.
Shantung, str.,	20 6	113 58	.77	S	5	pq.
Tarapaca, bk.,	19 27	113 25	.81	S	4	op.
Moray, str.,	16 17	113 4	.77	S	3	c.
Taiyick, str.,	16 6	111 16	.74	S	4	b.
Phra Nang, str.,	11 ...	101 30	.89	NW	3	or.
Nizam, str.,	8 30	109 15	.92	WSW	3	...
Catherine Apcar, str.,	7 33	108 32	.87	WSW	2	k.
Cardiganshire, str.,	4 40	106 7	...	SW	2	b.
Hongay, str.,	4 0	108 55	.80	N/E	4	c.
Josephus, sh.,	2 30	134 12	.91	SSW	3	c.
August 6th.						
Esang, str.,	37 44	121 14	29.77	S	1	b.
Verona, str.,	34 0	135 2	.97	S/E	3	b.
Frojner, str.,	32 42	122 52	...	...	0	k.
Manila, str.,	30 36	122 24	.87	SE	3	b.
Kiel, str.,	28 23	122 7	...	S	5	b.
Nürnberg, str.,	27 57	125 24	.91	SSE	1	c.
Empress of China, str.,	27 28	121 20	.83	SSW	2	k.
Ancona, str.,	26 38	121 59	.88	ESE	2	b.
Taksang, str.,	26 7	120 30	...	SW/S	2	cm.
Yuensang, str.,	25 29	120 5	.90	SW	2	k.
H.M.S. Caroline,	25 14	120 6	.87	SW	2	c.
Nanyang, str.,	22 44	116 10	.83	SSW	2	b.
Tarapaca, bk.,	21 27	113 34	.83	S	4	p.
Moray, str.,	20 8	113 43	.80	S/E	4	...
Taiyick, str.,	12 36	109 28	.77	SSW	5	b.
Amoy, str.,	12 33	120 46	.85	var.	2	...
Cardiganshire, str.,	8 5	108 11	...	SW	2	b.
Hongay, str.,	8 1	109 14	.81	W	...	c.
Nizam, str.,	5 28	106 43	.92	SW	1	...
Catherine Apcar, str.,	3 40	105 50	.88	S	2	k.
Josephus, sh.,	2 30	134 14	.91	SSW	1	p.
August 7th.						
Esang, str.,	34 58	122 40	29.93	ESE	2	c.
Charters Tower, str.,	32 7	129 1	...	...	2	...
Kiel, str.,	31 38	123 5	...	SSE	4	k.
Nürnberg, str.,	30 42	130 21	.97	NE	3	c.
Frojner, str.,	29 33	123 17	...	SE	2	...
Ancona, str.,	29 32	125 56	.98	ENE	4	cp.
Manila, str.,	26 42	120 41	.97	...	0	k.
Taksang, str.,	23 34	117 35	...	var.	1	k.
Empress of China, str.,	23 19	117 30	.90	SW	1	b.
H.M.S. Caroline,	23 18	117 27	.93	...	0	c.
Yuensang, str.,	23 2	117 8	.89	SW	1	...
Yiksang, str.,	19 31	116 29	.91	SE	2	...
Amoy, str.,	15 32	118 39	.90	var.	2	q.
Hongay, str.,	11 50	111 13	.81	SSW	4	c.
Cardiganshire, str.,	11 7	110 20	...	SW	3	b.
Josephus, sh.,	2 28	133 31	.88	SSE	1	...
August 8th.						
Kiel, str.,	34 43	122 55	...	W	4	...
Benlawers, str.,	33 51	129 12	...	...	0	...
Nürnberg, str.,	33 19	135 37	29.94	var.	1	c.
Esang, str.,	31 27	121 33	.94	SSE	3	o.
Charters Tower, str.,	29 40	125 50	...	E	2	b.
Frojner, str.,	26 41	121 2	...	NE	5	k.
Taisang, str.,	25 20	119 51	.92	NE	3	...
Peiyang, str.,	23 15	117 18	...	NE	1	c.
Activ, str.,	21 30	113 11	.92	var.	1	c.
Esmeralda, str.,	20 38	115 30	.86	NE/N	2	c.
Amoy, str.,	18 8	116 27	.84	N	4	b.
Yiksang, str.,	16 25	119 15	.89	NE	2	...
Hongay, str.,	15 30	113 20	.80	NNE	2	c.
Cardiganshire, str.,	14 38	112 31	...	var.	2	b.
Peshawur, str.,	4 26	105 45	.95	NE N	2	c.
Josephus, sh.,	1 48	132 40	.91	SE	1	k.
August 9th.						
Kiel, str.,	37 24	122 43	...	NNW	2	o.
Swatow, str.,	36 0	122 42	29.91	W	2	o.
Fuping, str.,	35 32	122 18	.87	SSW	4	o.
Ancona, str.,	33 58	130 52	.89	var.	1	b.
Verona, str.,	33 49	131 29	.92	E	2	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 9th.						
Esang, str.,	31° 17′	121° 10′	29.84	SSE	3	c.
Fushun, str.,	31 11	121 58?	.88	SE	2	b.
Lennox, str.,	31 10	127 37	.91	SE	2	c.
Benlawers, str.,	29 53	125 50	...	E	2	b.
Charters Tower, str.,	27 11	122 42	...	E	4	...
Peiyang, str.,	26 7	120 5	.85	NNE	4	crq.
Frojner, str.,	24 24	118 51	...	NE	5	k.
Manila, str.,	22 28	115 18	.75	...	0	b.
Amoy, str.,	21 8	114 35	.81	N	2	...
Hongay, str.,	19 27	114 29	.77	N	4	cp.
Cardiganshire, str.,	18 42	113 30	...	N	4	b.
Esmeralda, str.,	16 50	118 15	.78	SE	4	k.
Peshawur, str.,	8 40	108 27	.93	W	2	k.
Josephus, sh.,	1 33	132 0	.88	E	1	k.
August 10th.						
Ancona, str.,	34 37	135 8	29.89	var.	1	c.
Swatow, str.,	32 34	123 31	.87	SW	2	b.
Fuping, str.,	31 51	122 50	82	ESE	4	k.
Chi Yuen, str.,	31 35	121 27	.85	SE	3	b.
Choysang, str.,	31 35	121 27	.79	ESE	5	b.
Esang, str.,	31 17	121 10	.87	SSE	2	b.
Peiyang str.,	29 25	122 12	.80	E N	4	c.
Lennox, str.,	28 38	123 59	.75	E	6	orq.
Fushun, str.,	27 37	121 12	.70	NE	4	p.
Ningpo, str.,	27 26	121 5	.73	NW	6	crq.
Charters Tower, str.,	24 54	119 24	...	var.	2	b.
Frojner, str.,	22 30	115 49	...	NW	2	b.
Activ, str.,	21 28	109 1	.77	W	2	c.
Esmeralda, str.,	14 35	120 58	.78	W	4	c.
Peshawur, str.,	13 11	111 30	.86	N	2	k.
Josephus, sh.,	0 50	130 24	.88	var.	4	orq.
August 11th.						
Nürnberg, str.,	35 4	139 36	29.90	E	1	b.
Ancona, str.,	34 40	135 11	.86	SSE	1	b.
Chi Yuen, str.,	31 17	121 45	.62	ENE	7	orq.
Swatow, str.,	30 23	123 6	.61	E	6	q.
Verona, str.,	30 23	126 21	.77	SSE	6	cq.
Choysang, str.,	30 15	122 15	.45	SE	4	orq.
Lennox, str.,	26 6	120 36	.67	SW	2	b.
Benlawers, str.,	24 32	119 5	...	S	2	b.
Fushun, str.,	24 28	118 31	.73	SW	2	b.
Ningpo, str.,	24 26	118 29	.69	SW/S	3	b.
Tellus, str.,	23 15	117 18	...	SE	2	b.
Charters Tower, str.,	22 53	116 23	...	WSW	2	k.
Activ. str.,	21 29	109 5	.72	WSW	2	c.
Peshawur, str.,	17 50	113 48	.78	NNW	2	k.
Josephus, sh.,	0 20	130 14	.85	SW	3	k.
August 12th.						
Esang, str.,	34 46	122 43	29.79	SE E	4	c.
Feichung, str.,	34 40	135 12	.92	ESE	2	o.
Nürnberg, str.,	34 11	135 0	.87	NE	2	c.
Ancona, str.,	34 8	138 8	.87	NE	4	c.
Changsha, str.,	30 22	122 35	.68	SSE	5	k.
Chi Yuen, str.,	30 12	122 36	.73	SSE	4	c.
Fuping, str.,	29 49	122 35	.73	SSE	6	...
Swatow, str.,	27 40	121 32	.75	SSW	2	b.
Verona, str.,	27 27	122 22	.72	SE/S	4	b.
Tellus, str.,	25 59	121 5	...	SE	2	k.
Lennox, str.,	23 28	123 50	.67	...	0	b.
Peshawur, str.,	22 36	115 38	.74	...	...	c.
Benlawers, str.,	22 28	122 52	...	WSW	2	b.
Activ, str.,	20 4	110 20	.70	var.	1	k.
H.M.S. Pigmy,	12 48	100 45	.83	WSW	1	c.
August 13th.						
Ancona, str.,	35 25	139 39	29.91	E	1	b.
Feichung, str.,	33 44	131 57	.89	ENE	2	c.
Asagao, str.,	30 16	126 42	.69	SE	...	o.
Surat, str.,	29 38	122 25	.74	S	3	k.
Tellus, str.,	28 50	124 30	...	E	3	b.
Chi Yuen, str.,	27 0	120 42	.70	NNE	2	c.
Fuping, str.,	26 43	120 47	.69	NE	2	o.
Swatow, str.,	24 47	119 19	.73	NW	3	b.
Verona, str.,	24 16	118 38	.67	N	3	b.
Menmuir, str.,	22 15	114 26	...	var.	...	...
Manila, str.,	21 4	114 12	.67	W	2	b.
Activ, str.,	20 36	111 34	.68	ESE	2	c.
H.M.S. Pigmy,	10 59	102 47	.82	WSW	4	cq.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 13th.						
Adolph, bk.,	4° 0′	106° 50′	29.85	S/W	4	c.
Nanchang, str.,	3 33	105 38	.86	SSW	1	k.
August 14th.						
Ancona, str.,	35 25	139 39	29.95	NNE	2	c.
Tellus, str.,	31 17	127 53	...	NE	5	orq.
Asagao, str.,	28 5	123 17	.62	SE	...	c.
Surat, str.,	25 30	120 0	.71	NE	3	k.
Chi Yuen, str.,	24 26	118 29	.69	NNE	3	c.
Fuping, str.,	24 1	118 12	.71	N	3	c.
Menmuir, str.,	23 35	117 49	.72	N	2	k.
Swatow str.,	22 49	116 24	.74	NW	2	b.
Verona, str.,	22 15	114 15	.70	ENE	2	k.
Yiksang, str.,	17 11	118 4	.70	var.	1	...
Manila, str.,	16 36	113 15	.72	SE	1	b.
H.M.S. Pigmy,	8 35	104 37	.82	WSW	4	cpq.
Phra Nang, str.,	8 30	105 30	.83	var.	2	or.
Adolph, bk.,	7 0	107 47	.83	SW	4	o.
Nanchang, str.,	6 57	107 40	.79	SW	4	...
Hankow, str.,	4 15	105 46	.81	SE	4	k.
August 15th.						
Ancona, str.,	35 25	139 39	29.82	N	1	c.
Nürnberg, str.,	33 50	131 24	.73	SE	1	c.
Menmuir, str.,	26 5	120 52	.72	NNE	4	k.
Peshawur, str.,	25 37	120 9	.75	NNE	2	k.
Asagao, str.,	25 1	120 8	.70	W	2	k.
Kitty, bk ,	23 56	175 51	...	NE	...	k.
Surat, str.,	22 34	115 53	.75	NE	3	orqtl.
Fuping, str.,	22 19	114 55	.70	var.	2	k.
Yiksang, str.,	20 15	115 44	.74	...	0	...
Esmeralda, str.,	16 27	118 39	.74	SW	2	k.
Manila, str ,	12 39	111 20	.72	SW	3	o.
Phra Nang, str.,	11 ...	109 ...	.85	W	3	o.
Nanchang, str.,	10 18	110 2	.77	WSW	4	...
Adolph, bk.,	10 16	109 30	.79	W	4	o.
Taiyick, str.,	10 14	107 5	.76	SW	4	orq.
Phra Chom Klao, str.,	9 49	102 48	.79	WSW	6	q.
Hankow, str.,	7 9	108 6	.82	SW	5	pq.
Daphne, str.,	3 1	105 19	...	S	2	b.
August 16th.						
Ancona, str.,	35 25	139 39	29.63	NW	3	orq.
Peshawur, str.,	30 6	122 37	.76	N	1	k.
Freeman, bk.,	29 5	122 56	.88	...	0	...
Menmuir, str.,	28 47	123 39	.75	NNE	2	...
Nanyang, str.,	24 55	119 31	.77	S	2	b.
Kitty, bk.,	24 11	172 43	...	NE	4	b.
Taisang, str.,	23 20	116 43	.77	var.	...	b.
Yuensang, str.,	23 8	117 14	.77	NE	3	o.
Asagao, str.,	22 56	116 54	.78	S	...	b.
Activ, str.,	21 27	113 10	.77	var.	1	o.
Esmeralda, str.,	19 48	116 9	.77	var.	2	cg.
Memnon, str.,	19 ...	115 ...	.77	SW	4	orq.
Phra Nang, str.,	14 30	110 ...	.77	var.	2	b.
Nanchang, str.,	13 46	112 27	.75	SW	2	...
Adolph, bk.,	12 42	111 21	.81	SW/S	4	c.
H.M.S. Pigmy,	10 47	106 42	.81	WSW	2	c.
Hankow, str.,	9 50	110 36	.82	SSW	4	og.
Manila, str.,	9 2	109 28	.83	SW/S	4	o.
Phra Chom Klao, str.,	8 50	106 23	.80	SW	5	or.
Taiyick, str.,	6 53	107 11	.86	SW	4	orq.
Daphne, str.,	6 21	107 34	.84	SW	2	...
Oanfa, str.,	4 29	106 1	.90	SSE	2	o.
August 17th.						
Esang, str.,	37 46	121 36	29.79	NE/N	3	b.
Ancona, str.,	35 25	139 39	.76	SSW	2	c.
Feichung, str.,	33 55	129 40	.62	N	5	b.
Menmuir, str.,	31 14	126 30	.74	NW	4	k.
Nürnberg, str.,	29 41	125 45	.72	NNW	2	c.
Nanyang, str.,	28 35	122 9	.77	SW	2	...
Freeman, bk.,	28 6	123 15	.77	WSW	3	...
Yuensang, str.,	25 23	121 13	.76	SW	3	k.
Taisang, str.,	25 4	119 35	.77	S	2	b.
Sungkiang, str.,	22 19	114 26	.74	E	2	k.
Cape Colonna, str.,	21 38	113 19	.83	W	2	op.
Activ, str.,	20 9	110 22	.76	var.	2	o.
Phra Nang, str.,	18 ...	111 ...	.78	var.	2	b.
Nanchang, str.,	17 17	114 2	.79	var.	2	...
Adolph, bk.,	14 49	113 1	.81	SSW	2	b.
Hankow, str.,	13 32	111 50	.81	S/W	2	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 17th.						
Phra Chom Klao, str.,	11° 55′	109° 21′	29.79	SSW	6	b.
Kong Beng, str.,	10 49	102 4	.80	SW	5	...
H.M.S. Pigmy,	10 47	106 42	.80	W	2	cp.
Daphne, str.,	9 19	109 44	.84	W	2	...
Oanfa, str.,	8 1	108 40	.88	SSW	3	c.
Manila, str.,	5 15	106 55	.86	W/N	4	orq.
Taiyick, str.,	3 28	106 34	.86	SW	1	b.
August 18th.						
Ancona, str.,	35 25	139 39	29.66	SSE	4	orq.
Esang, str.,	33 48	122 33	.78	NE	2	o.
Menmuir, str.,	33 38	129 47	.78	var.	4	b.
Feichung, str.,	32 9	125 36	.80	WSW	2	c.
Taisang, str.,	28 47	122 5	.80	S	2	b.
Freeman, bk.,	28 11	122 35	.73	S	2	c.
Oldenburg, str.,	27 35	121 43	.79	S	2	k.
Nürnberg, str.,	26 35	121 49	.76	SW	2	c.
Phra Nang, str.,	21 30	113 30	.74	var.	2	b.
Activ, str.,	21 29	109 5	.79	var.	1	o.
Nanchang, str.,	21 26	114 14	.75	var.	4	p.
Cape Colonna, str.,	20 11	110 10	.77	SSW	2	b.
Hankow, str.,	17 19	113 30	.82	SSW	4	k.
Adolph, bk.,	16 38	114 8	.83	SSW	2	c.
Phra Chom Klao, str.,	15 55	110 9	.82	SW	1	k.
Daphne, str.,	12 33	111 40	.80	SSW	2	...
Oanfa, str.,	11 49	111 4	.86	SW	4	c.
Memnon, str.,	11 ...	118 ...	.77	...	0	or.
Kong Beng, str.,	8 23	104 57	.82	WNW	4	k.
August 19th.						
Empress of India, str.,	41 33	148 15	29.64	SW	7	...
Ancona, str.,	35 25	139 39	.72	SSW	3	og.
Kiel, str.,	34 13	123 8	...	NNE	5	...
Menmuir, str.,	34 11?	133 18?	.84	var.	4	k.
Feichung, str.,	31 35	121 27	.89	E	2	o.
Peiyang, str.,	31 23	121 31	.89	NE	3	o.
Yuensang, str.,	29 9	129 35	.84	ENE	2	p.
Bombay, str.,	29 3	122 32	.84	SE	1	orq.
Freeman, bk.,	28 1	122 33	...	S	2	p.
Oldenberg, str.,	23 43	118 10	.78	SE	3	op.
Nürnberg, str.,	23 37	117 53	.74	ESE	2	cd.
Verona, str.,	22 30	115 24	.71	E/N	4	orq.
Activ, str.,	21 29	109 5	.70	WSW	1	o.
Phra Chom Klao, str.,	19 36	112 19	.73	NW	3	oq.
Hankow, str.,	19 29	113 37	.72	var.	1	orq.
Adolph, bk.,	18 43	114 8	.73	SW	1	c.
Daphne, str.,	16 0	113 20	.72	SSW	2	...
Oanfa, str.,	15 52	113 30	.79	SSW	4	o.
H.M.S. Pigmy,	11 40	109 11	.77	WSW	1	c.
Kong Beng, str.,	10 45	108 17	.78	NW	2	o.
Canton, str.,	9 19	109 0	.76	SW/S	3	o.
Tailee, str.,	1 6	108 15	.89	S/E	4	c.
August 20th.						
Empress of India, str.,	38 22	141 57	30.00	W/S	4	c.
Ancona, str.,	34 33	138 38	29.93	E	4	o.
Yuensang, str.,	31 41	133 29	.86	SE	2	p.
Paoting, str.,	31 37	122 21	.86	E	5	or.
Kiel, str.,	31 1	122 41	...	NE	5	or.
Peiyang, str.,	28 6	121 31	.82	WSW	2	c.
Freeman, bk.,	27 49	122 3	...	...	0	...
Bombay, str.,	25 36	120 10	.86	SW	1	k.
Verona, str.,	25 7	119 46	.83	N	3	b.
Yiksang, str.,	23 1	116 47	.81	ESE	2	...
Nanchang, str.,	22 26	115 4	.75	ESE	5	orq.
Sungkiang, str.,	21 13	118 52	.80	S	5	o.
Adolph, bk.,	20 40	114 4	.73	S/E	4	orq.
Oanfa, str.,	20 22	114 1	.76	SSE	5	c.
Triumph, str.,	20 20?	111 20?	...	var.	2	orq.
Activ, str.,	20 4	110 20	.69	ESE	3	orq.
H.M.S. Pigmy,	14 19	109 11	.74	WSW	2	c.
Kong Beng, str.,	13 56	110 15	.76	SSE	5	c.
Canton, str.,	13 20	111 50	.74	S	4	c.
Memnon, str.,	6 47	116 52	.81	SSE	1	b.
John R. Kelly, sh.,	5 29	108 56	...	SE	1	op.
Tailee, str.,	4 58	109 0	.83	S/W	4	c.
August 21st.						
Paoting, str.,	35 40	122 38	29.82	N	2	k.
Empress of India, str.,	35 25	139 39	.94	SW	4	o.
Ancona, str.,	34 40	135 12	.82	S	4	orq.
Yuensang, str.,	34 14	138 47	.92	SSE	3	p.
August 21st.						
Verona, str.,	28° 27′	123° 51′	29.88	N/E	3	c.
Kiel, str.,	28 0	122 5	...	var.	2	b.
Freeman, bk.,	27 44	122 22	...	...	0	...
Peiyang, str.,	24 53	118 53	.88	SW	2	c.
Nanchang, str.,	24 28	119 0	.85	...	0	k.
Chi Yuen, str.,	23 44	117 36	.82	E	1	k.
Activ, str.,	20 4	110 20	.75	SSE	2	c.
Kong Beng, str.,	17 20	111 14	.80	SE	2	o.
Sungkiang, str.,	17 19	119 32	.84	S	4	k.
Canton, str.,	17 19	113 43	.83	S	4	c.
H.M.S. Pigmy,	16 9	108 11	.81	SE	1	c.
Tailee, str.,	8 40	109 56	.85	SSW	3	c.
John R. Kelly, sh.,	7 21	109 56	.85	SSW	3	c.
August 22nd.						
Yuensang, str.,	35 25	139 39	29.95	SW	5	...
Ancona, str.,	34 40	135 19	.86	SE	3	o.
Empress of India, str.,	33 46	135 10	.93	SW	4	c.
Verona, str.,	31 38	128 2	.89	SE/E	3	op.
Freeman, bk.,	27 58	121 59	...	...	0	...
Nanchang, str.,	27 45	121 37	.82	ENE	2	...
Kiel, str.,	25 26	119 59	...	SW	1	...
Peiyang, str.,	22 49	116 6	.83	NE	1	c.
Bombay, str.,	22 37	115 41	.88	...	0	k.
Canton, str.,	21 49	113 58	.82	var.	1	k.
Oldenburg, str.,	21 17	113 33	.86	S	2	p.
Yiksang, str.,	21 13	118 51	.83	SSW	2	...
Kong Beng, str.,	20 54	113 13	.86	ESE	2	k.
Activ, str.,	20 4	110 20	.80	var.	1	orq.
H.M.S. Pigmy,	18 46	110 39	.79	S	1	c.
Tailee, str.,	11 45	112 8	.86	SW	4	k.
John R. Kelly, sh.,	8 52	110 18	...	SW	1	orq.
August 23rd.						
Yuensang, str.,	35 25	139 39	29.94	SW	5	c.
Ancona, str.,	33 50	132 16	.88	var.	3	cg.
Empress of India, str.,	33 44	132 13	.88	SW	4	c.
Creedmoor, sh.,	30 2	122 58	...	NNE	4	o.
Taisang, str.,	29 8	122 14	.87	WNW	4	o.
Freeman, bk.,	27 31	121 54	...	SSE	2	k.
Kiel, str.,	23 33	117 41	...	SW	2	b.
Ningpo, str.,	22 30	115 22	.81	N	2	cd.
H.M.S. Pigmy,	21 27	113 5	.79	NE	1	cp.
Donar, str.,	20 16	112 56	.82	...	0	p.
Activ, str.,	20 4	110 20	.79	NE	2	o.
Yiksang, str.,	17 29	119 15	.75	ENE	1	...
Oldenburg, str.,	17 11	110 27	.82	SW	1	c.
Tailee, str.,	15 16	113 46	.81	W	3	c.
Chowfa, str.,	12 7	100 44	.79	SW	4	o.
John R. Kelly, sh.,	11 4	111 30	...	SW	2	orq.
Rosetta, str.,	4 34	105 56	.88	WNW	3	c.
August 24th.						
Yuensang, str.,	35 26	139 39	29.95	SW	4	c.
Nanchang, str.,	34 52	123 2	.88	N	5	k.
Verona, str.,	33 49	132 11	.87	ENE	3	op.
Empress of India, str.,	32 45	129 50	.88	...	0	or.
Ancona, str.,	32 45	129 50	.88	SE	2	og.
Creedmoor, sh.,	28 4	121 58	...	NNE	4	or.
Freeman, bk.,	26 26	120 45	...	NE	6	c.
Taisang, str.,	25 22	119 54	.84	NE	4	op.
Chi Yuen, str.,	24 53	118 58	.78	NNE	4	o.
Ningpo, str.,	24 48	119 9	.80	NE	6	orq.
Zafiro, str.,	23 0	116 44	.82	E	2	b.
Cape Colonna, str.,	20 12	109 53	.80	NE	4	c.
Tailee, str.,	19 18	113 53	.75	NE	4	k.
Donar, str.,	17 36	111 16	.80	E	2	c.
Yiksang, str.,	14 34	120 58	.78	var.	1	b.
John R. Kelly, sh.,	12 40	112 2	...	SW	2	b.
Oldenburg, str.,	11 53	109 59	.82	...	0	c.
Emily F. Whitney, sh.,	10 9	107 15	...	SW	2	...
Chowfa, str.,	9 27	103 10	.80	W	4	o.
Rosetta, str.,	8 30	109 16	.82	WNW	4	o.
August 25th.						
Nanchang, str.,	37 52	121 11	29.92	NW	1	k.
Yuensang, str.,	35 25	139 39	.94	SW	2	...
Empress of India, str.,	31 46	125 40	.90	var.	2	b.
Ancona, str.,	30 17	126 42	.84	E	2	b.
Ningpo, str.,	27 30	121 18	.87	NE	5	o.
Chi Yuen, str.,	27 19?	120 29?	.84	NE	3	o.
Namoa, str.,	26 7	120 5	...	ENE	5	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 25th.						
Creedmore, sh.,	25° 14′	119° 40′	...	NE	5	...
Kweiyang, str.,	24 20	118 30	29.81	NE	5	...
Freeman, bk.,	23 53	118 5	...	NE	3	k.
Activ, str.,	21 41	113 6	.83	E	3	o.
Cape Colonna, str.,	21 31	113 1	.82	NE	4	c.
Bombay, str.,	18 57	113 38	.84	ESE	4	k.
Donar, str.,	14 35	109 45	.78	W	3	p.
John R. Kelly, sh.,	13 18	113 30	...	SW	5	orq.
Rosetta, str.,	13 1	111 39	.82	var.	2	or.
Emily F. Whitney, sh.,	10 30	107 22	...	SW	5	k.
Avochie, str.,	10 27	122 5	.84	SW	5	op.
Oldenburg, str.,	7 13	107 54	.86	SSW	5	op.
Centennial, sh.,	2 45	105 13	...	S	3	o.
August 26th.						
Paoting, str.,	39 25	117 28	30.00	SE	2	k.
Sin Kolga, bk.,	38 55	118 55	...	...	0	k.
Verona, str.,	34 0	135 0	29.91	N/W	3	b.
Yuensang, str.,	33 48	136 43	.93	ESE	5	c.
Ravenna, str.,	31 12	121 50	.87	NNE	2	c.
Chi Yuen, str.,	30 00	122 20?	.87	W	1	c.
Ancona, str.,	27 26	122 28	.84	N	4	c.
Creedmoor, sh.,	23 7	117 26	...	ENE	4	k.
Freeman, bk.,	22 46	116 50	...	NE	4	...
Hongkong, str.,	22 0	114 0?	...	E	4	o.
Zafiro, str.,	20 56	118 54	.85	SE	2	b.
Rosetta, str.,	17 36	113 44	.85	ENE	2	...
Sungkiang, str.,	16 32	118 47	.84	WSW	2	p.
Bombay, str.,	15 6	112 27	.85	SSW	4	cq.
John R. Kelly, sh.,	14 46	113 43	...	ESE	3	cp.
Emily F. Whitney, sh.,	12 58	112 16	...	SW	5	...
Avochie, str.,	12 33	120 15	.87	var.	1	orq.
Chowfa, str.,	12 32	109 31	.84	N	1	orq.
Cicero, str.,	11 59	109 20	.80	var.	1	b.
Donar, str.,	11 10	109 12	.80	var.	1	c.
Memnon, str.,	5 40	118 11	.77	WSW	1	cp.
Centennial, sh.,	4 31	106 10	...	NW	2	c.
Lightning, str.,	3 10	105 28	.87	var.	1	od.
August 27th.						
Paoting, str.,	39 19	120 0	30.01	E	2	k.
Sin Kolga, str.,	38 15	119 24	...	ESE	1	k.
Verona, str.,	35 13	139 45	29.83	N	5	c.
Yuensang, str.,	34 20	133 40	.83	NNW	2	c.
Feichung, str.,	31 20	121 12	.89	NE	5	c.
Nanyang, str.,	29 20	122 31	.88	WSW	3	b.
Empress of India, str.,	28 29	122 2	.88	var.	1	b.
Ravenna, str.,	26 54	120 49	.85	N	2	m.
Ancona, str.,	24 16	118 40	.87	NE	2	b.
Creedmoor, sh.,	22 28	116 20?	...	var	2	k.
Rosetta, str.,	22 16	114 6	.88	ENE	2	b.
Freeman, bk.,	22 15	115 40	...	NE	2	...
Activ, str.,	21 16	112 53	.86	var.	2	c.
Sungkiang, str.,	20 3	115 51	.85	NNW	2	k.
Zafiro, str.,	16 56	119 42	.85	S	4	o.
Chowfa, str.,	16 19	110 45	.83	NE	3	c.
Avochie, str.,	15 46	118 17	.85	SW	...	orq.
Cicero, str.,	14 58	110 12	.76	W	4	b.
Emily F. Whitney, sh.,	14 38	113 31	...	SW	5	p.
Sishan, str.,	12 12	109 25	.79	W	2	b.
Bombay, str.,	11 59	110 23	.83	SW/W	4	c.
Donar, str.,	8 54	107 59	.78	SW	3	...
Memnon, str.,	8 30	119 ...	.85	NE	3	or.
Lightning, str.,	6 27	107 40	.85	...	0	c.
Centennial, sh.,	6 2	106 43	...	SSW	4	k.
Gera, str.,	4 36	106 26	.97	SW	3	c.
Formosa, str.,	4 12	105 56	.94	SE	2	cp.
August 28th.						
Menmuir, str.,	32 55	128 24	29.90	NE	4	op.
Yuensang, str.,	32 52	129 38	.82	NE	5	o.
Feichung, str.,	27 50	121 32	.87	NE	2	b.
Nanyang, str.,	25 14	119 52	.88	NE	3	...
Empress of India, str.,	24 2	118 22	.85	var.	2	b.
Ravenna, str.,	23 16	117 23	.81	NE	5	c.
Ancona, str.,	22 28	115 20?	.80	S/E	2	o.
Activ, str.,	20 4	110 20	.82	SSW	2	o.
Chowfa, str.,	19 47	112 43	.83	NE	3	or.
Avochie, str.,	18 57	116 18	.80	NE	1	b.
Cicero, str.,	18 7	111 14	.73	NW	4	og.
Emily F. Whitney, sh.,	16 39	114 12	...	SW	2	or.
August 28th.						
Sishan, str.,	15° 26′	110° 24′	29.76	NE	6	o.
Memnon, str.,	11 28	119 45	.85	WSW	3	or.
Lightning, str.,	9 57	109 33	.85	W	4	o.
Gera, str.,	9 0	109 4	.90	W	4	od.
Bombay, str.,	8 35	109 1	.90	SW/W	4	oq.
Formosa, str.,	7 59	108 41	.93	NW	2	o.
Donar, str.,	6 25	106 29	.89	SSW	2	c.
Glenavon, str.,	5 25	106 36	.88	var.	1	op.
August 29th.						
Yuensang, str.,	32 36	130 11	29.91	var.	2	k.
Menmuir, str.,	29 55	125 2	.91	var.	2	k.
Feichung, str.,	24 29	118 47	.81	N	5	c.
Rosetta, str.,	23 7	117 0	.82	ENE	5	b.
Mathilde, str.,	22 49	116 6	.71	ENE	5	orq.
Nanyang, str.,	22 34	115 44	.80	NE	4	...
Avochie, str.,	22 1	114 6	.76	...	...	orq.
Triumph, str.,	21 56	113 44	.77	NE	4	oq.
Activ, str.,	21 26	109 1	.77	NNE	3	o.
Cicero, str.,	20 41	112 45	.73	ENE	4	b.
Tarapaca, sh.,	20 20	114 20	...	E	...	orq.
Alwine, str.,	20 15	109 55	.74	ENE	4	cq.
Sishan, str.,	18 50	111 42	.69	NE	5	b.
Kitty, bk.,	18 13	140 29	...	SE	6	b.
Emily F. Whitney, sh.,	17 56	114 32	...	SW	1	p.
Memnon, str.,	15 37	117 53	.71	W/S	4	...
Gera, str.,	13 59	110 39	.76	WNW	3	od.
Lightning, str.,	13 34	112 10	.73	var.	1	o.
Formosa, str.,	11 47	111 9	.75	WSW	5	o.
Centennial, sh.,	10 35	109 16	...	SW	6	o.
Glenavon, str.,	9 16	109 4	.76	NW	3	orq.
Bombay, str.,	5 ...	106 38?	.86	SW/W	4	kq.
Donar, str.,	3 34	105 18	.82	...	5	c.
August 30th.						
Sin Kolga, bk.,	37 ...	123 10	...	var.	1	o.
City of Rio de Janeiro, str.,	33 17	136 42	30.08	...	0	...
Yuensang, str.,	32 36	130 11	.02	var.	2	c.
Hangchow, str.,	30 48	126 34	29.93	SW	2	k.
Menmuir, str.,	26 50	122 49	.94	SE	2	k.
Rosetta, str.,	26 31	120 42	.89	NE	4	b.
Kweiyang, str.,	26 18	119 57	.87	NE	6	...
Mathilde, str.,	24 27	118 31	.85	NE	6	k.
Victoria, str.,	24 ...	118 ...	...	E	5	b.
Activ, str.,	21 29	109 5	.75	SE	3	or.
Sishan, str.,	21 4	113 17	.72	E	6	...
Emily F. Whitney, sh.,	19 42	113 25	...	SE	6	k.
Tailee, str.,	18 58	114 30	.70	ESE	8	crq.
Kitty, bk.,	18 46	137 17	...	S	8	oq.
Gera, str.,	18 43	111 38	.73	E	4	orq.
Tarapaca, sh.,	18 29	114 23	...	SE	...	oq.
Lightning, str.,	17 33	113 26	.70	SSE	1	k.
Yiksang, str.,	16 18	118 44	.76	SSW	1	...
Formosa, str.,	16 14	113 19	.72	var.	2	cp.
Glenavon, str.,	13 19	111 46	.68	...	2	b.
Centennial, sh.,	12 35	111 14	...	SW/S	5	o.
Doris, str.,	10 43	102 2	.74	SW	6	o.
Loosok, str.,	10 14	102 40	.78	SW	5	o.
Glücksburg, str.,	8 36	103 58	.74	SW	6	...
Moyunne, str.,	5 27	106 45	.86	SSW	5	o.
August 31st.						
Paoting, str.,	37 54	121 23	30.01	NE	2	k.
Sin Kolga, bk.,	36 3	123 38	...	NE	2	oq.
Yuensang, str.,	32 36	130 11	29.99	var.	1	o.
Rosetta, str.,	31 6	122 1	.95	NE	1	b.
City of Rio de Janeiro, str.,	30 48	133 3	30.05	SW	2	...
Chi Yuen str.,	30 25	122 26	29.94	E/N	2	c.
Kweiyang, str.,	29 17	122 16	.90	NNE	2	p.
Meefoo, str.,	28 30	122 0	.89	NE	2	k.
Hangchow, str.,	28 28	123 7	.92	ENE	2	k.
Mathilde, str.,	26 55	120 30	.85	NE	6	k.
Taksang, str.,	26 27	120 35	.85	ENE	3	m.
Victoria, str.,	24 30	119 59	.78	NE	6	b.
Menmuir, str.,	24 3	118 23	.81	N/E	5	c.
Lyeemoon, str.,	23 51	117 54	.77	ENE	5	...
Formosa, str.,	21 2	113 47	.78	E/N	5	b.
Emily F. Whitney, sh.,	20 41	113 20	...	ENE	6	orq.
Sungkiang, str.,	20 25	115 35	.79	E	5	k.
Activ, str.,	20 8	110 5	.72	ENE	4	orq.
Yiksang, str.,	19 43	116 24	.74	NE	3	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
August 31st.						
Kitty, bk.,	19° 14′	134° 12′	...	SSE	8	...
Glenavon, str.,	17 45	113 30	29.69	NNE	2	o.
Tarapaca, sh.,	17 25	113 52	...	SE/S	2	b.
Tailee, str.,	15 17	113 15	.76	var.	1	c.
Centennial, sh.,	14 41	112 15	...	NW	3	pq.
Holstein, str.,	11 32	109 10	...	SSW	4	c.
Moyune, str.,	9° 13′	109° 13′	29.79	WSW	6	o.
Glücksburg, str.,	9 5	107 5	.74	W/N	5	oq.
Loosok, str.,	8 40	106 7	.82	W	5	c.
Doris, str.,	8 23	104 44	.81	WSW	5	o.
Kutsang, str.,	7 2	107 48	.88	W	3	o.
Loksang, str.,	3 11	108 35	.87	SW	4	c.

