

AUSTRALASIAN ANTARCTIC EXPEDITION  
1911-14

No. AR924

UNDER THE LEADERSHIP OF SIR DOUGLAS MAWSON, O.B.E., B.E., D.Sc., F.R.S.

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**METEOROLOGY.**

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WITH FOUR PLATES, FIVE TEXT FIGURES, AND TWENTY-FOUR TABLES.

# AUSTRALASIAN ANTARCTIC EXPEDITION.

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## METEOROLOGY.

### SECTION 3.

WITH FIVE TEXT-FIGURES, FOUR PLATES AND TWENTY-FOUR TABLES.

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RECORDED BY MORTON H. MOYES, B.Sc.

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UNDER DIRECTION OF CAPTAIN J. K. DAVIS.

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## PLATES.

## PLATE I.

Fig. 1.—Photo. on the Shackleton Shelf looking S.S.W. towards the Winter-Quarters Hut, "The Grottoes," of which only the peak of the roof is seen protruding from the general level of the ice surface. The screen, the weather-cock and the snow gauge are in the foreground. From the wind-vane mast, is seen hung up a block of ice which is thus exposed in connection with ablation observations.

Fig. 2.—View of the Hut wall above the meteorologist Moyes' bunk, showing the barograph in operation on one of the shelves.

## PLATE II.

Fig. 1.—Morton H. Moyes alongside his observing screen at "The Grottoes." The door of the screen has been lowered to show the interior which, it will be observed, is considerably encrusted with drift snow.

Fig. 2.—View taken on the morning of January 6th, 1912, when in Long.  $144^{\circ} 58' E.$ , Lat.  $66^{\circ} 37' S.$  just as the weather commenced to rapidly fine up after a summer south-easterly blizzard. The cumulo-nimbus cloud formation is well shown.

## PLATE III.

Fig. 1.—Photo. looking west during the afternoon of January, 1914, when in the Davis Sea in the vicinity of Lat.  $66^{\circ} 20' S.$ , Long.  $92^{\circ} 30' E.$  From the dense area to the north-west, a bank of cumulus clouds is seen to be rapidly extending to the south towards the land which is only about 20 miles distant. Within a few hours subsequently, a violent blizzard descended and lasted for several days.

Fig. 2.—Fleecy cumulus clouds over Commonwealth Bay. View looking west from Cape Denison. This picture was taken during a short lull in an autumn blizzard.

## PLATE IV.

Fig. 1.—A mare's tail cirrus radiant photographed early in November, 1912, on the ice plateau at an elevation of about 3,000 feet, some 50 miles south of Cape Denison. A blizzard soon followed upon this manifestation.

Fig. 2.—A view on a fine summer's day, looking west over Commonwealth Bay from Cape Denison. The "Aurora" is seen at the anchorage. The canopy of strato-cumulus clouds above the sea (extending continuously to the north) and the cloudless sky over the Continental ice-cap are both very typical features of the Antarctic coast-line in this sector.

PART I.  
 RECORDS OF THE QUEEN MARY LAND STATION.

RECORDED BY MORTON H. MOYES, B.Sc.

INTRODUCTORY REMARKS.

By D. MAWSON.

The Expedition's Western Base Station, situated in the Queen Mary Land area, was located about 1,300 statute miles almost due west of Cape Denison, Adelie Land, the Main Antarctic Base Station (see Fig. 2). There the Winter-Quarters Hut was erected upon a floating pontoon-like extension of the Continental ice sheet which has been named the Shackleton Ice Shelf. This ice formation beneath the hut amounted to about 800 feet in thickness of which approximately 100 feet stood above the level of the neighbouring sea. Heavy precipitation of snow buried the hut soon after erection and henceforth communication with the outside world was maintained by means of a covered vertical shaft in the snow surface to a tunnel leading to the enclosed verandah surrounding the main living-room. Thus Winter Quarters, Queen Mary Land, soon became known as "The Grottoes." As the whole level of the surrounding country rose, as snow precipitation progressed, the meteorological screen was periodically raised to keep pace with the snow accretion.

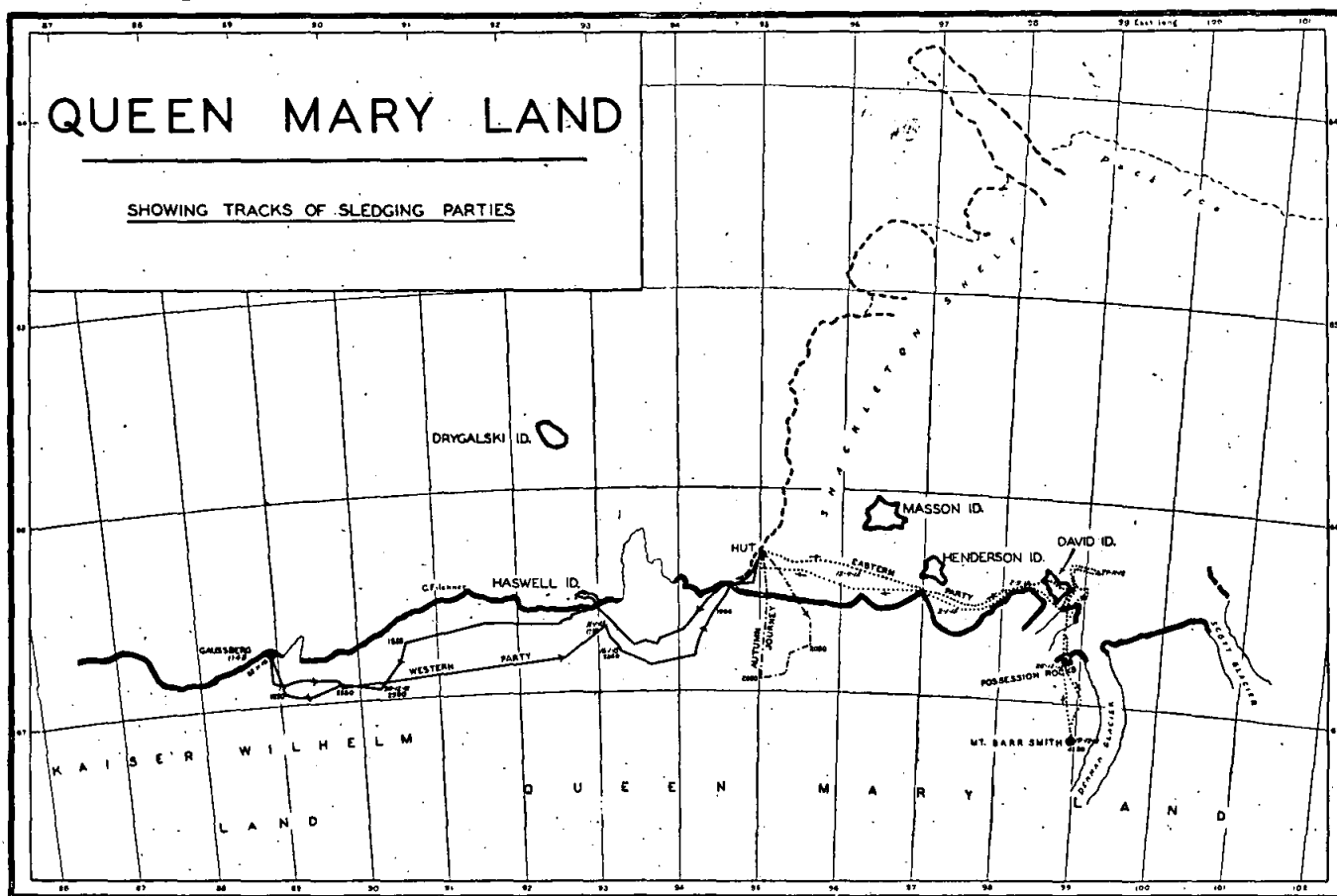


Fig. 1.—Showing the location of "The Grottoes" hut erected on the floating Shackleton ice-shelf formation 17 miles from the nearest point of land. The tracks of the more important sledge journeys are also plotted.

The exact location of "The Grottoes" is Latitude  $66^{\circ} 18' S.$  and Longitude  $95^{\circ} 1' E.$  There the hut was approximately 17 miles northerly from the true margin of the land (see Fig. 1). On account of the continuous ice sheet south from "The Grottoes," wind coming from that direction reached the recording instruments as unaltered continental air. About a quarter of a mile to the west of the station, there was open water in midsummer and a frozen sea-ice surface at other times of the year. In the quadrant from north to east the thick shelf-ice formation extended quite 100 miles.

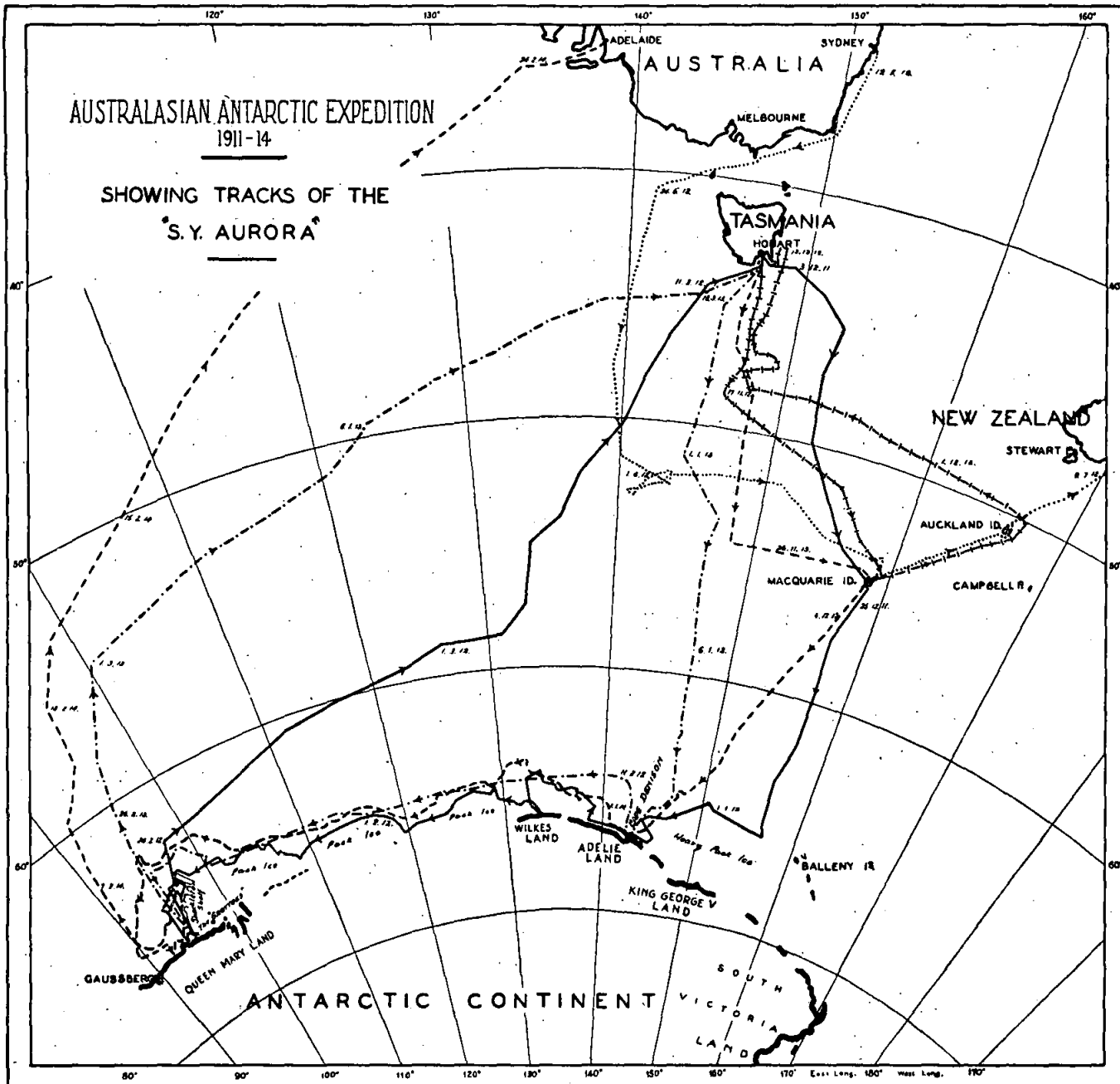


Fig. 2.—Regional map illustrating the relative positions of the Expedition's Eastern and Western Antarctic Bases, respectively at Cape Denison, Adelie Land, and "The Grottoes," Queen Mary Land. Also the "Aurora" tracks on three Antarctic and two Subantarctic cruises are shown.

A general view in the neighbourhood of "The Grottoes" is presented in Plate I, Fig. 1, which shows only the peak of the roof of the hut protruding from the general level of the surface of the Shackleton Shelf. Plate I, Fig. 2, shows the barograph housed on a shelf above Moyes' bed in the hut. This instrument was of similar construction to those employed at the other stations. The mercurial barometer was hung from the wall of a wooden partition near the centre of the hut. Plate II, Fig. 1, shows the meteorological screen with the door open and Moyes standing alongside.

Morton H. Moyes acted as Meteorologist for the Queen Mary Land Party and maintained the records during the year of occupation of "The Grottoes" station. Owing, however, to overwhelming deluges of snow descending upon and burying the newly erected screen and meteorological instruments, the records for the first several weeks were partly vitiated and have not been included herewith. The layout of the meteorological instruments in relation to the hut is illustrated in Fig. 3.

The screen was of standard pattern, supplied by the Commonwealth Meteorological Department. Moyes early recognised the futility of continuing with measurements

AUSTRALASIAN ANTARCTIC EXPEDITION.

WESTERN BASE.

LAT. 66°18.5 S., LONG. 95°1' E. (APPROX)

PLANE TABLE SHEET, OCT. 16<sup>TH</sup> 1912

A. L. Kennedy.

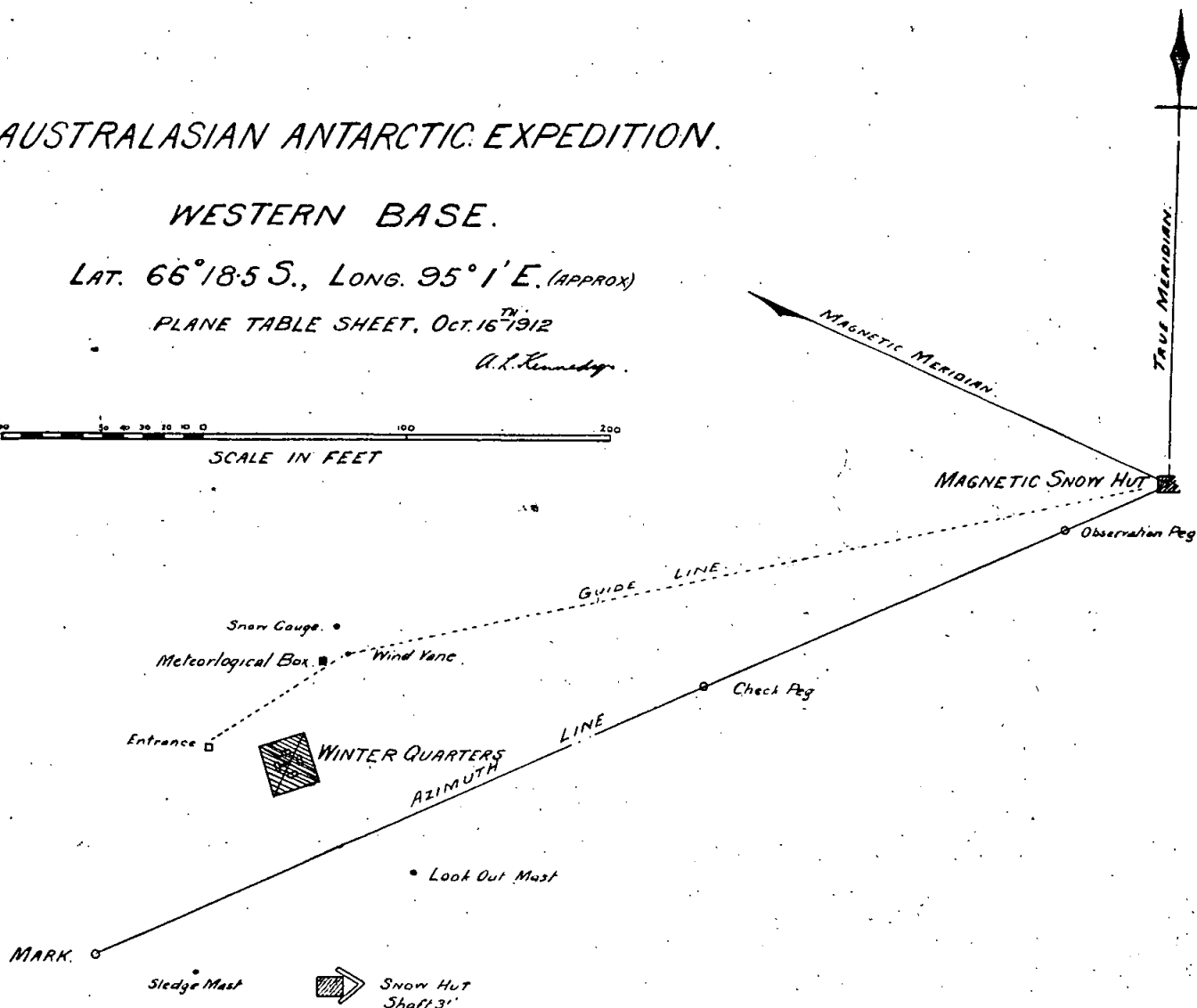
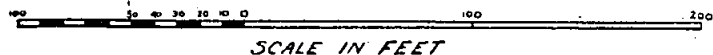


Fig. 3.—Plan of the lay-out at "The Grottoes" illustrating the relative positions of the Winter-Quarters Hut and the meteorological screen, snow gauge, and wind vane.

of snow collected in the simple type of snow gauge which he had erected near the screen. As an indication of snow precipitation it was obviously useless, for dense volumes of drifting snow at times completely submerged the gauge. As was anticipated, no fall of rain was recorded.

Under direction of Mr. H. A. Hunt, Commonwealth Meteorologist, Mr. W. B. Newman, an officer of the Department, reduced and tabulated Moyes' data for publication. Our best thanks are due to him for executing this tedious task.

*Pressure.*—Hourly values form the subject of Table I. The mercurial barometer, Adie No. 429, employed at "The Grottoes" was housed inside the hut and was thus not subjected to the extreme conditions which prevailed without. This barometer was tested at the National Physical Laboratory in May, 1911, and the following corrections (in inches) were given:—

Pressure...	27.5	28.0	28.5	29.0	29.5	30.0	30.5	31.0
Correction	+0.005	+0.005	+0.010	+0.010	+0.010	+0.015	+0.015	+0.015

In March, 1914, it was compared with the standard barometer at the Meteorological Bureau, Adelaide, when the Divisional Meteorologist, Mr. E. Bromley, reported that it read consistently too high and required a correction of approximately—0.020 inch.

The pressures at which this correction was applicable are not stated.

It is clear that between May, 1911, and March, 1914, the error of the instrument had changed. It is, however, not possible to say how or when the change occurred. Furthermore, the corrections at the epochs mentioned appear to have been about equal in magnitude and opposite in sign. Neither was very large. It seemed, therefore, that the best procedure was to adopt the readings of the barometer without any index correction.

*Temperature.*—Hourly values of air temperature are the subject of Table II. Owing to the action of the thermograph frequently being interfered with by drifting snow, the accuracy of the record did not warrant tabulation of hourly values beyond the nearest whole degree. On many occasions when the thermograph was out of action, three-hourly eye readings of thermometers were available. On these and a few other occasions, the missing hourly readings have been interpolated. The interpolated values are printed in italics.

*Wind.*—Direction and velocity are tabulated at three-hourly intervals in Table III. The velocities were personal observations and were logged on the Beaufort scale of 0 to 12. It is anticipated that the figures entered express very closely the actual conditions, for Frank Wild, the officer in command of the party, had had long experience of Antarctic conditions, having enlarged his long sea experience by two years with the first Scott Expedition in Winter Quarters at McMurdo Sound in the Southern Ross Sea, and more than a year at Winter Quarters, Cape Royds, with the first Shackleton Expedition.

The velocities herein appearing as Table III are tabulated in the form of miles-per-hour. This conversion has been effected in accordance with the table of equivalents given in the "Observer's Handbook," Meteorological Office, London, 1921. Following is the conversion table as used:—

Beaufort Number.	Miles per Hour.
0—Calm ... ..	0
1—Light air ... ..	2
2—Light breeze ... ..	5
3—Gentle breeze... ..	10
4—Moderate breeze ... ..	15

Beaufort Number.	Miles per Hour.
5—Fresh breeze ... ..	21
6—Strong breeze ... ..	27
7—Moderate gale ... ..	35
8—Fresh gale ... ..	42
9—Strong gale ... ..	50
10—Whole gale ... ..	59
11—Storm ... ..	68
12—Hurricane ... ..	above 75.

This table is derived from observations at certain stations in the British Isles and is intended to give the velocity of the wind at 33 feet (10 m.).\*

*Percentage Frequency and Mean Velocity of each Direction.*—This information, which appears as Table IV, has been deduced from an analysis of Table III. Table V is a monthly summary derived from Table IV.

*Cloud Observations.*—These were not frequent, so that in preparing Table VI for publication Mr. Newman has divided the types into two layers only. The International Middle Level has been included in the Lower Level as printed. Directions of cloud drift were seldom noted by observers at "The Grottoes."

In scanning the Expedition's Meteorological records it will be apparent that in the pack-ice belt girdling the Antarctic Continent the skies are usually more or less completely overcast and fog and falling snow is very prevalent. But quite a different state of affairs prevails on the ice-capped land, for clear skies are there a common feature. On travelling south through the pack towards the land a break in the sky ahead is often the first indication of approaching land. A very regular feature observed from Winter Quarters was this break from cloud over the sea to clear sky over the land. This is well shown in Plate IV, Fig. 2, where the pall of cloud over Commonwealth Bay and the sea to the north ends abruptly at the margin of the coast.

Brilliant days of clear sky and bright sun are occasionally experienced in the pack-ice, but they are exceptional. Inland the case is otherwise, for skies that are clear or but little clouded prevail, and the development of cloud presages approaching blizzard winds. On these occasions "mare's tails" and cirrus radiants steal across the sky far over the continent and presently falling and drifting snow reduced the usual serenity of the plateau to blind confusion. Plate IV, Fig. 1, well illustrates cloud conditions on the plateau 50 miles south of Winter Quarters, Cape Denison, immediately prior to the advent of a blizzard.

The northern coast of Antarctica, especially where it extends to the neighbourhood of the Antarctic Circle, is a region of excessive precipitation. There dense stratus and cumulo-nimbus clouds accompanied by heavy snow falls periodically extend over the land for a distance of 100 miles or more from the coast. Plate II, Fig. 2, illustrates the final clearing stages of a mid-summer gale and snow storm in the coastal waters off the Mertz Glacier Tongue. As figured, the snow clouds have broken up to fracto-nimbus and fracto-cumulus and are hurrying away to the W.N.W.

Far inland beyond this coastal belt of excessive precipitation, in the cloud-deficient region precipitation is very light and often takes the form of a settling of minute ice crystals from a practically cloudless sky. In the latter case very interesting optical phenomena may be observed such as parhelia, prismatic arches, mock suns and the like. A notable example of this kind was observed at 10 a.m. on the 9th January, 1913, by

\* Report on Beaufort Numbers and the Velocity of the Wind. M.O. publication 180, 1906, by Dr. G. C. Simpson.

Dr. Jones when on a sledge journey between Gaussberg and "The Grottoes." His entry on this occasion runs as follows:— ...

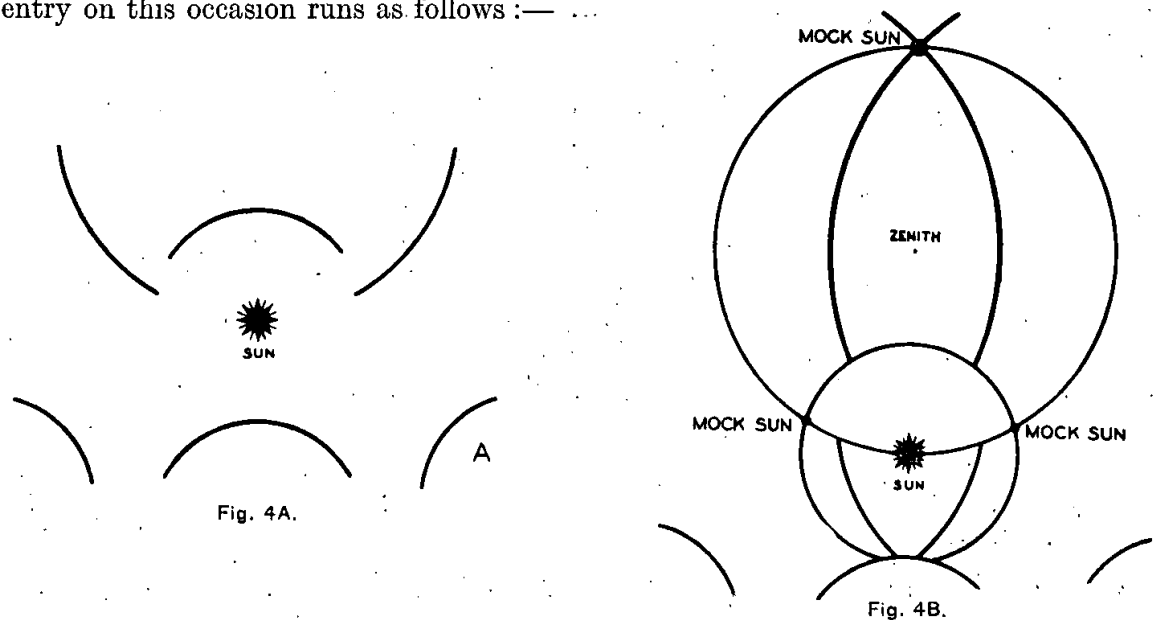


Fig. 4—Mock Sun and Prismatic Haloes observed on 9th January, 1913. An earlier appearance of the phenomenon is figured as "A," followed shortly afterwards by that recorded in "B."

"At 10 a.m. we observed a fog bank in the east. This approached rapidly. At 10.10 a.m. we noticed a prismatic arch in the east (A) and immediately afterwards saw that the air was full of fine ice crystals. There was no cloud formation (except in the east) and the sun and blue sky were not obscured. In a few moments the northern half of the heavens seemed strewn with prismatic arcs.