SEPTEMBER, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 1st.						
Paoting, str.,	36° 12′	122° 47′	29.91	E	2	k.
Sin Kolga, bk.,	35 15	123 56	...	ESE	5	cd.
Kweiyang, str.,	33 0	122 50	.87	E/N	2	p.
Orion, str.,	32 57	132 25	...	SE	1	...
Yuensang, str.,	30 56	126 24	.89	SE	3	c.
Mathilde, str.,	28 56	123 30	.78	NE	5	...
City of Rio de Janeiro, str.,	28 45	128 15	.85	E	4	p.
Chi Yuen, str.,	27 26	121 5	.74	NE/N	3	c.
Lyeemoon, str.,	26 35	120 7	.68	NE/N	6	...
Victoria, str.,	26 7	119 40	.68	NE	2	b.
Hangchow, str.,	25 47	120 17	.71	NE	4	o.
Meefoo, str.,	25 17	119 33?	.66?	NE?	8?	om.
Taksang, str.,	23 30	117 22	.68	NNW	3	b.
Velocity, bk.,	20 49	159 47	...	ENE	3	k.
Kitty, bk.,	20 47	131 22	...	SSW	4	k.
Activ, str.,	20 3	110 20	.71	ENE	3	c.
Ravenna, str.,	18 2	114 13	.72	E	2	k.
Tarapaca, sh.,	17 16	113 43	...	...	0	b.
Sungkiang, str.,	16 54	118 13	.69	S	2	k.
Centennial, sh.,	15 43	112 39	...	...	0	k.
Holstein, str.,	14 32	110 12	.70	WSW	...	q.
Moyune, str.,	13 9	111 33	.68	WSW	5	q.
Tailee, str.,	12 54	110 50	.73	W	8	o.
Loosok, str.,	11 40	109 15	.74	NE	1	c.
Glücksburg, str.,	11 30	109 14	.69	...	0	o.
Kutsang, str.,	10 19	110 2	.78	W/S	5	c.
Doris, str.,	10 19	108 3	.74	NW	6	b.
Loksang, str.,	6 36	109 4	.80	W	4	c.
Namyong, str.,	3 40	105 38	.81	E	4	c.
September 2nd.						
Kweiyang, str.,	36 55	122 40	29.84	NE	5	o.
Sin Kolga, bk.,	34 0	124 40	...	NE	7	or.
Orion, str.,	33 7	128 38	...	SE	4	or.
Paoting, str.,	32 18	122 41	.67	SE	2	...
Yuensang, str.,	30 45	122 18	.51	ENE	6	m.
Mathilde, str.,	30 26	125 47	.58	ESE	9	q.
City of Rio de Janeiro, str.,	28 6	126 13	.44	SE/E	8	opq.
Chi Yuen, str.,	26 58	120 15	.40	NNW	4	cq.
Lyeemoon, str.,	26 56	120 16	.32	NNW	6	kq.
Hangchow, str.,	24 41	118 48	.54	...	2	...
Meefoo, str.,	24 26	118 29	.51	WNW	2	...
Taksang, str.,	23 20	116 44	.58	NW	4	c.
Nürnberg, str.,	22 58	116 52	.54	NW	3	...
Esmeralda, str.,	21 43	118 49	.62	W/S	4	o.
Emily F. Whitney, sh.,	21 41	113 51	...	WNW	1	k.
Devawongse, str.,	21 20	114 23	.59	W/S	4	bm.
Velocity, bk.,	20 35	161 58	...	ENE	4	k.
Activ, str.,	20 34	111 26	.64	NW	4	c.
Kitty, bk.,	20 6	130 6	...	WSW	2	k.
Holstein, str.,	17 50	111 3	...	NNW	2	c.
Moyune, str.,	17 6	113 10	.77	NW	4	c.
Tarapaca, sh.,	16 37	113 53	...	NW	2	...
Zafiro, str.,	16 34	118 47	.69	WSW	4	o.
Centennial, sh.,	16 7	112 51	...	NW	1	...
Loosok, str.,	14 49	110 25	.69	NNW	4	b.
Kutsang, str.,	14 2	112 21	.74	NW	3	og.
Glücksburg, str.,	13 52	110 7	.67	W/N	4	c.
Ravenna, str.,	13 40	112 13	.71	NW/W	4	o.
Doris, str.,	12 44	109 52	.67	NW	6	b.
Fidelio, str.,	11 32	121 30	.79	SW	4	oq.
Tailee, str.,	10 27	107 56	.79	WNW	6	o.
Phra Chula Chom Klao, str.,	10 6	102 40	.83	W	4	c.
Loksang, str.,	9 30	110 26	.72	SW	5	...
Namyong, str.,	6 45	107 39	.79	NW	6	q.
Guthrie, str.,	5 9	123 6	...	var.	2	o.
Bittern, bqt.,	4 41	107 20	.92	SW	4	cq.
September 3rd.						
Kweiyang, str.,	38 31	118 52	29.80	NE	4	...
Swatow, str.,	36° 5′	123° 1′	29.47	NNE	9	q.
Fuping, str.,	35 56	122 36	.48	NNE	8	orq.
Nanchang, str.,	35 3	123 1	.21	NE	10	...
Verona, str.,	34 32	138 53	30.07	S	4	orq.
Else, bqt.,	34 31	121 54	...	NE	5	q.
Sin Kolga, bk.,	33 10	124 56	...	NW	12	...
Orion, str.,	32 38	128 36	...	SE	9	...
Tellus, str.,	31 30	128 20	...	S	8	o.
Mathilde, str.,	31 15	127 11	29.50	WSW	10	...
Yuensang, str.,	31 9	121 55	.62	NW/W	6	orq.
Paoting, str.,	31 2	122 34	.57	NW	7	b.
Canton, str.,	30 50?	122 10?	.60	NW	4	q.
City of Rio de Janeiro, str.,	28 10	126 40	.69	SSW	5	q.
Lyeemoon, str.,	27 50	121 21	.69	NNW	3	...
Victoria, str.,	27 2	120 52	.69	NW	4	b.
Nürnberg, str.,	25 45	121 7	.66	WSW	3	...
Chi Yuen, str.,	25 26	119 59	.68	S/W	3	o.
Kitty, bk.,	24 18	129 31	...	SSE	4	k.
Peiyang, str.,	22 45	116 12?	.75	E	1	c.
Meefoo, str.,	22 29	115 14	...	...	1	k.
Ghazee, str.,	22 14	114 24	.67	ENE	2	...
Moyune, str.,	21 34	113 50	.68	N	2	b.
Holstein, str.,	20 52	112 48	...	NNE	5	...
Saigon, str.,	20 32	107 30	.75	NE	1	b.
Zafiro, str.,	20 6	115 52	.69	W	2	c.
Triumph, str.,	19 59	111 16	.67	N	3	c.
Bermida, str.,	18 40	116 10	.69	W	3	c.
Loosok, str.,	18 32	111 48	.68	NNW	4	b.
Chowfa, str.,	18 30	111 35	.70	NW/N	...	...
Devawongse, str.,	17 53	111 26	.67	NNW	4	k.
Esmeralda, str.,	17 51	119 50	.74	S/W	5	o.
Kutsang, str.,	17 37	113 36	.72	N	2	o.
Centennial, sh.,	17 18	113 52	...	NNE	2	q.
Glücksburg, str.,	16 52	110 39	.65	NW/W	3	b.
Doris, str.,	15 49	110 50	.67	NW	5	...
Tarapaca, sh.,	15 1	114 13	...	WSW	...	or.
Loksang, str.,	12 59	111 31	.69	W	2	c.
Fidelio, str.,	12 55	119 38	...	S	2	c.
Oceanien, str.,	10 30	107 30?	.76	N	1	c.
Ravenna, str.,	10 16	109 23	.75	WSW	5	o.
Namyong, str.,	10 10	109 49	.73	W	5	q.
Taicheong, str.,	9 58	102 23	.79	WNW	5	o.
Guthrie, str.,	8 53	121 50	...	S	4	o.
Phra Chula Chom Klao, str.,	8 46	106 13	.81	NW/W	4	or.
Lawang, str.,	5 5	106 29	...	SW	4	o.
September 4th.						
Verona, str.,	34 11	135 1	29.84	SSW	8	orq.
Aglaia, str.,	34 8	134 58	.91	S	6	4
Mathilde, str.,	33 40?	129 45	.89	NW	6	k.
Else, bqt.,	33 18	123 35	...	W	2	k.
Fuping, str.,	33 8	122 40	.95	WNW	2	...
Sin Kolga, bk.,	32 29	126 50	...	W	2	k.
Orion, str.,	32 17	127 41	...	WNW	6	o.
Nanchang, str.,	32 15	123 27	.91	SSW	2	...
Lyeemoon, str.,	31 8	122 0	.97	...	0	...
Yarra, str.,	31 0?	121 45?	...	SE	1	b.
Ningpo, str.,	30 25	122 26	.95	SE	1	b.
Tellus, str.,	30 24	126 37	...	NW	4	b.
Victoria, str.,	30 6	124 21	.97	NE	2	b.
Nürnberg, str.,	27 50	120 31	.90	E	4	...
Yuensang, str.,	27 40	120 39	.95	E	3	o.
Canton, str.,	26 47	120 57	.92	NE	5	p.
Paoting, str.,	26 46	120 52	.90	NE	5	c.
City of Rio de Janeiro, str.,	26 13	122 45	.88	ENE	4	...
Peiyang, str.,	25 23	119 54	.89	NE	4	c.
Ghazee, str.,	23 58	118 14	.86	NE	5	q.
Loosok, str.,	21 52	113 48	.76	NE	6	o.
Kutsang, str.,	21 46	113 56	.76	NE	3	c.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 4th.						
Alwine, str.,	20° 15′	109° 55′	29.68	NNE	5	c.
Glücksburg, str.,	19 27	112 17	.67	NE	4	o.
Doris, str.,	19 13	111 33	.71	N	5	orq.
Avochie, str.,	19 4	111 42	.71	ESE	4	b.
Centennial, sh.,	18 46	113 37	...	ENE	...	orq.
Loksang, str.,	16 18	113 3	.71	var.	1	c.
Bormida, str.,	14 30	113 20	.71	SW	3	o.
Chowfa, str.,	14 25	109 50	.74	...	3	...
Esmeralda, str.,	14 25	120 34	...	...	0	b.
Fidelio, str.,	14 22	117 18	.76	SW	1	o.
Namyong, str.,	14 3	111 59	.73	W	5	c.
Devawongse str.,	13 57	110 0	.68	W	2	o.
Oceanien, str.,	13 57	107 50	.72	SW	2	...
Tarapaca, sh.,	13 44	115 54	...	S W	2	b.
Guthrie, str.,	12 8	120 58	...	SW	4	or.
Phra Chula Chom Klao, str.,	11 21	109 3	.72	NE	2	c.
Taicheong, str.,	8 33	105 53	.78	W	3	g.
Bittern, bqt.,	8 22	109 5	...	SW	2	p.
Lawang, str.,	8 14	108 47	...	SW	5	oq.
Ravenna, str.,	7 0	106 55	.85	SW	6	...
September 5th.						
Sin Kolga, bk.,	32 32	127 48	...	NW	1	k.
Aglaia, str.,	31 57	132 0	30.03	NNW	4	c.
Nürnberg, str.,	30 32	130 11	.00	E	2	k.
Yarra, str.,	30 6	122 36	29.94	ESE	2	o.
Fuping, str.,	29 38	122 27	30.00	ESE	3	od.
Orion, str.,	29 33	123 15	...	SSE	4	...
Nanchang, str.,	28 36	122 8	29.94	...	2	od.
Tellus, str.,	28 12	123 39	...	SE	4	...
Peiyang, str.,	28 6	121 31	.95	ENE	2	c.
Ghazee, str.,	26 26	120 45	...	NE N	4	k.
Ningpo, str.,	26 24	120 34	.88	E	4	cd.
Yuensang, str.,	25 40	121 0	.85	E	3	k.
Paoting, str.,	23 46	117 46	.85	var.	1	k.
City of Rio de Janeiro, str.,	23 40	118 6	.84	N	2	b.
Formosa, str.,	23 10	117 22	.88	NE	3	c.
Canton, str.,	22 34	117 32	.86	W	...	c.
Doris, str.,	21 56	113 44	.80	ENE	2	q.
Kweilin, str.,	21 32	113 56	.79	SE	4	k.
Activ, str.,	21 26	113 9	.81	SE	3	orq.
Centennial, sh.,	21 13	114 2	...	E	4	...
Loksang, str.,	20 2	113 53	.77	E	4	o.
Saigon, str.,	19 56	113 44	.80	NE	3	...
Oceanien, str.,	18 55	109 31	.76	SSE	2	...
Namyong, str.,	17 58	113 23	.74	SE	2	od.
Fidelio, str.,	17 4	115 0	.79	NE	1	c.
Guthrie, str.,	15 45	118 46	...	W	4	od.
Avochie, str.,	15 30	110 14	.73	SW W	4	b.
Phra Chula Chom Klao, str.,	14 41	110 7	.76	NE	2	c.
Tarapaca, sh.,	13 51	118 19	...	SW	5	or.
Amoy, str.,	12 53	121 55	.75	WSW	6	...
Bormida, str.,	11 42	111 24	.75	SW	3	k.
Lawang, str.,	11 35	111 9	...	SW	4	orq.
Taicheong, str.,	10 51	108 40	.74	NNW	3	c.
Chowfa, str.,	10 21	107 59	.78	...	2	...
Devawongse, str.,	10 15	107 52	.74	WSW	4	og.
Bittern, bqt.,	9 31	110 0	...	WSW	4	c.
Taiyuan, str.,	3 38	124 15	.97	var.	2	b.
Ravenna, str.,	2 29	104 41	.89	SSW	4	o.
September 6th.						
Verona, str.,	33 47	131 47	30.14	var.	1	b.
Nürnberg, str,	33 14	135 40	.11	E	2	k.
Else, bqt.,	31 26	123 44	...	E	2	...
Aglaia, str.,	30 1	128 33	.03	S	5	c.
Kwanglee, str.,	29 41?	122 20	29.92	ESE	4	m.
Ghazee, str.,	29 40	123 38	...	NE	4	k.
Fuping, str.,	26 15	120 31	.79	E	6	...
Tellus, str.,	26 9	120 41	...	E	4	omr.
Orion, str.,	25 28	120 8	...	ESE	7	o.
Formosa, str.	25 26	119 59	.63	ENE	8	gp.
Nanchang, str.,	25 3	119 40	.70	ENE	5	...
Yarra, str.,	24 51	119 23	...	...	0	b.
Ningpo, str.,	23 28	117 19	.69	ENE	4	b.
Namyong, str.,	22 3	114 6	.69	NNE	2	c.
Alwine, str,	20 15	109 55	.70	E	3	...
Fidelio, str.,	19 50	114 50	.69	var.	2	c.
Guthrie, str.,	18 59	116 32	...	NW	6	pq.
Menmuir, str.,	18 59	116 9	.65	N	1	o.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 6th.						
Phra Chula Chom Klao, str.,	18° 34′	111° 22′	29.73	W	4	b.
Kweilin, str.,	18 20	111 19	.75	W	5	p.
Lawang, str.,	15 20	112 58	...	SW	3	c.
Amoy, str.,	15 5	119 19	.63	W	6-7	orq.
Taicheong, str.,	13 56	110 13	.74	W	4	c.
Gunboat Wolff,	12 11	109 34	...	WSW	1	c.
Avochie, str.,	12 0	109 20	.73	SSW	5	o.
Bittern, bqt.,	11 56	111 24	...	SW/S	5	c.
Borneo, str.,	10 16	102 18	...	SW	2	b.
Devawongse, str.,	8 43	104 20	.82	W	3	k.
Chowfa, str.,	8 36	104 35	.86	...	...	...
Taiyuan, str.,	7 2	121 54	...	NNE	2	b.
Bormida, str.,	5 36	108 16	.80	SW	3	k.
September 7th.						
Ghazee, str.,	32 50	127 13	...	E	4	k.
Else, bqt,	30 57	123 34	...	SE/S	3	b.
Aglaia, str.,	28 34	124 47	29.91	SSE	5	b.
Formosa, str.,	28 30	122 9	.83	ENE	4	b.
Kwanglee, str.,	26 5	120 15	.73	E	7	...
Haitan, str.,	23 28	116 58	.60	NE	3	or.
Tellus, str.,	23 25	117 41	...	NNE	5	omr.
Fuping, str.,	23 20	117 38	.65	NNE	4	o.
Orion, str.,	22 33	115 38	...	NE	6	or.
Oceanien, str.,	22 29	115 20	.58	NE/E	4	orq.
Triumph, str.,	21 57	113 43	.62	N	3	q.
Guthrie, str.,	21 53	114 24	...	NE	5	c.
Phra Chula Chom Klao, str.,	21 47	113 53	.62	ENE	4	p.
Activ, str.,	21 29	109 6	.66	WNW	3	c.
Yarra, str.,	21 14	113 42	...	W	5	oq.
Lawang, str.,	19 20	113 20	...	NW	7	orq.
Memnon, str.,	19 3	114 32	.45	NW	12	ogq.
Taicheong, str.,	17 32	111 13	.66	WNW	6	oq.
Amoy, str.,	15 40	119 16	.63	SW	9	...
Gunboat Wolff,	15 4	109 16	.75	N	1	c.
Kweilin, str.,	14 55	109 19	.75	S	4	o.
Bittern, bqt.,	14 35	112 30	...	SW	6	og.
Hiogo Maru, str.,	14 30	120 54	.70	SSW	6	rqu.
Chowfa, str.,	11 43	101 22	.88	...	...	...
Taiyuan, str.,	11 12	121 25	.92	WSW	4	o.
Borneo, str.,	8 23	105 17	...	SW	2	b.
Taiyick, str,	5 5	109 3	.89	WSW	1	c.
September 8th.						
Victoria, str.,	33 24	135 42	29.99	SE	1	b.
Else, bqt.,	30 55	125 48	...	SSE	4	orq.
Verona, str.,	29 58	125 45	.85	S/E	5	b.
Fooksang, str.,	29 48	122 5	.80	SSE	4	opq.
Empress of India, str.,	27 1	120 50	.63	E/N	4	o.
Aglaia, str.,	26 33	121 11	.63	SSE	6	o.
Oceanien, str.,	24 53	117 8	.54	NE	2	o.
Chi Yuen, str.,	24 26	118 5	.60	E	4	...
Haitan, str.,	23 19	116 44	.48	NE	7	orq.
Paoting, str.,	23 19	116 44	.49	NE N	6	o.
Kwanglee, str.,	23 9?	117 29?	.56	NE/E	6	...
Taksang, str.,	22 57	115 39	.49	NE N	6	orq.
Nanyang, str.,	22 33	114 26	.40	N/W	6	...
Tellus, str.,	22 30	115 22?	...	ENE	6	oq.
Alwine, str.,	21 52	113 12	.41	NW	8	opq.
Lawang, str.,	21 49	113 54	...	N	8	...
Taksang, str.,	21 29	113 43	.37	NNW	8	orq.
Hanoi, str.,	20 35?	107 4?	.65	NE	4	...
Taicheong, str.,	20 20	112 40	.40	NNW	10	...
Activ, str.,	20 4	110 20	.56	NNE	5	o.
Gunboat Wolff,	17 11	109 53	.62	WNW	5	orq.
Yarra, str.,	16 51	110 25	.69	W	5	oq.
Bittern, bqt.,	16 23	114 17	...	W	5	oq.
Amoy, str.,	16 8	118 11	.53	SW	7	lq.
Memnon, str.,	15 19	116 8	.65	W	10	ogrq.
Hiogo Maru, str.,	14 34	120 59	.70	SW	5	oqt.
Sungkiang, str.,	14 25	120 20	.70	WSW	6	orq.
Taiyuan, str.,	13 58	119 13	.75	SW	9	orq.
Menmuir, str.,	13 44	120 25	.69	SW	6	q.
Tailee, str.,	11 37	110 30	.72	SW	8	c.
Kweilin, str.,	11 29	109 37	.68	S	8	...
Borneo, str.,	10 3	108 35	...	WSW	6	q.
Phra Chom Klao, str.,	9 49	102 52	.81	WNW	6	o.
Taiyick, str.,	8 38	109 43	.80	WSW	5	b.
Pollux, str.,	8 25	104 27	.87	WSW	3	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
September 9th.						
Kaisow, str.,	31° 43′	125° 7′	..	SSW	4	b.
Canton, str.,	31 30?	121 45	29.66	NW	2	o.
Peshawur, str.,	31 15	121 43?	.71	E	4	o.
Else, bqt.,	30 42	123 30	...	SE/S	5	m.
Oceanien, str.,	29 40	122 25?	.70	ENE	2	om.
Fooksang, str.,	28 22	121 49	.76	SE	6	...
Verona, str.,	26 58	121 53	.64	SE	6	c.
Aglaia, str.,	23 54	118 11	.46	SSE	8	...
Kwanglee, str.,	23 5?	117 30?	.56	S	6	q.
Taksang, str.,	22 57	115 39	.41	SW	6	c.
Nanyang, str.,	22 33	114 26	.42	W/S	8	or.
Taicheong, str.,	21 55	113 48	.45	WNW	3	...
Alwine, str.,	21 52?	113 12?	.45	SW	...	...
Triumph, str.,	21 35	112 34	.43	WNW	4	o.
Activ, str.,	20 4	110 20	.58	NW	5	o.
Hanoi, str.,	20 4	110 20	.61	N	7	...
Gunboat Wolff,	18 54	111 38	.64	NW	5	c.
Amoy, str.,	18 26	117 10	.59	SW	5	...
Hesperia, str.,	18 18	112 0	.59	W/N	7	o.
Sungkiang, str.,	17 35	117 50	.65	W	5	o.
Bittern, bqt.,	17 30	114 0	...	NE	2	o.
Hiogo Maru, str.,	14 34	120 58	.73	SW	4	orq.
Borneo, str.,	13 10	111 8	.67	SW	5	oq.
Tailee, str.,	12 29	114 31	.74	SW	7	o.
Taiyick, str.,	12 7	110 10	.68	SW	5	c.
Memnon, str.,	11 55	117 48	.79	SW	6	lq.
Continental, str.,	11 34	121 17	.79	SSW	5	op.
Menmuir, str.,	10 20	121 36	.75	SW	4	b.
Pollux, str.,	9 50	107 20	.80	SW/W	4	k.
Kweilin, str.,	9 11	109 19	.80	SW	6	...
Phra Chom Klao, str.,	8 35	105 59	.77	WSW	4	o.
Catherine Apcar, str.,	4 47	106 14	.80	S	2	...
September 10th.						
Victoria, str.,	35 10	140 30	...	S	1	b.
Nürnberg, str.,	33 31	136 10	30.10	...	0	b.
Ghazee, str.,	33 21	127 55	...	ENE	4	...
Wosang, str.,	32 9	129 13	.02	SE	5	k.
Empress of India, str.,	31 41	124 43	29.90	SE	4	k.
Else, bqt.,	30 14	122 52	...	SE/S	6	...
Canton, str.,	28 34	122 7	.78	SE/S	5	cpq.
City of New York, str.,	27 40	124 26	...	SE	5	k.
Peshawur, str.,	27 31	121 24	.81	SSE	6	c.
Fooksang, str.,	27 27	120 49	.79	SSE	5	k.
Paoting, str.,	24 25	119 38	.74	var.	1	k.
Nanyang, str.,	24 14	118 35	.72	...	0	c.
Verona, str.,	24 2	118 27	.69	W/S	3	c.
Aglaia, str.,	22 45	116 7	...	NW	2	k.
Guthrie, str.,	22 24	115 6	.66	ENE	2	k.
Kwanglee, str.,	22 8?	114 34?	.73	N	1	k.
Amoy, str.,	20 57	114 38	.75	N	2	...
Sungkiang, str.,	20 36	115 54	.71	N	2	k.
Activ, str.,	20 4	110 20	.69	NE	3	c.
Taiyuan, str.,	18 20	115 59	.66	NW/W	2	c.
Bittern, bqt.,	17 41	114 30	...	NW	3	om.
Borneo, str.,	16 14	113 17	.67	NNW	5	...
Taiyick, str.,	15 42	110 18	.70	WNW	5	o.
Hesperia, str.,	15 37	110 30	.70	W	4	o.
Esmeralda, str.,	14 41	120 6	...	WNW	5	or.
Hiogo Maru, str.,	14 34	120 58	.72	SW	4	c.
Continental, str.,	13 52	119 56	.77	SW	5	...
Tailee, str.,	13 36	118 26	.81	WSW	4	or.
Pollux, str.,	12 23	110 37	.76	var.	1	o.
Phra Chom Klao, str.,	11 22	109 5	.76	SW	6	o.
Catherine Apcar, str.,	8 40	108 46	.86	SW/S	3	orq.
Memnon, str.,	8 40	116 52	.84	SW	4	bm.
Kweilin, str.,	8 31	106 47	.85	W	...	...
Menmuir, str.,	6 37	122 21	.79	S	4	b.
September 11th.						
Victoria, str.,	37 41	145 50	30.08	SE	1	b.
Mathilde, str.,	32 29	127 44	.09	S	4	k.
Ghazee, str.,	30 50	124 43	...	NE	2	o.
Wosang, str.,	30 0	125 40	...	SE	4	o.
Else, bqt.,	29 57	123 22	...	ESE	4	b.
Lyeemoon, str.,	28 54	122 9	29.94	SE/E	4	...
Paoting, str.,	28 29	121 49	.94	ENE	5	k.
Nanyang, str.,	27 9	120 37	.86	NE	9	m.
Fooksang, str.,	24 59	119 10?	.59	NNE	9-11	oq.
City of New York, str.,	24 58	119 31	...	NNE	10	...
September 11th.						
Canton, str.,	24° 54′	119° 14′	29.51	NE	8	om.
Peshawur, str.,	23 32	117 45	.59	NW	7-8	o.
Yuensang, str.,	23 20	116 44	.57	NW	3	c.
Taiyuan, str.,	22 16	114 14	.70	NNE	4	b.
Activ, str.,	21 35	112 54	.69	N	4	k.
Cape Colonna, str.,	20 32	111 23	.73	N/E	5	...
Borneo, str.,	19 58	113 42	.67	N/W	6	od.
Taiyick, str.,	18 41	111 40	.71	N	5	orq.
Bittern, bqt.,	18 37	114 50	...	W	2	b.
Esmeralda, str.,	18 6	117 38	.67	WNW	4	op.
Continental, str.,	16 22	118 23	.73	WSW	4	or.
Pollux, str.,	15 37	110 25	.78	WNW	4	orq.
Phra Chom Klao, str.,	14 28	109 57	.81	WNW	3	o.
Catherine Apcar, str.,	12 52	111 27	.82	W	5	orq.
Hesperia, str.,	11 40	109 31	.79	S/W	4	o.
Yarra, str.,	9 32	104 40	.94	WSW	3	oq.
Kweilin, str.,	8 34	103 49	.84	SW	2	k.
Martha Bockhahn, bk.,	4 10	105 16	.92	S	4	m.
Menmuir, str.,	3 4	124 31	.85	SSE	4	o.
September 12th.						
Victoria, str.,	40 9	150 29	29.63	SE	7	oq.
Nürnberg, str.,	34 1	132 45	30.05	...	0	b.
Empress of India, str.,	33 56	132 41	.12	NNE	2	k.
Mathilde, str.,	30 3	124 44	.05	SE	...	...
Ghazee, str.,	27 59	121 45	...	...	0	k.
Else, bqt.,	27 54	122 34	...	ESE	6	...
Nanyang, str.,	27 41	121 10	29.89	ESE	8	orq.
Wosang, str.,	27 36	122 23	.96	SE	5	o.
Lyeemoon, str.,	27 20	121 5	.94	SE/E	6	...
Fooksang, str.,	24 59	119 20	.82	SE	5	orq.
Canton, str.,	24 17	118 17	.77	SE	4	om.
Cape Colonna, str.,	22 9	114 0	.69	NW	4	o.
Taiyick, str.,	21 31	113 29	...	N	4	b.
Esmeralda, str.,	21 8	115 3	.74	NW/W	4	o.
Bittern, bqt.,	19 3	114 15	.62	var.	1	p.
Continental, str.,	18 59	116 20	.69	NW	5	o.
Phra Chom Klao, str.,	18 6	110 55	.79	WNW	1	b.
Pollux, str.,	17 58	111 49	.77	WNW	4	k.
Catherine Apcar, str.,	16 11	113 14	.79	W	2	...
Martha Bockhahn, bk.,	5 22	106 5	.93	W	3	otl.
Yarra, str.,	4 21	103 26	30.03	S	2	c.
September 13th.						
Victoria, str.,	41 47	153 22	29.61	ESE	7	...
Empress of India, str.,	34 28	135 7	30.04	var.	2	k.
Nanyang, str.,	31 12	121 52	29.99	ESE	2	...
Mathilde, str.,	27 20?	121 15?	30.01	ESE	4	k.
Else, bqt.,	26 31	121 2	...	E	4	k.
Wosang, str.,	24 59	119 28	29.91	NNW	2	o.
Ghazee, str.,	24 52	119 25	...	NE	2	b.
Guthrie, str.,	24 46	119 6	.89	NE	2	k.
Rohilla, str.,	24 5	118 31	.93	SE	4	o.
Lyeemoon, str.,	24 4	118 15	.92	var.	3	...
Woosung, str.,	23 48	117 47	.93	E	4	q.
Fooksang, str.,	23 2	116 54	.90	S	4	oq.
Phra Chom Klao, str.,	21 37	113 14	.86	SE	3	o.
Pollux, str.,	20 56	113 8	.84	SW	2	k.
Continental, str.,	20 45	115 20	...	W	5	...
Bittern, bqt,	19 51	114 30	...	var.	2	p.
Catherine Apcar, str.,	19 26	113 39	.83	E	2	...
Kutsang, str.,	19 12	111 58	.88	S	2	c.
Chowfa, str.,	10 57	101 18	.89	...	...	...
Martha Bockhahn, bk.,	6 9	107 20	.95	SW	2	m.
September 14th.						
Victoria, str.,	43 52	158 30	29.63	SE	2	of.
Empress of India, str.,	35 25	139 38	.94	...	0	k.
Nürnberg, str.,	29 49	125 35	.90	N	1	...
Guthrie, str.,	28 5	121 41	.89	...	0	k.
Rohilla, str.,	27 50	121 45	.84	NE	1	k.
Else, bqt.,	25 3	120 6	...	ENE	2	...
Mathilde, str.,	24 10	118 15	.93	NE	...	k.
Chi Yuen, str.,	23 20	116 44	.94	E	2	o.
Wosang, str.,	22 45	116 5	.95	SW	2	op.
Sungkiang, str.,	22 34	115 22	.94	E	4	p.
Canton, str.,	22 17	114 34	.92	S	2	o.
Bittern, bqt.,	22 8	113 54	...	E/N	2	o.
Activ, str.,	21 27	113 4	.91	SE	3	crq.
Hiogo Maru, str.,	16 41	118 20	.91	SW	2	c.
Kutsang, str.,	15 8	110 4	.96	S	3	k.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
September 14th.						
Chowfa, str.,	8° 24′	105° 9′	29.94	...	...	...
Martha Bockhahn, bk.,	7 45	108 27	.96	WNW	4	k.
Chingtu, str.,	5 18	123 8	.92	WNW	2	k.
Altair, bk.,	3 25	105 30	...	SSW	2	k.
September 15th.						
Victoria, str.,	45 42	164 19	29.72	var.	1	of.
Empress of India, str.,	35 25	139 38	.84	var.	2	k.
Empress of Japan, str.,	31 34	124 55	.91	NW	4	k.
Nürnberg, str.,	26 50	121 32	.91	NW	1	...
Else, bqt.,	24 37	119 43	...	NE	2	k.
Chi Yuen, str.,	23 20	116 44	.94	SW	1	k.
Mathilde, str.,	22 24	114 40	.93	SW	...	k.
Activ, str.,	20 10	110 22	.88	W	2	c.
Hiogo Maru, str.,	19 59	115 8	.91	E	2	p.
Peshawur, str.,	17 50	113 59	.89	S	2	c.
Chowfa, str.,	10 58	108 41	.91	WSW	3	...
Kutsang, str.,	10 36	108 58	.94	SW/W	4	k.
Martha Bockhahn, bk.,	9 24	109 49	.96	SW	4	o.
Chingtu, str.,	9 14	121 53	.92	N/W	3	orq.
Altair, bk.,	4 18	106 3	...	var.	4	o.
Fannie Skolfield, bk.,	4 11	105 45	...	W	4	...
September 16th.						
Victoria, str.,	47 10	170 27	29.90	...	0	b.
Empress of India, str.,	37 34	145 13	30.02	N/E	3	k.
Kaisow, str.,	29 47	122 35	...	SE	...	...
Else, bqt.,	24 14	118 50	...	NE	2	c.
Shanghai, str.,	23 34	117 49	29.97	NE/E	2	k.
Nürnberg, str.,	23 33	117 41	.92	...	0	k.
Hongkong, str.,	22 8	113 56	.94	E	...	...
Activ, str.,	21 29	109 5	.87	SE	2	o.
Sungkiang, str.,	21 10	118 51	.91	ESE	2	k.
Chowfa, str.,	14 22	110 10	.89	var.	...	...
Chingtu, str.,	13 20	120 17	.89	NW	2	...
Peshawur, str.,	13 7	111 35	.87	SSW	2	o.
Tailee, str.,	12 15	120 52	.89	S	4	k.
Martha Bockhahn, bk.,	10 47	110 51	.93	SW/W	4	k.
Kutsang, str.,	6 56	107 0	.92	W/S	3	k.
Fannie Skolfield, bk.,	5 6	105 20	...	SW	2	...
Altair, bk.,	4 18	106 44	...	SW/S	1	...
September 17th.						
Empress of India, str.,	40 32	151 46	30.07	N	4	o.
Tacoma, str.,	31 54	126 47	29.98	ENE	2	cq.
Peiyang, str.,	31 15	121 43	30.00	E	2	cr.
Empress of Japan, str.,	27 22	121 30	29.96	N	2	b.
Shanghai, str.,	26 57	120 55	.94	NE	3	c.
Verona, str.,	24 6	118 32	.95	NE	4	b.
Chi Yuen, str.,	23 33	117 25	.92	NE	3	c.
Else, bqt.,	23 31	117 56	...	NE	2	o.
Esmeralda, str.,	23 5	117 8	.90	ENE	4	k.
Cape Colonna, str.,	21 44	113 30	.94	W	2	k.
Taiyick, str.,	21 33	114 2	.94	SE	4	q.
Activ, str.,	21 29	109 5	.89	var.	2	or.
Chowfa, str.,	18 17	111 11	.88	E	1	...
Chingtu, str.,	17 11	117 49	.88	NNE	2	k.
Sungkiang, str.,	16 56	119 32	.86	ESE	1	k.
Martha Bockhahn, bk.,	11 50	112 26	.95	SSW	4	k.
Kweilin, str.,	10 54	102 28	...	SW	4	o.
Peshawur, str.,	8 43	109 15	.92	SW/S	2	k.
Fannie Skolfield, bk.,	6 5	106 50	.90	WNW	2	...
Altair, bk.,	4 41	107 7	...	var.	1	q.
Kutsang, str.,	3 4	105 4	.98	S/W	2	ogp.
September 18th.						
Feilung, str.,	49 8	140 30	...	SW	2	b.
Empress of India, str.,	43 28	158 42	29.99	NW/N	4	k.
Hangchow, str.,	31 2	127 22	.94	SW/S	4	k.
Shanghai, str.,	30 36	122 25	.95	N	4	c.
Tacoma, str.,	28 45	123 25	.97	N	2	b.
Peiyang, str.,	27 37	121 12	.95	NNE	3	c.
Verona, str.,	27 2	122 9	.94	NE/E	4	b.
Empress of Japan, str.,	23 31	117 48	.86	NE	2	b.
Else, bqt.,	22 33	116 28	...	NE	3	b.
Chowfa, str.,	21 34	111 36	.92	N/E	3	...
Activ, str.,	21 29	109 5	.90	N	4	o.
Chingtu, str.,	21 1	115 14	.89	N/E	2	o.
Cape Colonna, str.,	20 10	109 59	.91	NE	4	k.
Frejr, str.,	20 4	110 20	.91	ENE	2	o.
Taiyick, str.,	18 21	111 11	.87	var.	1	or.
Martha Bockhahn, bk.,	12 55	113 32	.86	SW	4	or.
September 18th.						
Phra Nang, str.,	10° 16′	102° 39′	29.85	SW	4	o.
Kweilin, str.,	8 17	104 56	...	SW	2	k.
Fannie Skolfield, bk.,	7 18	107 57	.86	SW	4	...
Altair, bk.,	5 15	108 17	...	SSW	4	...
Peshawur, str.,	4 30	106 26	.92	SW/W	4	k.
Diamond, str.,	3 51	105 58	...	SW	4	k.
September 19th.						
Feilung, str.,	46 1	140 8	...	SW	2	o.
Kiel, str.,	35 43	122 57	...	SE	2	k.
Nanyang, str.,	30 34	122 26	29.95	NE	3	...
Formosa, str.,	30 2	128 38	.97	NE	3	c.
Verona, str.,	29 54	125 54	.96	W	4	ogr.
Hangchow, str.,	28 42	123 37	.95	SW	2	or.
Tacoma, str.,	25 23	120 9	.82	NNE	6	...
Peiyang, str.,	24 10	118 13	.75	N	3	c.
Else, bqt.,	22 3	115 4	...	NE	...	...
Activ, str.,	21 29	109 5	.86	N	3	c.
Esmeralda, str.,	20 43	119 4	.71	NNW	5	c.
Airlie, str.,	19 39	115 54	.82	NE	4	k.
Taiyick, str.,	14 42	110 40	.84	SSE	1	b.
Martha Bockhahn, bk.,	13 55	115 7	.87	...	0	c.
Kweilin, str.,	10 10	108 4	.80	W	4	or.
Fannie Skolfield, bk.,	8 48	109 25	.86	SW	4	q.
Phra Nang, str.,	8 32	105 44	...	W	4	k.
Memnon, str.,	8 17	119 15	.89	SW	4	c.
Diamond, str.,	6 58	107 44	...	SW	2	o.
Altair, bk.,	6 8	110 29	...	SSW	5	q.
Orient, bk.,	4 20	105 56	.91	SW	7	qt.
September 20th.						
City of Peking, str.,	34 39	139 6	29.89	SW/W	2	oq.
Kiel, str.,	32 23	122 50	...	ENE	5	o.
Meefoo, str.,	30 48	122 11	...	NNE	6	o.
Nanyang, str.,	27 9	121 5	.72	E	9	...
Hangchow, str.,	26 0	120 36	.67	SSE	9-10	orq.
Haitan, str.,	25 57	119 58	.53	ESE	4	o.
Formosa, str.,	25 19	119 53	.53	WSW	9	orq.
Chi Yuen, str.,	24 3	118 58	.72	W/S	4	g.
Chingtu, str.,	23 16	117 22	.74	NW/N	2	k.
Tacoma, str.,	22 46	116 17	.79	SW	2	b.
Hongkong, str.,	20 25	109 7	...	S	2	k.
Activ, str.,	20 4	110 20	.83	var.	1	b.
Esmeralda, str.,	16 40	119 28	.79	SSE	2	k.
Airlie, str.,	15 51	118 17	.79	ESE	4	k.
Martha Bockhahn, bk.,	13 41	114 24	.85	...	0	...
Kweilin, str.,	13 2	109 33	.85	...	0	...
Memnon, str.,	12 14	119 30	.84	W	3	cm.
Taiyick, str.,	11 12	108 52	.83	SW	4	o.
Phra Nang, str.,	11 2	108 50	.82	WSW	4	o.
Fannie Skolfield, bk.,	10 47	111 20	.85	SW	6	o.
Diamond, str.,	10 23	109 17	...	W	4	c.
Altair, bk.,	6 37	112 55	...	SW	5	q.
Malwa, str.,	5 48	107 14	.92	SW	1	...
Orient, bk.,	5 46	107 23	.88	SW	5	b.
Pakling, str.,	4 38	106 18	.86	SW	4	orq.
September 21st.						
Verona, str.,	33 49	131 30	29.99	S	1	o.
City of Peking, str.,	32 27	133 28	.99	SW	1	og.
Kiel, str.,	29 16	122 44	...	S	5	o.
Meefoo, str.,	27 37	121 12	...	SSW	4	o.
Chingtu, str.,	26 25	120 43	.83	SW	2	o.
Nanyang, str.,	25 17	119 56	.85	SW	5	k.
Hiogo, Maru, str.,	24 39	119 5	.85	S	2	c.
Hangchow, str.,	23 51	118 8	.82	SW	4	k.
Lyeemoon, str.,	23 35	117 30	.83	...	0	...
Formosa, str.,	22 24	115 10	.86	WSW	2	b.
Activ, str.,	20 31	111 20	.85	NNE	1	c.
Pollux, str.,	19 59	112 32	.87	NW	2	k.
Fooksang, str.,	19 23	112 10	.87	WSW	1	...
Kweilin, str.,	16 18	109 58	.84	NE	2	k.
Memnon, str.,	16 6	117 54	.87	SE	3	cp.
Phra Nang, str.,	14 22	110 7	.84	...	0	k.
Martha Bockhahn, bk.,	13 43	114 48	.85	N	1	...
Diamond, str.,	13 2	110 5	...	N	4	k.
Airlie, str.,	12 43	120 42	.86	SSE	4	orq.
Fannie Skolfield, bk.,	12 18	113 35	.84	WSW	3	cd.
Hesperia, str.,	12 13	109 29	.83	N	2	k.
Malwa, str.,	9 31	109 46	...	NNW	2	...
Pakling, str.,	8 21	108 48	.85	WNW	5	c.