"At first there appeared to be no distinct arrangement, but soon several arcs joined and gave the form shown. Surrounding the sun was a ring complete except below where it was broken by a reverse arc. Passing through the sun and encircling the zenith was another circle. Two pairs of minor arcs appeared, one in each circle as shown, and one arc to east and to west. Mock suns appeared at the intersecting points of the two rings and also where the two arcs cut the larger circle. All the arcs were showing prismatic colouring except the zenith circle and its arcs which appeared white against the blue sky.

"The display lasted 15 minutes, but was not continuous, the circles frequently breaking and reuniting. The display terminated with the disappearance of the ice crystals and the obscuring of the sun by heavy cirro-cumulus."

In the coastal zone cloud formations preceding the advent of a blizzard cycle are often very striking. Plate III, Fig. 1, taken near 6 p.m. on January 22nd, 1914, in the Davis Sea, north of Haswell Island, records the southern margin of a bank of strato-cumulus cloud which at the time the picture was taken was rapidly extending from a dense centre to the north and west. Within an hour or two the wind commenced to rise until a whole gale was blowing next morning.

Plate III, Fig. 2, illustrates cloud conditions during a late autumn gale at Cape Denison, Commonwealth Bay. The dense stratus cloud bank to the north and west is seen along its southern margin to be fringed by a striking strato-cumulus formation with alto-cumulus at higher elevation.

*Daily Weather Remarks.*—Entries relating to special features of the weather and phenomena are reproduced as Table VII.

NOTE.—"Dr. E. Kidson has been engaged preparing two Volumes analysing and discussing the Expedition's meteorological data. This will be published in due course."



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PART I.

**QUEEN MARY LAND.**

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**TABLES.**

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28-95
14*	28-82	28-82	28-82	28-81	28-81	28-80	28-81	28-81	28-82	28-83	28-84	28-85	28-85	28-86	28-87
15*	28-98	28-98	28-98	28-98	28-98	28-99	28-98	28-98	28-97	28-99	29-02	29-05	29-09	29-18	29-18
16*	28-94	28-95	28-96	28-97	28-97	28-98	28-96	28-94	28-92	28-92	28-92	28-91	28-91	28-91	28-91
17*	28-85	28-85	28-85	28-85	28-85	28-84	28-83	28-82	28-82	28-80	28-80	28-82	28-82	28-82	28-82
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	28-74	28-75	28-77	28-79	28-82	28-83	28-85	28-86	28-88	28-88	28-88	28-88	28-89	28-90	28-90
28	29-10	29-11	29-13	29-14	29-16	29-18	29-19	29-19	29-20	29-21	29-22	29-24	29-26	29-28	29-30
29	29-20	29-21	29-22	29-23	29-24	29-24	29-24	29-24	29-24	29-22	29-22	29-21	29-21	29-20	29-20
30	29-19	29-19	29-19	29-20	29-20	29-20	29-21	29-21	29-21	29-19	29-19	29-19	29-19	29-19	29-19
31	29-19	29-19	29-17	29-15	29-14	29-13	29-12	29-11	29-10	29-06	29-04	29-04	29-04	29-03	29-03
Mean.	29-001	29-006	29-010	29-013	29-019	29-021	29-021	29-018	29-018	29-011	29-014	29-021	29-029	29-041	29-044

Absolute Maximum = 29-30 at 3 p.m. on 28th

\* Uncorrected Graph Readings.

METEOROLOGY.

—HOURLY VALUES.

MARCH, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
...	...	...	...	...	...	...	...	...	...	...	...	1		
...	...	...	...	...	...	...	...	...	...	...	...	2		
...	...	...	...	...	...	...	...	...	...	...	...	3		
...	...	...	...	...	...	...	...	...	...	...	...	4		
...	...	...	...	...	...	...	...	...	...	...	...	5		
...	...	...	...	...	...	...	...	...	...	...	...	6		
...	...	...	...	...	...	...	...	...	...	...	...	7		
...	...	...	...	...	...	...	...	...	...	...	...	8		
...	...	...	...	...	...	...	...	...	...	...	...	9		
...	...	...	...	...	...	...	...	...	...	...	...	10		
...	...	...	...	...	...	...	...	...	...	...	...	11		
...	...	...	...	...	...	...	...	...	...	...	...	12		
28-92	28-89	28-85	28-85	28-84	28-84	28-83	28-83	28-83	...	...	...	13†		
28-88	28-88	28-89	28-94	28-96	28-97	28-98	28-98	28-98	28-867	28-98	10-12 p.m. ...	28-80	6 a.m. ...	14*
29-13	29-10	29-04	28-98	28-92	28-87	28-89	28-91	28-93	29-005	29-18	2-3 p.m. ...	28-87	9 p.m. ...	15*
28-91	28-91	28-92	28-91	28-90	28-88	28-87	28-87	28-85	28-922	28-98	6 a.m. ...	28-85	Midnight ...	16*
28-82	28-82	28-82	28-82	28-82	28-83	28-83	28-83	28-83	28-830	28-85	0-5 a.m. ...	28-80	10-11 a.m. ...	17*
...	...	...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	...	...	19
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	...	...	25
...	...	...	...	...	28-69	28-68	28-70	28-73	...	...	...	...	...	26
28-92	28-96	28-98	29-00	29-02	29-04	29-06	29-07	29-08	28-899	29-08	Midnight ...	28-73	0 a.m. ...	27
29-27	29-24	29-20	29-16	29-14	29-12	29-13	29-15	29-17	29-185	29-30	3 p.m. ...	29-08	0 a.m. ...	28
29-20	29-19	29-18	29-18	29-18	29-16	29-17	29-18	29-18	29-206	29-24	5-9 a.m. ...	29-16	9 p.m. ...	29
29-19	29-20	29-20	29-21	29-21	29-22	29-21	29-20	29-19	29-198	29-22	9 p.m. ...	29-18	0 a.m. ...	30
29-00	28-98	28-96	28-95	28-93	28-91	28-90	28-89	28-89	29-046	29-19	0-2 a.m. ...	28-89	11-12 p.m. ...	31
29-036	29-031	29-021	29-017	29-009	29-000	29-004	29-009	29-011	29-018	...	...	...	...	Mean.

Absolute Minimum = 28-73 at 0 a.m. on 27th.

†Incomplete days not taken for means.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	28.89	28.88	28.86	28.85	28.82	28.82	28.82	28.82	28.82	28.83	28.86	28.89	28.91	28.93	28.94
2	29.10	29.11	29.13	29.13	29.13	29.13	29.13	29.13	29.14	29.15	29.17	29.20	29.21	29.22	29.23
3	29.29	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.30	29.29	29.28
4	29.26	29.26	29.26	29.26	29.26	29.27	29.26	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.26
5	28.98	28.91	28.84	28.80	28.73	28.63	28.53	28.45	28.38	28.29	28.23	28.16	28.15	28.14	28.13
6	28.28	28.31	28.33	28.36	28.37	28.37	28.38	28.39	28.41	28.42	28.44	28.47	28.54	28.58	28.63
7	29.27	29.27	29.27	29.27	29.27	29.27	29.28	29.29	29.29	29.30	29.32	29.33	29.34	29.34	29.35
8	29.31	29.28	29.27	29.23	29.19	29.15	29.14	29.14	29.14	29.13	29.10	29.05	29.02	29.01	28.98
9	28.96	28.97	28.99	29.05	29.09	29.13	29.20	29.25	29.27	29.28	29.31	29.31	29.29	29.29	29.31
10	29.32	29.34	29.37	29.38	29.39	29.40	29.43	29.45	29.46	29.46	29.46	29.46	29.46	29.46	29.46
11	29.47	29.46	29.44	29.43	29.41	29.38	29.36	29.36	29.35	29.33	29.28	29.22	29.20	29.16	29.13
12	28.96	28.96	28.91	28.90	28.88	28.87	28.87	28.87	28.87	28.86	28.86	28.85	28.84	28.84	28.83
13	28.78	28.77	28.76	28.75	28.75	28.74	28.74	28.76	28.78	28.78	28.78	28.78	28.78	28.78	28.78
14	28.89	28.90	28.90	28.90	28.91	28.91	28.91	28.92	28.94	28.93	28.93	28.92	28.92	28.92	28.92
15	28.93	28.93	28.92	28.92	28.92	28.90	28.89	28.88	28.87	28.85	28.85	28.85	28.84	28.84	28.84
16	28.88	28.89	28.90	28.90	28.91	28.92	28.93	28.93	28.95	28.96	28.97	28.97	28.97	28.98	28.99
17	29.04	29.04	29.05	29.05	29.05	29.06	29.06	29.06	29.06	29.02	29.00	28.98	28.96	28.94	28.93
18	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.97	28.99	29.01	29.04	29.04	29.05
19	29.16	29.16	29.19	29.20	29.23	29.25	29.26	29.27	29.27	29.29	29.31	29.32	29.33	29.35	29.36
20	29.32	29.33	29.32	29.29	29.26	29.23	29.21	29.20	29.18	29.16	29.13	29.09	29.04	29.01	28.99
21	28.90	28.90	28.90	28.90	28.90	28.90	28.92	28.94	28.95	28.97	28.98	28.99	29.00	29.01	29.02
22	29.25	29.24	29.23	29.22	29.22	29.22	29.21	29.21	29.21	29.20	29.20	29.20	29.19	29.19	29.19
23	29.13	29.13	29.12	29.12	29.11	29.12	29.12	29.12	29.12	29.13	29.14	29.15	29.17	29.18	29.19
24	29.38	29.41	29.41	29.44	29.47	29.48	29.48	29.48	29.50	29.52	29.52	29.52	29.52	29.52	29.54
25	29.53	29.51	29.47	29.44	29.41	29.39	29.37	29.35	29.33	29.32	29.31	29.29	29.28	29.26	29.25
26	29.00	28.99	28.97	28.96	28.95	28.94	28.94	28.94	28.94	28.93	28.91	28.89	28.87	28.85	28.84
27	28.89	28.89	28.89	28.90	28.90	28.90	28.91	28.91	28.90	28.90	28.89	28.88	28.86	28.84	28.84
28	28.71	28.70	28.70	28.69	28.68	28.65	28.64	28.64	28.63	28.60	28.60	28.62	28.63	28.64	28.65
29	28.72	28.73	28.75	28.76	28.80	28.82	28.85	28.86	28.92	28.94	28.96	28.98	29.01	29.04	29.06
30	29.22	29.23	29.24	29.24	29.24	29.24	29.25	29.24	29.24	29.23	29.23	29.23	29.23	29.23	29.23
Mean.	29.059	29.059	29.055	29.053	29.050	29.045	29.045	29.046	29.048	29.043	29.043	29.039	29.038	29.038	29.040

Absolute Maximum = 29.59 at 9 p.m. on 24th.

METEOROLOGY.

—HOURLY VALUES—*continued.*

APRIL, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Date.		
28-95	28-98	29-00	29-04	29-05	29-06	29-07	29-08	29-09	28-923	29-09	Midnight ...	28-82	5-9 a.m. ...	1
29-25	29-27	29-27	29-27	29-27	29-28	29-28	29-29	29-29	29-195	29-29	11-12 p.m. ...	29-09	0.0 a.m. ...	2
29-28	29-28	29-28	29-27	29-27	29-27	29-27	29-27	29-26	29-289	29-30	2 a.m.-1 p.m.	29-26	11-55 p.m. ...	3
29-24	29-23	29-22	29-21	29-20	29-18	29-13	29-07	29-04	29-228	29-27	6-10 a.m. ...	29-04	Midnight ...	4
28-14	28-16	28-17	28-19	28-20	28-20	28-22	28-24	28-26	28-397	29-04	0.0 a.m. ...	28-13	2-50 p.m. ...	5
28-76	28-85	28-99	29-09	29-18	29-26	29-27	29-27	29-27	28-655	29-27	10-12 p.m. ...	28-26	0.0 a.m. ...	6
29-35	29-35	29-36	29-37	29-37	29-37	29-35	29-34	29-32	29-317	29-37	7-9 p.m. ...	29-27	0.0 a.m., etc..	7
28-96	28-93	28-92	28-91	28-91	28-91	28-90	28-92	28-95	29-068	29-32	0.0 a.m. ...	28-90	10 p.m. ...	8
29-31	29-32	29-32	29-32	29-31	29-32	29-32	29-32	29-32	29-224	29-32	5 p.m., etc....	28-95	0.0 a.m. ...	9
29-47	29-48	29-48	29-48	29-49	29-49	29-48	29-48	29-48	29-439	29-49	8-9 p.m. ...	29-32	0-1 a.m. ...	10
29-11	29-09	29-06	29-04	29-04	29-00	29-00	28-97	28-96	29-230	29-47	0-15 a.m. ...	28-96	11-50 p.m. ...	11
28-81	28-81	28-80	28-80	28-80	28-79	28-79	28-79	28-79	28-852	28-96	0-2 a.m. ...	28-79	9-12 p.m. ...	12
28-79	28-79	28-81	28-81	28-85	28-85	28-86	28-89	28-89	28-792	28-89	11-12 p.m. ...	28-74	6-7 a.m. ...	13
28-92	28-93	28-93	28-93	28-93	28-93	28-93	28-93	28-93	28-919	28-93	5 p.m., etc....	28-89	0.0 a.m. ...	14
28-84	28-84	28-84	28-84	28-84	28-84	28-85	28-86	28-88	28-870	28-93	0-2 a.m. ...	28-84	1-9 p.m. ...	15
29-00	29-00	29-00	29-01	29-01	29-02	29-03	29-04	29-04	28-963	29-04	11-12 p.m. ...	28-88	0.0 a.m. ...	16
28-94	28-95	28-96	28-97	28-98	28-99	28-96	28-96	28-96	29-000	29-06	6-9 a.m. ...	28-96	10-12 p.m. ...	17
29-07	29-07	29-08	29-09	29-09	29-09	29-10	29-12	29-14	29-021	29-14	Midnight ...	28-96	0-9 a.m. ...	18
29-35	29-35	29-35	29-35	29-35	29-34	29-34	29-34	29-34	29-290	29-36	3 p.m. ...	29-14	0-0 a.m. ...	19
28-96	28-92	28-90	28-90	28-89	28-89	28-90	28-90	28-90	29-089	29-34	0.0 a.m. ...	28-89	8-9 p.m. ...	20
29-06	29-10	29-17	29-22	29-26	29-28	29-28	29-27	29-26	29-038	29-28	9-10 p.m. ...	28-90	0-6 a.m. ...	21
29-18	29-18	29-17	29-16	29-15	29-15	29-14	29-14	29-13	29-194	29-26	0.0 a.m. ...	29-13	Midnight ...	22
29-23	29-24	29-25	29-26	29-27	29-29	29-31	29-33	29-34	29-186	29-34	11-50 p.m. ...	29-11	5-40 a.m. ...	23
29-54	29-56	29-57	29-58	29-58	29-59	29-58	29-56	29-55	29-508	29-59	9 p.m. ...	29-34	0.0 a.m. ...	24
29-23	29-20	29-16	29-12	29-10	29-08	29-04	29-04	29-02	29-282	29-55	0.0 a.m. ...	29-02	12 p.m. ...	25
28-85	28-85	28-85	28-85	28-86	28-87	28-87	28-87	28-89	28-906	29-02	0.0 a.m. ...	28-84	3 p.m. ...	26
28-82	28-80	28-78	28-76	28-73	28-71	28-71	28-71	28-71	28-838	28-91	7-8 a.m. ...	28-71	9-12 p.m. ...	27
28-65	28-64	28-64	28-64	28-65	28-66	28-67	28-68	28-70	28-655	28-71	0-30 a.m. ...	28-60	10-11 a.m. ...	28
29-09	29-12	29-14	29-15	29-16	29-17	29-20	29-22	29-22	28-976	29-22	11-12 p.m. ...	28-70	0.0 a.m. ...	29
29-24	29-25	29-26	29-27	29-28	29-29	29-30	29-30	29-31	29-249	29-31	11-55 p.m. ...	29-22	0-1 a.m. ...	30
29-046	29-051	29-058	29-063	29-069	29-072	29-072	29-073	29-075	29-053	...	.....	...	.....	Mean.

Absolute Minimum = 28-13 at 2-50 p.m. on 5th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29-34	29-35	29-36	29-40	29-41	29-43	29-45	29-47	29-49	29-50	29-51	29-51	29-52	29-52	29-52
2	29-50	29-47	29-47	29-46	29-44	29-42	29-41	29-38	29-37	29-36	29-36	29-36	29-37	29-36	29-36
3	29-26	29-24	29-23	29-23	29-23	29-21	29-21	29-18	29-17	29-16	29-15	29-12	29-11	29-10	29-10
4	28-99	28-99	28-99	28-99	28-98	28-98	28-98	28-98	28-97	29-00	29-02	29-06	29-07	29-08	29-10
5	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16	29-16
6	29-14	29-12	29-09	29-08	29-08	29-07	29-04	29-00	28-95	28-95	28-91	28-88	28-85	28-82	28-81
7	28-79	28-82	28-85	28-90	28-95	29-01	29-07	29-16	29-27	29-35	29-41	29-48	29-50	29-52	29-54
8	29-47	29-47	29-47	29-47	29-47	29-47	29-47	29-47	29-47	29-43	29-39	29-35	29-32	29-30	29-28
9	29-15	29-14	29-13	29-11	29-10	29-06	29-04	29-02	29-01	28-99	28-96	28-93	28-90	28-88	28-87
10	28-75	28-75	28-76	28-78	28-82	28-84	28-87	28-89	28-92	28-95	28-97	28-98	29-00	29-02	29-03
11	29-13	29-13	29-14	29-14	29-16	29-16	29-18	29-19	29-20	29-20	29-20	29-20	29-20	29-20	29-20
12	29-24	29-24	29-24	29-25	29-25	29-25	29-25	29-24	29-24	29-23	29-22	29-22	29-21	29-21	29-21
13	29-19	29-19	29-19	29-19	29-19	29-19	29-18	29-14	29-11	29-11	29-10	29-07	29-05	29-03	29-02
14	28-98	28-98	28-99	29-00	29-02	29-03	29-04	29-06	29-07	29-07	29-07	29-09	29-08	29-07	29-07
15	28-92	28-94	28-94	28-94	28-96	28-97	28-99	29-01	29-02	29-06	29-08	29-10	29-10	29-12	29-14
16	29-22	29-22	29-22	29-20	29-19	29-21	29-20	29-20	29-20	29-20	29-20	29-20	29-17	29-17	29-16
17	29-01	29-00	28-98	28-95	28-95	28-93	28-92	28-91	28-90	28-90	28-87	28-85	28-83	28-81	28-79
18	28-64	28-66	28-69	28-69	28-72	28-74	28-77	28-79	28-83	28-87	28-90	28-92	28-94	28-95	28-97
19	29-29	29-32	29-33	29-34	29-38	29-39	29-42	29-44	29-48	29-49	29-51	29-52	29-52	29-52	29-52
20	29-47	29-47	29-47	29-46	29-46	29-46	29-46	29-45	29-45	29-45	29-45	29-43	29-43	29-43	29-42
21	29-48	29-48	29-50	29-50	29-50	29-51	29-53	29-53	29-54	29-53	29-53	29-52	29-52	29-52	29-52
22	29-58	29-59	29-60	29-60	29-59	29-60	29-61	29-61	29-61	29-60	29-60	29-59	29-59	29-59	29-58
23	29-30	29-24	29-21	29-17	29-13	29-08	29-03	29-01	28-98	28-95	28-90	28-82	28-77	28-73	28-71
24	28-56	28-56	28-53	28-52	28-52	28-51	28-51	28-52	28-55	28-57	28-58	28-58	28-58	28-58	28-59
25	28-80	28-84	28-86	28-87	28-90	28-92	28-94	28-97	28-99	29-01	29-02	29-02	29-03	29-04	29-04
26	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-11	29-10	29-10	29-10	29-10	29-10	29-09
27	29-09	29-09	29-09	29-07	29-05	29-05	29-00	29-00	28-92	28-89	28-84	28-81	28-77	28-74	28-70
28	28-69	28-69	28-70	28-70	28-70	28-70	28-70	28-71	28-75	28-75	28-76	28-76	28-76	28-75	28-75
29	28-75	28-75	28-75	28-75	28-75	28-75	28-77	28-77	28-78	28-78	28-78	28-78	28-78	28-78	28-77
30	28-93	28-93	28-93	28-95	28-95	28-96	28-96	28-96	28-97	28-96	28-96	28-96	28-95	28-95	28-94
31	28-82	28-81	28-79	28-78	28-76	28-75	28-74	28-72	28-71	28-69	28-67	28-64	28-63	28-61	28-59
Mean.	29-088	29-088	29-089	29-089	29-093	29-094	29-097	29-098	29-103	29-105	29-103	29-097	29-091	29-086	29-082

Absolute Maximum = 29-61 from 7 to 9 a.m. on 22nd.

—HOURLY VALUES—*continued.*

MAY, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-53	29-53	29-53	29-52	29-52	29-52	29-51	29-51	29-50	29-473	29-53	6 p.m. ...	29-31	0 a.m. ...	1
29-36	29-36	29-34	29-34	29-32	29-31	29-30	29-29	29-27	29-379	29-50	0-1 a.m. ...	29-27	Midnight ...	2
29-07	29-05	29-05	29-05	29-02	29-02	29-00	29-00	29-00	29-129	29-27	0 a.m. ...	29-00	Midnight ...	3
29-12	29-12	29-12	29-13	29-14	29-15	29-15	29-15	29-16	29-056	29-16	Midnight ...	28-97	9 a.m. ...	4
29-16	29-16	29-16	29-16	29-16	29-17	29-16	29-15	29-15	29-160	29-17	9 p.m. ...	29-15	11-12 p.m. ...	5
28-81	28-79	28-77	28-76	28-75	28-73	28-73	28-74	28-75	28-909	29-15	0 a.m. ...	28-73	9-10 p.m. ...	6
29-53	29-52	29-51	29-49	29-47	29-47	29-47	29-47	29-47	29-277	29-54	3 p.m. ...	28-75	0 a.m. ...	7
29-28	29-27	29-25	29-22	29-21	29-20	29-19	29-19	29-17	29-351	29-47	0-9 a.m. ...	29-17	Midnight ...	8
28-86	28-83	28-81	28-79	28-78	28-75	28-76	28-76	28-76	28-942	29-17	0 a.m. ...	28-75	9 p.m. ...	9
29-05	29-07	29-08	29-09	29-09	29-10	29-10	29-10	29-13	28-957	29-13	Midnight ...	28-75	1-2 a.m. ...	10
29-21	29-21	29-21	29-22	29-23	29-24	29-24	29-24	29-24	29-192	29-24	9-12 p.m. ...	29-13	0-2 a.m. ...	11
29-21	29-21	29-21	29-21	29-21	29-21	29-20	29-20	29-20	29-224	29-25	4-7 a.m. ...	29-20	10-12 p.m. ...	12
29-00	29-00	28-98	28-96	28-95	28-95	28-96	28-96	28-96	29-075	29-20	0 a.m. ...	28-95	8-9 p.m. ...	13
29-05	29-03	29-00	28-98	28-96	28-94	28-92	28-92	28-92	29-015	29-09	Noon ...	28-92	10-12 p.m. ...	14
29-16	29-16	29-18	29-18	29-20	29-21	29-21	29-23	29-23	29-079	29-23	11-12 p.m. ...	28-92	0-1 a.m. ...	15
29-16	29-14	29-11	29-09	29-08	29-07	29-05	29-05	29-03	29-160	29-23	0 a.m. ...	29-03	Midnight ...	16
28-74	28-72	28-69	28-67	28-63	28-60	28-60	28-60	28-62	28-820	29-03	0 a.m. ...	28-60	9-11 p.m. ...	17
29-00	29-03	29-06	29-07	29-12	29-15	29-17	29-20	29-24	28-909	29-24	Midnight ...	28-62	0 a.m. ...	18
29-52	29-50	29-50	29-50	29-48	29-48	29-47	29-47	29-47	29-448	29-52	Noon-4 p.m. ...	29-24	0 a.m. ...	19
29-43	29-44	29-44	29-45	29-46	29-46	29-47	29-48	29-48	29-453	29-48	11-12 p.m. ...	29-42	3 p.m. ...	20
29-53	29-54	29-55	29-57	29-57	29-58	29-60	29-60	29-58	29-532	29-60	10-11 p.m. ...	29-48	0-2 a.m. ...	21
29-57	29-55	29-51	29-51	29-48	29-45	29-40	29-39	29-33	29-552	29-61	7-9 a.m. ...	29-33	Midnight ...	22
28-70	28-67	28-67	28-67	28-63	28-59	28-57	28-57	28-56	28-877	29-33	0 a.m. ...	28-56	Midnight ...	23
28-60	28-62	28-65	28-69	28-71	28-74	28-75	28-76	28-80	28-603	28-80	Midnight ...	28-51	6-7 a.m. ...	24
29-04	29-05	29-05	29-09	29-09	29-09	29-09	29-09	29-10	28-991	29-10	Midnight ...	28-80	0-1 a.m. ...	25
29-11	29-10	29-10	29-10	29-09	29-09	29-09	29-09	29-09	29-099	29-11	9 a.m., 4 p.m. ...	29-09	8-12 p.m., &c. ...	26
28-70	28-69	28-69	28-69	28-69	28-70	28-70	28-69	28-69	28-856	29-09	0-3 a.m. ...	28-69	5-8 p.m., &c. ...	27
28-75	28-75	28-75	28-75	28-75	28-76	28-76	28-75	28-75	28-734	28-76	Noon, &c. ...	28-69	0-2 a.m. ...	28
28-79	28-81	28-81	28-81	28-85	28-89	28-90	28-90	28-90	28-795	28-90	10-12 p.m. ...	28-75	0-6 a.m. ...	29
28-94	28-94	28-93	28-91	28-85	28-82	28-82	28-82	28-82	28-923	28-97	9 a.m. ...	28-82	9-12 p.m. ...	30
28-59	28-59	28-59	28-59	28-59	28-60	28-59	28-59	28-59	28-872	28-82	0-1 a.m. ...	28-59	3-8 p.m., &c. ...	31
29-083	29-079	29-074	29-073	29-067	29-066	29-02	29-063	29-063	29-085	...	.....	...	.....	Mean.

Absolute Minimum = 28-51 from 6 to 7 a.m. on 24th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	28.59	28.59	28.59	28.58	28.58	28.58	28.58	28.58	28.58	28.57	28.57	28.56	28.56	28.56	28.56
2	28.74	28.76	28.77	28.78	28.79	28.81	28.81	28.84	28.85	28.84	28.84	28.84	28.84	28.83	28.83
3	28.86	28.86	28.87	28.88	28.89	28.89	28.90	28.90	28.92	28.90	28.88	28.86	28.84	28.82	28.80
4	28.96	28.97	28.98	29.00	29.00	29.01	29.00	29.00	29.01	29.00	29.00	28.99	28.98	28.97	28.96
5	28.91	28.90	28.90	28.90	28.90	28.89	28.89	28.88	28.87	28.86	28.86	28.84	28.84	28.83	28.82
6	28.80	28.81	28.81	28.82	28.82	28.82	28.82	28.82	28.86	28.86	28.86	28.87	28.89	28.89	28.89
7	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.93	28.92	28.92	28.92	28.91	28.91	28.92
8	28.99	29.00	29.00	29.01	29.02	29.02	29.02	29.07	29.09	29.08	29.08	29.08	29.08	29.08	29.08
9	29.18	29.18	29.18	29.21	29.22	29.22	29.26	29.29	29.30	29.30	29.30	29.31	29.32	29.32	29.32
10	29.41	29.41	29.41	29.41	29.41	29.41	29.39	29.39	29.39	29.39	29.39	29.38	29.37	29.34	29.32
11	29.26	29.25	29.25	29.25	29.24	29.23	29.22	29.21	29.19	29.17	29.17	29.16	29.14	29.12	29.11
12	29.02	29.02	29.03	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.01	28.99	28.99	28.99
13	28.96	28.96	28.96	28.96	28.96	28.96	28.96	28.97	28.97	28.97	28.95	28.94	28.92	28.92	28.93
14	28.96	28.96	28.96	28.98	29.00	29.02	29.03	29.06	29.08	29.09	29.10	29.12	29.12	29.13	29.13
15	29.23	29.24	29.24	29.25	29.26	29.28	29.29	29.32	29.34	29.33	29.33	29.32	29.32	29.32	29.31
16	29.22	29.22	29.22	29.22	29.22	29.22	29.22	29.21	29.18	29.13	29.09	29.07	29.01	28.98	28.93
17	28.60	28.58	28.56	28.54	28.53	28.52	28.52	28.52	28.51	28.50	28.50	28.50	28.50	28.50	28.50
18	28.68	28.72	28.76	28.80	28.85	28.89	28.93	28.98	29.06	29.07	29.07	29.08	29.09	29.09	29.10
19	29.32	29.32	29.32	29.32	29.32	29.32	29.32	29.32	29.33	29.32	29.30	29.29	29.27	29.26	29.24
20	29.19	29.19	29.19	29.19	29.19	29.18	29.18	29.18	29.16	29.14	29.14	29.13	29.11	29.11	29.09
21	28.96	28.94	28.93	28.92	28.92	28.92	28.92	28.92	28.92	28.93	28.95	28.96	28.99	29.02	29.06
22	29.25	29.27	29.31	29.32	29.33	29.34	29.35	29.35	29.36	29.33	29.30	29.28	29.27	29.23	29.16
23	28.67	28.66	28.67	28.69	28.72	28.72	28.74	28.75	28.80	28.80	28.87	28.95	29.00	29.06	29.10
24	29.39	29.44	29.46	29.47	29.49	29.49	29.50	29.50	29.53	29.54	29.56	29.54	29.53	29.48	29.41
25	29.07	29.07	29.05	29.05	29.03	29.01	29.00	28.98	28.95	28.95	28.96	28.97	28.97	28.97	28.99
26	28.94	28.93	28.92	28.91	28.90	28.87	28.85	28.81	28.79	28.75	28.72	28.69	28.66	28.65	28.64
27	28.74	28.76	28.80	28.83	28.85	28.88	28.92	28.95	28.99	29.05	29.10	29.14	29.19	29.25	29.28
28	29.57	29.59	29.61	29.63	29.65	29.65	29.68	29.68	29.69	29.66	29.66	29.64	29.64	29.64	29.63
29	29.56	29.55	29.55	29.55	29.55	29.55	29.55	29.53	29.53	29.51	29.54	29.48	29.45	29.43	29.42
30	29.17	29.12	29.07	29.00	28.96	28.91	28.87	28.82	28.77	28.71	28.67	28.61	28.57	28.52	28.49
Mean.	29.037	29.040	29.043	29.047	29.051	29.051	29.055	29.059	29.065	29.056	29.056	29.051	29.046	29.041	29.034

Absolute Maximum = 29.69 at 9 a.m. on 28th.



METEOROLOGY

—HOURLY VALUES—*continued.*

JUNE, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly Mean.	Maximum.	Minimum.	Date.		
28-59	28-61	28-63	28-65	28-66	28-69	28-69	28-71	28-74	28-605	28-74	Midnight ...	28-56	12-3 p.m. ...	1
28-83	28-83	28-84	28-84	28-84	28-84	28-84	28-85	28-85	28-820	28-85	9 a.m., &c....	28-74	1 a.m. ...	2
28-81	28-84	28-84	28-87	28-87	28-88	28-91	28-92	28-94	28-871	28-94	Midnight ...	28-80	3 p.m. ...	3
28-95	28-95	28-95	28-94	28-94	28-92	28-92	28-91	28-91	28-768	29-01	6 a.m.-9 a.m.	28-91	11-12 p.m. ...	4
28-81	28-81	28-80	28-80	28-80	28-79	28-79	28-80	28-80	28-848	28-91	0-1 a.m. ...	28-19	9-10 p.m. ...	5
28-90	28-91	28-91	28-91	28-91	28-92	28-92	28-92	28-92	28-868	28-92	9-12 p.m. ...	28-80	0-1 a.m. ...	6
28-92	28-92	28-93	28-94	28-95	28-96	28-97	28-97	28-98	28-929	28-98	Midnight ...	28-91	1-2 p.m. ...	7
29-08	29-08	29-09	29-11	29-13	29-14	29-15	29-16	29-17	29-110	29-17	Midnight ...	28-98	0 a.m. ...	8
29-34	29-36	29-37	29-37	29-37	29-38	29-40	29-41	29-41	29-308	29-41	11-12 p.m. ...	29-17	0 a.m. ...	9
29-31	29-32	29-30	29-30	29-28	29-29	29-28	29-27	29-27	29-355	29-41	0-6 a.m. ...	29-27	11-12 p.m. ...	10
29-11	29-09	29-08	29-07	29-06	29-04	29-03	29-02	29-02	29-150	29-26	1 a.m. ...	29-02	11-12 p.m. ...	11
29-00	29-00	29-00	28-98	28-98	28-96	28-96	28-96	28-96	28-998	29-03	3 a.m. ...	28-96	9-12 p.m. ...	12
28-92	28-92	28-93	28-94	28-94	28-95	28-95	28-95	28-95	28-948	28-97	8-10 a.m. ...	28-92	1-2 p.m. ...	13
29-14	29-15	29-16	29-16	29-18	29-18	29-20	29-21	29-22	29-258	29-22	Midnight ...	28-95	0 a.m. ...	14
29-30	29-29	29-26	29-25	29-24	29-23	29-22	29-22	29-22	29-275	29-34	9 a.m. ...	29-22	10-12 p.m. ...	15
28-90	28-89	28-84	28-79	28-76	28-72	28-67	28-66	28-64	29-012	29-22	0-7 a.m. ...	28-64	Midn't ...	16
28-54	28-54	28-54	28-59	28-59	28-59	28-62	28-64	28-66	28-549	28-66	Midnight ...	28-50	10 a.m.-3 p.m.	17
29-13	29-16	29-19	29-20	29-23	29-32	29-32	29-32	29-32	29-043	29-32	9-12 p.m. ...	28-66	0 a.m. ...	18
29-23	29-22	29-22	29-21	29-21	29-21	29-21	29-21	29-19	29-272	29-33	9 a.m. ...	29-19	Midnight ...	19
29-09	29-08	29-07	29-06	29-05	29-02	29-01	29-00	28-98	29-118	29-19	0-5 a.m. ...	28-98	Midnight ...	20
29-07	29-11	29-14	29-15	29-15	29-18	29-19	29-21	29-23	29-023	29-23	Midnight ...	28-92	4 a.m.- 9 a.m.	21
29-11	29-07	28-98	28-90	28-84	28-80	28-74	28-71	28-67	29-148	29-36	9 a.m. ...	28-67	Midnight ...	22
29-16	29-18	29-19	29-22	29-27	29-29	29-33	29-33	29-36	28-966	29-36	Midnight ...	28-66	2 a.m. ...	23
29-40	29-40	29-37	29-30	29-24	29-20	29-15	29-15	29-09	29-407	29-56	11 a.m. ...	29-09	Midnight ...	24
28-99	28-98	28-97	28-96	28-96	28-95	28-95	28-95	28-96	28-990	29-09	0 a.m. ...	28-95	9-10 a.m. ...	25
28-64	28-64	28-64	28-65	28-65	28-66	28-68	28-68	28-70	28-750	28-90	0 a.m. ...	28-64	3-6 p.m. ...	26
29-30	29-33	29-35	29-39	29-43	29-47	29-49	29-51	29-54	29-130	29-54	Midnight ...	28-70	0 a.m. ...	27
29-62	29-62	29-61	29-60	29-59	29-58	29-56	29-56	29-56	29-621	29-69	9 a.m. ...	29-54	0 a.m. ...	28
29-40	29-40	29-37	29-35	29-32	29-30	29-28	29-25	29-22	29-442	29-56	0 a.m.-1 a.m.	29-22	Midnight ...	29
28-44	28-44	28-43	28-44	28-46	28-48	28-54	28-58	28-60	28-707	29-22	0 a.m. ...	28-43	6 p.m. ...	30
29-034	29-038	29-033	29-031	29-030	29-031	29-032	29-035	29-036	29-043	...	.....	...	.....	Mean.

Absolute Minimum = 28-43 at 6 p.m. on 30th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	28.66	28.73	28.77	28.80	28.83	28.85	28.86	28.86	28.88	28.87	28.85	28.83	28.81	28.79	28.77
2	28.92	28.92	28.92	28.92	28.92	28.92	28.92	28.93	28.95	28.95	28.96	28.97	28.98	28.99	29.03
3	29.33	29.36	29.36	29.36	29.36	29.36	29.35	29.36	29.35	29.34	29.33	29.32	29.31	29.26	29.21
4	29.13	29.17	29.21	29.27	29.33	29.36	29.41	29.46	29.50	29.53	29.60	29.62	29.60	29.60	29.71
5	29.81	29.82	29.82	29.82	29.77	29.74	29.72	29.65	29.58	29.54	29.49	29.46	29.39	29.35	29.30
6	28.96	28.92	28.89	28.85	28.82	28.76	28.71	28.65	28.59	28.48	28.47	28.46	28.45	28.45	28.49
7	28.60	28.61	28.61	28.63	28.64	28.66	28.71	28.76	28.80	28.85	28.87	28.90	28.92	28.95	28.97
8	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.27	29.27	29.27	29.27	29.27	29.26	29.24	29.24
9	29.17	29.15	29.14	29.12	29.11	29.06	29.06	29.02	29.02	29.01	29.01	29.00	28.99	28.98	28.97
10	29.04	29.07	29.08	29.08	29.09	29.09	29.10	29.10	29.10	29.10	29.09	29.09	29.10	29.12	29.13
11	29.33	29.34	29.38	29.41	29.42	29.43	29.45	29.46	29.50	29.48	29.47	29.46	29.48	29.46	29.46
12	29.38	29.38	29.37	29.36	29.35	29.34	29.31	29.29	29.29	29.28	29.28	29.29	29.28	29.27	29.26
13	29.24	29.24	29.22	29.22	29.22	29.21	29.20	29.18	29.15	29.14	29.06	29.04	29.04	29.02	29.00
14	28.90	28.90	28.90	28.90	28.90	28.90	28.90	28.91	28.94	28.94	28.94	28.93	28.91	28.91	28.91
15	28.76	28.72	28.70	28.68	28.62	28.61	28.60	28.55	28.54	28.51	28.51	28.51	28.52	28.53	28.53
16	28.55	28.54	28.53	28.53	28.53	28.53	28.54	28.55	28.56	28.56	28.57	28.58	28.59	28.61	28.64
17	28.89	28.88	28.88	28.87	28.85	28.85	28.84	28.83	28.82	28.82	28.81	28.80	28.78	28.78	28.78
18	28.84	28.84	28.87	28.88	28.88	28.89	28.90	28.92	28.91	28.91	28.90	28.91	28.91	28.93	28.93
19	28.91	28.91	28.91	28.91	28.91	28.91	28.92	28.92	28.93	28.93	28.92	28.92	28.92	28.93	28.93
20	28.93	28.94	28.96	28.98	28.99	29.01	29.00	29.00	29.02	29.05	29.05	29.06	29.05	29.05	29.06
21	29.14	29.14	29.14	29.14	29.13	29.13	29.12	29.12	29.08	29.08	29.08	29.08	29.08	29.06	29.05
22	29.00	29.00	29.00	29.00	29.00	28.99	29.00	28.99	28.97	28.97	28.97	28.96	28.96	28.96	28.95
23	28.84	28.84	28.84	28.84	28.84	28.82	28.81	28.79	28.76	28.76	28.76	28.76	28.76	28.72	28.72
24	28.59	28.59	28.59	28.59	28.59	28.63	28.68	28.71	28.73	28.71	28.69	28.64	28.62	28.53	28.51
25	28.20	28.19	28.18	28.18	28.15	28.14	28.13	28.11	28.10	28.09	28.09	28.09	28.09	28.10	28.17
26	28.76	28.87	28.96	29.03	29.09	29.18	29.20	29.23	29.26	29.29	29.29	29.27	29.23	29.21	29.15
27	29.00	29.00	29.01	29.07	29.16	29.16	29.19	29.24	29.35	29.25	29.32	29.33	29.32	29.31	29.30
28	29.16	29.14	29.12	29.09	29.09	29.07	29.06	29.04	29.03	28.97	28.97	28.97	28.96	28.94	28.89
29	28.86	28.87	28.88	28.89	28.89	28.90	28.93	28.95	29.00	29.01	29.01	29.01	29.01	29.04	29.04
30	29.09	29.09	29.09	29.10	29.10	29.11	29.13	29.16	29.17	29.18	29.17	29.16	29.14	29.12	29.12
31	29.31	29.31	29.31	29.31	29.31	29.31	29.31	29.31	29.31	29.32	29.31	29.31	29.29	29.29	29.29
Mean.	28.985	28.991	28.996	29.003	29.005	29.005	29.010	29.010	29.015	29.006	29.004	29.000	28.992	28.984	28.984

Absolute Maximum = 29.82 from 2 a.m. to 4 a.m. on 5th.

METEOROLOGY.

—HOURLY VALUES—*continued.*

JULY, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Date.		
28-77	28-77	28-79	28-81	28-83	28-83	28-85	28-90	28-92	28-811	28-92	Midnight ...	28-66	0-1 a.m. ...	1
29-02	29-09	29-12	29-13	29-16	29-22	29-25	29-30	29-33	29-025	29-33	Midnight ...	28-90	0 a.m. ...	2
29-20	29-21	29-19	29-16	29-14	29-11	29-11	29-10	29-11	29-267	29-36	2-6 a.m., &c.	29-10	11 p.m. ...	3
29-72	29-74	29-75	29-75	29-77	29-78	29-78	29-80	29-81	29-544	29-81	Midnight ...	29-11	0 a.m. ...	4
29-26	29-21	29-18	29-14	29-12	29-10	29-05	29-03	29-40	29-448	29-82	2-4 a.m. ...	29-00	Midnight ...	5
28-50	28-52	28-52	28-54	28-56	28-57	28-58	28-60	28-60	28-631	29-00	0 a.m. ...	28-45	1-2 p.m. ...	6
29-00	29-02	29-10	29-10	29-14	29-19	29-24	29-25	29-25	28-910	29-25	11-12 p.m. ...	28-60	0-1 a.m. ...	7
29-24	29-24	29-23	29-22	29-20	29-20	29-19	29-19	29-18	29-240	29-27	8-12 a.m. ...	29-18	Midnight ...	8
28-97	28-98	28-98	28-98	28-99	29-00	29-03	29-03	29-03	29-037	29-18	0 a.m. ...	28-97	3-4 p.m. ...	9
29-14	29-15	29-21	29-24	29-27	29-29	29-32	29-33	29-33	29-146	29-33	11-12 p.m. ...	29-03	0 a.m. ...	10
29-45	29-45	29-43	29-42	29-42	29-41	29-40	29-39	29-38	29-427	29-50	9 a.m. ...	29-33	0-1 a.m. ...	11
29-26	29-27	29-27	29-28	29-28	29-28	29-27	29-26	29-26	29-301	29-38	0-2 a.m. ...	29-26	3 p.m., &c. ...	12
29-00	28-97	28-94	28-95	28-92	28-92	28-91	28-90	28-90	29-074	29-26	0 a.m. ...	28-90	11-12 p.m. ...	13
28-91	28-91	28-91	28-91	28-90	28-90	28-87	28-84	28-80	28-904	28-94	9-11 a.m. ...	28-80	Midnight ...	14
28-54	28-55	28-54	28-55	28-57	28-58	28-58	28-56	28-55	28-585	28-80	0 a.m. ...	28-51	10-12 a.m. ...	15
28-65	28-66	28-72	28-77	28-83	28-87	28-88	28-89	28-89	28-642	28-89	11-12 p.m. ...	28-53	3-6 a.m. ...	16
28-79	28-79	28-79	28-78	28-78	28-78	28-79	28-79	28-80	28-817	28-89	0-1 a.m. ...	28-78	1 p.m., &c. ...	17
28-92	28-92	28-91	28-91	28-91	28-91	28-91	28-91	28-91	28-899	28-93	2-3 p.m. ...	28-80	0 a.m. ...	18
28-92	28-92	28-93	28-93	28-94	28-94	28-93	28-93	28-93	28-922	28-94	8-9 p.m. ...	28-91	0-6 a.m. ...	19
29-07	29-08	29-08	29-10	29-12	29-14	29-15	29-15	29-15	29-045	29-15	10-12 p.m. ...	28-93	0-1 a.m. ...	20
29-05	29-04	29-04	29-02	29-01	29-01	29-00	29-00	29-00	29-075	29-15	0 a.m. ...	29-00	10-12 p.m. ...	21
28-94	28-92	28-92	28-92	28-89	28-89	28-89	28-86	28-84	28-953	29-00	0 a.m., &c. ...	28-84	Midnight ...	22
28-72	28-70	28-65	28-63	28-62	28-61	28-61	28-59	28-59	28-738	28-84	0-5 a.m. ...	28-59	11-12 p.m. ...	23
28-47	28-43	28-33	28-32	28-30	28-29	28-27	28-25	28-24	28-520	28-73	9 a.m. ...	28-24	Midnight ...	24
28-22	28-24	28-29	28-35	28-37	28-52	28-57	28-64	28-68	28-236	28-68	Midnight ...	28-09	10 a.m.-1 p.m. ...	25
29-13	29-11	29-09	29-05	29-02	28-98	28-98	28-99	29-00	29-092	29-29	10-11 a.m. ...	28-68	0 a.m. ...	26
29-30	29-29	29-27	29-24	29-22	29-20	29-18	29-17	29-16	29-207	29-35	9 a.m. ...	29-00	0-2 a.m. ...	27
28-87	28-86	28-85	28-85	28-84	28-84	28-85	28-85	28-86	28-972	29-16	0-1 a.m. ...	28-84	8-9 p.m. ...	28
29-06	29-06	29-06	29-07	29-07	29-08	29-09	29-09	29-09	28-993	29-09	10-12 p.m. ...	28-86	0-1 a.m. ...	29
29-13	29-17	29-21	29-21	29-27	29-27	29-28	29-30	29-31	29-165	29-31	Midnight ...	29-09	0-3 a.m. ...	30
29-30	29-30	29-29	29-28	29-27	29-25	29-24	29-24	29-24	29-294	29-32	10 a.m. ...	29-24	10-12 p.m. ...	31
28-985	28-986	28-987	28-987	28-991	28-999	29-002	29-004	29-017	28-997	...	.....	...	.....	Mean.

Absolute Minimum = 28-09 from 10 a.m. to 1 p.m. on 25th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

"THE GROTTOS," QUEEN MARY LAND.

Table 1.—ATMOSPHERIC PRESSURE

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29-18	29-18	29-16	29-15	29-14	29-13	29-12	29-09	29-09	29-09	29-09	29-10	29-11	29-14	29-15
2	29-14	29-13	29-12	29-12	29-12	29-12	29-12	29-09	29-07	29-06	29-06	29-06	29-06	29-05	29-06
3	28-96	28-94	28-94	28-92	28-91	28-91	28-90	28-88	28-86	28-83	28-83	28-83	28-83	28-83	28-83
4	28-89	28-89	28-90	28-92	28-92	28-93	28-94	28-95	28-98	28-99	28-99	28-99	29-02	29-02	29-02
5	29-00	29-00	29-00	29-02	29-03	29-04	29-06	29-07	29-08	29-09	29-09	29-08	29-08	29-07	29-06
6	29-02	29-02	29-03	29-03	29-03	29-06	29-06	29-06	29-08	29-11	29-14	29-16	29-18	29-20	29-22
7	29-22	29-22	29-21	29-21	29-19	29-18	29-17	29-16	29-15	29-14	29-13	29-14	29-14	29-15	29-16
8	29-10	29-10	29-09	29-09	29-07	29-05	29-03	29-01	28-97	28-95	28-95	28-93	28-92	28-92	28-90
9	28-77	28-76	28-73	28-71	28-69	28-67	28-66	28-62	28-57	28-52	28-49	28-48	28-46	28-45	28-44
10	28-47	28-49	28-52	28-56	28-58	28-61	28-64	28-66	28-67	28-69	28-70	28-73	28-74	28-75	28-76
11	28-89	28-89	28-89	28-89	28-88	28-87	28-85	28-80	28-79	28-78	28-76	28-72	28-71	28-69	28-68
12	28-42	28-36	28-32	28-29	28-29	28-32	28-37	28-44	28-48	28-50	28-52	28-54	28-58	28-61	28-64
13	28-68	28-69	28-72	28-75	28-79	28-82	28-86	28-87	28-88	28-88	28-88	28-88	28-86	28-87	28-86
14	28-61	28-61	28-59	28-57	28-56	28-51	28-50	28-49	28-45	28-43	28-43	28-42	28-43	28-43	28-43
15	28-50	28-52	28-54	28-54	28-55	28-56	28-58	28-60	28-63	28-64	28-64	28-66	28-68	28-70	28-70
16	28-80	28-80	28-80	28-81	28-82	28-84	28-85	28-89	28-90	28-91	28-92	28-93	28-93	28-96	28-96
17	29-09	29-10	29-12	29-13	29-13	29-13	29-14	29-17	29-20	29-22	29-24	29-24	29-25	29-26	29-26
18	29-28	29-28	29-28	29-28	29-28	29-28	29-28	29-29	29-29	29-29	29-28	29-28	29-28	29-28	29-28
19	29-34	29-34	29-34	29-33	29-33	29-32	29-31	29-30	29-25	29-24	29-22	29-19	29-15	29-12	29-09
20	28-69	28-64	28-61	28-58	28-58	28-55	28-55	28-54	28-54	28-52	28-52	28-52	28-52	28-53	28-55
21	28-63	28-64	28-66	28-66	28-67	28-67	28-69	28-70	28-70	28-70	28-71	28-72	28-73	28-75	28-76
22	28-88	28-88	28-89	28-91	28-91	28-91	28-92	28-93	28-95	28-95	28-95	28-95	28-96	28-96	28-97
23	28-96	28-96	28-96	28-96	28-96	28-96	28-96	28-97	28-98	28-98	28-98	29-00	29-01	29-03	29-03
24	28-94	28-90	28-88	28-86	28-84	28-84	28-85	28-87	28-88	28-88	28-88	28-90	28-97	29-00	29-04
25	29-42	29-45	29-47	29-49	29-53	29-53	29-56	29-59	29-59	29-62	29-63	29-64	29-65	29-67	29-67
26	29-71	29-68	29-66	29-66	29-64	29-64	29-64	29-64	29-62	29-60	29-59	29-56	29-55	29-54	29-54
27	29-48	29-48	29-49	29-50	29-50	29-50	29-50	29-50	29-51	29-51	29-49	29-48	29-47	29-46	29-46
28	29-42	29-42	29-43	29-43	29-43	29-43	29-43	29-44	29-43	29-44	29-43	29-43	29-43	29-42	29-41
29	29-43	29-44	29-45	29-45	29-45	29-46	29-46	29-46	29-47	29-46	29-46	29-47	29-48	29-49	29-50
30	29-60	29-60	29-60	29-60	29-60	29-59	29-59	29-59	29-58	29-57	29-55	29-53	29-52	29-51	29-50
31	29-53	29-53	29-53	29-53	29-53	29-53	29-53	29-53	29-53	29-53	29-52	29-52	29-50	29-50	29-49
Mean.	29-034	29-030	29-030	29-031	29-031	29-031	29-036	29-039	29-038	29-036	29-035	29-035	29-039	29-044	29-040

Absolute Maximum = 29-72 from 9 to 12 p.m. on 25th.

METEOROLOGY.

HOURLY VALUES—continued.