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Vessel.	Lat. North.	Long. East.	Bar.	Wind. Dir.	For. 0-12	Weather.
			ins.			
September 21st.						
Orient, bk.,	6° 41′	108° 38′	29.87	SW	2	orq.
Altair, bk.,	5 43	113 51	...	var.	2	o.
September 22nd.						
City of Peking, str.,	29 58	128 15	30.00	SE/E	3	k.
Chingtu, str.,	29 47	122 35	29.91	SSE	2	k.
Lyeemoon, str.,	26 55	120 50	.93	...	0	...
Hiogo Maru, str.,	26 51	122 37	.95	SE	2	c.
Kiel, str.,	26 33	120 49	...	SSW	4	k.
Meefoo, str.,	24 26	118 30?	...	...	0	k.
Nanyang, str.,	22 45	116 9	.90	E	3	o.
Hangchow, str.,	22 13	114 24	.89	S	2	k.
Memnon, str.,	19 47	115 46	.91	NE	2	crq.
Charon Wattana, bk.,	19 42	114 17	.81	E	3	k.
Kweilin, str.,	19 23	111 52	.85	NE	4	k.
Phra Nang, str.,	18 2	111 0	.89	NE	4	k.
Diamond, str.,	16 48	110 52	...	NE/N	4	k.
Pollux, str.,	16 46	110 45	.88	NE	2	c.
Sungkiang, str.,	16 32	118 43	.86	SSE	2	or.
Fooksang, str.,	15 37	109 56	.88	...	0	k.
Hesperia, str.,	15 10	110 11	.86	NNE	2	k.
Martha Bockhahn, bk.,	14 19	115 2	.85	var.	var.	oug.
Malwa, str.,	13 24	111 59	.87	WNW	1	...
Fannie Skolfield, bk.,	12 54	113 55	.85	SW	2	...
Pakling, str.,	12 2	111 37	.84	WNW	4	o.
Airlie, str.,	8 52	121 55	.87	SSE	4	k.
Orient, bk.,	8 10	109 48	.88	WSW	5	k.
Altair, bk.,	5 52	114 39	...	var.	1	...
Preussen, str.,	4 55	106 27	.91	...	0	o.
September 23rd.						
Lyeemoon, str.,	30 51	122 12	29.87	WNW	3	...
Hiogo Maru, str.,	28 49	126 29	.87	N	4	p.
City of Peking, str.,	27 7	123 19	.95	SW	2	orq.
Kiel, str.,	23 57	118 23	...	S	1	k.
Meefoo, str.,	22 32	115 40?	...	E	2	p.
Kaisow, str.,	22 32	115 30	...	SE	...	oq.
Triumph, str.,	22 0	113 35?	.89	NE	5	orq.
Zafiro, str.,	21 9	118 52	.91	SE	4	k.
Phra Nang, str.,	20 50	113 16	...	ENE	4	oq.
Frejr, str.,	20 30	111 14	.85	NE	5	q.
Sungkiang, str.,	20 1	116 15	.92	ESE	4	or.
Diamond, str.,	19 36	112 20	.75	ENE	5	orq.
Taichiow, str.,	18 33	111 43	.78	NNE	4	o.
Hesperia, str.,	18 23	111 33	.78	NW	2	or.
Malwa, str.,	17 27	113 19	.77	SW	3	...
Pakling, str.,	16 13	113 4	.85	SW	5	k.
Martha Bockhahn, bk.,	15 8	115 32	.89	S	4	orq.
Tailee, str.,	13 50	119 58	.91	NNE	3	k.
Fannie Skolfield, bk.,	13 41	114 25	.86	SW	3	op.
Pollux, str.,	13 16	109 51	.87	SW	4	c.
Fooksang, str.,	11 6	108 45	.86	SW	4	k.
Orient, bk.,	9 36	111 2	.89	W	5	k.
Preussen, str.,	9 9	109 39	.89	NW	2	c.
Taiyick, str.,	7 37	106 56	.86	SW/W	4	b.
Altair, bk.,	5 50	114 12	...	var.	1	...
Airlie, str.,	5 11	123 10	.85	SE	2	k.
Polyphemus, str.,	3 54	105 44	.85	ENE	1	p.
September 24th.						
Ixion, str.,	35 25	139 39	29.85	SW	2	k.
Verona, str.,	34 17	138 23	.90	SW	3	op.
Taiwan, str.,	33 58	129 50	.84	var.	4	or.
Hiogo Maru, str.,	31 2	130 49	.89	SSW	3	or.
Rosetta, str.,	26 31	120 43	.92	S	1	b.
City of Peking, str.,	24 2	118 23	.93	SSW	1	k.
Yuensang, str.,	23 17	117 22	.88	ENE	3	k.
Kiel, str.,	22 25	115 30	...	SSE	2	k.
Moray, str.,	22 23	114 59	.88	SE	5	p.
Malwa, str.,	22 12	114 5	.85	ESE	5	...
Frejr, str.,	21 40?	113 20?	...	ESE	6	q
Activ, str.,	21 32	113 11	.82	SE	6	orq.
Pakling, str.,	21 8	113 40	...	ESE	6	q.
Hesperia, str.,	20 45	113 5	.80	SE	4	o.
Cape Colonna, str.,	20 40	107 36	.78	N	5	...
Triumph, str.,	20 35?	111 45?	.69	SSE	8-9	orq.
Tailee, str.,	17 11	117 36	...	...	0	o.
Zafiro, str.,	17 7	119 39	.89	E	2	c.
Charon Wattana, bk.,	16 43	113 18	...	SSE	4	k.
Martha Bockhahn, bk.,	16 25	116 59	.91	SSE	4	c.
Taichiow, str.,	15 4	110 17	.79	S	4	o.
September 24th.						
Fannie Skolfield, bk.,	15° 3′	115° 12′	29.87	SW	4	cp.
Preussen, str.,	13 57	112 16	.82	SSW	2	c.
Holstein, str.,	12 7	109 20	...	SE	2	k.
Fooksang, str.,	10 47	106 42	.85	...	0	...
Orient, bk.,	10 27	112 27	.89	SW	3	k.
Pollux, str.,	9 41	108 3	.84	WSW	3	k.
Protos, str.,	9 34	103 4	.86	SW	2	...
Polyphemus, str.,	7 35	108 9	.85	NW	...	o.
Altair, bk.,	6 9	115 3	...	var.	2	k.
Deuteros, str.,	4 50	108 47	.88	NW	4	q.
Taiyick, str.,	4 22	105 30	.86	SSW	4	b.
Airlie, str.,	1 44	125 15	.83	SSE	5	k.
September 25th.						
Elizabeth Ahrens, bk.,	36 18	122 2	...	ENE	5	or.
Ixion, str.,	33 24	135 56	29.86	WSW	5	k.
Hiogo Maru, str.,	33 15	135 29	.91	WNW	3	c.
Sin Kolga, bk.,	33 0	126 50	...	WNW	2	o.
Taiwan, str.,	31 19	126 22	.93	SW	4	k.
Kwanglee, str.,	27 52?	121 26?	.87	SSW	2	k.
Ningpo, str.,	27 45?	121 15?	...	S	4	c.
Moray, str.,	24 20	118 56	.88	E	2	k.
Rosetta, str.,	22 59	116 51	.88	SSW	1	c.
Tailee, str.,	20 27	115 37	.88	ENE	3	k.
Activ, str.,	20 10	110 31	.80	WSW	3	o.
Cape Colonna, str.,	20 10	110 37	.87	SE	1	k.
Preussen, str.,	18 55	113 43	.86	NE	2	orq.
Martha Bockhahn, bk.,	17 6	117 40	.89	N	3	c.
Charon Wattana, bk.,	16 12	113 49	...	SE	2	k.
Fannie Skolfield, bk.,	16 2	115 41	.87	...	0	...
Holstein, str.,	15 32	110 19	...	S	2	k.
Polyphemus, str.	11 22	110 48	.85	SSW	...	k.
Orient, bk.,	11 18	113 35	.87	S	1	k.
Taichiow, str.,	11 8	108 50	.80	SW/S	4	o.
Protos, str.,	8 47	106 11	.90	SW	3	...
Mongkut, str.,	8 24	104 49	.85	SW	2	k.
Deuteros, str.,	7 52	109 26	.86	W	3	b.
Pollux, str.,	6 18	106 38	.87	SW	3	k.
Altair, bk.,	6 4	115 15	...	var.	2	k.
September 26th.						
Hiogo Maru, str.,	35 7	139 41	29.90	NE	3	o.
Ixion, str.,	34 40	135 12	.90	...	0	k.
Elizabeth Ahrens, bk.,	33 45	122 16	...	E	3	c.
Taiwan, str.,	28 29	123 30	.92	SSW	4	k.
Moray, str.,	27 28	122 18	.88	E	4	k.
Agamemnon, str.,	26 23	120 30?	...	E	4	k.
Ningpo, str.,	24 50	119 ...	...	N	4	b.
Kwanglee, str.,	24 30	118 40	.79	N	2	k.
Malwa, str.,	22 32	115 22	.89	...	0	...
Cape Colonna, str.,	21 49	113 39	.89	ENE	2	k.
Activ, str.,	21 22	109 3	.82	var.	2	o.
Yuensang, str.,	20 57	118 47	.81	NE	4	k.
Holstein, str.,	19 3	111 54	...	ESE	2	k.
Martha Bockhahn, bk.,	17 10	119 20	.61	N	8	o.
Fannie Skolfield, bk.,	16 20	116 48	.81	NNW	5	orq.
Charon Wattana, bk.,	15 56	113 40	...	...	0	k.
Polyphemus, str.,	15 11	112 47	.84	SW	...	o.
Esmeralda, str.,	14 25	120 30	.61	W/S	6	orq.
Whampoa, str.,	12 11	101 4	...	SW	2	k.
Orient, bk.,	11 58	114 2	.86	WSW	2	c.
Deuteros, str.,	11 14	109 56	.83	WSW	4	o.
Protos, str.,	11 9	108 54	.86	var.	4	...
Mongkut, str.,	10 31	108 17	.85	W	3	k.
Taichiow, str.,	8 38	106 2	.84	SW	4	pq.
Altair, bk.,	7 4	115 47	...	SSW	5	oq.
Arratoon Apear, str.,	3 50	105 50	.89	SE	1	k.
September 27th.						
Fuping, str.,	37 53	120 55	29.95	NE	6	...
Hiogo Maru, str.,	35 25	139 39	.99	N	1	o.
Asagao, str.,	32 26	128 54	.96	SSW	3	q.
Elizabeth Ahrens, bk.,	32 2	122 31	...	NE	4	m.
Moray, str.,	30 34	125 52	...	E	2	k.
Taiwan, str.,	25 48	120 28	.79	E	5	o.
Malwa, str.,	25 9	119 33	.77	ENE	6	...
Peiyang, str.,	23 15	116 52	.73	ENE	3	c.
Kwanglee, str.,	22 31	114 50	.76	NW	2	o.
Nürnberg, str.,	22 19	114 54	.77	NNE	2	c.
Preussen, str.,	22 18	114 40	.77	E	2	c.
Activ, str.,	21 28	109 5	.78	E	3	o.