AUGUST, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-16	29-17	29-19	29-19	29-18	29-18	29-16	29-15	29-15	29-146	29-19	6-7 p.m. ...	29-09	8-11 a.m. ...	1
29-06	29-06	29-06	29-04	29-02	29-02	29-02	28-96	28-96	29-070	29-15	0 a.m. ...	28-96	11-12 p.m. ...	2
28-82	28-84	28-85	28-86	28-86	28-86	28-88	28-89	28-89	28-875	28-96	0 a.m. ....	28-82	4 p.m. ...	3
29-02	29-02	29-01	29-00	29-00	29-00	29-01	29-01	29-00	28-974	29-02	1-5 p.m. ...	28-89	0-2 a.m. ...	4
29-05	29-05	29-04	29-03	29-02	29-01	29-02	29-02	29-01	29-042	29-09	10-11 a.m. ...	29-00	0-3 a.m. ...	5
29-23	29-24	29-24	29-24	29-24	29-24	29-24	29-23	29-22	29-142	29-24	5-10 p.m. ...	29-01	0-2 a.m. ...	6
29-15	29-14	29-14	29-13	29-12	29-10	29-10	29-10	29-10	29-155	29-22	0-2 a.m. ...	29-10	9-12 p.m. ...	7
28-88	28-88	28-88	28-87	28-85	28-83	28-81	28-80	28-77	28-951	29-10	0 a.m. ...	28-77	Midnight ...	8
28-44	28-47	28-49	28-46	28-46	28-45	28-45	28-45	28-45	28-554	28-77	0 a.m. ...	28-44	3-4 p.m. ...	9
28-77	28-78	28-78	28-80	28-82	28-84	28-86	28-89	28-89	28-699	28-89	11-12 p.m. ...	28-45	0 a.m. ...	10
28-67	28-66	28-63	28-60	28-58	28-54	28-52	28-50	28-48	28-786	28-89	0-4 a.m. ...	28-48	Midnight ...	11
28-65	28-63	28-64	28-64	28-63	28-63	28-64	28-65	28-67	28-491	28-67	Midnight ...	28-29	4-5 a.m. ...	12
28-85	28-82	28-79	28-75	28-72	28-69	28-67	28-64	28-61	28-653	28-88	9-12 a.m. ...	28-61	Midnight ...	13
28-44	28-45	28-45	28-46	28-47	28-50	28-50	28-50	28-50	28-930	28-61	0-2 a.m. ...	28-42	Noon ...	14
28-70	28-70	28-73	28-73	28-76	28-77	28-79	28-80	28-80	29-211	28-80	11-12 p.m. ...	28-50	0-1 a.m. ...	15
28-97	29-00	29-02	29-04	29-05	29-05	29-05	29-08	29-08	29-296	29-08	11-12 p.m. ...	28-80	0-3 a.m. ...	16
29-27	29-27	29-27	29-27	29-28	29-28	29-28	29-28	29-28	29-136	29-28	8-12 p.m. ...	29-08	0 a.m. ...	17
29-29	29-29	29-31	29-31	29-33	29-34	29-34	29-34	29-34	28-576	29-34	9-12 p.m. ...	29-28	0-7 a.m. ...	18
29-07	29-03	28-99	28-97	28-90	28-84	28-81	28-76	28-73	28-740	29-34	0-3 a.m. ...	28-73	Midnight ...	19
28-56	28-57	28-57	28-58	28-59	28-60	28-61	28-62	28-62	28-940	28-73	0 a.m. ...	28-52	10 a.m.-1 p.m.	20
28-78	28-80	28-81	28-84	28-83	28-85	28-85	28-86	28-87	29-001	28-87	Midnight ...	28-62	0 a.m. ...	21
28-97	28-98	28-97	28-96	28-96	28-96	28-96	28-96	28-96	29-035	28-98	5-50 p.m. ...	28-88	0 a.m. ...	22
29-05	29-06	29-05	29-06	29-06	29-06	29-02	29-00	28-95	29-579	29-06	5 p.m., &c. ...	28-95	Midnight ...	23
29-09	29-15	29-21	29-25	29-30	29-36	29-38	29-40	29-40	29-474	29-40	11-12 p.m. ...	28-84	5-6 a.m. ...	24
29-67	29-70	29-71	29-71	29-71	29-72	29-72	29-72	29-72	29-421	29-72	9-12 p.m. ...	29-40	0 a.m. ...	25
29-53	29-52	29-52	29-51	29-50	29-49	29-48	29-48	29-48	29-495	29-71	0-1 a.m. ...	29-48	9-12 p.m. ...	26
29-45	29-44	29-45	29-45	29-45	29-45	29-45	29-45	29-42	29-552	29-51	9-10 a.m. ...	29-42	Midnight ...	27
29-40	29-40	29-40	29-40	29-41	29-41	29-42	29-42	29-42	29-497	29-44	8 and 10 a.m.	29-41	3 p.m., &c.	28
29-51	29-51	29-52	29-55	29-57	29-59	29-60	29-60	29-60	29-614	29-60	10-12 p.m. ...	29-42	0 a.m. ...	29
29-50	29-50	29-52	29-52	29-52	29-52	29-53	29-53	29-53	28-728	29-60	0-5 a.m. ...	29-50	3-4 p.m. ...	30
29-47	29-47	29-46	29-46	29-45	29-45	29-43	29-43	29-43	28-515	29-53	0-10 a.m. ...	29-43	10-12 p.m. ...	31
29-047	29-052	29-055	29-054	29-053	29-053	29-052	29-049	29-043	29-041	...	.....	...	.....	Mean.

Absolute Minimum = 28-29 from 4 p.m. to 5 p.m. on 12th.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29.43	29.43	29.43	29.44	29.44	29.44	29.44	29.44	29.45	29.45	29.46	29.46	29.46	29.46	29.46
2	29.55	29.55	29.52	29.52	29.50	29.47	29.44	29.38	29.37	29.38	29.39	29.40	29.39	29.37	29.37
3	29.69	29.73	29.79	29.82	29.85	29.88	29.90	29.92	29.93	29.93	29.97	29.97	29.97	29.97	29.96
4	29.91	29.92	29.92	29.92	29.92	29.92	29.93	29.94	29.94	29.94	29.93	29.92	29.91	29.90	29.89
5	29.70	29.67	29.64	29.59	29.59	29.53	29.48	29.46	29.44	29.42	29.39	29.36	29.32	29.32	29.32
6	29.26	29.26	29.26	29.24	29.21	29.19	29.16	29.16	29.16	29.14	29.14	29.13	29.13	29.13	29.13
7	29.26	29.27	29.28	29.28	29.28	29.30	29.32	29.34	29.34	29.34	29.35	29.36	29.36	29.36	29.34
8	29.33	29.35	29.36	29.38	29.40	29.43	29.46	29.46	29.47	29.50	29.53	29.54	29.55	29.56	29.56
9	29.59	29.59	29.59	29.60	29.60	29.60	29.61	29.61	29.61	29.62	29.62	29.62	29.62	29.62	29.62
10	29.64	29.64	29.64	29.63	29.63	29.63	29.61	29.61	29.60	29.60	29.60	29.58	29.56	29.56	29.56
11	29.45	29.43	29.40	29.38	29.35	29.29	29.29	29.27	29.24	29.23	29.22	29.22	29.16	29.11	29.10
12	29.02	29.02	29.01	29.01	29.01	29.01	29.01	29.01	29.00	29.00	29.00	28.99	28.99	28.99	28.99
13	29.06	29.06	29.07	29.07	29.10	29.11	29.11	29.12	29.14	29.14	29.14	29.14	29.15	29.15	29.15
14	29.31	29.31	29.31	29.31	29.34	29.34	29.36	29.38	29.39	29.40	29.42	29.44	29.44	29.44	29.44
15	29.48	29.48	29.48	29.48	29.51	29.51	29.51	29.51	29.54	29.54	29.54	29.52	29.50	29.50	29.49
16	29.39	29.38	29.35	29.35	29.32	29.30	29.28	29.23	29.22	29.22	29.19	29.19	29.19	29.19	29.19
17	29.15	29.15	29.15	29.15	29.15	29.15	29.15	29.15	29.14	29.14	29.14	29.14	29.14	29.12	29.10
18	29.09	29.09	29.09	29.09	29.09	29.09	29.09	29.10	29.10	29.10	29.10	29.10	29.10	29.08	29.08
19	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.07	29.06	29.06	29.06	29.06	29.07
20	29.04	29.04	29.04	29.04	29.04	29.04	29.05	29.05	29.06	29.07	29.08	29.07	29.07	29.08	29.08
21	29.10	29.10	29.10	29.10	29.09	29.07	29.04	29.02	29.00	28.98	28.96	28.95	28.93	28.93	28.93
22	28.95	28.95	28.95	28.98	28.98	28.98	28.99	29.04	29.04	29.05	29.05	29.05	29.06	29.06	29.07
23	29.14	29.14	29.15	29.18	29.20	29.22	29.22	29.24	29.24	29.24	29.24	29.24	29.21	29.18	29.18
24	29.15	29.15	29.15	29.09	29.05	28.96	28.93	28.85	28.76	28.69	28.63	28.56	28.56	28.56	28.55
25	28.73	28.77	28.80	28.84	28.86	28.88	28.88	28.90	28.96	28.96	28.97	28.97	29.02	29.05	29.06
26	29.20	29.20	29.20	29.21	29.21	29.21	29.23	29.27	29.27	29.27	29.28	29.28	29.27	29.27	29.26
27	29.25	29.25	29.25	29.25	29.25	29.26	29.26	29.28	29.31	29.31	29.31	29.31	29.31	29.30	29.30
28	29.30	29.30	29.30	29.30	29.31	29.31	29.31	29.37	29.37	29.38	29.38	29.38	29.38	29.38	29.38
*29	29.37	29.37	29.37	29.37	29.37	29.37	29.37	29.38	29.38	29.38	29.38	29.38	29.38	29.38	29.38
30	29.32	29.31	29.31	29.31	29.31	29.30	29.30	29.30	29.30	29.30	29.28	29.28	29.28	29.27	29.26
Mean.	29.298	29.300	29.300	29.300	29.301	29.296	29.294	29.296	29.295	29.293	29.292	29.287	29.282	29.278	29.276

Absolute Maximum = 29.97 from 11 a.m. to 2 p.m. on 2nd.

\* During the absence of the Recorder on a sledge-journey, from 3 p.m. September 29th to 5 a.m. October 6th inclusive, the values were taken from the barograph curve.

HOURLY VALUES—continued.

SEPTEMBER, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-47	29-49	29-50	29-52	29-54	29-55	29-55	29-55	29-55	29-473	29-55	8 p.m.-midn't	29-43	0 a.m.-3 a.m.	1
29-39	29-43	29-45	29-47	29-51	29-54	29-56	29-61	29-64	29-465	29-64	Midnight ...	29-37	9 a.m. & 2-3 p.m.	2
29-96	29-94	29-94	29-92	29-92	29-92	29-91	29-91	29-91	29-894	29-97	11 a.m.-2 p.m.	29-64	0 a.m. ...	3
29-88	29-87	29-86	29-85	29-83	29-80	29-78	29-75	29-72	29-885	29-94	8 a.m.-10 a.m.	27-72	Midnight ...	4
29-31	29-27	29-26	29-26	29-26	29-26	29-26	29-26	29-26	29-411	29-72	0 a.m. ...	29-26	6 p.m.-midn't	5
29-14	29-14	29-15	29-17	29-18	29-21	29-22	29-22	29-25	29-183	29-26	0 a.m.-3 a.m.	29-13	Noon-3 p.m.	6
29-34	29-34	29-34	29-34	29-34	29-33	29-33	29-33	29-33	29-323	29-36	Noon-2 p.m.	29-25	0 a.m. ...	7
29-57	29-57	29-57	29-58	29-58	29-58	29-58	29-58	29-58	29-498	29-58	7 p.m.-midn't	29-33	0 a.m.-1 a.m.	8
29-62	29-62	29-62	29-62	29-62	29-62	29-63	29-64	29-64	29-613	29-64	11 p.m.-mid't	29-58	0 a.m. ...	9
29-56	29-56	29-55	29-54	29-53	29-52	29-51	29-50	29-47	29-580	29-64	0 a.m.-3 a.m.	29-47	Midnight ...	10
29-09	29-08	29-07	29-06	29-06	29-05	29-03	29-03	29-02	29-203	29-47	0 a.m. ...	29-02	Midnight ...	11
29-00	29-00	29-03	29-03	29-03	29-06	29-06	29-06	29-06	29-015	29-06	9 p.m.-midn't	28-99	Noon-3 p.m.	12
29-18	29-26	29-27	29-27	29-27	29-31	29-31	29-31	29-31	29-170	29-31	9 p.m.-midn't	29-06	0 a.m.-2 a.m.	13
29-45	29-46	29-46	29-46	29-46	29-46	29-46	29-46	29-46	29-404	29-46	5 p.m.-midn't	29-31	0 a.m.-4 a.m.	14
29-48	29-48	29-46	29-46	29-44	29-43	29-42	29-41	29-41	29-483	29-54	9-11 a.m. ...	29-41	11 p.m.-mid't	15
29-19	29-19	29-15	29-15	29-15	29-15	29-15	29-15	29-15	29-231	29-41	0 a.m. ...	29-15	6 p.m.-midn't	16
29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-09	29-127	29-15	0 a.m.-8 a.m.	29-09	Midnight ...	17
29-08	29-08	29-08	29-08	29-08	29-08	29-08	29-08	29-08	29-088	29-10	9 a.m.-1 p.m.	29-08	2 p.m.-midn't	18
29-07	29-07	29-06	29-06	29-06	29-04	29-04	29-04	29-04	29-067	29-08	0 a.m.-9 a.m.	29-04	9 p.m.-midn't	19
29-09	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-071	29-10	5 p.m.-midn't	29-04	0 a.m.-6 a.m.	20
28-93	28-93	28-93	28-93	28-93	28-93	28-93	28-93	28-95	28-990	29-10	0 a.m.-4 a.m.	28-93	1 p.m.-11 p.m.	21
29-09	29-09	29-09	29-10	29-11	29-11	29-12	29-12	29-13	29-045	29-13	Midnight ...	28-95	0 a.m.-3 a.m.	22
29-17	29-16	29-16	29-16	29-16	29-15	29-15	29-15	29-15	29-184	29-24	8 a.m.-noon...	29-13	0 a.m. ...	23
28-51	28-51	28-51	28-53	28-57	28-58	28-58	28-64	28-69	28-750	29-15	0 a.m.-3 a.m.	28-51	3 p.m.-6 p.m.	24
29-09	29-11	29-11	29-13	29-17	29-20	29-20	29-20	29-20	28-992	29-20	9 p.m.-midn't	28-69	0 a.m. ...	25
29-26	29-26	29-26	29-26	29-25	29-25	29-25	29-25	29-25	29-245	29-28	11 a.m.-noon	29-20	0 a.m.-3 a.m.	26
29-30	29-30	29-30	29-31	29-31	29-31	29-31	29-31	29-30	29-288	29-31	9 a.m.-1 p.m., 8-11 p.m.	29-25	0 a.m.-5 a.m.	27
29-39	29-39	29-39	29-39	29-37	29-37	29-37	29-37	29-37	29-355	29-39	4 p.m.-7 p.m.	29-30	0 a.m.-4 a.m.	28
29-38	29-38	29-37	29-36	29-35	29-35	29-35	29-34	29-32	29-369	29-38	8 a.m.-5 p.m.	29-32	Midnight ...	29
29-25	29-21	29-21	29-21	29-21	29-19	29-19	29-18	29-17	29-264	29-32	0 a.m.-1 a.m.	29-17	Midnight ...	30
29-278	29-280	29-278	29-281	29-283	29-285	29-284	29-286	29-287	29-290	...	.....	...	.....	Mean.

Absolute Minimum = 28-51 from 3 p.m. to 6 p.m. on 24th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29.15	29.14	29.12	29.10	29.08	29.08	29.07	29.07	29.07	29.06	29.05	29.03	29.03	29.02	29.02
2	29.00	29.00	29.02	29.02	29.03	29.03	29.05	29.06	29.07	29.09	29.09	29.10	29.12	29.13	29.14
3	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.20	29.20	29.19	29.17	29.15
4	29.08	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.06	29.05	29.05
5	29.05	29.05	29.05	29.05	29.05	29.05	29.05	29.06	29.06	29.07	29.07	29.07	29.08	29.09	29.09
6	29.08	29.07	29.06	29.05	29.05	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	28.92	28.91	28.90	28.90	28.89	28.89
10	28.83	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.85	28.85	28.85	28.85	28.85	28.84	28.84
11	28.91	28.91	28.91	28.94	28.95	28.95	28.97	28.99	29.01	29.01	29.00	29.00	28.99	28.99	28.98
12	28.80	28.76	28.72	28.68	28.68	28.64	28.64	28.65	28.66	28.66	28.66	28.65	28.64	28.63	28.62
13	28.88	28.91	28.95	28.99	29.03	29.09	29.11	29.15	29.19	29.19	29.19	29.18	29.16	29.13	29.10
14	28.88	28.88	28.85	28.81	28.80	28.78	28.79	28.83	28.87	28.91	28.94	28.97	29.02	29.07	29.09
15	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.17	29.15	29.13	29.12	29.11	29.09	29.08	29.07
16	28.93	28.93	28.92	28.92	28.93	28.93	28.93	28.91	28.93	28.92	28.91	28.87	28.85	28.84	28.83
17	28.72	28.72	28.72	28.75	28.77	28.80	28.81	28.82	28.83	28.83	28.83	28.84	28.82	28.83	28.82
18	28.87	28.87	28.88	28.88	28.88	28.88	28.90	28.90	28.90	28.89	28.89	28.89	28.89	28.89	28.90
19	28.96	28.96	28.97	28.97	28.98	28.98	29.00	29.00	29.01	29.00	29.00	28.98	28.98	28.97	28.96
20	28.83	28.81	28.79	28.77	28.74	28.72	28.70	28.66	28.64	28.62	28.60	28.57	28.54	28.53	28.52
21	28.53	28.54	28.54	28.55	28.57	28.57	28.58	28.61	28.62	28.62	28.62	28.62	28.62	28.62	28.64
22	28.72	28.72	28.72	28.74	28.77	28.78	28.80	28.80	28.80	28.80	28.82	28.83	28.84	28.84	28.85
23	28.92	28.92	28.92	28.92	28.92	28.92	28.94	28.94	28.96	28.96	29.01	29.02	29.03	29.03	29.03
24	28.80	28.79	28.79	28.77	28.76	28.74	28.74	28.73	28.72	28.70	28.69	28.68	28.67	28.66	28.66
25	28.76	28.76	28.76	28.78	28.80	28.83	28.86	28.88	28.90	28.93	28.95	28.96	28.96	28.99	29.00
26	29.11	29.12	29.11	29.10	29.10	29.09	29.09	29.08	29.07	29.03	29.03	29.02	29.02	29.01	29.00
27	28.94	28.93	28.93	28.93	28.93	28.93	28.93	28.93	28.94	28.94	28.94	28.94	28.94	28.94	28.94
28	28.89	28.87	28.85	28.83	28.83	28.83	28.80	28.78	28.75	28.77	28.80	28.79	28.81	28.83	28.86
29	28.81	28.81	28.80	28.80	28.79	28.79	28.79	28.79	28.78	28.77	28.75	28.71	28.67	28.63	28.59
30	28.51	28.53	28.54	28.56	28.57	28.58	28.60	28.60	28.61	28.61	28.61	28.61	28.61	28.61	28.60
31	28.62	28.63	28.64	28.64	28.65	28.66	28.66	28.67	28.68	28.69	28.70	28.72	28.73	28.73	28.74
Mean.	28.885	28.884	28.882	28.882	28.886	28.887	28.893	28.896	28.902	28.901	28.903	28.899	28.897	28.894	28.892

Absolute Maximum = 29.21 from midnight on 2nd to 10 a.m. on 3rd.

The record between October 1st to 6th has been obtained from the barograph curve, as Recorder was absent on a sledge-journey. No data from October 7th to 9th.



METEOROLOGY.

—HOURLY VALUES—*continued.*

OCTOBER, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-01	29-01	29-01	29-01	29-00	29-00	29-00	29-00	29-00	29-050	29-15	1 a.m. ...	29-00	8-12 p.m. ...	1
29-15	29-15	29-17	29-17	29-19	29-19	29-19	29-19	29-21	29-102	29-21	Midnight ...	29-00	0-2 a.m. ...	2
29-13	29-13	29-13	29-13	29-11	29-11	29-10	29-10	29-08	29-171	29-21	0-10 a.m. ...	29-08	Midnight ...	3
29-05	29-05	29-05	29-05	29-05	29-05	29-05	29-05	29-05	29-061	29-08	0-1 a.m. ...	29-05	2-12 p.m. ...	4
29-09	29-09	29-09	29-09	29-09	29-08	29-08	29-08	29-08	29-071	29-09	2-8 p.m. ...	29-05	0-7 a.m. ...	5
...	...	...	...	...	...	...	...	...	...	...	.....	...	.....	6
...	...	...	...	...	...	...	...	...	...	...	.....	...	.....	7
...	...	...	...	...	...	...	...	...	...	...	.....	...	.....	8
28-89	28-86	28-85	28-85	28-84	28-83	28-83	28-83	28-83	...	...	.....	...	.....	9
28-85	28-86	28-86	28-86	28-88	28-89	28-89	28-91	28-91	28-855	28-91	11-12 p.m. ...	28-83	0-1 a.m. ...	10
28-96	28-96	28-96	28-96	28-95	28-94	28-91	28-89	28-83	28-955	29-01	9-10 a.m. ...	28-83	Midnight ...	11
28-62	28-64	28-64	28-69	28-74	28-80	28-82	28-84	28-87	28-697	28-87	Midnight ...	28-62	3-4 p.m. ...	12
29-07	29-04	29-01	28-99	28-97	28-93	28-91	28-89	28-89	29-039	29-19	9-11 a.m. ...	28-87	0 a.m. ...	13
29-09	29-13	29-15	29-16	29-18	29-19	29-19	29-19	29-19	28-992	29-19	9-12 p.m. ...	28-78	6 a.m. ...	14
29-05	29-03	29-01	28-97	28-95	28-93	28-93	28-93	28-93	29-088	29-19	0-7 a.m. ...	28-93	9-12 p.m. ...	15
28-79	28-78	28-76	28-75	28-74	28-74	28-73	28-72	28-72	28-849	28-93	0-2 a.m., &c.	28-72	11-12 p.m. ...	16
28-83	28-84	28-85	28-85	28-85	28-85	28-86	28-86	28-86	28-812	28-86	10-12 p.m. ...	28-72	0-3 a.m. ...	17
28-91	28-92	28-92	28-92	28-92	28-92	28-93	28-94	28-96	28-900	28-96	Midnight ...	28-86	0-0 a.m. ...	18
28-95	28-93	28-92	28-90	28-90	28-88	28-87	28-87	28-85	28-952	29-01	9 a.m. ...	28-85	11-55 p.m. ...	19
28-52	28-52	28-53	28-54	28-53	28-52	28-52	28-52	28-52	28-622	28-85	0-0 a.m. ...	28-52	3-5 p.m., &c.	20
28-64	28-65	28-66	28-66	28-68	28-69	28-70	28-70	28-71	28-619	28-71	Midnight ...	28-52	0 a.m. ...	21
28-87	28-88	28-89	28-90	28-90	28-90	28-90	28-90	28-90	28-824	28-90	7-12 p.m. ...	28-71	0 a.m. ...	22
29-02	29-01	28-97	28-94	28-90	28-88	28-88	28-84	28-83	28-948	29-03	1-3 p.m. ...	28-83	Midnight ...	23
28-67	28-69	28-71	28-73	28-74	28-75	28-76	28-76	28-76	28-729	28-83	0-0 a.m. ...	28-66	2-3 p.m. ...	24
29-01	29-04	29-06	29-07	29-07	29-10	29-10	29-11	29-11	28-942	29-11	11-12 p.m. ...	28-76	0-3 p.m. ...	25
28-99	28-98	28-98	28-97	28-96	28-95	28-95	28-95	28-94	29-030	29-12	1-50 a.m. ...	28-94	11-55 p.m. ...	26
28-94	28-94	28-94	28-92	28-92	28-91	28-89	28-89	28-89	28-929	28-94	0 a.m., &c. ...	28-89	10-12 p.m. ...	27
28-87	28-86	28-85	28-84	28-83	28-82	28-82	28-81	28-81	28-827	28-89	0-1 a.m. ...	28-75	9-10 a.m. ...	28
28-57	28-55	28-54	28-53	28-53	28-52	28-52	28-51	28-51	28-675	28-81	0-2 a.m. ...	28-51	11-12 p.m. ...	29
28-61	28-61	28-61	28-60	28-60	28-60	28-60	28-60	28-61	28-589	28-61	9 a.m., &c. ...	28-51	0-1 a.m. ...	30
28-73	28-75	28-76	28-76	28-77	28-77	28-77	28-77	28-77	28-705	28-77	8-12 p.m. ...	28-61	0 a.m. ...	31
28-889	28-890	28-890	28-887	28-887	28-886	28-884	28-882	28-881	28-890	...	.....	...	.....	Mean.

Absolute Minimum = 28-51 from 11-12 p.m. on 29th to 1 a.m. on 30th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	28.77	28.77	28.78	28.78	28.79	28.78	28.78	28.77	28.79	28.78	28.76	28.76	28.74	28.73	28.74
2	28.75	28.77	28.79	28.83	28.82	28.82	28.83	28.84	28.85	28.86	28.87	28.88	28.89	28.90	28.90
3	29.08	29.09	29.09	29.09	29.09	29.10	29.10	29.10	29.10	29.09	29.08	29.08	29.06	29.04	29.02
4	28.80	28.81	28.81	28.82	28.82	28.83	28.83	28.83	28.84	28.84	28.83	28.84	28.83	28.83	28.84
5	29.13	29.16	29.19	29.23	29.26	29.28	29.31	29.34	29.37	29.38	29.39	29.41	29.40	29.38	29.38
6	29.46	29.45	29.44	29.43	29.43	29.43	29.42	29.41	29.33	29.30	29.28	29.26	29.22	29.20	29.20
7	29.07	29.07	29.04	29.05	29.04	29.03	29.02	29.02	29.01	29.01	29.01	29.03	29.03	29.04	29.05
8	29.32	29.35	29.38	29.39	29.42	29.45	29.48	29.50	29.54	29.54	29.53	29.52	29.53	29.54	29.54
9	29.49	29.49	29.49	29.49	29.49	29.49	29.50	29.49	29.48	29.47	29.46	29.46	29.46	29.46	29.46
10	29.40	29.40	29.40	29.39	29.38	29.37	29.36	29.35	29.34	29.32	29.31	29.31	29.28	29.28	29.28
11	29.24	29.23	29.23	29.23	29.23	29.23	29.23	29.22	29.16	29.15	29.14	29.14	29.11	29.09	29.08
12	29.13	29.14	29.15	29.15	29.16	29.17	29.17	29.17	29.17	29.20	29.20	29.21	29.21	29.21	29.21
13	29.20	29.19	29.19	29.18	29.18	29.17	29.16	29.13	29.12	29.12	29.12	29.12	29.09	29.09	29.08
14	29.06	29.06	29.06	29.06	29.06	29.06	29.05	29.05	29.04	29.04	29.04	29.03	29.01	29.00	28.99
15	28.99	28.99	28.99	28.99	28.99	28.99	29.00	29.00	29.00	29.00	29.00	29.00	28.99	28.98	28.98
16	28.93	28.92	28.92	28.90	28.89	28.87	28.87	28.84	28.82	28.81	28.80	28.79	28.78	28.77	28.76
17	28.73	28.74	28.75	28.75	28.76	28.77	28.77	28.77	28.77	28.77	28.77	28.77	28.78	28.77	28.77
18	28.85	28.86	28.87	28.88	28.89	28.90	28.91	28.94	28.94	28.94	28.95	28.96	28.96	28.96	28.98
19	29.07	29.08	29.08	29.09	29.09	29.10	29.12	29.14	29.16	29.17	29.20	29.22	29.24	29.26	29.28
20	29.21	29.21	29.21	29.20	29.20	29.20	29.20	29.19	29.19	29.18	29.17	29.18	29.18	29.18	29.17
21	29.19	29.18	29.17	29.15	29.13	29.12	29.10	29.08	29.07	29.06	29.05	29.05	29.05	29.05	29.05
22	28.80	28.80	28.82	28.82	28.83	28.84	28.85	28.85	28.85	28.85	28.88	28.90	28.91	28.92	28.94
23	29.12	29.14	29.17	29.20	29.23	29.26	29.29	29.31	29.34	29.36	29.38	29.40	29.42	29.44	29.45
24	29.46	29.45	29.44	29.43	29.42	29.41	29.40	29.40	29.35	29.34	29.32	29.31	29.29	29.27	29.27
25	29.23	29.23	29.23	29.23	29.23	29.24	29.24	29.27	29.30	29.30	29.30	29.30	29.30	29.30	29.30
26	29.35	29.35	29.35	29.36	29.36	29.36	29.36	29.37	29.38	29.39	29.39	29.39	29.39	29.39	29.39
27	29.44	29.44	29.45	29.46	29.46	29.46	29.46	29.45	29.45	29.43	29.41	29.38	29.33	29.31	29.29
28	28.96	28.95	28.93	28.93	28.91	28.90	28.89	28.89	28.94	28.95	28.96	28.97	28.98	29.00	29.01
29	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.11	29.12	29.13	29.14	29.14	29.14	29.15
30	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.14	29.16	29.16	29.17	29.17	29.18
Mean.	29.116	29.119	29.122	29.125	29.127	29.129	29.131	29.132	29.132	29.130	29.130	29.132	29.126	29.123	29.125

Absolute Maximum = 29.54 at 9 and 10 a.m., also 2 to 4 p.m. on 8th.