SEPTEMBER, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 27th.						
Polyphemus, str.,	19° 22′	113° 45′	29.78	N	5	...
Martha Bockhahn, bk.,	17 5	119 17	.30	WNW	11-12	orq.
Fannie Skolfield, bk.,	16 40	117 14	.62	WNW	8	...
Yuensang, str.,	16 5	119 15	.43	NW/W	10	...
Charon Wattana, bk.,	15 30	113 28	...	WSW	2	k.
Esmeralda, str.,	14 40?	120 10?	.64	W/S	6	orq.
Deuteros, str.,	14 27	109 5	.78	WNW	3	k.
Protos, str.,	14 8	109 50	.81	WNW	3	...
Orient, bk.,	13 53	115 13	.78	NW	6	b.
Mongkut, str.,	13 46	110 ...	.78	W	2	k.
Loosok, str.,	11 4	102 3	...	SSE	4	k.
Taichiow, str.,	10 9	102 38	.80	WSW	4	o.
Whampoa, str.,	9 24	103 12	...	SSW	2	k.
Altair, bk.,	7 20	116 50	...	WSW	4	k.
Arratoon Apcar, str.,	7 12	108 8	.79	SW	5	k.
September 28th.						
Hiogo Maru, str.,	35 25	139 39	30.01	N	1	c.
Fuping, str.,	35 14	123 0	.27	E	2	o.
Moray, str.,	33 25	129 18	...	NE	6	o.
Asagao, str.,	29 51	125 40	29.99	var.	1	p.
Elizabeth Ahrens, bk.,	29 2	123 22	...	NE	5	c.
Malwa, str.,	28 31	121 51	.97	NE	5	frq.
Preussen, str.,	24 28	118 36	.80	NE	6	c.
Nürnberg, str.,	24 10	118 27	.77	NE	5	c.
Taiwan, str.,	23 0	117 ...	.69	NE	7	...
Choysang, str.,	22 50?	116 30?	.61	E	8	...
Sungkiang, str.,	22 25	114 57	.60	NE	6	o.
Agamemnon, str.,	20 30	115 30	.19	NE	12	q.
Activ, str.,	20 4	110 20	.72	N	4	o.
Hupeh, str.,	18 30?	114 ...?	.42	NW	9	o.
Velocity, bk.,	18 6	147 45	...	E/N	4	k.
Martha Bockhahn, bk.,	17 44	120 6	.70	SSW	6-7	o.
Protos, str.,	17 24	110 45	.69	NW	6	o.
Mongkut, str.,	17 10	111 1	.70	NW/N	6	o.
Esmeralda, str.,	16 55	118 6	.66	S	3	...
Fannie Skolfield, bk.,	16 54	118 20	.73	NW	6	...
Orient, bk.,	16 7	116 21	.75	SW	6	orq.
Yuensang, str.,	15 6	119 21	.73	SSW	4	p.
Charon Wattana, bk.,	13 59	113 4	...	WSW	...	q.
Pakshan, str.,	11 40	101 29	.82	SW	4	k.
Arratoon Apcar, str.,	10 50	110 26	.77	WSW	2	k.
Whampoa, str.,	9 3	106 50	...	S	4	...
Loosok, str.,	8 23	105 2	...	SSW	4	k.
September 29th.						
Swatow, str.,	35 51	123 3	...	ESE	3	op.
Kungpai, str.,	35 37	122 47	30.19	E/S	4	or.
Hiogo Maru, str.,	35 25	139 39	.23	...	0	c.
Ixion, str.,	34 40	135 12	.18	var.	2	k.
Loksang, str.,	33 53	130 10	.12	NW	2	k.
Fuping, str.,	31 30	122 17	.12	E	2	k.
Elax, str.,	31 12	128 41	.17	ENE	5	k.
Preussen, str.,	28 6	121 41	.04	E	3	c.
Elizabeth Ahrens, bk.,	27 40	121 50	...	SE	5	o.
Asagao, str.,	27 28	122 41	.00	ESE	4	k.
Peiyang, str.,	26 42	120 12	29.98	NE/E	4	c.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
September 29th.						
Nürnberg, str.,	26° 16′	121° 46′	29.95	ESE	3	c.
Sungkiang, str.,	22 54	116 32	.84	E	6	o.
Rosetta, str.,	21 59	114 1	.78	ESE	7	orqu.
Esmeralda, str.,	20 21	115 59	.78	E	4	o.
Hanoi, str.,	20 10?	109 40?	...	NNW	11	q.
Triumph, str.,	20 4	110 20	.40	SSE	11	orq.
Activ, str.,	20 4	110 20	.31	SE/E	12-10	or.
Agamemnon, str.,	20 ...	115 25	.72	...	5	op.
Protos, str.,	18 41	111 36	.57	S	8	or.
Martha Bockhahn, bk.,	18 33	120 0	.85	NE	6	og.
Fannie Skolfield, bk.,	18 13	117 45	.82	SSE	4	k.
Orient, bk.,	18 4	118 1	.83	SE	6	k.
Velocity, bk.,	18 2	144 16	...	E/N	5	k.
Hupeh, str.,	17 41	113 54	.71	S/E	6	o.
Mongkut, str.,	16 25	110 44	.64	W	8	...
Charon Wattana, bk.,	14 15?	112 30	.68	SW	6	...
Whampoa, str.,	12 5	109 25	...	var.	2	...
Loosok, str.,	10 58	108 41	.74	SW/S	2	k.
Pakshan, str.,	8 57	103 52	.82	SW	4	op.
Altair, bk.,	6 20	118 30	...	SW/S	2	k.
September 30th.						
Hiogo Maru, str.,	35 25	139 39	30.26	NE	2	or.
Chusan, str.,	33 41	129 58	.05	W	1	...
Loksang, str.,	32 17	126 32	.12	...	0	...
Swatow, str.,	32 17	123 17	.17	SW	2	o.
Kungpai, str.,	31 54	122 42	.14	NW	2	o.
Peiyang, str.,	29 51	122 34	.10	ENE	2	c.
Elax, str.,	29 44	125 20	.13	S	3	k.
Nürnberg, str.,	28 22	126 11	.06	ESE	4	c.
Fuping, str.,	28 7	121 34	.10	NE	2	k.
Elizabeth Ahrens, bk.,	26 4	120 28	...	E	6	o.
Asagao, str.,	25 ...	119 24	29.85	NE	6	...
Choysang, str.,	24 40	118 45	.87	NE/N	8	b.
Tacoma, str.,	23 0	117 0	.87	NE	7	b.
Protos, str.,	21 9	113 12	.91	ENE	5	b.
Triumph, str.,	20 45	111 45?	.84	ESE	4	k.
Hanoi, str.,	20 17	110 15	...	E	5	...
Activ, str.,	20 4	110 20	.84	ENE	3	or.
Fannie Skolfield, bk.,	20 3	116 23	.85	N/E	2	o.
Orient, bk.,	19 3	117 56	.78	N/W	7	o.
Martha Bockhahn, bk.,	19 2	119 54	.66	NE	9	...
Velocity, bk.,	18 27	141 11	...	NE	4	k.
Arratoon Apcar, str.,	18 12	113 42	.85	ENE	2	k.
Mathilde, str.,	18 5	109 43	...	ESE	...	...
Deuteros, str.,	16 47	108 53	.80	E/S	4	o.
Agamemnon, str.,	16 30	115 30	.78	NW	2	k.
Zafiro, str.,	15 46	119 ...	.64	NW/N	8	orq.
Whampoa, str.,	15 36	110 15	...	var.	2	o.
Hupeh, str.,	14 38	112 40	.79	SW/W	5	o.
Charon Wattana, bk.,	14 26	112 1	...	var.	1	o.
Loosok, str.,	14 12	110 17	.76	W	4	og.
Fooksang, str.,	10 18	107 20	.86	SSW	2	k.
Pakshan, str.,	9 21	106 57	.88	SW	2	k.
Niobe, str.,	5 20	106 12	...	SW	4	o.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 1st.						
Verona, str.,	34° 33′	138° 54′	30.18	N	5	or.
China, str.,	34 32	138 57	.22	NNE	5	o.
Ixion, str.,	33 58	130 55	.10	var.	...	k.
Hiogo Maru, str.,	33 26	135 40	.11	S	2	c.
Chusan, str.,	32 0	126 11	.00	S	3	c.
Nürnberg, str.,	31 1	130 59	.10	E	2	c.
Loksang, str.,	29 54	123 54	.02	E	4	k.
Swatow, str.,	29 14	122 34	.08	E	3	cp.
Kungpai, str.,	29 4	122 7	.08	SE	2	...
Fushun, str.,	28 15	121 42	29.94	var.	2	o.
Elax, str.,	27 25	121 44	.98	SE	6	k.
Choysang, str.,	26 0	119 56?	.82	NE	8	ogd.
Fuping, str.,	24 55	119 31	.80	NE	7-8	...
Tacoma, str.,	24 0	118 9	.76	NE	9	c.
Elizabeth Ahrens, bk.,	23 34?	117 28?	...	NE	10	omr.
Asagao, str.,	22 40	115 57	.71	NE	6	m.
Arratoon Apcar, str.,	21 42	114 0	.67	N	6	...
Alwine, str.,	21 36	113 34?	...	NW?	6	...
Activ, str.,	21 28	112 27	.72	N	4	o.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 1st.						
Fannie Skolfield, bk.,	21° 3′	115° 7′	29.62	NNE	8-9	...
Mathilde, str.,	20 45	112 24	.74	NW	5	k.
Memnon, str.,	20 17	114 33	.58	NW/N	6	oumgq.
Java, str.,	19 49	113 34	.64	N	6	orq.
Mongkut, str.,	19 45	113 40	.66	N/W	8	odq.
Velocity, bk.,	18 50	138 20	...	NE	4	p.
Whampoa, str.	18 47	111 20	...	NNW	5	k.
Orient, bk.,	18 44	118 4	.23	N	12	or.
Deuteros, str.,	18 39	110 38	.85	NW	3	...
Loosok, str.,	18 2	111 30	.70	NNW	6	o.
Martha Bockhahn, bk.,	17 44	118 48	28.67	W	9	...
Zafiro, str.,	16 5	118 55	29.44	SW	9	...
Yuensang, str.,	14 35	120 58	.69	SSE	2	o.
Charon Wattana, bk.,	13 33	111 42	...	W	6	q.
Agamemnon, str.,	13 ...	113 ...	.70	WNW	4	or.
Rosetta, str.,	12 50	111 51	.75	W	5	og.
Fooksang, str.,	12 39	109 29	.82	NE/N	2	o.
Pakshan, str.,	11 40	109 13	.84	SSW	2	k.
Hupeh, str.,	11 7	110 37	.81	WSW	5	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
October 1st.						
Jacob Diederichsen, str.,	10° 27′	122° 8′	29.82	WSW	6	or.
Niobe, str.,	8 56	108 29	...	NW	4	opq.
Altair, bk.,	5 55	118 36	...	...	0	...
Catterthun, str.,	5 3	123 14	.88	NNW	2	b.
Tsinan, str.,	4 59	123 18	.85	NNE	1	k.
October 2nd.						
Hiogo Maru, str.,	34 40	135 12	30.03	W	1	p.
Nürnberg, str.,	33 38	136 37	.00	WSW	3	c.
Ixion, str.,	32 32	126 26	.00	N	4	p.
China, str.,	31 34	133 56	.09	SW	3	cp.
Chingtu, str.,	31 9	125 22	29.99	NE	5	c.
Chusan, str.,	29 10	123 0	.90	NE	4	oq.
Oanfa, str.,	28 35	122 4	.99	SSE	2	orq.
Choysang, str.,	28 35	121 52?	.96	NE	2	ogr.
Loksang, str.,	27 26	121 11	.88	NE	4	og.
Swatow, str.,	26 11	120 22	...	NE	4	op.
Kungpai, str.,	25 59	120 20	.85	ENE	4	pm.
Tacoma, str.,	25 30	119 58	.82	NE/E	6	...
Fushun, str.,	24 59	119 28	.80	NNE	5	om.
Elax, str.,	24 44	119 12	.85	SE	4	k.
Sungkiang, str.,	23 58	118 14	.79	E	4	o.
Fuping, str.,	22 44	116 6	.68	E	8	...
Activ, str.,	21 35	112 34	.20	NW/N	10-12	orq.
Alwine, str.,	21 35	112 34	...	N/E?	12	or.
Mathilde, str,	21 18	113 37	28.95	NE	12	orq.
Fannie Skolfield, bk.,	20 57	115 47	...	S	8-9	...
Deuteros, str.,	20 12?	111 25?	29.25	W/N	12	orq.
Martha Bockhahn, bk.,	20 6	119 34	.70	SE	7-8	...
Hanoi, str.,	20 4	110 20	.45	NW	9	...
Mongkut, str.,	20 1	112 55	.05	N	5	...
Velocity, bk.,	19 43	135 17	...	NNE	7	og.
Whampoa, str.,	19 20?	113 5?	...	WNW	11	q.
Loosok, str.,	19 13	111 54	.26	WNW	3	orq.
Orient, bk.,	18 54	117 44	.63	ESE	11	or.
Memnon, str.,	18 23	113 50	.30	WSW	12	gmg.
Zafiro, str.,	18 18	117 15	.65	S	5	o.
Java, str.,	18 8	114 59	.35	SW/S	10	orq.
Fooksang, str.,	15 36	109 30	.65	NW/W	8	o.
Yuensang, str.,	14 34	120 58	.77	W	...	k.
Paksan, str.,	13 58	110 2	.75	SW	4	o.
Jacob Diederichsen, str.,	12 29	120 51	.82	SW	4	b.
Phra Chom Klao, str.,	12 23	100 56	.81	SSW	5	c.
Charon Wattana, bk.,	12 23	111 25	...	SW	6	k.
Niobe, str.,	11 50	111 26	...	WSW	4	o.
Agamemnon, str.,	10 15?	110 52?	.76	WSW	4	k.
Catterthun, str.,	8 55	121 44	.88	var.	1	b.
Tsinan, str.,	8 55	121 51	.87	N	2	k.
Rosetta, str.,	8 43	109 13	.84	WSW	6	og.
Hupeh, str.,	7 49	108 46	.87	S/W	6	q.
October 3rd.						
Hiogo Maru, str.,	34 20	133 40	29.99	N	2	o.
Empress of India, str.,	33 45	135 9	.92	NW	4	p.
Ixion, str.,	31 22	121 37	.97	NNE	4	o.
Chingtu, str.,	30 56	130 39	.87	ENE	2	k.
China, str.,	28 47	128 48?	.96	SE	3	k.
Tacoma, str.,	28 42	122 6	.93	N	2	o.
Chusan, str.,	26 34	121 0	.79	E	3	o.
Oanfa, str.,	26 9	119 57	.87	NNE	5	orq.
Loksang, str.,	24 29	118 47	.77	NNE	4	k.
Kungpai, str.,	23 26	117 42	.77	SE/S	5	orq.
Swatow, str.,	23 26	117 38	.79	SE	1	k.
Elax, str.,	22 40	115 56	.69	SE	9	...
Fushun, str.,	22 40	116 ...	.76	SSE	6	or.
Java, str.,	21 49	114 24	.64	SE/S	6	o.
Zafiro, str.,	21 48	114 48	.65	SSE	4	orq.
Mathilde, str.,	21 38?	112 58?	.48	SSW	7	...
Activ, str.,	21 35	112 34	.45	S/W	7	or.
Alwine, str.,	21 35	112 34?	...	SSW	5	q.
Sungkiang, str.,	21 15	119 5	.75	SSE	5	...
Mongkut, str.,	21 10	113 20	.57	S	8	...
Martha Bockhahn, bk.,	21 5	119 39	.83	S	4	o.
Orient, bk.,	20 17	116 17	.75	SSE	8	c.
Loosok, str.,	20 7	112 7	.52	SSW	6	p.
Hanoi, str.,	20 4	110 20	.45	NW	12	or.
Velocity, bk.,	19 59	134 26	...	SSW	10-11	orq.
Whampoa, str.,	19 34	113 0	...	SW	7	...
Deuteros, str.,	19 20	110 57	.53	SW/W	6	...
Fooksang, str.,	17 51	109 10	.63	WSW	5	om.
October 3rd.						
Pakshan, str.,	16° 54′	110° 37′	29.72	W	4	o.
Memnon, str.,	15 48	115 54	.76	SW	4	c.
Niobe, str.,	15 11	113 27	...	SW	5	ol.
Jacob Diederichsen, str.,	14 39	119 35	.82	SW	5	o.
Yuensang, str.,	14 34	120 58	.83	W	3	...
Tsinan, str.,	12 57	120 23	.85	var.	2	om.
Catterthun, str.,	12 53	120 32	.88	var.	2	o.
Charon Wattana, bk.,	12 16	110 57	.85	SW	6	...
Stanfield, sh.,	10 57	113 27	...	SW	4	...
Soochow, str.,	10 15	107 52	.85	NE	2	k.
Phra Chom Klao, str.,	9 12	103 28	.83	SW	2	cp.
Agamemnon, str.,	8 ...	109 ...	.80	SW	4	q.
Hupeh, str.,	4 40	106 11	.81	SSW	5	b.
Rosetta, str.,	4 35	106 16	.84	SSW	3	c.
Glenartney, str.,	3 55	105 53	.86	S	3	c.
October 4th.						
Empress of China, str.,	34 28	134 28	29.96	N	4	or.
Hiogo Maru, str.,	33 57	130 44	30.00	...	0	omr.
Chingtu, str.,	33 53	134 50	29.98	N/E	7	o.
Verona, str.,	33 48	131 37	30.00	N	3	or.
Lawang, str.,	33 43	134 47	...	N	5-6	or.
Moray, str.,	33 31	129 32	.01	N	4	or.
Tacoma, str.,	31 10	121 57	.07	N	4	c.
Shanghai, str.,	30 22	122 22?	.04	NE/N	5	or.
Lyeemoon, str.,	28 25	122 0	29.98	N	7	orq.
China, str.,	26 36	123 9	.88	NE	4	c.
Chusan, str.,	25 50	117 50	.79	NE	3	cq.
Loksang, str.,	22 44	115 59	.77	SE	...	k.
Kungpai, str.,	22 19	114 43	.78	SE	4	or.
Activ, str.,	22 1	113 48	.74	SE	4	o.
Martha Bockhahn, bk.,	21 34	120 8	.85	SE	1	c.
Orient, bk.,	20 45	115 49	.84	S	5	b.
Velocity, bk.,	20 15	134 11	...	S	4	k.
Fooksang, str.,	20 8	112 16	.77	W	2	o.
Hanoi, str.,	20 4	110 20	...	W	6	...
Pakshan, str.,	19 27	112 42	.77	var.	2	og.
Niobe, str.,	18 58	114 0	...	S	2	o.
Sungkiang str.,	17 17	119 8?	.81	SSW	2	or.
Jacob Diederichsen, str.,	16 55	118 31	.82	SW	4	b.
Tsinan, str.,	16 31	118 8	.80	W/N	2	c.
Catterthun, str.,	16 23	118 18	.83	WSW	3	b.
Yuensang, str.,	15 47	119 6	.83	W	5	q.
Soochow, str.,	13 4	109 34	.79	NW	4	k.
Stanfield, sh.,	12 12	114 33	...	WSW	4	b.
Charon Wattana, bk.,	12 11	109 54	.83	S	2	k.
Memnon, str.,	12 4	117 30	.82	SW	2	c.
Phra Chom Klao, str.,	9 33	107 10	.83	W	3	k.
Glenartney, str.,	7 46	108 7	.88	SW	4	orq.
Agamemnon, str.,	4 59	106 33	.80	SW	3	o.
Nijni Novgorod, str.,	4 0	105 18	.83	W	1	c.
Hupeh, str.,	1 19	104 16	.85	var.	1	or.
October 5th.						
Hiogo Maru, str.,	33 57	130 44	30.19	E	1	cr.
Empress of China, str.,	33 27	129 25	.16	NE	4	o.
Lawang, str.,	31 5	131 52	...	NNE	6	...
Tacoma, str.,	31 4	122 9	...	var.	4	c.
Moray, str.,	30 54	126 10	.06	NE	6	o.
Toonan, str.,	28 ...	121 45?	.04	NE	6	...
Shanghai, str.,	25 57	120 21	.05	NE/N	8	o.
Lyeemoon, str.,	24 11	118 33	29.94	NNE	9	k.
China, str.,	23 34	117 47	.98	NE	6	o.
Tailee, str.,	22 58	116 25	.94	NE	8	o.
Esmeralda, str.,	22 31	114 50	.87	E/N	6	...
Basuto, bk.,	22 20?	120 23?	...	NE	2	or.
Hanoi, str.,	21 55?	113 30?	.88	E	8	o.
Martha Bockhahn, bk.,	21 40	120 8	.84	...	0	o.
Velocity, bk.,	20 27	131 53	...	S	4	k.
Tsinan, str.,	20 13	115 32	.87	N	2	k.
Catterthun, str.,	20 7	115 50	.90	N	3	b.
Jacob Diederichsen, str.,	19 50	117 1	.87	NE	5	c.
Yuensang, str.,	19 45	116 40	.89	N	3	op.
Soochow, str.,	16 53	110 52	.83	N/W	4	og.
Stanfield, sh.,	12 49	116 44	...	S	2	b.
Phra Chom Klao, str.,	12 19	109 30	.81	N	3	k.
Glenartney, str.,	11 11	111 11?	.89	SW/S	3	c.
Charon Wattana, bk.,	10 58	109 45	.85	WSW	2	k.
Chowfa, str.,	9 34	103 7	.86	SW	4	or.
Memnon, str.,	8 13	116 45	.81	SE	3	cp.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 5th.						
Nijni Novgorod, str.,	6° 59′	106° 7′	29.86	W	1	o.
Ningchow, str.,	3 36	105 45	...	var.	3	k.
October 6th.						
Nürnberg, str.,	34 40	139 5	30.26	NNE	5	od.
H.M.S. Peacock,	32 49	129 44	.26	NE	4	c.
Empress of China, str.,	32 22	128 6	.21	NE	4	c.
Tacoma, str.,	32 10	125 7	.24	NE	6	c.
Verona, str.,	29 35	125 33	.14	NE	6	or.
Lawang, str.,	29 25	129 38	...	NE	6	c.
Moray, str.,	28 5	123 3	.04	NE	6	orq.
Shanghai, str.,	24 27	118 5	29.88	NE	5	k.
Toonan, str.,	24 10	108 13?	.81	N	9	q.
Esmeralda, str.,	23 48	117 45?	.76	NE/N	5	k.
Clyde, str.,	22 22	114 59	...	NNW	4	k.
Basuto, bk.,	21 53	120 53	...	N	6	...
Martha Bockhahn, bk.,	21 41	120 42	.40	NW	8	...
Jacob Diederichsen, str.,	21 24	114 30	.87	NNE	6	b.
Velocity, bk.,	20 37	129 24	...	ESE	4	k.
Deuteros, str.,	20 5	110 54	.92	NW	3	or.
Soochow, str.,	19 52	112 39	.91	NNE	5	k.
Glenartney, str.,	15 8	112 58	.84	NE	2	k.
Phra Chom Klao, str.,	14 50	109 57	.93	N	3	or.
Stanfield, sh.,	13 8	117 56	...	WNW	1	b.
Charon Wattana, bk.,	9 46	109 31	.90	NW	2	k.
Nijni Novgorod, str.,	9 45	107 22	.84	NW	2	o.
Chowfa, str.,	9 16	106 36	.84	...	0	...
Ningchow, str.,	7 1	107 57	...	N/E	4	c.
October 7th.						
Nürnberg, str.,	34 40	135 12	30.32	N	3	c.
Tacoma, str.,	33 10	127 37	.23	E	8	b.
Mogul, str.,	32 30	129 55	.15	NE	2	k.
Rohilla, str.,	31 15	121 43	.09	ENE	4	or.
Choysang, str.,	31 15	121 43	.13	NE	4	og.
Hiogo Maru, str.,	31 0	126 58	.16	ENE	5	c.
H.M.S. Peacock,	29 30	125 16	.09	E	4	cp.
Mount Washington, bk.,	28 34	148 0	...	NE	11	urq.
Lawang, str.,	28 26	125 7	...	E	6	o.
Verona, str.,	26 23	121 9	29.90	ENE	5	c.
Moray, str.,	25 19	119 53	.75	NE	5	o.
Clyde, str.,	23 32	117 55	.72	NE/N	6-7	...
Shanghai, str.,	23 30	117 35	.77	NE	6	...
Oanfa, str.,	22 24	115 3	.71	N/W	5	c.
Martha Bockhahn, bk.,	22 ...	119 45?	.59	ESE	9-10	omr
Triumph, str.,	21 50	113 10?	.73	N/W	7	o.
Deuteros, str.,	21 28	112 54	.77	N	10	o.
Velocity, bk.,	20 46	126 54	...	E	4	k.
Haiphong, str.,	20 15?	110 10?	.81	NW	3	...
Glenartney, str.,	18 49	113 27	.74	NNW	6	og.
Phra Chom Klao, str.,	18 28	110 43	.80	NNW	6	k.
Stanfield, sh.,	14 2	118 43	...	SW	1	b.
Chowfa, str.,	11 51	109 18	.84	NNE	4	k.
Nijni Novgorod, str.,	11 33	109 12	.79	NE	3	b.
Ningchow, str.,	10 17	109 51	.82	NE/N	4	k.
Charon Wattana, bk.,	9 9	107 16	...	WSW	...	k.
October 8th.						
Tacoma, str.,	33 58	130 55	30.18	SE	5	k.
Ixion, str.,	31 21	121 39	.08	NNE	2	k.
Empress of China, str.,	31 15	121 50	.09	N/E	2	o.
Mogul, str.,	29 49	125 33	.02	E	4	ogp.
Hiogo Maru, str.,	28 52	123 26	.03	ENE	4	o.
Mount Washington, bk.,	28 29	148 11	...	NE	11	urq.
Rohilla, str.,	27 40	121 38	29.98	E	5	c.
Choysang, str.,	27 18	121 ...	.95	NNE	2	op.
H.M.S. Peacock,	26 50	121 53	.96	E	2	c.
Lawang, str.,	26 19	121 7	...	ENE	2	b.
Clyde, str.,	26 11	120 13	.92	NE	5	...
Chi Yuen, str.,	23 26	117 5	.81	ENE	5	op.
Shanghai, str.,	23 20	116 44	.84	NE	4	orq.
Esmeralda, str.,	23 14	118 24	.84	ENE	4	...
Verona, str.,	23 7	117 8	.86	E	3	c.
Moray, str.,	22 54	116 28	.78	SE	4	opq.
Martha Bockhahn, bk.,	22 26	118 16	.79	ESE	6	...
Haiphong, str.,	21 36	112 44	.46	NNE	7	orq.
Triumph, str.,	21 35	112 34	.46	N?	11-12	...
Velocity, bk.,	20 54	123 36	...	NE	4	k.
Glenartney, str.,	20 30	113 40	.26	S	10	orq.
Phra Chom Klao, str.,	19 56	112 38	.54	WSW	9	q.
Stanfield, sh.,	14 28	118 44	...	...	0	...
October 8th.						
Chowfa, str.,	14° 20′	110° 3′	29.80	NW	6	o.
Ningchow, str.,	13 32	111 49	.80	NW	6	...
Nijni Novgorod, str.,	12 48	109 30.	.80	NW	4	o.
Charon Wattana, bk.,	8 58	106 41	...	SW	5	...
October 9th.						
Nürnberg, str.,	34 26	134 4	30.24	ENE	3	b.
Clyde, str.,	30 37	122 22	.02	E	3	k.
Nanyang, str.,	28 36	122 14	29.99	NE	2	b.
Peiyang, str.,	28 16?	121 45?	30.03	ENE	2	c.
Mount Washington, bk.,	28 1	147 15	...	NE	11	crq.
Ixion, str.,	27 13	121 10	.00	ENE	4	k.
Mogul, str.,	27 2	121 24	29.98	E	2	k.
Hiogo Maru, str.,	26 17	119 57	.97	N	3	p.
Empress of India, str.,	25 37	120 10	.94	ENE	4	c.
H.M.S. Peacock,	23 57	118 32	.91	NNW	2	cq.
Choysang, str.,	23 56	117 50?	.92	NE	4	k.
Rohilla, str.,	23 50	118 15	.98	NNE	5	k.
Lawang, str.,	23 22	117 40	...	NE	4	b.
Java, str.,	22 29	115 19	.92	ENE	3	k.
Martha Bockhahn, bk.,	22 26	116 56	.90	var.	4	orq.
Catterthun, str.,	22 24	115 6	.94	E/N	4	b.
Phra Chom Klao, str.,	22 9	114 2	.89	...	...	...
Basuto, bk.,	22 2	118 33	...	...	0	...
Haiphong, str.,	21 41	113 20?	.89	ENE	5	...
Triumph, str.,	21 35	112 34	.88	SE	2	k.
Velocity, bk.,	21 12	120 36	...	NNE	4	k.
Esmeralda, str.,	18 51	119 17	.81	ESE	5	k.
Chowfa, str.,	17 32	111 2	.86	WNW	3	...
Ningchow, str.,	17 3	113 24	.89	NE	2	...
Nijni Novgorod, str.,	14 37	109 10	.84	N	2	o.
Stanfield, sh.,	14 26	119 2	...	NNE	1	b.
Charon Wattana, bk.,	8 22	106 32	.93	W	...	o.
October 10th.						
Nürnberg, str.,	33 20	129 25	30.02	S	4	o.
Mount Washington, bk.,	27 51	146 55	29.92	NE	6	cq.
Peiyang, str.,	24 59	119 28	.86	NNE	4	b.
Chi Yuen, str.,	24 45	118 45	.85	NE/N	4	k.
Java, str.,	24 30	119 0	.91	NE/N	5	c.
Catterthun, str.,	24 2	118 25	.92	NE/N	4	c.
Mogul, str.,	23 32	117 46	.87	NE	5	k.
Basuto, bk.,	22 28	117 37	...	NNW	2	...
Empress of China, str.,	22 17	114 50	.90	NE	3	k.
H.M.S. Peacock,	22 16	114 47	.92	WNW	2	c.
Martha Bockhahn, bk.,	22 12	115 9	.90	NE	5	k.
Velocity, bk.,	21 38	120 23	...	var.	1	...
Ningchow, str.,	21 25	113 50	...	N	4	k.
Chowfa, str.,	20 48	113 8	.92	N	2	k.
Tailee, str.,	20 27	115 27	.90	N	4	k.
Nijni Novgorod, str.,	16 45	109 36	.87	NNW	2	c.
Sungkiang, str.,	16 18	118 53	.81	NNW	1	...
Stanfield, sh.,	14 36	119 33	...	NW	1	b.
Esmeralda, str.,	14 27	119 50?	.79	NNW	1	k.
Charon Wattana, bk.,	8 0	106 45	...	WSW	2	o.
October 11th.						
Nürnberg, str.,	30 49	127 10	29.89	NNE	2	c.
Mount Washington, bk.,	28 18	144 15	...	E	6	cq.
Java, str.,	27 0	120 42	.96	NNE	6	cp.
Chi Yuen, str.,	26 30	120 15?	.90	NNE	4	k.
Hiogo Maru, str.,	26 5	119 45	.93	NE	5	c.
Catterthun, str.,	26 4	120 14	.92	NE	5	b.
Glenartney, str.,	23 2	116 52	.90	NE	5	c.
Peiyang, str.,	22 39	115 35	.90	WNW	2	c.
Basuto, bk.,	22 30	116 50?	...	NE	...	...
Yuensang, str.,	22 28	115 14	.85	NNE	3	b.
Velocity, bk.,	21 54	120 5	...	WSW	2	...
Sungkiang, str.,	19 52	116 33	.85	NNW	2	...
Nigni Novgorod, str.,	18 50	111 15	.88	N/W	3	c.
Tailee, str.,	16 12	113 47	.89	var.	2	k.
Stanfield, sh.,	14 57	119 33	...	NNW	1	b.
Charon Wattana, bk.,	7 51	106 35	...	W	var.	q.
October 12th.						
Mount Washington, bk.,	28 45	142 58	...	NW	6	bq.
Chi Yuen, str.,	28 42	121 55	29.87	N/E	5	k.
Catterthun, str.,	28 34	122 5	.85	NNE	5	b.
Nürnberg, str.,	27 43	122 54	.82	N	5	o.
Ixion, str.,	26 7	119 51	.80	ENE	5	k.
Glenartney, str.,	25 15	119 51	.84	NNE	7	c.
Yuensang, str.,	24 27	118 5	.78	NW	4	b.