—HOURLY VALUES—*continued.*

NOVEMBER, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
28-74	28-73	28-72	28-71	28-70	28-71	28-71	28-72	28-73	28-750	28-79	5 a.m., 9 a.m.	28-70	8 p.m. ...	1
28-93	28-95	28-98	29-00	29-03	29-06	29-06	29-06	29-07	28-899	29-07	Midnight ...	28-73	0 a.m. ...	2
28-98	28-95	28-92	28-89	28-86	28-83	28-82	28-81	28-80	29-008	29-10	6-9 a.m. ...	28-80	Midnight ...	3
28-86	28-88	28-91	28-94	28-97	29-01	29-05	29-07	29-10	28-877	29-10	Midnight ...	28-80	0 a.m. ...	4
29-39	29-43	29-45	29-46	29-47	29-49	29-48	29-47	29-47	29-356	29-49	9 p.m. ...	29-10	0 a.m. ...	5
29-16	29-15	29-12	29-10	29-09	29-09	29-07	29-07	29-07	29-266	29-47	0 a.m. ...	29-07	10-12 p.m. ...	6
29-07	29-12	29-14	29-17	29-20	29-23	29-24	29-27	29-30	29-089	29-30	Midnight ...	29-01	9-11 a.m. ...	7
29-54	29-53	29-52	29-52	29-50	29-49	29-49	29-49	29-49	29-480	29-54	9-10 a.m., &c.	29-30	0 a.m. ...	8
29-46	29-45	29-44	29-43	29-43	29-42	29-42	29-41	29-41	29-462	29-50	7-0 a.m. ...	29-41	11-12 p.m. ...	9
29-27	29-27	29-27	29-27	29-28	29-28	29-27	29-26	29-25	29-320	29-40	1-2 a.m. ...	29-25	Midnight ...	10
29-08	29-09	29-10	29-10	29-11	29-12	29-12	29-12	29-12	29-155	29-24	0 a.m. ...	29-08	3-4 p.m. ...	11
29-21	29-21	29-21	29-21	29-21	29-22	29-22	29-21	29-20	29-188	29-22	9-10 p.m. ...	29-12	0 a.m. ...	12
29-07	29-07	29-07	29-07	29-07	29-07	29-07	29-07	29-07	29-118	29-20	0-1 a.m. ...	29-07	4-12 p.m. ...	13
28-99	28-99	28-99	28-99	28-99	28-99	28-99	28-99	28-99	29-023	29-06	1-6 a.m. ...	28-99	3-12 p.m. ...	14
28-98	28-97	28-97	28-97	28-96	28-96	28-96	28-95	28-95	28-983	29-00	7 a.m.-noon...	28-95	11-12 p.m. ...	15
28-74	28-73	28-73	28-73	28-72	28-72	28-72	28-72	28-72	28-805	28-95	0 a.m. ...	28-72	8-12 p.m. ...	16
28-77	28-77	28-77	28-79	28-80	28-82	28-82	28-82	28-83	28-774	28-83	Midnight ...	28-72	0 a.m. ...	17
28-99	29-00	29-01	29-02	29-03	29-04	29-04	29-05	29-05	28-955	29-05	11-12 p.m. ...	28-83	0 a.m. ...	18
29-28	29-27	29-26	29-25	29-24	29-23	29-22	29-21	29-21	29-183	29-28	3-4 p.m. ...	29-05	0 a.m. ...	19
29-16	29-17	29-19	29-20	29-21	29-22	29-22	29-21	29-21	29-194	29-22	9-10 p.m. ...	29-16	4 p.m. ...	20
29-05	29-01	28-98	28-94	28-90	28-87	28-84	28-82	28-81	29-038	29-21	0 a.m. ...	28-81	Midnight ...	21
28-95	28-97	28-98	28-99	29-01	29-04	29-04	29-06	29-08	28-910	29-08	Midnight ...	28-80	1-2 a.m. ...	22
29-46	29-46	29-46	29-46	29-46	29-49	29-48	29-47	29-47	29-355	29-49	9 p.m. ...	29-08	0 a.m. ...	23
29-27	29-26	29-23	29-22	29-22	29-21	29-21	29-22	29-23	29-323	29-47	0 a.m. ...	29-21	9-10 p.m. ...	24
29-31	29-31	29-32	29-33	29-34	29-34	29-35	29-35	29-35	29-289	29-35	10-12 p.m. ...	29-23	0-5 a.m. ...	25
29-39	29-39	29-40	29-40	29-40	29-41	29-42	29-42	29-42	29-383	29-42	10-12 p.m. ...	29-35	0-3 a.m. ...	26
29-25	29-21	29-16	29-13	29-09	29-04	29-03	28-99	28-97	29-305	29-46	4-7 a.m. ...	28-97	Midnight ...	27
29-02	29-03	29-04	29-05	29-07	29-08	29-10	29-10	29-10	28-987	29-10	10-12 p.m. ...	28-89	7-8 a.m. ...	28
29-15	29-16	29-16	29-17	29-18	29-18	29-16	29-15	29-15	29-132	29-18	8-9 p.m. ...	29-10	0-8 a.m. ...	29
29-18	29-18	29-18	29-18	29-19	29-19	29-19	29-19	29-19	29-162	29-19	8-12 p.m. ...	29-14	1-10 a.m. ...	30
29-123	29-124	29-123	29-123	29-124	29-128	29-127	29-125	29-127	29-126	...	.....	...	.....	Mean.

Absolute Minimum = 28-70 at 8 p.m. on 1st.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.17	29.18	29.18	29.18	29.18	29.18	29.19
2	29.25	29.25	29.27	29.29	29.31	29.32	29.32	29.36	29.40	29.40	29.44	29.43	29.43	29.45	29.45
3	29.52	29.51	29.51	29.51	29.51	29.51	29.51	29.51	29.51	29.50	29.50	29.48	29.48	29.48	29.48
4	29.41	29.40	29.39	29.38	29.38	29.36	29.33	29.31	29.29	29.29	29.29	29.28	29.27	29.25	29.25
5	29.29	29.29	29.29	29.29	29.30	29.30	29.31	29.32	29.33	29.33	29.33	29.33	29.33	29.33	29.33
6	29.39	29.39	29.39	29.39	29.39	29.37	29.37	29.37	29.37	29.37	29.37	29.38	29.38	29.37	29.37
7	29.35	29.35	29.35	29.35	29.33	29.33	29.33	29.33	29.30	29.30	29.29	29.29	29.29	29.29	29.29
*8	29.29	29.28	29.28	29.28	29.28	29.28	29.28	29.28	29.28	29.28	29.28	29.28	29.29	29.29	29.30
9	29.28	29.28	29.27	29.26	29.26	29.25	29.24	29.24	29.24	29.24	29.24	29.24	29.24	29.23	29.23
10	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.26	29.26	29.26	29.27	29.29	29.29	29.29
11	29.27	29.27	29.27	29.26	29.26	29.26	29.26	29.27	29.28	29.29	29.29	29.29	29.28	29.27	29.27
12	29.22	29.22	29.22	29.21	29.21	29.21	29.20	29.20	29.19	29.16	29.15	29.14	29.14	29.13	29.13
13	29.10	29.10	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11	29.11
14	29.13	29.13	29.13	29.13	29.13	29.13	29.13	29.12	29.11	29.11	29.11	29.11	29.10	29.10	29.10
15	29.08	29.08	29.08	29.08	29.08	29.07	29.07	29.07	29.04	29.04	29.04	29.04	29.03	29.03	29.03
16	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.01	29.02	29.02	29.03	29.04	29.05	29.05	29.05
17	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.07	29.08	29.08	29.08	29.08	29.08	29.07	29.07
18	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.06	29.05	29.04	29.04	29.02	29.02
19	29.02	29.03	29.05	29.05	29.06	29.06	29.08	29.08	29.08	29.08	29.08	29.08	29.08	29.09	29.09
20	29.13	29.14	29.15	29.16	29.17	29.17	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18	29.18
21	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.16	29.13	29.13	29.13	29.11	29.10	29.09	29.07
22	28.97	28.97	28.95	28.94	28.93	28.93	28.90	28.88	28.86	28.85	28.84	28.84	28.83	28.82	28.82
23	28.84	28.84	28.85	28.86	28.87	28.87	28.88	28.89	28.91	28.93	28.97	29.00	29.02	29.02	29.03
24	29.03	29.03	29.03	29.03	29.03	29.03	29.03	29.03	28.99	28.99	28.97	28.96	28.96	28.95	28.94
25	28.94	28.95	28.96	28.98	29.00	29.01	29.03	29.05	29.08	29.08	29.08	29.10	29.11	29.11	29.12
26	29.04	29.00	28.97	28.96	28.93	28.89	28.86	28.84	28.83	28.79	28.76	28.75	28.75	28.74	28.74
27	28.78	28.78	28.80	28.81	28.82	28.82	28.82	28.82	28.82	28.81	28.81	28.81	28.81	28.80	28.79
28	28.80	28.81	28.82	28.83	28.84	28.84	28.84	28.84	28.87	28.89	28.89	28.89	28.90	28.91	28.90
29	28.81	28.83	28.84	28.85	28.87	28.87	28.90	28.95	28.95	28.96	29.01	29.03	29.03	29.05	29.05
30	29.00	28.98	28.98	28.97	28.97	28.95	28.94	28.90	28.88	28.87	28.86	28.85	28.84	28.82	28.80
31	28.76	28.77	28.79	28.81	28.84	28.86	28.88	28.90	28.93	28.94	28.96	28.96	28.98	29.02	29.03
Mean.	29.110	29.109	29.112	29.113	29.116	29.113	29.113	29.115	29.115	29.114	29.115	29.115	29.116	29.114	29.114

Absolute Maximum = 29.52 from 10 p.m. 2nd until 1 a.m. on 3rd.

\* From December 8th at 3 p.m. to the 16th at 6 p.m., inclusive, values taken from the corrected barograph curve.

METEOROLOGY.

—HOURLY VALUES—*continued.*

DECEMBER, 1912.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-20	29-21	29-21	29-21	29-23	29-25	29-25	29-25	29-25	29-190	29-25	9 p.m.-midn't	29-16	1-5 a.m. ...	1
29-45	29-46	29-46	29-48	29-49	29-51	29-52	29-52	29-52	29-402	29-52	10 p.m.-midn't	29-25	0-2 a.m. ...	2
29-48	29-47	29-47	29-46	29-46	29-45	29-45	29-45	29-45	29-488	29-52	0-1 a.m. ...	29-45	9 p.m.-midn't	3
29-25	29-25	29-25	29-25	29-28	29-28	29-29	29-29	29-29	29-308	29-45	0 a.m. ...	29-25	2-7 p.m. ...	4
29-33	29-35	29-35	29-35	29-35	29-37	29-39	29-39	29-39	29-330	29-39	10 p.m.-midn't	29-29	0-4 a.m. ...	5
29-34	29-34	29-35	29-35	29-35	29-35	29-35	29-35	29-35	29-368	29-39	0-5 a.m. ...	29-34	4-5 p.m. ...	6
29-29	29-29	29-29	29-29	29-29	29-29	29-29	29-29	29-29	29-309	29-35	0-4 a.m. ...	29-29	11 a.m.-midn't	7
29-30	29-30	29-31	29-31	29-31	29-31	29-30	29-29	29-28	29-290	29-31	6-9 p.m. ...	29-28	2 a.m.-noon and midnight.	8
29-23	29-23	29-23	29-24	29-24	29-24	29-24	29-24	29-24	29-245	29-28	0-2 a.m. ...	29-23	2-6 p.m. ...	9
29-29	29-26	29-26	29-26	29-26	29-26	29-26	29-27	29-27	29-262	29-29	1-4 p.m. ...	29-24	0 a.m. ...	10
29-26	29-26	29-25	29-25	29-24	29-23	29-22	29-22	29-22	29-261	29-29	10 a.m.-noon	29-22	10 p.m.-midn't	11
29-12	29-12	29-12	29-11	29-11	29-10	29-10	29-10	29-10	29-157	29-22	0-3 a.m. ...	29-10	9 p.m.-midn't	12
29-11	29-12	29-12	29-12	29-12	29-13	29-13	29-13	29-13	29-114	29-13	9 p.m.-midn't	29-10	0-2 a.m. ...	13
29-10	29-08	29-08	29-08	29-08	29-08	29-08	29-08	29-08	29-106	29-13	0-7 a.m. ...	29-08	5 p.m.-midn't	14
29-03	29-03	29-02	29-02	29-02	29-02	29-01	29-01	29-01	29-045	29-08	0-5 a.m. ...	29-01	10 p.m.-midn't	15
29-05	29-05	29-05	29-05	29-05	29-06	29-07	29-07	29-07	29-035	29-07	10 p.m.-midn't	29-01	0-8 a.m. ...	16
29-07	29-07	29-06	29-06	29-06	29-06	29-06	29-06	29-06	29-069	29-08	9 a.m.-1 p.m.	29-06	6 p.m.-midn't	17
29-02	29-02	29-02	29-02	29-02	29-02	29-02	29-02	29-02	29-040	29-06	0-10 a.m. ...	29-02	2 p.m.-midn't	18
29-09	29-09	29-09	29-11	29-11	29-11	29-12	29-12	29-13	29-080	29-13	Midnight ...	29-02	0-1 a.m. ...	19
29-18	29-17	29-17	29-17	29-17	29-16	29-16	29-16	29-16	29-168	29-18	7 a.m.-4 p.m.	29-13	0-1 a.m. ...	20
29-06	29-04	29-03	29-03	29-02	29-00	28-99	28-99	28-99	29-095	29-16	0-8 a.m. ...	28-99	10 p.m.-midn't	21
28-82	28-82	28-82	28-82	28-82	28-81	28-81	28-81	28-81	28-865	28-99	0 a.m. ...	28-81	9 p.m.-midn't	22
29-03	29-03	29-03	29-03	29-03	29-03	29-03	29-03	29-03	28-962	29-03	3 p.m.-midn't	28-81	0 a.m. ...	23
28-93	28-92	28-90	28-90	28-90	28-91	28-91	28-92	28-93	28-970	29-03	0-8 a.m. ...	28-90	6-9 p.m. ...	24
29-12	29-12	29-12	29-12	29-12	29-11	29-07	29-07	29-05	29-060	29-12	3-8 p.m. ...	28-93	0 a.m. ...	25
28-74	28-74	28-74	28-74	28-76	28-78	28-78	28-78	28-78	28-826	29-05	0 a.m. ...	28-74	2-7 p.m. ...	26
28-79	28-79	28-79	28-79	28-79	28-79	28-79	28-79	28-79	28-800	28-82	5-9 a.m. ...	28-78	0-2 a.m. ...	27
28-87	28-87	28-85	28-84	28-83	28-81	28-81	28-81	28-81	28-848	28-91	2 p.m. ...	28-79	0 a.m. ...	28
29-05	29-06	29-06	29-04	29-02	29-02	29-02	29-02	29-01	28-967	29-06	5-6 p.m. ...	28-81	0-1 a.m. ...	29
28-79	28-79	28-77	28-76	28-76	28-76	28-76	28-76	28-76	28-860	29-01	0 a.m. ...	28-76	7 p.m.-midn't	30
29-03	29-03	29-05	29-05	29-05	29-05	29-05	29-05	29-05	28-945	29-05	6 p.m.-midn't	28-76	0-1 a.m. ...	31
29-110	29-109	29-107	29-107	29-108	29-108	29-107	29-108	29-107	29-112	...	.....	...	.....	Mean.

Absolute Minimum = 28-74 from 2 p.m. to 7 p.m. on 26th.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29.05	29.03	29.01	28.99	28.98	28.96	28.88	28.86	28.84	28.83	28.83	28.81	28.81	28.82	28.84
2	29.09	29.11	29.12	29.14	29.19	29.21	29.23	29.25	29.27	29.28	29.28	29.28	29.30	29.33	29.33
3	29.31	29.31	29.31	29.31	29.31	29.30	29.30	29.30	29.27	29.26	29.26	29.26	29.25	29.24	29.22
4	29.10	29.10	29.10	29.10	29.10	29.10	29.09	29.06	29.05	29.04	29.02	29.02	29.02	29.02	29.03
5	29.11	29.11	29.11	29.09	29.09	29.09	29.08	29.04	29.03	29.03	29.02	28.98	28.96	28.95	28.94
6	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.84	28.77	28.76	28.74	28.73	28.71	28.70	28.69
7	28.78	28.79	28.79	28.81	28.81	28.81	28.83	28.85	28.87	28.87	28.87	28.87	28.83	28.81	28.78
8	28.90	28.90	28.91	28.91	28.91	28.91	28.91	28.93	28.93	28.93	28.93	28.93	28.94	28.95	28.97
9	29.14	29.16	29.17	29.19	29.21	29.21	29.22	29.24	29.25	29.25	29.24	29.24	29.23	29.22	29.21
10	29.12	29.11	29.10	29.10	29.10	29.10	29.08	29.04	29.02	29.02	29.01	29.00	29.00	28.99	28.98
11	28.93	28.93	28.93	28.93	28.93	28.93	28.93	28.93	28.93	28.92	28.92	28.92	28.92	28.91	28.90
12	28.87	28.87	28.87	28.87	28.88	28.88	28.88	28.89	28.90	28.91	28.91	28.91	28.91	28.92	28.92
13	28.97	28.97	28.97	29.00	29.01	29.02	29.05	29.06	29.08	29.08	29.07	29.04	29.02	29.02	29.02
14	28.98	28.98	28.98	28.98	28.98	29.00	29.00	29.02	29.02	29.01	29.00	29.00	29.00	29.00	29.01
15	29.07	29.07	29.09	29.12	29.12	29.13	29.14	29.14	29.17	29.17	29.17	29.17	29.17	29.17	29.17
16	29.20	29.20	29.20	29.20	29.20	29.20	29.20	29.19	29.18	29.17	29.17	29.17	29.17	29.17	29.17
17	29.28	29.29	29.31	29.33	29.33	29.33	29.35	29.35	29.36	29.36	29.36	29.38	29.38	29.38	29.39
18	29.45	29.45	29.47	29.47	29.47	29.47	29.47	29.47	29.47	29.45	29.44	29.42	29.42	29.41	29.39
19	29.31	29.31	29.32	29.32	29.33	29.33	29.33	29.33	29.33	29.32	29.32	29.31	29.31	29.32	29.32
20	29.32	29.32	29.32	29.32	29.32	29.32	29.32	29.33	29.33	29.33	29.33	29.34	29.34	29.34	29.34
21	29.35	29.36	29.37	29.37	29.37	29.39	29.39	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.40
22	29.38	29.37	29.37	29.37	29.38	29.38	29.38	29.38	29.41	29.41	29.41	29.39	29.39	29.39	29.39
23	29.37	29.35	29.35	29.34	29.34	29.31	29.31	29.31	29.31	29.31	29.31	29.31	29.34	29.34	29.34
24	29.42	29.42	29.44	29.45	29.46	29.46	29.47	29.48	29.48	29.48	29.48	29.48	29.48	29.48	29.48
25	29.49	29.49	29.49	29.49	29.49	29.49	29.49	29.49	29.48	29.47	29.45	29.44	29.43	29.42	29.40
26	29.34	29.34	29.34	29.34	29.34	29.34	29.34	29.32	29.31	29.31	29.31	29.31	29.31	29.31	29.31
27	29.36	29.36	29.36	29.36	29.36	29.36	29.36	29.40	29.40	29.42	29.45	29.43	29.41	29.41	29.39
28	29.26	29.26	29.26	29.26	29.24	29.22	29.20	29.17	29.16	29.16	29.15	29.14	29.14	29.14	29.14
29	29.13	29.13	29.13	29.14	29.14	29.16	29.18	29.22	29.24	29.25	29.27	29.30	29.32	29.35	29.35
30	29.38	29.38	29.39	29.39	29.40	29.40	29.41	29.41	29.40	29.39	29.39	29.39	29.39	29.39	29.39
31	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.40	29.40	29.40	29.40	29.40	29.40	29.40	29.39
Mean.	29.184	29.184	29.187	29.191	29.194	29.195	29.195	29.197	29.195	29.193	29.191	29.186	29.184	29.184	29.181

Absolute Maximum = 29.50 from 4 p.m. to 8 p.m. on 24th.

—HOURLY VALUES—*continued.*

JANUARY, 1913.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Date.		
28-86	28-88	28-91	28-96	28-97	29-01	29-04	29-05	29-07	28-928	29-07	Midnight ...	28-81	Noon-1 p.m.	1
29-33	29-33	29-33	29-33	29-32	29-32	29-32	29-31	29-31	29-258	29-33	2-7 p.m. ...	29-07	0 a.m. ...	2
29-21	29-21	29-17	29-16	29-14	29-14	29-14	29-14	29-14	29-240	29-31	0-5 a.m. ...	29-14	8 p.m.-midn't	3
29-04	29-07	29-07	29-07	29-09	29-09	29-10	29-10	29-10	29-071	29-14	0 a.m. ...	29-02	11 a.m.-2 p.m.	4
28-93	28-91	28-90	28-88	28-88	28-87	28-86	28-85	28-85	28-987	29-11	1-3 a.m. ...	28-85	11 p.m.-midn't	5
28-69	28-69	28-73	28-73	28-73	28-75	28-76	28-76	28-78	28-770	28-85	0 a.m. ...	28-69	3-5 p.m. ...	6
28-78	28-78	28-79	28-81	28-84	28-87	28-88	28-88	28-88	28-826	28-88	10 p.m.-midn't	28-78	3-5 p.m., &c.	7
28-98	28-99	29-03	29-05	29-06	29-08	29-08	29-13	29-13	28-969	29-13	11 p.m.-midn't	28-88	0 a.m. ...	8
29-21	29-20	29-19	29-17	29-16	29-15	29-15	29-12	29-12	29-194	29-25	9-10 a.m. ...	29-12	11 p.m.-midn't	9
28-98	28-98	28-97	28-97	28-97	28-97	28-97	28-93	28-93	29-022	29-12	0-1 a.m. ...	28-93	11 p.m.-midn't	10
28-90	28-89	28-88	28-87	28-86	28-86	28-86	28-87	28-87	28-906	28-93	0-9 a.m. ...	28-86	8-10 p.m. ...	11
28-92	28-92	28-92	28-94	28-95	28-96	28-96	28-96	28-97	28-910	28-97	Midnight ...	28-87	0-4 a.m. ...	12
29-01	29-01	29-00	29-00	28-98	28-98	28-98	28-98	28-98	29-013	29-08	9-10 a.m. ...	28-97	0-3 a.m. ...	13
29-01	29-01	29-03	29-03	29-03	29-03	29-03	29-05	29-07	29-008	29-07	Midnight ...	28-98	0-5 a.m. ...	14
29-17	29-17	29-17	29-17	29-17	29-17	29-18	29-19	29-20	29-150	29-20	Midnight ...	29-07	0-2 a.m. ...	15
29-17	29-17	29-17	29-18	29-20	29-22	29-23	29-26	29-28	29-193	29-28	Midnight ...	29-17	10 a.m.-6 p.m.	16
29-39	29-40	29-40	29-40	29-42	29-42	29-44	29-44	29-45	29-369	29-45	Midnight ...	29-28	0-1 a.m. ...	17
29-37	29-34	29-34	29-31	29-31	29-30	29-30	29-30	29-30	29-403	29-47	3-9 a.m. ...	29-30	9 p.m.-midn't	18
29-31	29-31	29-31	29-31	29-31	29-31	29-31	29-31	29-31	29-316	29-33	5-8 a.m. ...	29-30	0 a.m. ...	19
29-33	29-33	29-33	29-33	29-33	29-33	29-33	29-33	29-34	29-329	29-34	Noon-3 p.m., etc.	29-31	0 a.m. ...	20
29-40	29-40	29-40	29-40	29-40	29-39	29-39	29-38	29-38	29-388	29-40	8 a.m.-8 p.m.	29-34	0 a.m. ...	21
29-39	29-39	29-39	29-39	29-39	29-39	29-37	29-37	29-37	29-385	29-41	9-11 a.m. ...	29-37	2-4 a.m., 10 p.m.-midn't.	22
29-34	29-35	29-35	29-35	29-37	29-38	29-39	29-40	29-41	29-344	29-41	Midnight ...	29-31	6 a.m.-noon...	23
29-50	29-50	29-50	29-50	29-50	29-49	29-49	29-49	29-49	29-474	29-50	4-8 p.m. ...	29-41	0 a.m. ...	24
29-39	29-38	29-36	29-36	29-36	29-35	29-35	29-35	29-34	29-430	29-49	0-8 a.m. ...	29-34	Midnight ...	25
29-32	29-33	29-33	29-33	29-33	29-35	29-35	29-36	29-36	29-330	29-36	11 p.m.-midn't	29-31	9 a.m.-3 p.m.	26
29-38	29-35	29-35	29-33	29-30	29-30	29-28	29-27	29-27	29-363	29-45	11 a.m. ...	29-27	11 p.m.-midn't	27
29-14	29-14	29-14	29-13	29-13	29-13	29-13	29-13	29-13	29-174	29-27	0 a.m. ...	29-13	7 p.m.-midn't	28
29-36	29-36	29-36	29-36	29-36	29-37	29-37	29-38	29-38	29-270	29-38	11 p.m.-midn't	29-13	0-3 a.m. ...	29
29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-392	29-41	7-8 a.m. ...	29-38	0-2 a.m. ...	30
29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-39	29-393	29-40	8 a.m.-2 p.m.	29-39	0-7 a.m., 3 p.m.-midn't	31
29-180	29-180	29-181	29-181	29-182	29-186	29-188	29-189	29-193	29-187	...	.....	...	.....	Mo

Absolute Minimum = 28-69 from 3 p.m. to 5 p.m. on 6th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table 1.—ATMOSPHERIC PRESSURE

"THE GROTTOS," QUEEN MARY LAND.