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Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
October 12th.						
Hiogo Maru, str.,	24° 27′	118° 5′	29.85	S	1	c.
Basuto, bk.,	22 32	116 5	...	...	0	...
Velocity, bk.,	22 25	117 5	...	N	4	k.
Nijni Novgorod, str.,	21 9	112 48	.87	N	2	c.
Stanfield, bk.,	15 7	119 41	...	var.	1	q.
Tailee, str.,	12 40	111 36	.86	var.	1	k.
Taichiow, str.,	9 10	103 30	.88	SW	4	p.
Charon Wattana, bk.,	7 51	106 0	...	var.	3	k.
October 13th.						
Chi Yuen, str.,	31 17	121 45	29.90	N	4	k.
Mount Washington, bk.,	28 52	141 50	...	E	6	b.
Glenartney, str.,	28 2	121 27	.85	N	5	c.
Preussen, str.,	27 29	121 26	.82	NE	5	b.
Nürnberg, str.,	24 21	118 51	.87	NE	3	b.
Ixion, str.,	22 47	116 23	.86	W	2	k.
Basuto, bk.,	22 24	115 3	...	...	0	...
Stanfield, sh.,	15 18	119 38	...	NE/E	1	b.
Taichiow, str.,	9 11	106 45	.85	var.	1	pq.
Tailee, str.,	8 55	109 2	.86	SSE	2	k.
Memnon, str.,	7 54	119 1	.83	W	2	cm.
Charon Wattana, bk.,	7 51	105 33	...	W	2	q.
October 14th.						
Nanyang, str.,	32 45	122 43	30.00	N	6	b.
Glenartney, str.,	30 41	122 21	29.92	WNW	6	c.
Mount Washington, bk.,	29 30	138 40	...	SE	4	b.
Verona, str.,	23 44	118 8	30.02	NE	4	...
Preussen, str.,	23 7	117 16	.01	N	2	b.
Nijni Novgorod, str.,	22 19	114 46	29.98	NNE	3	b.
Hiogo Maru, str.,	21 17	118 13	.95	NE	4	c.
Yuensang, str.,	20 48	118 44	.89	NE	3	c.
Stanfield, sh.,	15 35	119 34	...	N	1	q.
Taichiow, str.,	11 42	109 12	.87	NE	3	o.
Memnon, str.,	11 41	119 52	.85	SW	1	c.
Tailee, str.,	5 25	106 38	.89	W	5	c.
October 15th.						
Nanyang, str.,	36 24	122 43	30.29	E	3	b.
Sin Kolga, bk.,	30 45	123 25	...	NE	5	k.
Mount Washington, bk.,	29 23	135 21	...	SW	3	b.
Verona, str.,	26 10	121 5	.16	NE/N	5	b.
Nijni Novgorod, str.,	23 13	117 7	.06	NE/N	5	c.
Lyeemoon, str.,	22 28	115 5	.05	E/N	5	k.
Tsinan, str.,	22 25	115 4	.10	ENE	6	...
Hiogo Maru, str.,	17 29	118 54	29.91	NE	7	c.
Yuensang, str.,	16 36	119 28	.86	NE	5	b.
Stanfield, sh.,	15 55	119 15	...	N	1	b.
Esmeralda, str.,	15 55	119 0	.86	NNW	2	k.
Memnon, str.,	15 18	118 0	.87	NE	2	c.
Taichiow, str.,	14 24	110 0	.92	NNE	5	...
Tailee, str.,	2 2	104 35	.89	W/S	4	c.
October 16th.						
Sin Kolga, bk.,	31 3	124 33	...	...	0	k.
Mount Washington, bk.,	30 0	135 37	...	NE	3	b.
Verona, str.,	28 39	124 25	30.17	NE/N	5	b.
Nijni Novgorod, str.,	24 44	118 58	.09	NNE	6	c.
Lyeemoon, str.,	24 23	118 28	.08	NE	6	...
Tsinan, str.,	24 8	118 20	.11	NE	6	k.
Esmeralda, str.,	19 27	116 31	.06	NE	6	...
Memnon, str.,	18 49	116 10	29.94	NE	7	cm.
Taichiow, str.,	17 2	110 42	.95	NE/N	6	q.
Stanfield, sh.,	16 12	119 30	...	...	0	...
Yuensang, str.,	17 34	120 58	.90	SE	1	c.
Hiogo Maru, str.,	14 28	120 40	.90	NE	2	c.
Tailee, str.,	1 35	102 58	.94	W	4	op.
October 17th.						
Verona, str.,	31 20	127 51	30.06	NNE	4	c.
Sin Kolga, bk.,	31 8	125 23	...	N	1	k.
Mount Washington, bk.,	30 5	132 26	...	NE	4	b.
Chi Yuen, str.,	28 53	122 15	.11	N	1	k.
Catterthun, str.,	28 15	121 54	.11	var.	2	b.
Lyeemoon, str.,	27 27	120 54	.07	N	2	...
Nijni Novgorod, str.,	26 26	120 26	.11	N	2	b.
Tsinan, str.,	26 4	121 32	.12	NE	6	k.
Taichiow, str.,	19 9	112 0	.04	NE	5	o.
Stanfield, sh.,	16 39	119 25	...	...	0	...
Yuensang, str.,	14 34	120 58	29.97	ESE	2	c.
Hiogo Maru, str.,	14 34	120 58	.94	N	1	c.
Sachem, sh.,	2 17	123 15	...	var.	1	orq.
October 18th.						
Chingtu, str.,	34° 25′	133° 55′	29.88	WSW	4	k.
Sin Kolga, bk.,	32 3	125 51	...	NW	5	k.
Lyeemoon, str.,	31 6	122 2	30.15	NW/N	6	...
Mount Washington, bk.,	29 56	135 22	...	...	4	b.
Nijni Novgorod, str.,	28 33	122 18	.13	N	7	o.
Tsinan, str.,	28 11	125 36	.05	N	4	k.
Catterthun, str.,	26 9	119 54	.09	ENE	2	b.
Chi Yuen, str.,	26 0	120 2	.09	NE	2	k.
Taichiow, str.,	22 0	113 52	.05	NE	4	...
Peiyang, str.,	19 23	116 11	.02	ENE	2	c.
Stanfield, sh.,	16 53	119 31	...	NE	1	b.
Yuensang, str.,	14 34	120 58	29.94	var.	1	b.
Sachem, sh.,	2 20	125 20	...	var.	1	orq.
October 19th.						
Victoria, str.,	45 16	163 56	30.20	SSW	4	or.
Verona, str.,	33 47	132 4	.00	WNW	4	b.
Tsinan, str.,	30 28	129 56	29.99	N/E	6	k.
Nijni Novgorod, str.,	30 1	123 9	30.21	N	5	c.
Sin Kolga, bk.,	30 0	126 4	...	NNW	7	...
Mount Washington, bk.,	29 14	134 12	...	NW	6	b.
Chi Yuen, str.,	23 26	117 5	.10	NE/N	4	c.
Feilung, str.,	22 28	115 2	...	ENE	2	b.
Stanfield, sh.,	17 47	118 41	...	ENE	6	b.
Peiyang, str.,	15 53	118 52	29.95	E	2	b.
Yuensang, str.,	14 34	120 58	.91	var.	2	c.
Sachem, sh.,	2 38	125 40	...	...	0	orq.
October 20th.						
Victoria, str.,	43 42	158 14	30.10	S	4	...
Tsinan, str.,	33 20	134 25	.03	NW	4	k.
Sin Kolga, bk.,	32 0	125 35	...	NW	5	c.
Nijni Novgorod, str.,	30 42?	122 47	.32	N	3	o.
Mount Washington, bk.,	28 56	132 58	...	NW	5	b.
Feilung, str.,	23 35	117 26	...	NE	6	b.
Activ, str.,	21 37	113 18	.17	var.	3	o.
Stanfield, sh.,	19 9	117 31	...	E/N	6	...
Yuensang, str.,	16 19	118 45	29.97	NNE	6	c.
Peiyang, str.,	13 4	121 42	.94	W	1	cq.
Sachem, sh.,	3 25	126 39	...	var.	1	ortl.
October 21st.						
Victoria, str.,	42 8	154 35	30.28	SW	4	b.
Tsinan, str.,	34 40	135 12	.29	SE	2	k.
Verona, str.,	34 22	135 3	...	var.	1	b.
Chingtu, str.,	33 39	129 49	.40	NW/W	2	k.
Sin Kolga, bk.,	32 35	124 11	...	NE/E	5	k.
Clyde, str.,	31 10	121 58	.34	SE	2	k.
Nijni Novgorod, str.,	30 55	123 25	.41	WNW	2	c.
Mount Washington, bk.,	29 27	131 13	...	N	5	b.
Feilung, str.,	29 19	119 30	...	NNE	6	b.
Stanfield, sh.,	20 20	116 28	...	ENE	6	...
Activ, str.,	20 4	110 20	.18	E	4	o.
Yuensang, str.,	19 20	115 58	.08	NE	6	b.
Peiyang, str.,	10 18	123 55	29.90	NE	2	c.
Bayern, str.,	4 36	106 21	.94	NNW	4	opq.
Sachem, sh.,	3 45	129 1	...	var.	1	orq.
October 22nd.						
Victoria, str.,	39 48	149 31	30.31	NNE	3	b.
Verona, str.,	34 50	139 16	.34	NE	5	b.
Tsinan, str.,	34 40	135 12	.29	S	2	k.
Sin Kolga, bk.,	33 46	124 ...	...	E/N	2	b.
Nijni Novgorod, str.,	31 50	126 46	.31	ENE	3	b.
Chingtu, str.,	30 27	125 32	.28	NE	2	c.
Mount Washington, bk.,	30 20	129 21	...	NE	5	b.
Lyeemoon, str.,	29 14	122 19	.35	ESE	2	k.
Feilung, str.,	26 20	119 58	...	N	5	b.
Clyde, str.,	26 0	120 29	.22	NE	5	k.
Stanfield, sh.,	21 33	115 34	...	NE/E	6	q.
Activ, str.,	20 4	110 20	.18	NE	4	c.
Hiogo Maru, str.,	16 13	118 45	29.97	NE	7	c.
Bayern, str.,	8 16	109 53	.94	ENE	6	opq.
Sachem, sh.,	3 33	132 40	...	var.	1	b.
October 23rd.						
Victoria, str.,	37 19	144 15	30.18	var.	1	b.
Tsinan, str.,	34 40	135 12	.15	ENE	4	or.
Sin Kolga, bk.,	34 32	123 39	...	ENE	1	k.
Nijni Novgorod, str.,	32 44	129 50	.07	...	0	o.
Mount Washington, bk.,	30 27	128 15	...	N	4	b.
Feilung, str.,	29 2	122 12	...	NNE	2	b.
Catterthun, str.,	25 51	119 56	.09	NE	2	b.