BAROMETER (IN INCHES). CORRECTED AND REDUCED

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.
1	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.39	29.37	29.37	29.37	29.37	29.37	29.36	29.35
2	29.26	29.26	29.24	29.24	29.24	29.23	29.22	29.18	29.17	29.17	29.17	29.17	29.17	29.17	29.17
3	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.17	29.17	29.16	29.15
4	29.08	29.06	29.05	29.04	29.03	29.01	29.00	28.99	28.99	28.98	28.98	29.00	29.00	29.00	29.00
5	29.02	29.02	29.02	29.02	29.02	29.02	29.02	29.02	28.97	28.96	28.95	28.94	28.93	28.93	28.91
6	28.88	28.88	28.88	28.88	28.88	28.88	28.89	28.95	28.96	28.96	28.96	28.98	29.00	29.00	29.02
7	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.04	29.05	29.05	29.05
8	29.05	29.05	29.05	29.05	29.07	29.07	29.08	29.12	29.14	29.15	29.17	29.17	29.19	29.19	29.19
9	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.14	29.14	29.14	29.12	29.10	29.10	29.10	29.10
10	29.10	29.10	29.10	29.10	29.10	29.10	29.10	29.14	29.14	29.16	29.17	29.17	29.19	29.19	29.19
11	29.28	29.28	29.31	29.31	29.31	29.31	29.31	29.35	29.35	29.35	29.36	29.36	29.36	29.39	29.40
12	29.46	29.46	29.46	29.46	29.46	29.46	29.46	29.46	29.43	29.43	29.41	29.39	29.36	29.35	29.33
13	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.21	29.20	29.20	29.19	29.19	29.19
14	29.24	29.25	29.28	29.29	29.30	29.31	29.31	29.31	29.31	29.30	29.29	29.27	29.26	29.26	29.26
15	29.19	29.19	29.19	29.19	29.19	29.17	29.14	29.13	29.13	29.10	29.09	29.09	29.09	29.09	29.09
16	29.06	29.06	29.05	29.05	29.05	29.04	29.03	29.03	29.02	29.02	29.01	29.01	29.01	29.01	29.01
17	29.03	29.03	29.03	29.03	29.03	29.03	29.03	29.03	29.02	29.02	29.02	29.02	29.05	29.05	29.07
18	29.12	29.14	29.14	29.16	29.16	29.16	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19
Mean.	29.155	29.156	29.157	29.158	29.159	29.156	29.156	29.159	29.154	29.152	29.149	29.147	29.149	29.149	29.148

Absolute Maximum = 29.46 from 1 a.m. to 8 a.m. on 12th.



HOURLY VALUES—continued.

FEBRUARY, 1913.

TO 32° FAHR. M.S.L. AND STANDARD GRAVITY.

4 p.m.	5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Date.		
29-35	29-32	29-32	29-32	29-30	29-27	29-26	29-26	29-26	29-350	29-39	0-8 a.m. ...	29-26	10 p.m.-midn't	1
29-17	29-17	29-17	29-17	29-19	29-19	29-19	29-19	29-19	29-197	29-26	0-2 a.m. ...	29-17	9 a.m.-6 p.m.	2
29-14	29-13	29-12	29-12	29-12	29-11	29-11	29-10	29-09	29-160	29-19	0-11 a.m. ...	29-09	Midnight ...	3
29-00	29-01	29-01	29-01	29-01	29-01	29-02	29-02	29-02	29-015	29-09	0 a.m. ...	28-98	10-11 a.m. ...	4
28-90	28-89	28-88	28-88	28-87	28-87	28-87	28-87	28-87	28-947	29-02	0-8 a.m. ...	28-87	8 p.m.-midn't	5
29-02	29-02	29-03	29-04	29-04	29-04	29-04	29-04	29-04	28-968	29-04	7 p.m.-midn't	28-87	0 a.m. ...	6
29-05	29-05	29-03	29-03	29-03	29-03	29-03	29-05	29-05	29-041	29-05	1-5 p.m., 11 p.m. mid'nt.	29-03	6-10 p.m. ...	7
29-19	29-19	29-20	29-20	29-20	29-20	29-20	29-19	29-19	29-143	29-20	6-10 p.m. ...	29-05	0-4 a.m. ...	8
29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-10	29-134	29-19	0-7 a.m. ...	29-10	Noon-midn't	9
29-20	29-21	29-22	29-23	29-24	29-25	29-27	29-27	29-27	29-172	29-27	10 p.m.-midn't	29-10	0-7 a.m. ...	10
29-40	29-43	29-45	29-45	29-45	29-45	29-45	29-45	29-45	29-372	29-45	6 p.m.-midn't	29-27	0 a.m. ...	11
29-29	29-28	29-26	29-25	29-23	29-22	29-21	29-21	29-21	29-361	29-46	1-8 a.m. ...	29-21	10 p.m.-midn't	12
29-19	29-19	29-19	29-20	29-23	29-23	29-23	29-24	29-24	29-208	29-24	11 p.m.-midn't	29-19	1-6 p.m. ...	13
29-25	29-23	29-23	29-23	29-23	29-21	29-21	29-19	29-19	29-260	29-31	6-9 a.m. ...	29-19	11 p.m.-midn't	14
29-09	29-08	29-07	29-07	29-07	29-06	29-06	29-06	29-06	29-115	29-19	0-5 a.m. ...	29-06	9 p.m.-midn't	15
29-01	29-01	29-02	29-02	29-02	29-03	29-03	29-03	29-03	29-028	29-06	0-2 a.m. ...	29-01	11 a.m.-5 p.m.	16
29-07	29-07	29-07	29-07	29-10	29-12	29-12	29-12	29-12	29-055	29-12	9 p.m.-midn't	29-02	9 a.m.-noon...	17
29-20	29-20	29-20	29-20	29-20	29-21	29-21	29-21	29-21	29-183	29-21	9 p.m.-midn't	29-12	0-1 a.m. ...	18
29-146	29-143	29-143	29-144	29-146	29-144	29-145	29-144	29-144	29-150	...	.....	...	.....	...

Absolute Minimum = 28-87 from 8 p.m. to midnight on 5th.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
12*	...	...	...	...	...	...	...	...	...	...	...	17	16	15	15	14
13	5	9	9	10	10	11	13	15	15	16	17	18	19	19	19	17
14	9	7	7	6	6	3	-1	0	1	2	4	7	7	7	7	6
15	-13	-13	-15	-15	-15	-13	-7	-5	-3	-1	0	0	0	-1	-3	-2
16	-6	-6	-3	-4	-4	-1	0	1	4	7	9	11	12	12	11	8
17	-7	-7	-7	-7	-8	-7	-7	-4	-1	3	4	7	8	6	8	4
18	-6	-6	-6	-6	-7	-7	-7	-3	-2	-1	0	4	9	16	18	18
19	-1	-1	-6	-6	-4	-3	2	10	8	9	12	12	15	16	16	16
20	15	15	15	15	14	14	14	8	2	3	6	8	9	10	10	8
21	-5	-5	-5	-1	-1	0	1	2	-1	1	2	4	6	9	10	10
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	-5	-5	-6	-8	-8	-5	-5	-4	-4	1	4	7	8	9	8	9
27	14	15	15	15	15	15	15	15	18	19	19	19	19	19	19	18
28†	15	15	14	13	14	14	14	14	12	13	13	13	12	10	5	0
29	2	3	2	1	-1	-3	-3	-2	-2	-1	2	2	2	3	4	4
30	9	9	9	9	10	10	10	10	11	12	12	13	13	12	11	9
31	-6	-6	-4	-2	-2	-1	1	2	4	5	7	8	8	9	10	10
Mean.	1.3	1.6	1.3	1.3	1.3	1.8	2.7	3.9	4.1	5.9	7.4	8.9	9.8	10.4	10.2	9.1

Greatest range, 25 on 18th and 25th. Least range, 6 on 27th.

\* Complete days only used for means.

† Due to a very rapid drop in temperature on this day, the thin sheet of ice formed over the sea gave off clouds of vapour, shutting out

—HOURLY VALUES.

MARCH, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.	
...	...	...	...	...	...	...	...	...	...	...	...	1	
...	...	...	...	...	...	...	...	...	...	...	...	2	
...	...	...	...	...	...	...	...	...	...	...	...	3	
...	...	...	...	...	...	...	...	...	...	...	...	4	
...	...	...	...	...	...	...	...	...	...	...	...	5	
...	...	...	...	...	...	...	...	...	...	...	...	6	
...	...	...	...	...	...	...	...	...	...	...	...	7	
...	...	...	...	...	...	...	...	...	...	...	...	8	
...	...	...	...	...	...	...	...	...	...	...	...	9	
...	...	...	...	...	...	...	...	...	...	...	...	10	
...	...	...	...	...	...	...	...	...	...	...	...	11	
14	12	-11	8	8	5	5	5	...	...	...	...	12	
15	14	13	12	12	11	9	9	13.1	19	1-3 p.m. ...	4	13	
2	-1	-4	-9	-8	-9	-11	-11	1.5	9	0 a.m.-1 a.m. ...	-11	14	
-5	-8	-6	-4	-4	-5	-6	-8	-6.4	0	11 a.m.-1 p.m. ...	-15	15	
7	2	-2	-3	-4	-6	-6	-6	1.3	12	1-2 p.m. ...	-8	16	
1	-3	-6	-8	-9	-8	-7	-6	-2.5	8	1 and 3 p.m. ...	-9	17	
16	12	9	6	5	-4	-4	-2	2.1	18	3-4 p.m. ...	-7	18	
16	15	15	15	15	15	15	15	8.2	16	2-5 p.m. ...	-6	19	
8	6	5	1	0	-5	-5	-5	7.5	15	1-4 a.m. ...	-5	20	
12	14	16	17	18	18	16	15	6.0	18	9-10 p.m. ...	-5	21	
...	...	...	...	...	...	...	...	...	...	...	...	22	
...	...	...	...	...	...	...	...	...	...	...	...	23	
...	...	...	...	...	...	...	...	...	...	...	...	24	
...	...	...	...	0	-3	-4	-4	...	...	...	...	25	
10	10	11	12	12	13	14	14	3.3	14	11-12 p.m. ...	-8	26	
13	13	13	14	14	14	14	14	15.8	19	10 a.m. to 3 p.m. ...	13	27	
-6	-7	-10	-4	-1	0	0	0	7.1	15	1-2 a.m. ...	-10	28	
4	5	5	6	6	8	8	9	2.5	9	Midnight ...	-3	29	
4	0	-1	-2	-3	-4	-5	-5	6.7	13	Noon-1 p.m. ...	-5	30	
10	10	11	11	13	13	14	16	5.4	16	Midnight ...	-6	31	
7.1	5.5	4.6	4.3	4.4	3.4	3.1	3.3	4.8	13.4	.....	-5.4	18.8	Mean.

Absolute maximum = 19 at 10 a.m. to 3 p.m. on 27th. Absolute minimum = -15 at 3 a.m. to 5 a.m. on 15th.

the sun's disc on a clear sky.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1*	17	17	17	17	18	19	19	19	19	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	-4	-3	-2	-1	0	1	1	1
9	2	3	5	7	10	12	13	14	14	15	16	15	12	12	10	8
10	5	5	4	3	3	2	2	2	2	1	2	2	2	2	3	2
11	-8	-9	-9	-10	-10	-10	-12	-12	-12	-11	-11	-9	-8	-7	-5	-5
12	-9	-10	-11	-11	-10	-10	-10	-12	-11	-10	-9	-8	-7	-7	-8	-9
13	-9	-9	-8	-7	-6	-5	-5	-4	-3	-3	-2	-1	-1	-1	0	0
14	2	2	2	2	2	3	3	3	3	3	3	3	4	4	4	4
15	0	0	1	0	0	-1	-2	-5	-7	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
29*	...	...	...	...	...	...	...	...	...	...	...	-4	-5	-5	-9	-9
30	-16	-14	-15	-14	-7	-8	-7	-5	-5	-5	-5	-5	-5	-5	-4	-16
Mean:	-4.7	-4.6	-4.6	-4.3	-2.6	-2.3	-2.3	-2.0	-1.7	-1.3	-0.9	-0.4	-0.4	-0.3	0	-2.3

Greatest range, 17 on 30th. Least range, 4 on 14th.

\* Complete days only used for means.

—HOURLY VALUES—*continued.*

APRIL, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
...	...	...	...	...	...	...	...	...	...	...	...	1		
...	...	...	...	...	...	...	...	...	...	...	...	2		
...	...	...	...	...	...	...	...	...	...	...	...	3		
...	...	...	...	...	...	...	...	...	...	...	...	4		
...	...	...	...	...	...	...	...	...	...	...	...	5		
...	...	...	...	...	...	...	...	...	...	...	...	6		
...	...	...	...	...	...	...	...	...	...	...	...	7		
1	1	1	1	0	0	0	1	...	...	...	...	8		
7	6	4	5	5	5	6	5	8.7	16	11 a.m. ...	2	1 a.m. ...	14	9
1	-1	-2	-5	-4	-5	-7	-8	0.7	5	0 a.m. ...	-8	Midnight	13	10
-8	-10	-12	-12	-10	-10	-10	-9	-9.5	-5	3-4 p.m. ...	-13	7-45 p.m....	8	11
-11	-11	-11	-11	-10	-10	-10	-10	-9.8	-7	1-2 p.m. ...	-12	8 a.m. ...	5	12
0	1	1	1	1	2	2	2	-2.5	2	10 p.m.-midnight	-10	0 a.m. ...	12	13
3	3	2	2	2	1	0	0	2.5	4	1-4 p.m. ...	0	11 p.m.-midnight	4	14
...	...	...	...	...	...	...	...	...	...	...	...	...	15	
...	...	...	...	...	...	...	...	...	...	...	...	...	16	
...	...	...	...	...	...	...	...	...	...	...	...	...	17	
...	...	...	...	...	...	...	...	...	...	...	...	...	18	
...	...	...	...	...	...	...	...	...	...	...	...	...	19	
...	...	...	...	...	...	...	...	...	...	...	...	...	20	
...	...	...	...	...	...	...	...	...	...	...	...	...	21	
...	...	...	...	...	...	...	...	...	...	...	...	...	22	
...	...	...	...	...	...	...	...	...	...	...	...	...	23	
...	...	...	...	...	...	...	...	...	...	...	...	...	24	
...	...	...	...	...	...	...	...	...	...	...	...	...	25	
...	...	...	...	...	...	...	...	...	...	...	...	...	26	
...	...	...	...	...	...	...	...	...	...	...	...	...	27	
...	...	...	...	...	...	...	...	...	...	...	...	...	28	
-9	-14	-13	-13	-13	-13	-14	-14	...	...	...	...	...	29	
-20	-20	-21	-21	-20	-14	-10	-10	-11.4	-4	3 p.m. ...	-21	7-8 p.m. ...	17	30
-4.0	-4.6	-5.6	-5.9	-5.1	-4.4	-4.1	-4.3	-3.0	1.6	.....	-8.9	.....	10.5	Mean.

Absolute maximum = 16 at 11 a.m. on 9th. Absolute minimum = -21 at 7 and 8 p.m. on 30th.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	-9	-9	-9	-9	-9	-9	-9	-11	-15	-21	-22	-22	-19	-19	-20	-18
2	-10	-11	-11	-11	-11	-11	-11	-11	-11	-12	-12	-10	-10	-9	-9	-9
3	-12	-13	-15	-15	-15	-15	-16	-16	-16	-15	-15	-15	-15	-15	-15	-15
4	-9	-9	-9	-9	-9	-9	-9	-9	-9	-8	-10	-10	-11	-12	-16	-18
5	-27	-27	-27	-26	-26	-25	-24	-23	-23	-23	-26	-26	-29	-29	-29	-31
6	(-31)	(-31)	-30	(-27)	(-25)	-20	(-19)	(-18)	-17	-11	-13	-12	-12	-12	-11	-10
7	-12	-13	-14	-14	-15	-23	-22	-23	-22	-23	-25	-25	-25	-22	-21	-20
8	-9	-9	-8	-8	-8	-8	-8	-8	-8	0	5	9	9	9	10	10
9	8	9	9	10	10	10	10	12	12	11	11	11	11	11	11	12
10	14	14	14	15	15	15	15	15	15	15	15	15	14	11	10	10
11	4	3	3	2	2	1	0	0	0	0	0	2	5	5	4	4
12	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2
13	-2	-6	-8	-8	-9	-10	-11	-11	-12	-13	-15	-16	-15	-16	-16	-16
14	-24	-24	-24	-25	-25	-25	-25	-25	-25	-25	-24	-23	-22	-21	-21	-21
15	1	2	2	3	3	2	1	0	1	-4	-7	-7	-7	-5	-5	-3
16	-17	-16	-17	-17	-16	-16	-16	-17	-17	-17	-20	-20	-20	-19	-19	-20
17	-25	-25	-26	-26	-26	-27	-27	-27	-27	-27	-26	-25	-26	-25	-23	-21
18	-9	-9	-9	-9	-9	-9	-9	-9	-8	-9	-9	-7	-8	-8	-8	-8
19	-5	-5	-5	-5	-5	-5	-5	-5	-5	-4	-4	-5	-4	-5	-5	-5
20	-4	-4	-4	-4	-4	-4	-4	-4	-4	-3	-1	0	1	1	2	2
21	-8	-5	-2	1	4	2	0	-1	-3	-4	-3	-4	-4	-6	-6	-7
22	3	3	3	3	3	3	3	3	3	3	6	6	6	6	6	7
23	7	7	7	7	7	6	6	6	6	5	4	5	5	7	7	8
24	8	8	7	7	7	7	7	6	6	6	7	7	8	9	10	11
25	13	12	12	10	9	8	7	7	7	6	6	5	5	7	8	6
26	6	7	7	5	4	3	2	0	-3	-3	-3	-4	-5	-7	-9	-10
27	-14	-14	-14	-15	-15	-15	-15	-15	-15	-13	-9	-7	-7	-9	-10	-12
28	-11	-9	-9	-9	-9	-8	-7	-11	-11	-11	-11	-13	-13	-13	-13	-14
29	-19	-19	-20	-20	-20	-20	-20	-20	-19	-19	-20	-20	-19	-19	-19	-18
30	-23	-23	-26	-25	-22	-20	-21	-21	-20	-23	-23	-23	-19	-19	-21	-18
31	-18	-18	-18	-15	-13	-16	-15	-15	-16	-9	-8	-10	-9	-7	-5	-4
Mean.	-7.5	-7.5	-7.7	-7.5	-7.2	-7.6	-7.7	-8.0	-8.2	-7.9	-7.9	-7.8	-7.3	-7.2	-7.3	-7.2

Greatest range, 25 on 14th. Least range, 1 on 19th.

On occasions the thermograph record is either wanting or unreliable owing to drift-snow gaining access to the instrument. At such times, approximate figures for temperatures based on the nearest reliable term-time visual readings are interpolated in this table. Temperatures thus interpolated are printed in italic numerals and enclosed within brackets. Where a column of figures containing interpolated data has been used to arrive at a mean temperature such mean is printed in italics (no brackets).

METEOROLOGY.

HOURLY VALUES—continued.

MAY, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
-15	-14	-10	-10	-10	-10	-10	-10	-13.3	-9	1-7 a.m. ....	-22	11 a.m.-noon ...	13	1
-9	-8	-8	-10	-11	-11	-11	-11	-10.3	-8	6-7 p.m. ....	-12	10-11 a.m. ....	4	2
-15	-15	-14	-14	-14	-14	-12	-9	-14.4	-9	Midnight ...	-16	7-9 a.m. ....	7	3
-18	-18	-18	-20	-27	-27	-28	-28	-14.2	-9	1-9 a.m. ....	-28	11 p.m. & midn't	19	4
-31	-32	-32	-32	-31	-30	-31	-32	-27.9	-23	9-10 a.m. ....	-32	6-8 p.m. ....	9	5
-10	-11	-11	-12	-12	-10	-10	-12	16.5	-10	4-5 p.m. ....	-30	0-30 a.m. ....	20	6
-19	-16	-14	-14	-12	-11	-11	-10	-17.8	-10	Midnight... ..	-25	11 a.m.-1 p.m. ...	15	7
9	8	7	9	7	8	7	8	1.3	10	3-30 p.m. ....	-10	0 a.m. ....	20	8
13	13	14	14	14	14	14	14	11.4	14	7 p.m.-midnight...	8	0 a.m. ....	6	9
9	8	8	8	7	6	5	4	11.7	15	5 a.m. to noon ...	-4	Midnight ...	19	10
4	4	4	4	4	3	3	3	2.7	5	1-2 p.m. ....	0	7-10 a.m. ....	5	11
2	2	1	1	1	0	-1	-2	2.1	3	0 a.m.-noon ...	-2	Midnight ...	5	12
-20	-20	-20	-20	-21	-22	-23	-23	-14.2	-2	0 a.m. ....	-23	Midnight ...	21	13
-20	-13	-13	-11	-8	-8	-4	0	-19.5	0	Midnight ...	-25	4-10 a.m. ....	25	14
-5	-5	-4	-5	-10	-13	-15	-18	-3.7	3	4-5 a.m. ....	-18	Midnight ...	21	15
-21	-22	-23	-23	-24	-24	-25	-25	-19.5	-16	5-7 a.m. ....	-25	Midnight ...	9	16
-20	-18	-16	-14	-12	-11	-10	-9	-22.0	-9	Midnight ...	-27	6-9 a.m. ....	18	17
-8	-8	-8	-8	-8	-6	-5	-5	-8.1	-5	Midnight ...	-9	0 a.m. ....	4	18
-5	-4	-4	-4	-4	-4	-4	-4	-4.6	-4	Midnight ...	-5	0 a.m. ....	1	19
-2	-5	-6	-6	-8	-7	-8	-8	-3.4	2	3-40 p.m. ....	-8	11-30 p.m. ....	10	20
-4	-3	-1	-1	0	0	2	3	-2.3	4	4-45 a.m. ....	-8	0 a.m. ....	12	21
7	7	7	8	8	8	8	8	5.2	8	Midnight ...	3	0 a.m. ....	5	22
8	9	10	10	9	8	10	8	7.1	10	7-8 p.m. ....	4	11 a.m. ....	6	23
13	12	12	13	15	15	13	13	9.3	15	9-10 p.m. ....	6	9-30 p.m. ....	9	24
6	5	5	5	5	6	6	6	7.3	13	0 a.m. ....	5	6-9 p.m. ....	8	25
-10	-11	-11	-12	-13	-13	-13	-13	-4.0	7	2 a.m. ....	-13	8 p.m.-midnight	20	26
-12	-12	-11	-11	-11	-11	-11	-11	-12.1	-7	12 noon ...	-15	4-9 a.m. ....	8	27
-14	-14	-15	-17	-17	-17	-19	-19	-12.5	-8	6 a.m. ....	-19	Midnight ...	11	28
-19	-19	-21	-21	-22	-22	-23	-24	-20.0	-18	4 p.m. ....	-24	Midnight ...	6	29
-17	-17	-19	-21	-21	-20	-20	-20	-21.0	-17	5 p.m. ....	-26	3 a.m. ....	9	30
-4	-6	-5	-5	-3	-3	-4	-5	-10.0	-3	9-10 p.m. ....	-20	0 a.m. ....	17	31
-7.2	-7.1	-6.8	-6.9	-7.2	-7.2	-7.3	-7.4	-7.5	-1.9	.....	-13.5	.....	11.6	Mean.

Absolute maximum = 15 at 10 p.m. on 24th. Absolute minimum = -32 at 7 p.m. on 5th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	-5	-8	-12	-14	-15	-15	-16	-20	-22	-22	-22	-22	-22	-23	-23	-23
2	-23	-23	-22	-20	-19	-19	-18	-16	-15	-13	-11	-11	-11	-11	-5	-5
3	-1	-1	-1	0	0	0	0	0	0	(0	1)	1	(3	4)	6	(5
4	(4	3)	3	(3	2)	2	(1	1)	0	(0	0)	0	(-1	-2)	-3	-3
5	-3	-3	-3	-3	-3	-3	-3	-3	-4	-10	-14	-17	-18	-18	-18	-19
6	-18	-18	-16	-17	-16	-18	-18	-17	-16	-15	-15	-15	-16	-15	-15	-16
7	-24	-24	-24	-23	-23	-25	-20	-17	-17	-13	-9	-8	-7	-8	-9	-10
8	-12	-12	-12	-12	-13	-14	-14	-16	-16	-20	-23	-27	-27	-27	-28	-28
9	-23	-21	-19	-18	-19	-20	-21	-22	-22	-24	-28	-26	-27	-27	-27	-29
10	-26	-25	-26	-27	-27	-28	-29	-29	-30	-30	(-29	-29	-27	-27	-26	-25
11	(-20	-19	-19	-18	-17	-17	-16	-15	-14	-13	-13)	-14	-15	-15	-16	-14
12	-9	-9	-9	-8	-7	-7	-6	-5	-4	-4	-4	-3	-3	-4	-3	-3
13	-6	-7	-7	-7	-7	-7	-8	-8	-8	-9	-9	-10	-10	-11	-12	-12
14	-18	-18	-19	-19	-21	-22	-22	-23	-25	-26	-29	-30	-31	-29	-30	-29
15	-33	-28	-28	-28	-28	-28	-33	-33	-32	-35	-33	-31	-25	-21	-21	-20
16	-9	-9	-9	-9	-9	-9	-9	-9	-9	-9	-11	-8	-5	-4	-3	-3
17	4	5	5	5	5	5	5	5	5	5	6	8	7	7	4	2
18	-8	-6	-7	-8	-11	-11	-12	-8	-7	-8	-3	-1	-2	-2	-2	-3
19	-14	-15	-11	-8	-6	-4	-3	-4	-4	-3	-3	-4	-4	-4	-5	-5
20	-14	-19	-21	-24	-25	-27	-28	-28	-28	-27	-28	-28	-27	-27	-28	-28
21	-25	-25	-24	-23	-23	-22	-22	-18	-18	-19	-19	-20	-20	-20	-20	-20
22	-31	-32	-32	-33	-36	-38	-37	-38	-37	-36	-32	-30	-27	-26	-19	-12
23	1	3	3	3	3	3	2	-3	-18	-19	-19	-17	-20	-21	-22	-23
24	-21	-21	-22	-21	-20	-20	-19	-19	-18	-18	-18	-23	-23	-23	-22	-21
25	-33	-33	-32	-33	-33	-33	-34	-34	-33	-33	-31	-30	-30	-31	-31	-30
26	-25	-24	-23	-20	-16	-16	-14	-11	-7	-4	-4	-3	-2	-2	-2	-2
27	0	0	0	0	-1	-2	-4	-7	-10	-12	-14	-15	-18	-19	-20	-21
28	-31	-31	-31	-31	-30	-29	-28	-28	-29	-28	-27	-24	-23	-23	-22	-24
29	-27	-27	-27	-27	-29	-35	-35	-36	-36	-27	-38	-39	-39	-38	-36	-32
30	-6	-7	-7	-6	-5	-5	-5	-3	-3	0	0	3	3	5	6	5
Mean.	-15.2	-15.1	-15.1	-14.9	-15.0	-15.5	-15.5	-15.5	-15.9	-16.1	-16.0	-15.8	-15.5	-15.4	-15.1	-14.9

Greatest range, 39 on 22nd. Least range, 6 on 12th.