OCTOBER, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 23rd.						
Lyeemoon, str.,	25° 7′	119° 41′	30.13	N	5	k.
Clyde, str.,	22 28	115 16	.12	ENE	4	k.
Activ, str.,	21 29	109 5	.13	NNE	2	k.
Taichiow, str.,	20 4	110 20	.17	NNE	2	m.
Hiogo Maru, str.,	20 ...	115 45?	.02	NE	3	c.
Bayern, str.,	12 16	112 50	29.97	E	4	o.
Sachem, sh.,	5 20	135 20	...	W	1	oq.
Kutsang, str.,	5 13	106 50	.92	ENE	3	c.
October 24th.						
Namyong, str.,	35 36	122 50	30.12	NNW	4	or.
Sin Kolga, bk.,	35 18	123 32	...	W	5	c.
Victoria, str.,	35 9	140 40	29.89	N	6	or.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	For. 0-12	Weather.
October 24th.						
Tsinan, str.,	34° 40′	135° 12′	30.01	var.	2	k.
Nijni Novgorod, str.,	34 5	129 24	.06	NE/N	3	b.
Feilung, str.,	32 19	122 53	.16	NNE	2	b.
Mount Washington, bk.,	30 49	126 0	.15	N	3	b.
Chingtu, str.,	23 47	118 3	.02	NE/N	5	k.
Catterthun, str.,	22 55	116 44	.08	NE	6	b.
Lyeemoon, str.,	22 32	115 41	.08	ENE	4	...
Hiogo Maru, str.,	22 10	114 20	.05	NE	3	c.
Activ, str.,	20 7	110 8	.06	SE	2	k.
Bayern, str.,	17 10	113 51	.00	NE	4	o.
Kutsang, str.,	8 27	108 50	29.98	NE	3	c.
Sachem, sh,	7 1	135 40	.87	NW	...	orq.