METEOROLOGY.

—HOURLY VALUES—*continued.*

JUNE, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
-23	-23	-23	-23	-24	-24	-24	-24	-19.3	-5	1 a.m. ...	-24	Midnight ...	19	1
-4	-3	-2	-2	-2	-2	-2	-1	-11.3	-1	Midnight ...	-23	1 a.m. ...	22	2
5)	4	(4	4	4	4	4)	4	2.0	(6)	.....	-1	.....	...	3
-3	-3	-3	-2	-2	-2	-3	-3	-0.3	(4)	.....	-3	.....	...	4
-20	-19	-20	-18	-17	-18	-17	-17	-11.7	-3	1 a.m. ...	-20	5-7 p.m. ...	17	5
-14	-15	-16	-18	-19	-20	-22	-23	-16.9	-13	5-30 p.m. ...	-23	Midnight ...	10	6
-11	-11	-12	-12	-12	-12	-12	-12	-15.0	-7	1 p.m. ...	-25	6 a.m. ...	18	7
-28	-28	-28	-27	-26	-26	-24	-23	-21.0	-12	2 a.m. ...	-28	3-7 p.m. ...	16	8
-30	-30	-30	-29	-28	-28	-28	-27	-25.0	-18	4 a.m. ...	-30	5-7 p.m. ...	12	9
-25	-24	-23	-23	-22	-22	-21	-20)	-25.8	-20	.....	-30	.....	...	10
-14	-14	-15	-15	-12	-13	-12	-10	-15.0	-10	.....	-20	.....	...	11
-4	-4	-3	-3	-3	-4	-5	-5	-5.1	-3	11-45 ...	-9	1 a.m. ...	6	12
-13	-14	-14	-15	-15	-15	-16	-17	-10.4	-6	0-30 a.m. ...	-17	Midnight ...	11	13
-23	-29	-30	-31	-31	-32	-31	-31	-25.9	-17	0 a.m. ...	-32	10 p.m. ...	15	14
-22	-18	-16	-16	-11	-10	-9	-9	-24.1	-9	11-12 p.m. ...	-35	10 a.m. ...	26	15
-2	-2	-1	-1	2	3	4	4	-5.2	4	11-12 p.m. ...	-11	11 a.m. ...	15	16
0	1	0	0	-1	-4	-7	-8	2.9	8	Noon ...	-8	Midnight ...	16	17
-2	-2	-3	-1	-2	-3	-6	-6	-5.2	-1	Noon ...	-12	7 a.m. ...	11	18
-6	-7	-7	-12	-12	-11	-12	-15	-7.2	-3	10-11 a.m. ...	-15	2 a.m. ...	12	19
-31	-32	-32	-32	-30	-27	-26	-26	-26.5	-15	0 a.m. ...	-32	6-8 p.m. ...	17	20
-22	-23	-23	-23	-25	-28	-30	-31	-22.5	-18	8-9 a.m. ...	-31	Midnight ...	13	21
-8	-6	-4	-4	-3	-3	-1	1	-22.5	1	Midnight ...	-38	6 a.m. ...	39	22
-24	-24	-25	-24	-24	-23	-22	-21	-13.3	3	2-5 a.m. ...	-25	7 p.m. ...	28	23
-27	-24	-30	-30	-30	-30	-33	-33	-23.3	-18	9-11 a.m. ...	-33	11 p.m.-midn't ...	15	24
-29	-29	-28	-29	-29	-29	-26	-26	-30.9	-26	11-12 midnight ...	-34	7-8 p.m. ...	8	25
-3	-3	-1	-2	-2	-2	-1	-1	-8.4	-1	11-12 midnight ...	-25	1 a.m. ...	24	26
-22	-23	-23	-24	-24	-25	-26	-31	-13.6	-1	0 a.m. ...	-31	Midnight ...	30	27
-25	-26	-25	-25	-24	-25	-27	-27	-26.8	-22	3 p.m. ...	-32	4-15 a.m. ...	10	28
-29	-28	-23	-22	-20	-18	-10	-8	-29.4	-10	11 p.m. ...	-39	Noon-1 p.m. ...	29	29
8	8	7	7	7	7	8	10	1.2	10	Midnight ...	-7	2-3 a.m. ...	17	30
-15.0	-15.0	-15.0	-15.1	-14.9	-14.7	-14.6	-14.5	-15.2	-6.8	.....	-23.1	.....	17.5	Mean.

Absolute maximum = 10 at 12 midnight on 30th. Absolute minimum = -39 between noon and 1 p.m. on 29th.

\* 42240—D

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	5	0	-3	-3	-3	-4	-5	-5	-5	-6	-7	-7	-7	-7	-7	-8
2	-15	-15	-15	-17	-19	-20	-20	-20	-23	-24	-24	-25	-19	-20	-24	-21
3	(-39	(-40	-41	(-36	(-31)	-27	(-25	(-24)	-22	(-21	(-19)	-18	(-14	(-10)	-6	(-6
4	(-2	(-4	-6	(-6	(-5)	-5	(-5	(-6)	-6	-7	-9	-10	-11	-11	-12	-13
5	-20	-18	-14	-14	-9	-5	-3	-3	-1	-1	0	1	3	3	4	4
6	5	4	4	4	5	5	5	5	6	6	6	6	6	7	8	(10
7	(23	19)	16	(11	7)	2	(-3	(-9)	-14	(-14	(-14)	-14	(-13	(-13)	-12	(-10
8	(1	2)	4	(3	3)	2	(1	1)	0	(-4	(-7)	-11	-12	-9	-8	-8
9	-24	-24	-24	-25	-25	-26	-23	-21	-20	-19	-19	-19	-20	-22	-21	(-26
10	(-36	(-35)	-34	(-35	(-36)	-37	(-39	(-40)	-42	(-36	(-30)	-24	(-25	(-25)	-26	-25
11	-25	-23	-24	-23	-23	-25	-24	-23	-22	-21	-19	-16	-14	-11	-7	-5
12	0	-3	-2	-2	0	-1	-1	-1	-1	0	0	0	1	1	2	2
13	3	4	4	4	4	4	4	3	4	4	5	8	6	6	10	10
14	15	14	14	14	14	14	14	14	14	14	14	15	14	14	14	14
15	16	15	14	14	15	15	16	16	16	16	17	17	17	17	17	17
16	16	16	16	16	15	15	15	15	14	14	14	14	13	12	11	11
17	10	10	10	10	10	11	11	11	14	15	17	20	18	18	18	18
18	17	17	17	17	17	17	17	17	17	16	16	16	15	15	15	13
19	9	10	10	10	10	10	10	9	9	10	11	12	10	9	8	6
20	1	0	-2	-5	-7	-9	-11	-12	-15	-14	-12	-10	-7	-7	-5	-4
21	-5	-5	-5	-5	-5	-5	-8	-11	-15	-15	-15	-15	-15	-13	-14	-11
22	-8	-8	-7	-7	-8	-10	-11	-12	-14	-16	-19	-20	-22	-25	-27	-27
23	-22	-22	-24	-27	-28	-27	-26	-26	-26	-19	-12	-10	-12	-16	-20	-16
24	-7	-5	-5	-4	-4	-5	-5	-5	-5	-4	-3	1	0	-1	-3	-1
25	10	10	11	10	10	9	9	9	9	9	10	11	8	3	4	3
26	-3	-3	-4	-4	-6	-8	-7	-2	1	3	4	4	5	6	10	11
27	9	9	6	5	5	4	4	4	4	4	7	8	8	8	8	9
28	(12	11)	9	(8	8)	7	(7	6)	6	(6	6)	6	(6	6)	6	(7
29	(4	4)	4	(4	4)	4	(4	3)	3	(3	3)	3	(3	3)	3	(4
30	(15	16)	16	(16	16)	16	(15	14)	13	(14	14)	15	(16	16)	17	(18
31	(14	11)	8	(5	3)	0	(-3	(-6)	-9	(-10	(-10)	-11	-11	-11	-12	-12
Mean.	-0.7	-1.1	-1.5	-2.0	-2.0	-2.5	-2.8	-3.2	-3.5	-3.1	-2.4	-1.7	-1.7	-1.8	-1.6	-1.1

Greatest range, 33 on 7th. Least range, 3 on 14th and 15th.

—HOURLY VALUES—*continued.*

JULY, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Midnight.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
-9	-12	-13	-12	-14	-15	-15	-15	-7.0	10	0 a.m. ...	-15	10 p.m.-midn't ...	25	1
-23	-22	(-25)	(-28)	-32	(-34)	(-36)	-38	-22.8	-15	1-3 a.m. ...	-38	Midnight ...	23	2
(-5)	-4	(-3)	(-3)	-2	(-1)	(-1)	0	-17.3	0	Midnight ...	-41	3 a.m. ...	41	3
-13	-14	-14	-15	-15	-18	-23	-25	-10.1	-4	.....	-25	Midnight ...	21	4
6	6	6	5	5	5	5	5	-1.9	6	5-7 p.m. ...	-25	0 a.m. ...	31	5
12)	14	(16	19)	21	(23	25)	27	9.9	27	Midnight ...	3	3-30 a.m....	24	6
(-9)	-8	(-8	(-8)	-8	(-6	(-3)	-1	-3.1	18	.....	-15	.....	33	7
-7	-7	-9	-14	-20	-22	-23	-25	-6.6	4	3 a.m. ...	-27	11-30 p.m. ...	31	8
(-32)	-37	(-37	(-37)	-37	(-37	(-37)	-37	-26.8	-19	10 a.m.-noon ...	-37	6 p.m.-midnight...	18	9
-25	-25	-25	-26	-27	-27	-27	-27	-30.8	-23	.....	-42	9 a.m. ...	19	10
-5	-5	-5	-4	-3	-3	-2	-2	-14.4	-2	11 p.m.-midn't ...	-28	0-15 a.m....	26	11
2	2	2	2	2	2	3	3	0.4	3	11-12 p.m. ...	-3	2 a.m. ...	6	12
11	11	12	12	12	14	15	16	7.5	16	Midnight ...	3	0 a.m. ...	13	13
15	15	15	15	15	15	16	17	14.5	17	Midnight ...	14	2-11 a.m., 1-4 p.m.	3	14
17	17	16	16	16	16	16	16	16.1	17	11 a.m. to 6 p.m.	14	3-4 a.m. ...	3	15
11	9	8	8	8	7	7	9	12.4	17	0-30 a.m....	7	10-11 p.m. ...	10	16
18	18	18	18	18	18	18	18	15.0	20	Noon ...	9	0 a.m. ...	11	17
12	12	11	10	8	8	8	9	14.2	17	1-9 a.m. ...	8	9-11 p.m. ...	9	18
5	3	2	2	2	2	2	1	7.3	12	Noon ...	1	Midnight ...	11	19
-4	-4	-5	-7	-7	-7	-6	-5	-6.7	1	0-1 a.m. ...	-16	9-30 a.m....	17	20
-10	-9	-9	-8	-8	-8	-9	-9	-9.6	-4	3-40 a.m....	-16	11-20 a.m. ...	12	21
-26	-27	-28	-30	-30	-29	-26	-23	-18.9	-7	3-4 a.m. ...	-30	8-9 p.m. ...	23	22
-13	-11	-11	-10	-10	-9	-9	-8	-17.6	-8	Midnight ...	-28	5 a.m. ...	20	23
-2	-3	-1	2	8	10	10	10	-1.3	10	10-midnight ...	-7	1 a.m. ...	17	24
0	0	0	-2	-2	-2	-3	-3	5.4	11	Noon ...	-3	11-12 p.m. ...	14	25
12	14	13	12	12	11	11	10	4.0	14	6 p.m. ...	-8	6 a.m. ...	22	26
10	10	10	10	10	11	12	14	7.8	14	Midnight ...	4	6-10 a.m. ...	10	27
7)	8	(7	7)	6	(5	5)	4	7.1	14	.....	4	.....	...	28
6)	7	(8	9)	10	(12	13)	15	5.5	15	.....	3	.....	...	29
19)	20	(20	21)	21	(20	18)	17	16.8	21	.....	13	.....	...	30
-12	-15	-17	-16	-17	-15	-15	-15	-6.7	17	.....	-17	.....	...	31
-1.0	-1.2	-1.5	-1.7	-1.9	-1.7	-1.6	-1.4	-1.9	7.1	.....	-10.9	.....	18.6	Mean.

Absolute maximum = 27 at midnight on 6th. Absolute minimum = -42 at 9 a.m. on 10th.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	-15	-15	-15	-15	-13	-14	-13	-13	-13	-13	-12	-12	-9	-5	-4	-3
2	4	5	6	7	7	7	9	9	10	10	11	12	11	11	9	8
3	6	8	9	10	10	10	10	10	9	9	10	12	13	13	13	15
4	20	19	19	18	17	17	17	13	12	13	13	12	11	11	11	11
5	0	-3	-6	-7	-9	-10	-10	-12	-12	-12	-12	-14	-14	-19	-17	-18
6	-32	-32	-37	(-36)	(-34)	-33	(-32)	(-30)	-29	(-26)	(-23)	-20	-22	-24	-29	(-30)
7	(-29)	(-29)	-29	(-30)	(-31)	-32	(-33)	(-33)	-34	(-32)	(-31)	-29	(-27)	(-26)	-24	(-24)
8	(-29)	(-30)	-31	(-33)	(-34)	-36	(-37)	(-39)	-40	(-39)	(-37)	-36	(-36)	(-35)	-35	(-34)
9	-25	-19	-15	-14	-14	-13	-11	-9	0	0	1	2	(4)	(7)	9	(9)
10	(11)	(12)	12	(12)	(13)	13	(13)	(14)	14	14	14	14	15	15	15	12
11	14	14	13	13	13	12	11	11	10	10	11	11	11	11	10	10
12	10	10	11	12	13	13	13	12	13	14	14	14	14	14	14	13
13	13	13	13	12	12	11	10	9	9	9	8	6	5	2	-1	-2
14	-9	-4	-2	-3	-8	-10	-10	-8	-7	-5	-3	1	0	1	3	2
15	10	10	10	12	12	12	13	13	13	12	11	10	9	11	13	13
16	12	12	12	12	12	12	10	6	5	3	2	2	3	3	5	5
17	1	1	1	0	-6	-10	-11	-12	-13	-12	-10	-10	-10	-10	-13	-16
18	-17	-16	-16	-15	-16	-16	-16	-17	-18	-16	-15	-15	-15	-15	-15	-15
19	-16	-16	-16	-17	-17	-17	-16	-16	-18	-18	-18	-18	-17	-18	-20	-20
20	-3	-3	-2	-1	0	1	1	2	2	2	3	4	4	5	5	5
21	2	1	0	-1	-1	0	0	-1	-1	-1	0	0	-1	-1	-1	-3
22	-2	-1	-1	-1	1	2	2	-2	-5	-6	-6	-8	-9	-11	-12	-12
23	-19	-19	-20	-22	-23	-23	-21	-19	-16	-13	-13	-13	-13	-17	-21	-24
24	-31	-31	-30	-29	-28	-27	-26	-25	-23	-23	-22	-22	-20	-19	-19	-17
25	-12	-12	-10	-10	-10	-10	-8	-5	-4	-1	1	1	3	6	6	6
26	9	9	9	9	9	9	9	10	10	10	10	10	10	11	11	11
27	5	3	2	0	0	-2	-2	-2	-1	-1	-2	-3	-3	-4	-3	-3
28	0	0	0	0	0	1	0	0	0	-1	-2	-2	-2	-2	-2	-1
29	-2	-3	-3	-3	-4	-4	-4	-4	-3	-3	-2	-1	1	2	2	1
30	-10	-11	-11	-11	-11	-12	-13	-12	-12	-12	-12	-11	-10	-10	-11	-12
31	-17	-17	-18	-18	-19	-19	-20	-20	-22	-21	-17	-14	-17	-18	-20	-22
Mean.	-4.9	-4.6	-4.7	-4.8	-5.1	-5.3	-5.3	-5.5	-5.3	-4.8	-4.1	-3.8	-3.6	-3.6	-3.9	-4.4

Greatest range, 40 on 9th. Least range, 3 on 28th.

—HOURLY VALUES—*continued.*

AUGUST, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
-2	-1	0	1	1	1	2	4	-8.2	4	Midnight ...	-15	1-3 a.m. ...	19	1
8	8	8	7	5	5	5	5	7.8	12	Noon ...	4	0-1 a.m. ...	8	2
16	17	17	18	18	19	20	21	12.7	21	Midnight ...	5	0 a.m. ...	16	3
11	10	8	4	2	2	2	1	11.8	21	0 a.m. ...	1	Midnight ...	20	4
-20	-21	-23	-25	-28	-29	-28	-29	-15.1	1	0 a.m. ...	-29	Midnight ...	30	5
-30	-31	(-31)	-30	-30	(-30)	(-29)	-29	-29.6	-20	.....	-37	.....	...	6
-23	-23	-24	-25	-24	(-26)	(-28)	-30	-23.1	-22	.....	-35	.....	13	7
-32	-31	(-31)	(-31)	-31	(-30)	(-29)	-28	-33.7	-25	.....	-41	.....	16	8
8	8	( 9	10)	11	( 11	11)	11	-1.2	12	.....	-28	.....	40	9
10	10	11	12	13	13	13	13	12.3	15	.....	9	.....	6	10
10	10	10	10	10	9	9	9	11.0	14	1-2 a.m. ...	9	10-12 p.m. ...	5	11
13	13	13	13	13	12	12	13	12.7	14	10 a.m.-3 p.m. ...	9	0 a.m. ...	5	12
-3	-7	-7	-7	-7	-6	-7	-8	3.7	13	1 a.m.-3 a.m. ...	-9	11-45 p.m. ...	22	13
2	-2	-1	0	1	3	6	10	-2.2	11	11-50 p.m. ...	-10	6-7 a.m. ...	21	14
13	13	13	13	12	12	12	12	11.8	13	7-9 a.m. & 3-8 p.m.	9	1 p.m. ...	4	15
5	5	5	5	4	4	4	3	6.5	12	1-6 a.m. ...	1	11-30 a.m. ...	11	16
-16	-17	-17	-17	-19	-19	-19	-18	-10.9	2	0-15 a.m. ...	-19	9-11 p.m. ...	21	17
-15	-16	-16	-17	-17	-16	-14	-14	-15.8	-14	11 p.m.-midnight	-19	9-15 a.m. ...	5	18
-20	-19	-18	-17	-9	-9	-7	-4	-16.1	-4	Midnight ...	-20	3-5 p.m. ...	16	19
5	5	5	6	6	5	3	2	2.5	6	8 to 9 p.m. ...	-4	0 a.m. ...	10	20
-7	-9	-12	-8	-7	-6	-5	-5	-2.7	2	0-1 a.m. ...	-12	7 p.m. ...	14	21
-12	-13	-14	-15	-14	-17	-18	-19	-7.8	2	6-7 a.m. ...	-19	Midnight ...	21	22
-25	-25	-27	-29	-29	-32	-31	-32	-21.6	-13	10 a.m.-1 p.m. ...	-32	Midnight ...	19	23
-17	-18	-17	-16	-15	-13	-13	-12	-21.8	-12	Midnight ...	-32	0 a.m. ...	20	24
5	5	5	6	7	9	10	9	-0.6	10	11 p.m. ...	-12	0-2 a.m. ...	22	25
10	10	10	9	8	7	7	5	9.3	11	2-4 p.m. ...	4	11-30 p.m. ...	7	26
-3	0	-2	-2	-5	-4	-4	-3	-1.5	3	2 a.m. ...	-7	9-15 p.m. ...	10	27
-2	-2	-2	-2	-2	-2	-2	-2	-1.0	1	6 a.m. ...	-2	6 p.m. to midn't...	3	28
-1	-3	-3	-4	-4	-5	-9	-10	-2.7	2	2 p.m. ...	-10	Midnight ...	12	29
-12	-17	-15	-18	-19	-15	-16	-17	-12.8	-10	1-2 p.m. ...	-19	9 p.m. ...	9	30
-23	-25	-26	-28	-29	-29	-29	-29	-21.3	-14	Noon ...	-29	Midnight ...	15	31
-4.4	-5.4	-5.5	-5.7	-5.7	-5.7	-5.5	-5.5	-4.9	2.2	.....	-12.5	.....	14.6	Mean.

Absolute maximum = 21 at midnight on 3rd. Absolute minimum = -41 around 9 a.m. on 8th.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	-28	-28	-29	-30	-29	-28	-27	-25	-27	-26	-25	-25	-25	-24	-25	-27
2	-34	-33	-38	-38	-37	-38	-35	-30	-28	-28	-24	-22	-21	-21	-21	-21
3	-32	-31	-31	-31	-30	-28	-28	-27	-25	-25	-22	-22	-22	-19	-20	-17
4	-5	-2	-3	-1	-1	-1	0	2	4	4	7	8	8	8	8	7
5	-1	-2	-1	0	0	0	0	0	0	0	0	0	0	0	0	1
6	6	6	6	8	7	8	9	10	11	11	11	10	11	11	11	10
7	9	9	10	11	11	10	10	11	11	11	13	13	13	12	12	13
8	9	12	12	11	11	11	11	11	11	11	12	12	12	11	11	12
9	0	0	0	0	-1	-2	-2	-2	-2	-3	-2	-3	-3	-4	-5	-8
10	-20	-20	-19	-18	-18	-17	-16	-17	-16	-16	-15	-14	-13	-13	-12	-13
11	-9	-9	-7	-6	-5	-5	-4	-2	-1	-1	0	1	1	1	1	1
12	2	2	2	3	3	3	4	4	5	5	5	5	7	8	9	10
13	5	5	6	7	7	8	8	8	9	9	9	10	10	9	7	6
14	1	1	0	1	-1	-2	-3	-3	-4	-4	-4	-4	-4	-4	-4	-5
15	-11	-12	-13	-14	-14	-14	-15	-17	-17	-17	-18	-18	-19	-20	-20	-20
16	(-24	-24)	-24	(-24	-24)	-24	(-21	-18)	-15	(-13	-12)	-10	(-10	-11)	-11	(-14
17	-20	-19	-21	-20	-18	-18	-15	-10	-8	-6	-6	-5	-4	-3	-2	-2
18	-2	-2	-2	-2	-2	-2	-1	-1	-1	1	3	4	4	5	5	6
19	4	5	6	6	6	8	8	8	8	8	8	8	7	5	5	2
20	0	2	4	5	6	7	8	8	8	9	9	9	10	11	13	13
21	15	15	15	14	14	14	13	13	13	11	10	10	10	9	9	6
22	10	9	10	10	10	11	13	14	15	15	16	18	18	18	18	17
23	(17	16)	16	(16	16)	16	(15	15)	14	(14	14)	14	(14	15)	15	(15
24	(14	14)	13	(14	16)	17	(18	19)	20	(20	20)	20	(20	19)	19	(19
25	(19	18)	18	(18	18)	18	(18	17)	17	(17	18)	18	(18	18)	18	(18
26	(14	13)	13	(12	11)	10	(9	9)	8	(7	7)	6	(6	6)	6	(6
27	(11	11)	11	(12	13)	14	(14	14)	14	(15	17)	18	(18	18)	18	(18
28	(19	19)	18	(18	18)	18	(18	19)	19	(18	18)	17	(17	16)	16	(16
29	(16	15)	15	(15	15)	15	(15	15)	15	(14	15)	13	(13	12)	12	(12
30	(12	11	11	11	11	11	10	10)	10	(10	11)	11	(12	12)	13	(13
Mean.	-0.1	0.0	-0.1	0.3	0.4	0.7	1.1	1.8	2.3	2.4	3.1	3.4	3.6	3.5	3.5	3.1

Greatest range, 25 on 3rd. Least range, 3 on 23rd, 28th and 30th.