NOVEMBER, 1893.

November 4th.						
Niobe, str.,	22° 56′	116° 57′	...	NNE	4	c.
Glengarry str.,	15 5	114 0	29.98	NNE	6	...
Sachem, sh.,	14 28	133 0	.97	NE	3	...
China, str.,	14 8	112 14	.98	NE/N	8	...
Wm. J. Rotch, bk.,	4 42	130 44	...	...	0	...
Bangalore, sh.,	4 34	112 3	.90	SE	1	...
Kenilworth, sh.,	3 4	129 13	...	W	1	...
November 5th.						
Sungkiang, str.,	21 0	118 46	30.13	E	5	o.
Devawongse, str.,	20 50	114 27	.23	NE	4	k.
Kutsang, str.,	19 29	112 11	.29	NE/E	5	k.
Glengarry, str.,	17 25	115 2	.09	NE	6	k.
Sachem, sh.,	15 49	132 27	...	...	...	oq.
China, str.,	15 34	113 27	.00	NE/N	8	...
Wm. J. Rotch, bk.,	5 1	131 0	...	NE/N	2	k.
Bangalore, sh.,	4 48	112 42	29.90	SE	1	or.
Kenilworth, sh.,	3 2	129 37	...	W	1	k.
November 6th.						
Glengarry, str.,	20 36	114 12	30.19	ENE	6	orq.
China, str.,	17 53	113 56	.04	NE/N	8	...
Devawongse, str.,	17 36	111 13	.14	NE	6	k.
Sachem, sh.,	17 34	130 26	...	NE/N	4	oq.
Sungkiang, str.,	16 43	119 33	29.94	E	4	k.
Kutsang, str.,	15 28	110 5	30.20	E	4	k.
Wm. J. Rotch, bk.,	5 26	131 38	...	ENE	1	k.
Bangalore, sh.,	5 1	113 10	.00	S	1	or.
Kenilworth, sh.,	3 0	130 1	...	W	1	...
Independent, str.,	1 50	108 37	29.82	N	4	m.
Propontis, str.,	0 28	119 19	.95	N	3	b.
November 7th.						
China, str.,	20 22	114 27	30.08	NE/N	7	q.
Sachem, sh.,	19 18	128 7	...	ESE	5	oq.
Sungkiang, str.,	14 34	120 58	...	NE	2	k.
Devawongse, str.,	13 21	109 35	.05	NNW	3	p.
Kutsang, str.,	10 51	108 43	.09	NE	4	or.
Independent, str.,	6 4	109 25	29.88	NNE	4	c.
Wm. J. Rotch, bk.,	5 52	132 7	...	E/N	...	k.
Bangalore, sh.,	5 11	113 26	.90	E	2	l.
Propontis, str.,	3 17	120 46	.92	NE	2	c.
Kenilworth, sh.,	2 56	130 25	...	NW	1	...
November 13th.						
Berlin, sh.,	20 43	141 32	...	E	1	b.
Propontis, str.,	18 30	117 2	30.00	NE	8	...
China, str.,	18 12	111 7	.04	NE	5	...
Independent, str.,	14 36	117 30	29.80	NNE	8	orq.
Taichiow, str.,	12 0	109 19	.92	NNE	7	mq.
Wm. J. Rotch, bk.,	11 57	132 27	...	SE	4	...
Irene, str.,	9 57	111 13	.90	...	...	...
Japan, str.,	8 35	109 21	.98	N/E	6	o.
Kenilworth, sh.,	8 0	135 54	...	SE	4	q.
Niobe, str.,	7 35	108 1	...	N	4	c.
Bangalore, sh.,	7 32	115 48	30.00	W	4	o.
Rosetta, str.,	3 50	105 54	29.90	NE	3	opq.
November 14th.						
Phra Chula Chom Klao, str.,	21 2	114 35	...	NE	5	k.
Propontis, str.,	20 46	115 29	30.10	NE	8	...
Berlin, sh.,	20 29	139 3	...	SE	2	b.
Bayern, str.,	18 50	111 57	.13	NNE	5	o.
Hiogo Maru, str.,	16 41	118 20	29.91	SW	2	c.
Esmeralda, str.,	15 59	119 3	.93	NW	4	k.
China, str.,	13 54	109 40	.96	N	6	o.
Wm. J. Rotch bk.,	13 42	132 39	...	ESE	4	k.

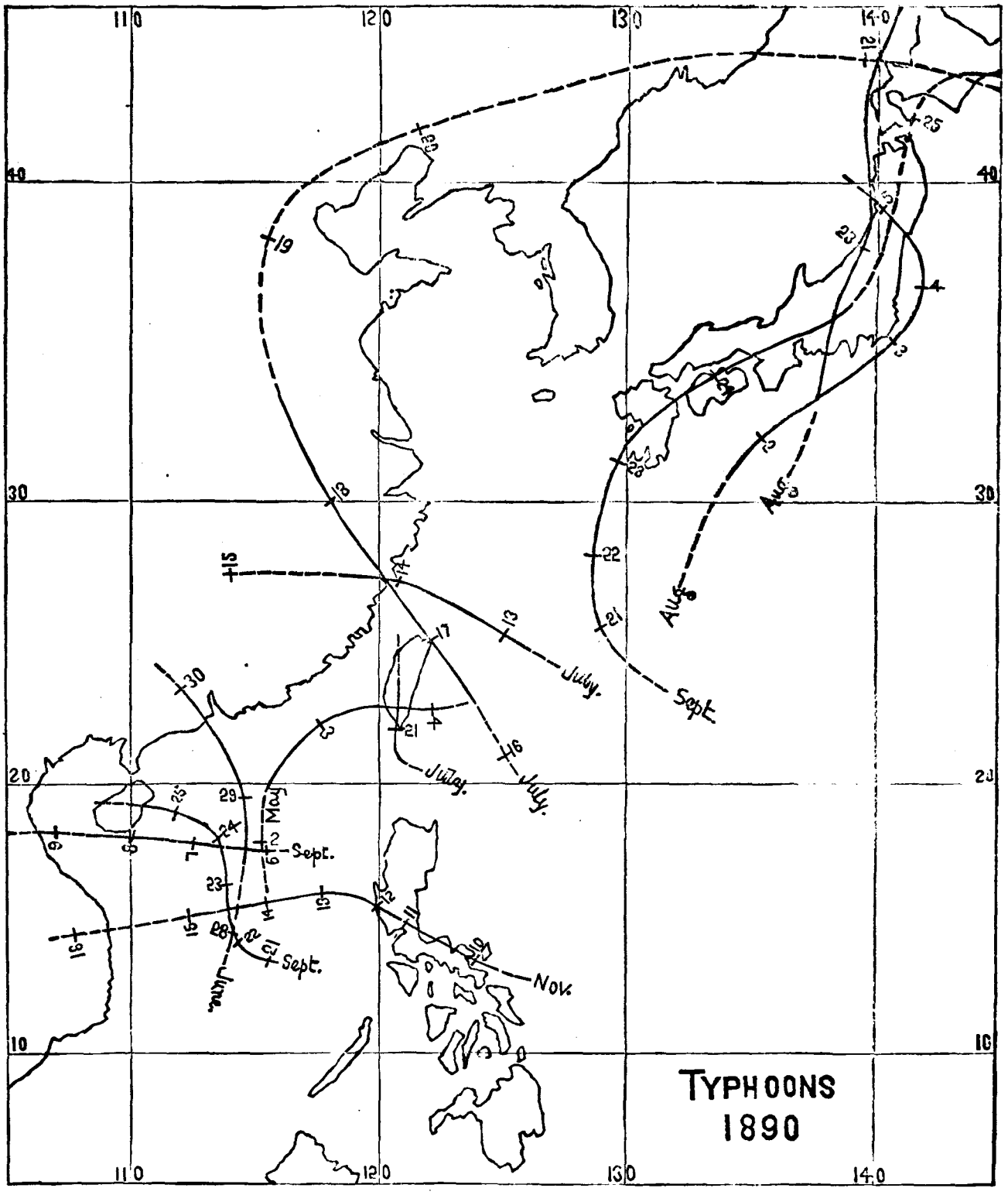
November 14th.						
Taichiow, str.,	13° 16′	109° 37′	29.95	N	9	opq.
Japan, str.,	10 28	110 39	.85	N/E	10	orq.
Irene, str.,	10 15	111 25	.87	...	...	...
Kenilworth, sh.,	9 0	135 41	...	...	0	...
Bangalore, sh.,	8 43	117 12	30.00	...	4	o.
Rosetta, str.,	7 16	108 24	29.91	N/W	6	orq.
Niobe, str.,	4 9	105 17	...	W	4	c.
November 15th.						
Berlin, sh.,	20 24	137 17	...	SE	4	b.
Hiogo Maru, str.,	19 59	115 8	29.91	E	2	p.
Esmeralda, str.,	19 7	116 28	30.09	NNE	6	o.
Phra Chula Chom Klao, str.,	18 4	111 20	...	NE	5	k.
Wm. J. Rotch, bk.,	15 31	132 28	...	E	4	k.
Taichiow, str.,	14 9	110 3	.00	N/E	7	dq.
Bayern, str.,	13 41	110 8	.00	NNE	6	or.
Japan, str.,	12 47	111 44	29.96	NE	8	orq.
Irene, str.,	11 29	112 32	30.01	...	...	...
China, str.,	10 17	108 0	29.86	NE/E	6	o.
Bangalore, sh.,	9 46	117 30	...	NE	1	o.
Kenilworth, sh.,	9 35	135 10	...	...	0	...
Rosetta, str.,	7 56	109 20	.84	E/N	4	orq.
November 16th.						
Sungkiang, str.,	22 52	116 20	30.20	ENE	5	k.
Berlin, sh.,	20 28	135 20	...	NE/N	6	o.
Wm. J. Rotch, bk.,	16 47	131 42	...	NE	6	g.
Taichiow, str.,	16 23	110 5	.02	NNE	5	cq.
Independent, str.,	16 1	119 52	29.91	NNE	4	...
Japan. str.,	15 36	112 59	30.09	NE	7	orq.
Phra Chula Chom Klao, str.,	13 57	109 40	...	NNE	4	op.
Irene, str.,	13 18	114 7	.01	...	...	...
Kenilworth, sh.,	11 42	135 20	...	NE	4	...
Rosetta, str.,	11 10	111 18	.00	ENE	4	cr.
Bangalore, sh.,	10 50	118 20	29.70	SE	1	or.
Bayern, str.,	8 8	108 52	.84	S	5	p.
Dona Bartolo, sch.,	7 4	135 12	.89	SW	2	or.
November 17th.						
Berlin, sh.,	21 19	131 42	...	NE	6	b.
Mathilde, str.,	19 10	111 25	...	NE	6	k.
Japan, str.,	19 2	114 10	30.14	NE	7	...
Taichiow, str.,	18 41	111 25	.06	NE/N	5	cq.
Independent, str.,	18 11	118 47	29.94	NE	8	...
Wm. J. Rotch, bk.,	18 0	130 31	...	NE	8	...
Rosetta, str.,	15 0	112 48	30.01	NE	6	b.
Irene, str.,	14 49	116 5	.01	...	...	...
Kenilworth, sh.,	12 45	134 31	...	NE	4	...
Phra Chula Chom Klao, str.,	11 15	109 5	...	NW	4	k.
Bangalore, sh.,	11 13	118 38	...	NE	1	p.
Dona Bartolo, sch.,	7 26	135 30	29.89	SW	1	k.
Bayern, str.,	3 33	105 23	.92	NNW	2	o.
November 18th.						
Berlin, sh.,	21 45	127 48	...	NE	6	c.
Sungkiang, str.,	20 58	118 53	30.11	ENE	5	k.
Independent, str.,	20 14	115 45	.10	E	6	oq.
Stanfield, bk.,	19 52	112 32	...	NE	5	k.
Wm. J. Rotch, bk.,	19 17	129 22	...	NE	8	ogrq.
Rosetta, str.,	18 50	114 14	.11	NE	6	b.
Irene, str.,	16 52	108 12	.05	...	...	...
Mathilde, str.,	16 6	108 12	...	NE	6	k.
Kenilworth, sh.,	14 23	134 3	...	NE	5	...
Bangalore sh.,	12 2	117 41	...	NE/N	5	o.
Phra Chula Chom Klao, str.,	8 31	105 50	...	E	3	...
Dona Bartolo, sch,	7 11	136 38	29.89	ENE	2	q.

NOVEMBER, 1893.

Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
November 22nd.						
Esmeralda, str.,	20° 54′	119° 8′	...	NE	5	...
Otago, bk.,	20 24	129 16	...	NE	6	k.
McMillan, sh.,	13 12	147 18	...	NE	6	k.
Bangalore, sh.,	12 10	119 0	...	N/W	6	orq.
Stanfield, bk.,	9 46	109 58	...	NE	2	k.
Devawongse, str.,	8 40	105 49	29.87	NW/W	5	or.
November 23rd.						
Wm. J. Rotch, bk.,	22 0	116 2	...	NNE	8	...
Activ, str.,	21 28	109 5	30.21	N	4	o.
Oldenburg, str.,	19 9	111 28	.08	NE	6	o.
Esmeralda, str.,	16 29	120 3	29.79	ENE	6	o.
Bangalore, sh.,	14 14	118 12	...	E	12	or.
McMillan, sh.,	13 55	144 57	.98	E	4	k.
Mathilde, str.,	13 53	109 6	...	NE	6	...
China, str.,	11 14	108 54	...	NE	6	k.
Devawongse, str.,	10 23	107 55	.92	NE/E	6	...
Airlie, str.,	10 21	121 49	.79	N	1	k.
Stanfield, bk.,	8 4	109 58	...	NNE	2	k.
November 24th.						
Otago, bk.,	26 56	126 25	...	N	3	...
Activ, str.,	21 28	109 5	30.26	N	4	k.
Velocity, bk.,	20 3	118 16	...	NE	8	orq.

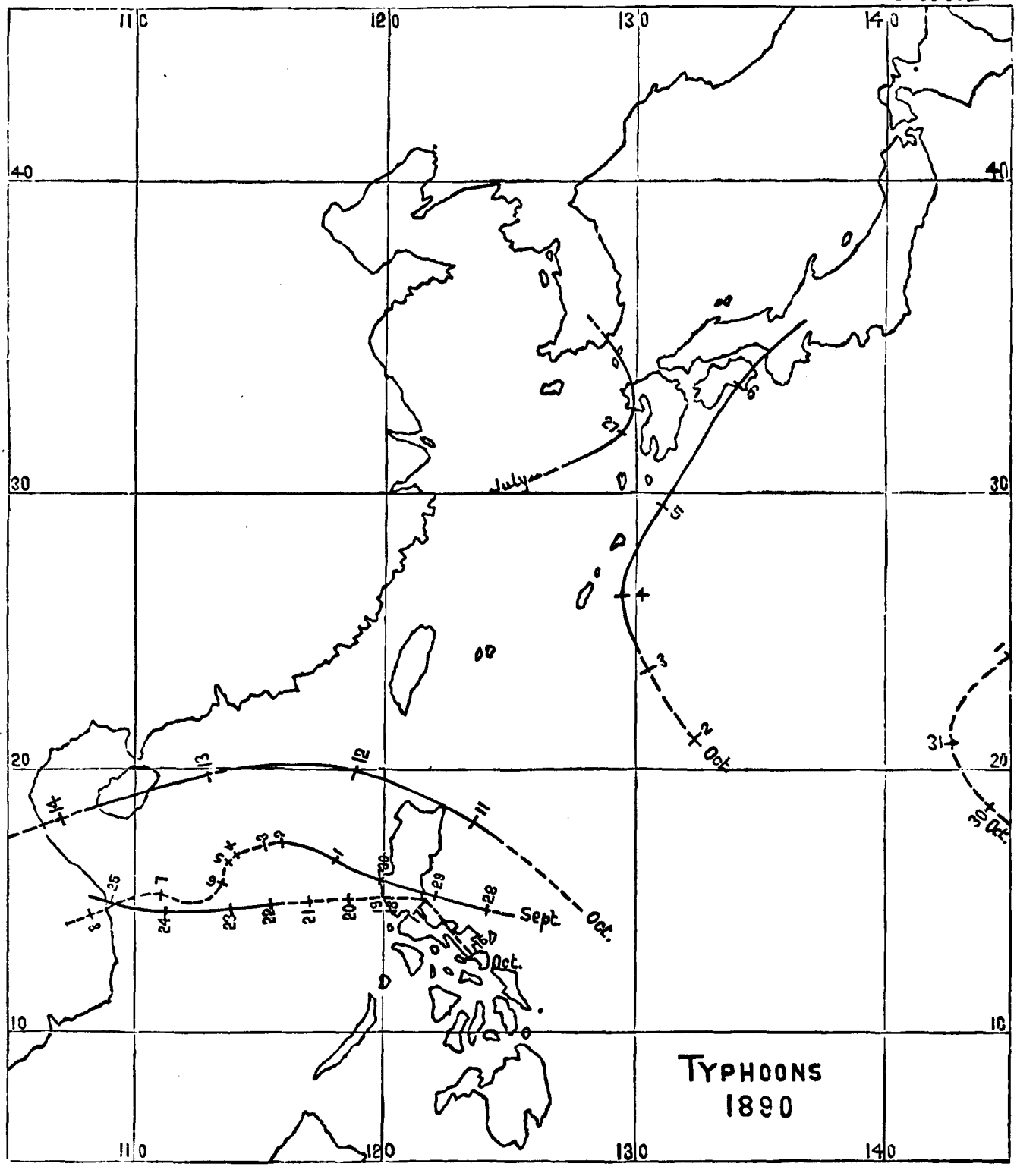
Vessel.	Lat. North.	Long. East.	Bar. ins.	Wind. Dir.	Wind. For. 0-12	Weather.
November 24th.						
Sungkiang, str.,	15° 53′	118° 47′	29.84	NNE	...	...
McMillan, sh.,	14 52	142 14	...	ENE	4	o.
Esmeralda, str.,	14 34	120 50	.85	NE	5	o.
Airlie, str.,	14 11	119 47	.77	NE	6	o.
Mathilde, str.,	13 52	109 6	...	NE	7	q.
Bangalore, sh.,	13 40	119 0	...	NE	12	og.
China, str.,	13 0	109 36	.96	NNE	6	q.
Devawongse, str.,	12 29	109 27	30.05	N/E	7	or.
Stanfield, bk.,	6 5	110 34	...	NNE	5	orq.
November 25th.						
Activ, str.,	21 8	109 5	30.25	N	4	k.
Velocity, bk.,	19 26	119 7	...	NE	8	orq.
Sungkiang, str.,	18 42	116 34	.03	NE/N	6	...
Airlie, str.,	17 6	118 23	29.93	NE	9	or.
McMillan, sh.,	15 39	139 48	30.03	SE	2	o.
China, str.,	14 35	109 59	.05	N/E	6	r.
Devawongse, str.,	14 29	110 0	.08	N	6	k.
Bangalore, sh.,	14 17	118 31	...	E	3	o.
Mathilde, str.,	13 53	109 6	...	NE	7	q.
Yarra, str.,	10 47	106 43	.06	...	0	b.
Stanfield, bk.,	3 27	111 19	...	N	5	o.

Plate I.



TYPHOONS
1890

Plate II.


TYPHOONS
1890
July
Sept.
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110
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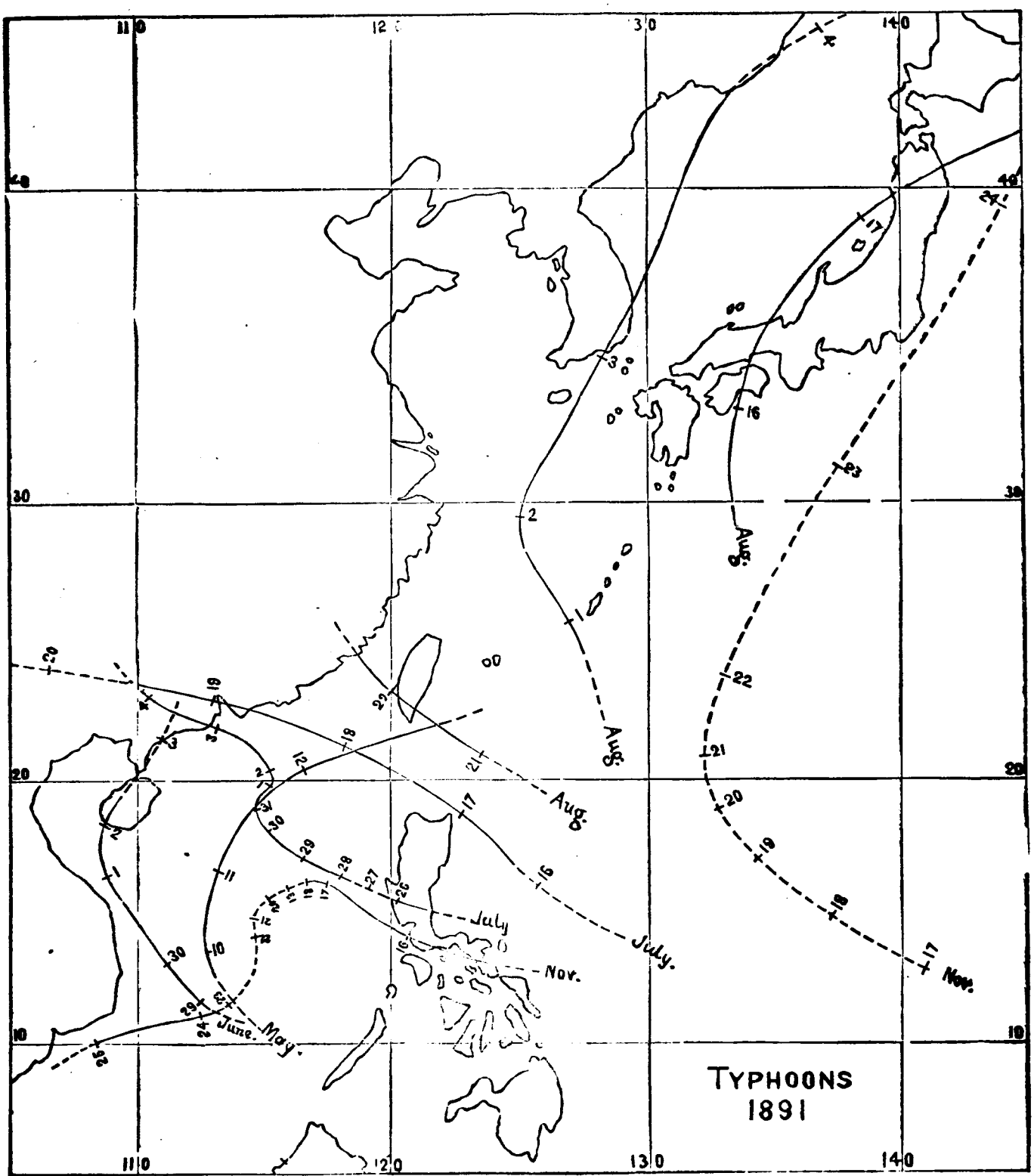
10

Plate III.



HONG KONG OBSERVATORY.

Plate IV.

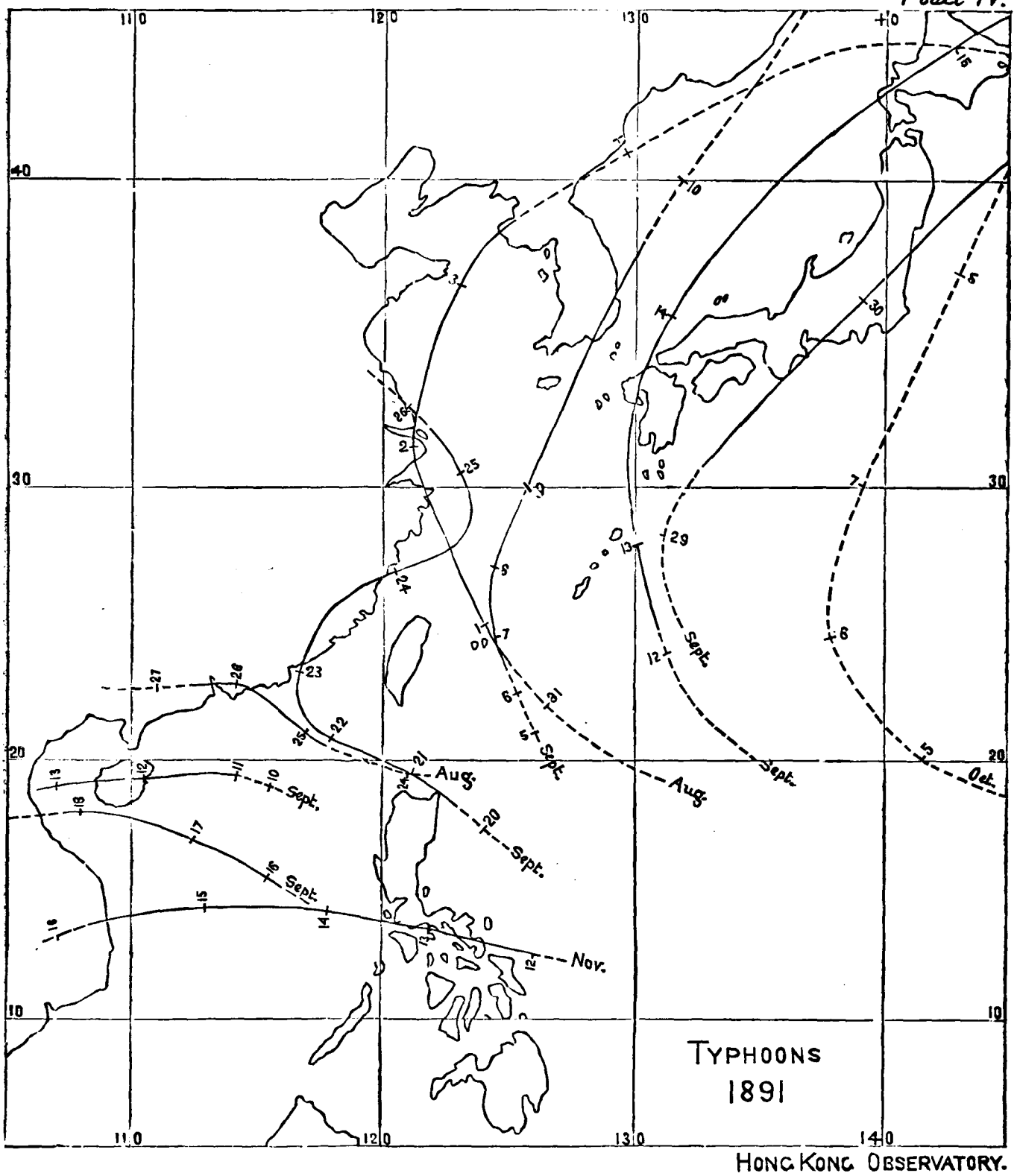


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Plate V

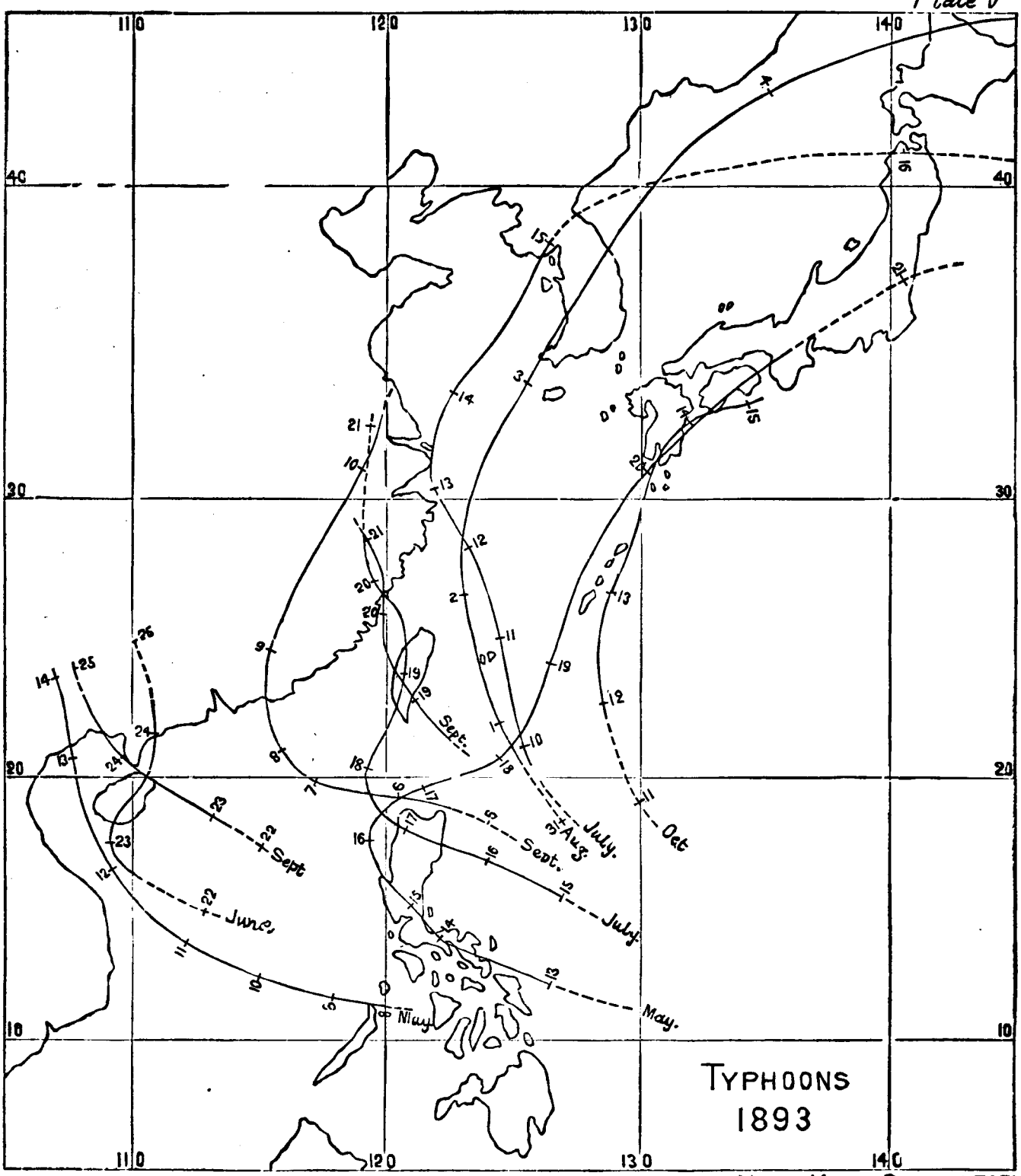

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Plate VI.

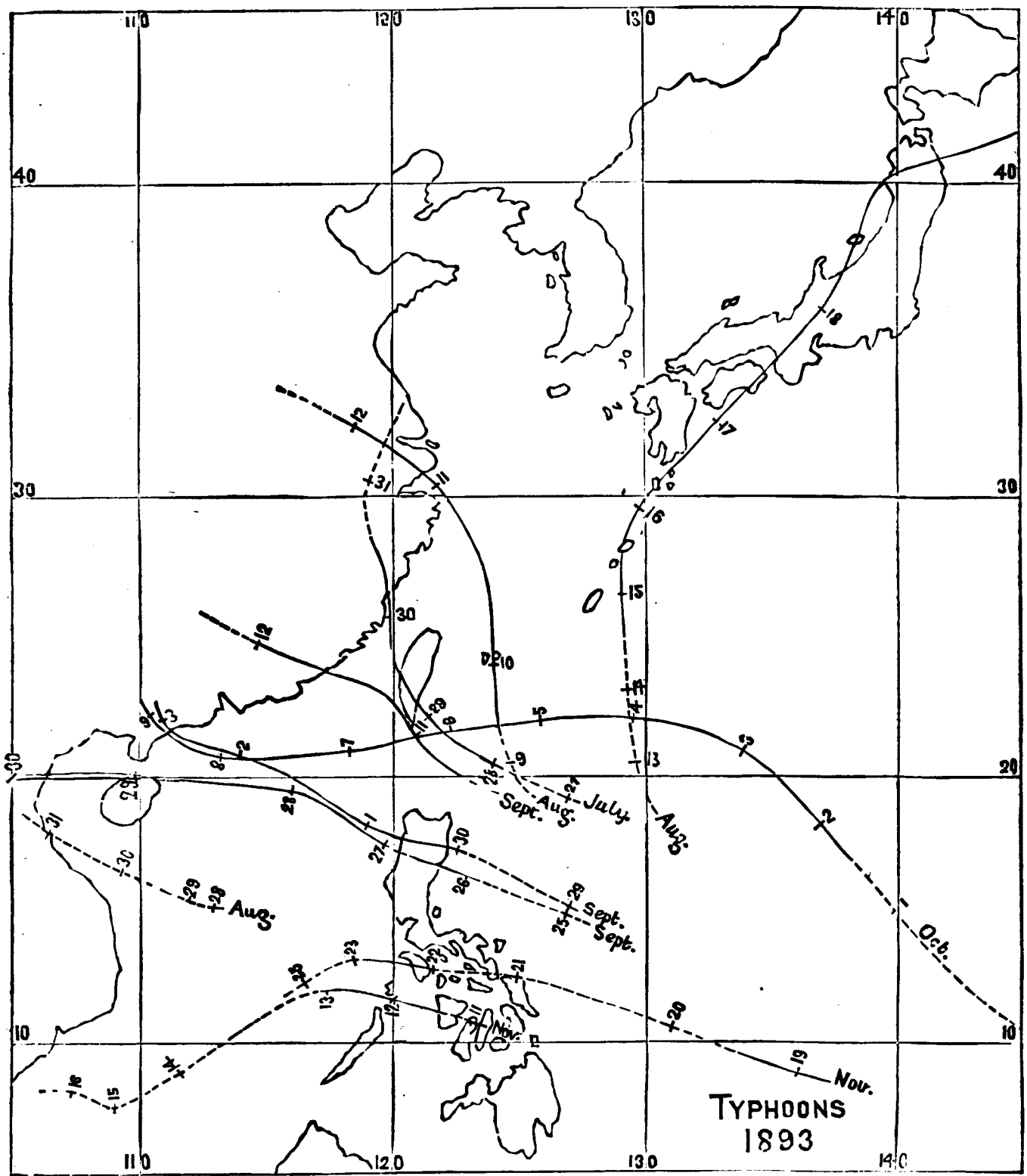

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Plate VII

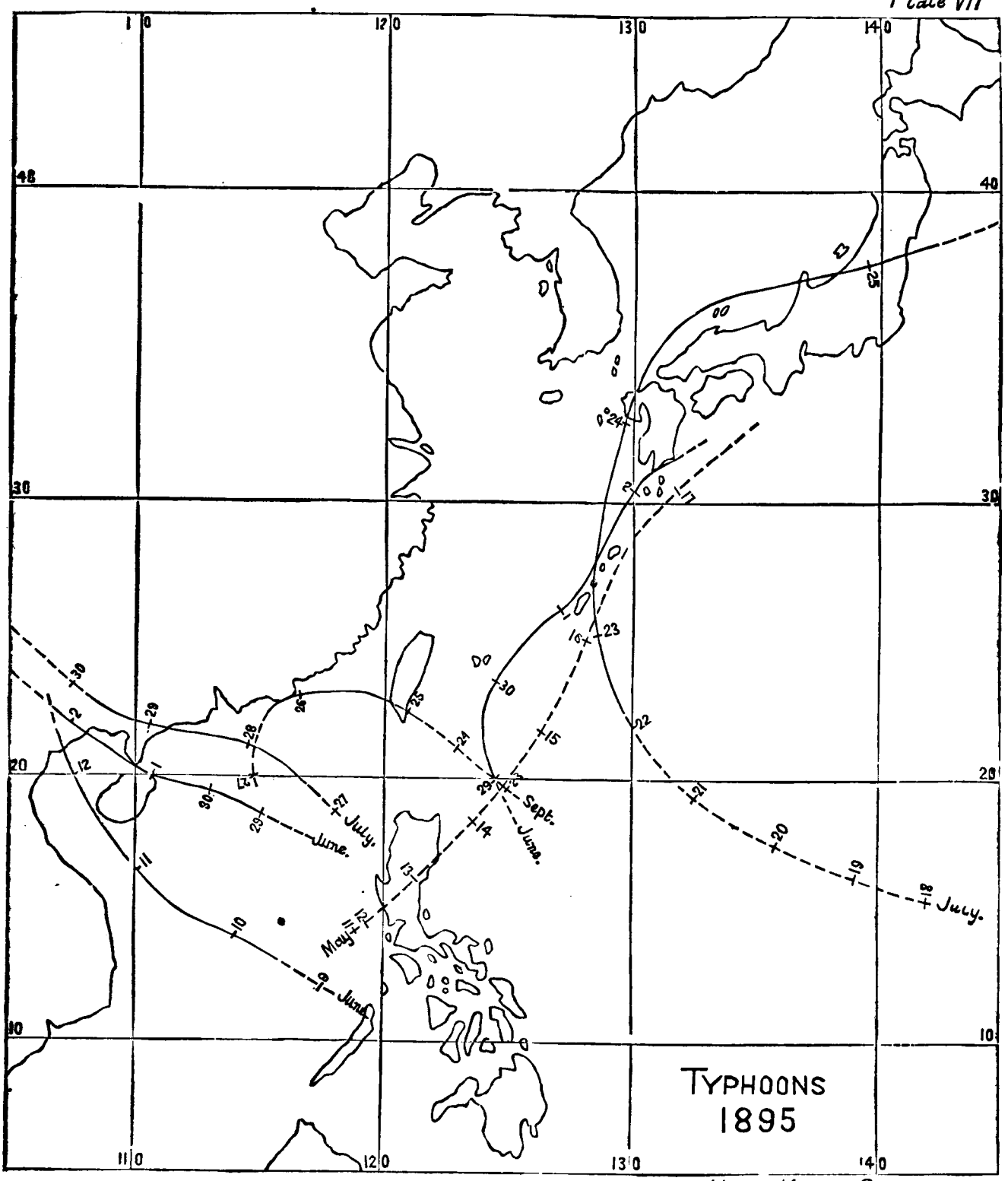

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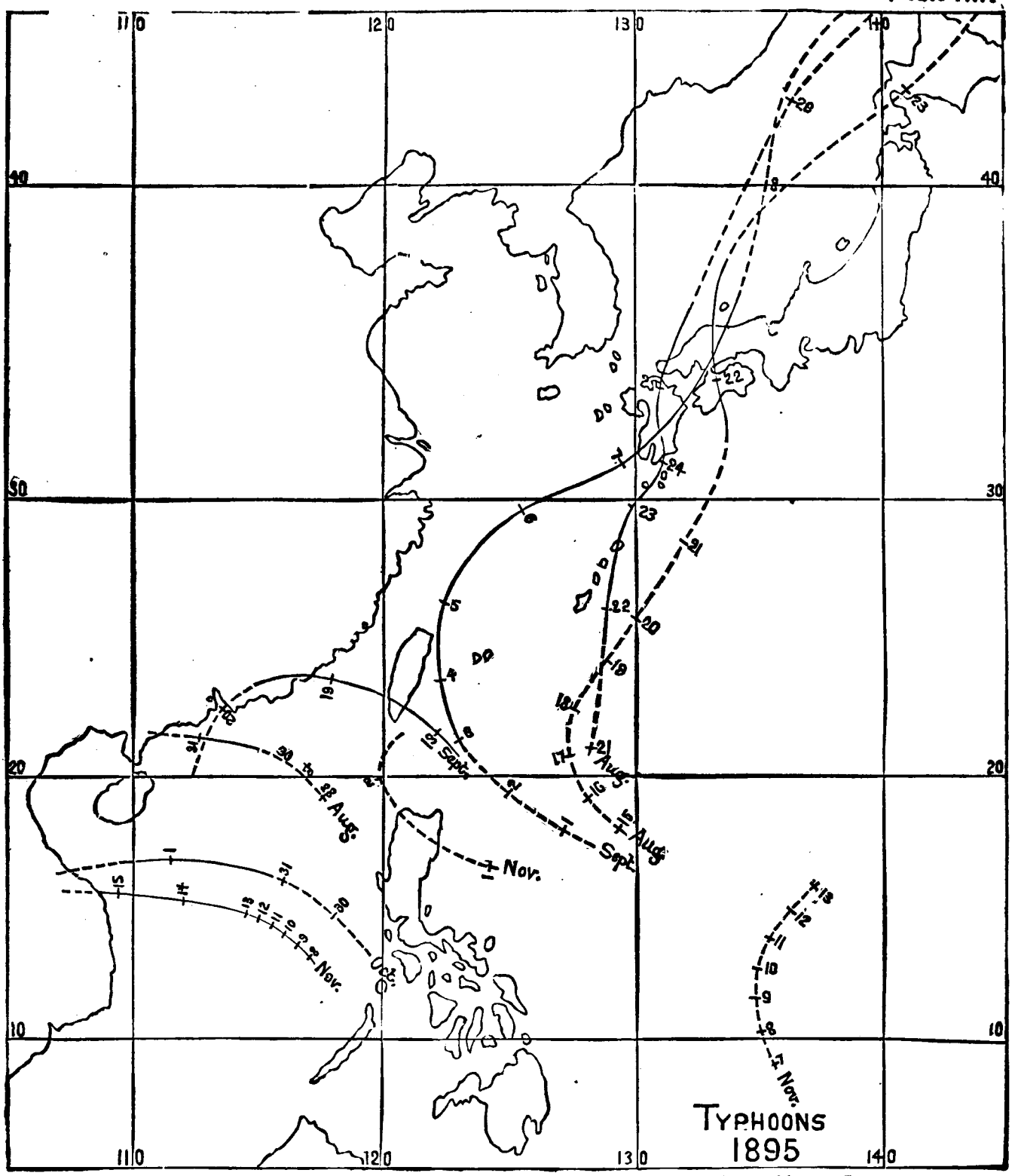
Plate VIII.



TYPHOONS
1895

HONG KONG OBSERVATORY

OBSERVATIONS AND RESEARCHES

MADE AT

THE HONGKONG OBSERVATORY,

IN THE YEAR

1895,

BY

W. DOBERCK,

DIRECTOR

HONGKONG:

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