—HOURLY VALUES—*continued.*

SEPTEMBER, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
-28	-30	-30	-31	-33	-34	-34	-37	-28.4	-24	2 p.m. ....	-38	11.45 p.m. ....	14	1
-24	-27	-27	-28	-29	-32	-32	-32	-29.3	-21	1-4 p.m. ....	-38	3-4 a.m., etc. ....	17	2
-17	-16	-15	-11	-11	-10	-9	-7	-21.6	-7	Midnight ....	-32	0-1 a.m. ....	25	3
6	4	5	3	2	3	1	-2	2.6	8	12 noon-3 p.m....	-7	0.30 a.m....	15	4
0	1	2	2	2	4	4	5	0.6	5	Midnight ....	-2	2 a.m. ....	7	5
9	9	10	10	9	10	9	9	9.1	11	9-11 a.m., 1-3 p.m.	6	1-3 a.m. ....	5	6
12	12	11	10	9	10	10	10	11.0	13	11 a.m.-1 p.m., &c.	8	0.30 a.m....	5	7
8	7	6	6	4	2	2	1	9.2	13	2-15 a.m....	1	Midnight ....	12	8
-12	-14	-16	-17	-19	-20	-18	-20	-6.8	0	1-4 a.m. ....	-20	Midnight ....	20	9
-13	-14	-14	-14	-13	-12	-11	-10	-15.1	-9	11-30 p.m. ....	-20	1-2 a.m. ....	11	10
1	2	2	3	5	4	3	3	-1.2	6	9-15 p.m....	-10	2-15 a.m....	16	11
9	9	8	7	6	6	4	5	5.4	11	4-10 p.m....	2	1-3 a.m. ....	9	12
6	6	6	6	4	3	2	2	6.7	10	Noon-1 p.m. ....	2	11-12 p.m. ....	8	13
-6	-6	-6	-7	-8	-9	-9	-10	-3.9	2	0 a.m. ....	-10	Midnight ....	12	14
-21	-22	-22	-23	-24	-23	-23	-24	-18.1	-10	0.30 a.m....	-24	Midnight ....	14	15
-16	-19	(-21)	(-22)	(-24)	(-24)	(-23)	(-23)	18.8	-9	.....	-27	.....	18	16
-1	-1	-1	-1	-1	-1	-1	-2	-8.2	0	11-30 p.m. ....	-23	0 a.m. ....	23	17
6	7	6	6	7	5	5	4	2.3	7	6 p.m., etc. ....	-2	1-6 a.m. ....	9	18
0	-1	-1	-1	-1	-1	0	0	4.1	8	6 a.m. to noon ...	-2	6-15 p.m....	10	19
13	14	14	15	15	15	16	15	9.7	19	10-50 p.m. ....	0	0-1 a.m. ....	19	20
6	5	2	9	10	11	11	11	10.7	15	0-3 a.m. ....	2	7 p.m. ....	13	21
17	17	16	16	16	16	16	17	14.6	19	2-15 p.m....	8	1-30 a.m....	11	22
15	15	(15)	(16)	16	(16)	(15)	15	15.2	17	.....	14	.....	3	23
19	19	(19)	(19)	19	(19)	(19)	19	18.0	21	.....	13	.....	8	24
18	18	(18)	(18)	18	(17)	(15)	14	17.7	20	.....	14	.....	6	25
7	7	(8)	(9)	10	(10)	(11)	11	9.1	13	3 a.m. ....	5	.....	8	26
19	19	(20)	(20)	21	(21)	(20)	20	16.3	21	9 p.m. ....	11	3 a.m. ....	10	27
17	17	(17)	(17)	17	(17)	(16)	16	17.8	19	9 a.m. ....	16	3 p.m. & midnight	3	28
13	13	(13)	(13)	(12)	(12)	(12)	(12)	13.7	16	.....	7	.....	9	29
12	12	(12)	(12)	(11)	(11)	(10)	(10)	11.2	13	3 p.m. ....	10	9 a.m. ....	3	30
2.5	2.1	1.9	2.1	1.7	1.5	1.4	1.1	1.8	6.9	.....	-4.5	.....	11.4	Mean.

Absolute maximum = 21 at 10 a.m. on 24th. Absolute minimum = -38 at 11.45 p.m. on 1st; 3.0 a.m. on 2nd.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	(-6	-7	-8	-8	-8	-7	-6	-4	-2	0	1)	2	2	2	2	0
10	-6	-6	-10	-8	-6	-2	2	4	5	5	5	6	6	6	7	7
11	1	0	-1	-2	-4	-7	-5	-4	-2	2	5	7	5	6	6	6
12	(8	10)	11	(11	11)	11	(11	11)	11	(11	11)	11	(12	13)	14	(15
13	(23	22)	21	(21	21)	21	(20	19)	18	(18	18)	18	(18	19)	19	(19
14	(18	17)	17	(17	18)	18	(19	20)	21	(20	19)	18	(17	17)	16	(16
15	14	14	16	14	14	14	14	14	11	13	13	13	13	13	13	13
16	9	8	9	8	5	4	0	3	8	10	12	13	12	13	14	13
17	0	0	6	5	6	10	8	10	8	16	16	14	17	17	16	18
18	16	16	15	15	15	15	15	15	15	15	16	15	16	16	16	15
19	(15	15)	15	(15	15)	15	(15	15)	15	(15	15)	15	(15	16)	16	(16
20	(19	18)	18	(18	19)	19	(19	19)	19	(19	19)	19	(19	18)	18	(18
21	(16	16)	17	(17	16)	16	(15	14)	13	(13	13)	13	(13	14)	14	(14
22	12	12	12	11	10	11	11	11	12	13	13	15	16	17	17	15
23	15	15	15	15	14	15	14	15	15	15	14	15	15	15	15	14
24	13	13	14	14	14	14	15	17	20	20	20	20	20	20	20	19
25	12	12	10	10	10	11	11	11	14	15	15	15	15	15	15	12
26	-4	-4	-5	-6	-5	-4	-2	2	2	6	10	12	15	16	17	13
27	-9	-9	-10	-11	-9	-8	-5	-1	1	5	9	12	16	12	15	13
28	-12	-14	-14	-13	-12	-13	-9	-2	3	4	1	2	4	7	7	7
29	(-6	-4)	-3	(-1	1)	3	(6	9)	12	(12	12)	12	(13	15)	16	(15
30	5	4	1	1	1	5	5	4	13	14	15	18	16	16	17	14
31	-6	-11	-15	-14	-15	-13	-6	0	7	14	13	12	16	14	14	14
Mean.	6.4	6.0	5.7	5.6	5.7	6.4	7.3	8.8	10.4	12.0	12.4	12.9	13.5	13.8	14.1	13.7

Greatest range, 35 on 31st. Least range, 1 on 18th.



—HOURLY VALUES—*continued.*

OCTOBER, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.
...	...	...	...	...	...	...	...	...	.....	...	...	1
...	...	...	...	...	...	...	...	...	.....	...	...	2
...	...	...	...	...	...	...	...	...	.....	...	...	3
...	...	...	...	...	...	...	...	...	.....	...	...	4
...	...	...	...	...	...	...	...	...	.....	...	...	5
...	...	...	...	...	...	...	...	...	.....	...	...	6
...	...	...	...	...	...	...	...	...	.....	...	...	7
...	...	...	...	...	...	...	...	...	.....	...	...	8
-1	-3	-4	-4	-4	-4	-4	-5	-3.1	3	-8	11	9
6	6	5	5	5	4	3	2	2.0	7	-10	17	10
5	6	5	4	4	6	7	7	2.3	7	-8	15	11
15)	16	(16	17)	17	(19	22)	24	13.5	24	10	14	12
18)	18	(18	18)	18	(18	18)	18	19.2	25	17	8	13
15)	15	15	15	14	15	15	15	17.0	23	13	10	14
12	12	11	11	10	10	10	11	12.7	17	10	7	15
12	9	7	1	-6	-6	-4	2	6.7	14	-4	18	16
18	16	16	16	16	16	15	15	12.0	18	0	18	17
15	16	15	15	15	15	15	15	15.3	16	15	1	18
16)	16	(16	16)	16	(17	18)	19	15.6	19	15	4	19
17)	17	(17	17)	17	(16	16)	15	18.0	21	15	6	20
15)	15	(14	14)	13	(13	12)	12	14.3	19	12	7	21
15	14	14	13	13	14	13	15	13.3	17	10	7	22
14	14	13	13	13	13	13	13	14.3	15	13	2	23
18	15	15	15	13	12	11	12	16.0	23	11	12	24
9	8	5	2	1	0	-2	-2	9.6	17	-2	19	25
9	5	-1	-3	-5	-7	-9	-9	1.9	18	-10	28	26
8	8	2	-5	-7	-7	-10	-11	0	17	-11	28	27
5	-1	-4	-6	-2	-4	-8	-7	-3.5	7	-15	22	28
13)	12	(10	9)	7	(7	6)	6	7.4	16	-3	19	29
10	15	9	8	2	0	-2	-5	8.0	18	-5	23	30
14	10	6	4	1	-2	-2	-2	2.1	18	-17	35	31
12.1	11.3	9.6	8.5	7.4	7.2	6.7	7.0	9.3	16.5	2.1	14.4	Mean.

Absolute maximum = 25 at 0.30 a.m. on 13th. Absolute minimum = -17 at 3.20 a.m. on 31st.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	-3	-4	-5	-6	-6	-3	-4	-2	1	2	4	10	10	10	9	9
2	2	2	3	2	3	5	7	10	11	12	13	17	19	20	18	18
3	14	12	12	12	11	12	14	14	12	14	15	15	16	17	18	18
4	18	18	18	18	18	17	17	17	20	20	20	20	20	20	20	18
5	-1	-1	-1	0	2	5	10	15	20	21	22	23	22	21	20	19
6	3	3	3	7	9	10	13	16	17	16	16	16	17	18	18	17
7	2	4	4	3	5	5	7	10	12	15	17	20	19	20	19	17
8	-7	-8	-7	-5	-4	-2	2	4	9	13	16	18	17	16	16	15
9	9	9	9	10	10	11	12	13	13	15	16	16	17	17	19	18
10	-1	0	-2	-1	1	3	5	10	15	18	20	23	26	28	30	27
11	9	7	7	8	8	8	10	12	13	16	18	20	19	17	17	15
12	0	0	0	2	5	7	11	14	16	20	22	22	23	23	27	26
13	16	14	15	13	14	15	17	20	23	24	25	27	27	28	27	26
14	(25)	(26)	26	(27)	(27)	28	(28)	(29)	29	(28)	(27)	26	(26)	(26)	26	(26)
15	(26)	(28)	29	(29)	(29)	29	(29)	(29)	29	(28)	(28)	27	27	27	26	24
16	14	14	15	16	16	17	17	18	20	21	22	22	22	24	24	24
17	2	1	1	2	4	5	7	11	12	16	17	19	20	21	22	21
18	-6	-6	-6	-3	0	2	6	10	12	13	14	16	17	18	19	16
19	6	7	6	7	8	9	11	14	16	17	19	20	21	22	22	22
20	13	14	14	15	16	17	19	22	22	23	24	24	24	24	25	25
21	23	23	23	23	23	24	25	25	25	(25)	(26)	26	(26)	(26)	26	(26)
22	(28)	28	28	29	(29)	29	(29)	(29)	29	(29)	(28)	28	(29)	(31)	32	(32)
23	(32)	31	31	31	31)	31	(30)	(30)	29	(28)	(27)	26	(26)	(25)	25	(25)
24	19	18	17	16	17	18	22	25	25	25	26	28	28	28	27	27
25	19	20	21	20	21	22	22	24	27	27	27	28	29	28	29	26
26	5	5	5	9	13	14	16	22	23	26	26	27	27	26	29	27
27	17	16	17	18	19	20	22	24	23	26	27	29	30	32	32	31
28	11	10	7	10	15	18	21	22	25	28	31	32	31	32	34	33
29	30	25	20	25	29	27	28	31	33	34	34	35	34	34	34	34
30	31	31	31	31	32	32	32	32	32	33	33	33	33	34	33	34
Mean.	11.9	11.6	11.4	12.3	13.5	14.5	16.2	18.3	19.8	21.1	22.0	23.1	23.4	23.8	24.1	23.2

Greatest range, 35 on 10th. Least range, 3 on 30th.

—HOURLY VALUES—*continued.*

NOVEMBER, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
9	8	8	8	7	6	6	3	3.1	10	Noon to 2 p.m. ...	—7	3-50 a.m....	17	1
18	17	17	17	17	17	17	15	12.1	20	2 p.m. ...	2	1-2 a.m., etc. ...	18	2
19	19	18	18	19	19	19	17	15.5	20	6:15 p.m....	11	5 a.m. ...	9	3
17	16	14	11	9	5	3	1	16.0	21	3-10 p.m....	1	Midnight	20	4
17	14	13	11	9	7	5	3	11.5	23	Noon ...	—2	2-30 a.m....	25	5
16	14	10	6	5	4	4	3	10.9	18	2-3 p.m. ...	3	0-3 a.m. & midn't	15	6
14	12	8	5	3	0	—4	—7	9.0	21	2-15 p.m....	—7	Midnight	28	7
13	13	10	9	7	10	10	9	6.9	18	Noon ...	—8	2 a.m. ...	26	8
18	17	15	12	8	4	2	1	12.3	19	3 p.m. ...	1	Midnight	18	9
24	21	19	16	11	10	9	8	13.2	32	2-45 p.m....	—3	3-30 a.m....	35	10
14	13	10	5	1	1	0	—1	10.5	22	11-30 a.m. ...	—2	11-45 p.m. ...	24	11
26	26	24	23	22	19	18	17	16.0	29	2-45 p.m....	0	1-2 a.m. ...	29	12
27	25	24	25	24	24	24	25	21.9	29	1-50 p.m....	13	4 a.m. ...	16	13
27	27	(27)	(26)	26	(26)	(25)	25	26.6	31	.....	22	.....	9	14
23	24	20	17	13	12	13	14	24.4	31	.....	12	.....	19	15
21	18	12	9	6	2	0	0	15.9	25	4-10 p.m....	—1	11-30 p.m. ...	26	16
20	16	10	4	3	—1	—3	—7	9.4	24	3-40 p.m....	—8	11-45 p.m. ...	32	17
16	17	13	10	6	6	6	6	8.2	19	3 p.m. ...	—6	1-3 a.m. ...	25	18
20	18	16	15	15	13	14	13	14.5	24	2-30 p.m....	5	1-30 a.m....	19	19
25	24	23	23	24	24	24	24	21.1	26	3-45 p.m....	13	0-1 a.m. ...	13	20
26	26	(26)	(27)	27	(27)	27	(28)	25.3	28	.....	22	.....	6	21
33	33	(33)	(32)	32	(32)	32	(32)	30.2	33	6 p.m. ...	28	Noon ...	5	22
25	25	(25)	(26)	26	24	22	19	27.4	31	6 a.m. ...	19	Midnight	12	23
26	25	24	22	21	20	18	19	22.5	28	Noon-2 p.m. ...	16	4-0 a.m. ...	12	24
24	21	17	15	15	12	9	7	21.5	29	1 p.m. and 3 p.m....	6	11-45 p.m. ...	23	25
23	19	15	12	10	13	17	17	17.5	29	3-0 p.m. ...	5	1-3 a.m. ...	24	26
28	25	22	18	15	11	10	11	21.9	33	3-50 p.m....	10	11 p.m. ...	23	27
32	31	31	30	30	29	31	28	24.7	35	2-35 p.m....	6	2-45 a.m....	29	28
34	34	33	33	33	33	32	31	31.2	36	11-45 a.m. ...	20	3 a.m. ...	16	29
33	32	32	33	32	32	32	31	32.2	34	2-45 p.m....	31	1-4 a.m. ...	3	30
22.3	21.0	19.0	17.3	15.9	14.7	13.0	13.1	17.8	25.9	.....	6.8	.....	19.1	Mean.

Absolute maximum = 36 at 11-45 a.m. on 29th. Absolute minimum = —8 at 2 a.m. on 8th.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	31	30	29	30	30	31	31	32	32	32	32	33	34	34	34	34
2	31	31	32	31	31	31	31	32	32	32	32	33	33	33	33	33
3	26	25	25	26	27	28	28	29	29	29	30	34	34	36	36	39
4	24	22	22	24	26	29	26	30	31	30	30	32	32	33	33	36
5	29	29	30	30	30	30	30	30	31	30	30	30	30	31	31	31
6	31	31	30	30	30	31	31	33	32	32	31	32	32	32	31	31
7	19	18	18	19	20	22	24	27	30	30	30	30	31	31	31	30
8	14	15	16	18	20	23	25	27	28	28	28	29	29	29	29	30
9	11	12	13	14	18	21	24	27	28	28	29	29	29	28	28	28
10	27	28	28	28	29	29	30	30	31	31	31	31	31	32	33	33
11	27	27	27	27	27	28	29	30	31	32	32	32	32	32	32	33
12	18	17	18	17	20	20	25	30	34	34	35	35	33	33	33	35
13	19	18	18	19	20	21	23	26	27	29	29	28	29	29	30	30
14	26	26	26	26	26	26	27	28	28	29	29	29	29	29	30	30
15	15	14	14	16	18	17	19	24	26	27	28	30	31	31	31	31
16	13	11	11	14	17	20	26	22	25	26	27	27	29	30	29	28
17	27	22	22	21	22	25	25	26	27	27	28	27	26	28	30	31
18	10	11	10	12	13	15	20	23	26	29	29	28	29	29	30	33
19	9	9	10	12	14	15	18	21	24	26	26	26	27	29	26	27
20	16	15	16	17	16	16	20	22	26	28	28	30	32	34	32	32
21	8	9	7	10	11	16	22	24	26	24	25	26	27	28	29	29
22	8	8	9	10	11	12	16	20	26	26	28	29	27	28	29	30
23	8	5	6	9	11	15	18	19	26	25	27	28	26	27	29	27
24	9	11	11	9	8	9	12	16	22	23	25	26	28	30	31	29
25	7	6	5	9	11	15	18	23	30	28	31	32	32	34	34	33
26	19	19	19	22	24	23	25	26	28	29	29	29	29	29	29	29
27	16	13	13	14	15	17	19	21	26	30	31	30	30	29	30	29
28	14	14	12	13	14	16	18	20	26	28	30	28	30	29	28	26
29	20	19	19	19	19	20	22	24	25	27	28	31	32	32	32	32
30	25	25	24	24	24	24	24	23	26	28	30	31	34	37	37	33
31	5	5	5	5	6	8	11	13	16	22	26	27	27	27	27	26
Mean.	18.1	17.6	17.6	18.6	19.6	21.2	23.1	25.1	27.6	28.4	29.2	29.7	30.1	30.7	30.9	30.9

Greatest range, 30 on 25th. Least range, 3 on 5th.

—HOURLY VALUES—*continued.*

DECEMBER, 1912.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.
34	34	34	33	32	32	32	31	32.1	34 1-7 p.m. ...	29 3 a.m. ...	5	1
32	32	32	31	29	29	28	26	32.4	33 Noon to 4 p.m. ...	26 Midnight ...	7	2
35	35	30	28	26	24	23	23	29.4	39 4 p.m. ...	23 11 p.m. to midn't	16	3
35	37	30	28	25	27	28	29	29.0	39 5-30 p.m....	21 2-15 p.m....	18	4
32	32	31	31	30	30	30	31	30.3	32 5-6 p.m. ...	29 1-2 a.m. ...	3	5
31	30	30	28	27	25	23	21	30.0	33 8 a.m. ...	21 Midnight ...	12	6
30	28	25	20	17	15	17	15	24.2	31 1-3 p.m. ...	15 10 p.m. & midn't	16	7
30	29	25	20	16	15	13	12	22.9	31 4-15 p.m....	12 Midnight ...	19	8
27	27	27	27	27	27	27	27	24.0	30 12-10 p.m.	11 1 a.m. ...	19	9
32	30	29	29	29	29	29	27	29.8	34 3-40 p.m....	27 Midnight & 1 a.m.	7	10
33	32	30	30	26	22	20	19	28.9	34 4-5 p.m. ...	18 11-50 p.m.	16	11
37	36	31	26	21	18	16	18	26.7	37 5 p.m. ...	16 11 p.m. ...	21	12
29	28	28	26	25	25	25	26	25.1	31 3-30 p.m....	18 2-3 a.m. ...	13	13
30	28	26	24	21	16	13	16	26.0	30 3-5 p.m. ...	13 11 p.m. ...	17	14
31	31	33	29	25	20	19	18	24.0	33 7 p.m. ...	14 2-3 a.m. ...	19	15
27	25	24	24	25	24	23	23	22.8	30 2 p.m. ...	11 2-3 a.m. ...	19	16
28	29	25	26	21	20	16	11	24.8	33 4-30 p.m....	11 Midnight ...	22	17
35	35	33	29	25	20	18	11	23.2	35 5-6 p.m. ...	9 1-45 a.m.	26	18
26	25	27	26	24	24	21	18	21.1	30 2-15 p.m....	9 1-2 a.m. ...	21	19
32	32	30	26	22	17	14	10	23.6	34 2 p.m. ...	10 Midnight ...	24	20
27	27	23	20	18	15	11	8	19.6	30 4-30 p.m....	7 3 a.m. ...	23	21
29	30	29	23	19	15	10	8	20	30 4 p.m. & 6 p.m....	7 1-30 a.m....	23	22
28	30	23	16	12	8	6	9	18.2	30 6 p.m. ...	5 2 a.m. ...	25	23
28	26	22	18	16	13	11	7	18.3	31 3 p.m. ...	6 11-45 p.m.	25	24
34	29	25	22	20	20	19	18	22.1	35 3-40 p.m....	5 3 a.m. ...	30	25
29	28	27	26	25	18	15	15	24.7	30 3-30 p.m....	15 11 p.m.-midnight	15	26
29	29	29	27	25	21	19	15	23.2	32 11-15 a.m.	13 2-3 a.m. ...	19	27
25	25	24	23	23	23	22	21	22.0	30 11 a.m. & 1 p.m....	12 3 a.m. ...	18	28
31	31	30	29	28	28	29	27	26.3	33 3-40 p.m....	19 2-5 a.m. ...	14	29
30	31	29	25	22	17	13	9	26.4	37 2-3 p.m. ...	9 Midnight ...	28	30
26	26	25	21	18	15	14	17	17.3	28 1-30 p.m....	5 1-4 a.m. ...	23	31
30.4	29.9	28.0	25.5	23.2	21.0	19.5	18.3	24.8	32.6	14.4	18.2	Mean.

Absolute maximum = 39 at 5-20 p.m. on 4th. Absolute minimum = 5 at 2-0 a.m. on 23rd; 3-15 p.m. on 25th; 1-30 a.m. on 31st.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	18	18	16	17	18	18	19	19	20	21	21	21	23	25	26	26
2	13	11	10	11	12	12	13	15	19	23	23	25	27	28	29	29
3	16	15	12	12	15	17	17	20	22	23	25	27	29	30	31	32
4	9	9	7	8	11	12	16	19	22	25	28	29	29	28	29	29
5	18	15	16	16	17	17	22	22	25	27	30	31	31	29	29	27
6	21	21	20	20	21	21	22	25	27	29	30	30	31	32	32	32
7	17	16	16	16	16	18	18	21	23	25	26	27	29	30	31	34
8	17	16	13	16	16	14	18	22	25	29	30	34	36	35	35	38
9	16	16	16	18	18	19	23	28	30	31	35	37	37	36	36	35
10	18	17	14	13	13	15	17	18	21	22	25	28	30	32	33	32
11	25	25	25	25	25	24	24	24	25	26	26	27	28	29	29	27
12	25	23	22	22	23	25	26	28	29	29	29	31	35	38	35	31
13	24	24	24	24	25	25	27	27	26	28	33	37	35	33	32	31
14	21	19	17	16	13	16	23	29	34	34	36	38	36	35	34	33
15	29	28	26	26	27	28	30	30	31	31	32	33	34	35	35	35
16	22	20	21	21	21	22	24	28	32	35	36	37	37	36	39	36
17	16	14	14	14	15	16	19	22	24	27	29	31	31	32	33	31
18	21	17	17	15	17	20	21	22	24	28	29	32	32	35	35	34
19	15	16	14	14	16	17	19	23	27	29	30	30	30	29	32	32
20	14	11	11	10	11	12	14	17	21	25	25	25	33	33	33	33
21	20	18	18	17	14	13	15	17	21	25	30	32	32	35	36	34
22	9	8	8	9	10	11	13	17	18	20	23	28	27	27	27	26
23	22	22	22	22	22	23	24	25	26	26	26	27	27	27	29	28
24	13	8	6	6	9	12	15	18	22	23	26	27	30	31	29	32
25	3	3	8	8	10	11	12	17	17	18	21	23	23	25	26	24
26	16	13	12	13	14	13	13	16	19	20	23	24	25	26	27	27
27	5	4	4	5	8	10	13	15	19	21	23	25	25	27	26	24
28	-2	-4	-3	-1	3	7	8	13	15	19	22	23	22	23	23	23
29	21	21	21	22	23	24	25	26	26	27	27	27	29	31	31	31
30	(16	15)	14	(14	15)	15	(17	20)	22	25	26	29	29	31	32	31
31	6	10	12	14	20	22	23	24	26	27	30	32	32	32	32	32
Mean.	16.3	15.1	14.6	14.9	16.1	17.1	19.0	21.5	23.8	25.7	28.3	29.3	30.2	30.8	31.1	30.6

Greatest range, 29 on 24th.. Least range, 5 on 11th..

—HOURLY VALUES—*continued.*

JANUARY, 1913.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid-night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
27	27	26	26	23	20	16	13	21.1	28	6-15 p.m....	13	Midnight	15	1
29	29	29	27	25	22	17	16	20.5	29	2-45 p.m....	9	2-30 a.m....	20	2
35	35	32	28	19	14	11	10	22.1	35	5-6 p.m. ....	10	Midnight	25	3
30	31	30	28	25	22	20	18	21.3	31	6 p.m. ....	6	3-40 a.m....	25	4
26	26	25	25	25	24	23	22	23.6	31	Noon-1 p.m.	14	2-15 a.m....	17	5
34	35	28	27	22	19	20	16	25.8	35	6 p.m. ....	16	Midnight	19	6
33	32	31	29	24	20	18	17	23.6	34	4 p.m. ....	16	0 a.m. ....	18	7
37	36	33	31	27	22	18	16	25.6	38	4 p.m. ....	13	3 a.m. ....	25	8
35	34	31	29	26	24	21	19	27.0	38	12-15 p.m.	13	2-30 a.m....	25	9
30	29	27	24	23	21	21	24	22.7	33	3 p.m. ....	13	4-5 a.m. ....	20	10
27	27	26	26	26	26	26	25	26.0	29	2-3 p.m. ....	24	7-9 a.m. ....	5	11
31	29	28	28	27	26	25	25	27.9	38	2 p.m. ....	22	4 a.m. ....	16	12
32	32	27	27	27	26	25	22	28.1	37	Noon ....	22	Midnight	15	13
32	32	31	32	32	31	30	29	28.3	38	Noon ....	13	5 a.m. ....	25	14
33	32	30	28	29	26	24	23	29.9	36	1-30 p.m....	22	11-30 p.m.	14	15
36	34	31	27	26	23	23	19	28.7	39	3 p.m. ....	19	Midnight	20	16
29	28	25	25	26	24	22	22	23.6	33	3 p.m. ....	14	2-4 a.m. ....	19	17
34	32	29	28	24	23	20	14	25.3	36	2-15 p.m....	14	Midnight	22	18
34	36	31	30	25	24	21	18	24.6	36	6 p.m. ....	12	3-30 a.m....	24	19
33	30	30	26	25	25	25	25	22.7	33	1-4 p.m. ....	10	4 a.m. ....	23	20
33	34	29	28	24	20	18	15	24.3	36	3 p.m. ....	13	6 a.m. ....	23	21
26	26	25	24	23	23	23	22	19.5	28	Noon ....	8	2-3 a.m. ....	20	22
28	28	27	26	25	23	21	19	24.8	29	3 p.m. ....	18	11-30 p.m.	11	23
29	25	19	14	11	6	3	4	17.7	32	4 p.m. ....	3	11 p.m. ....	29	24
23	23	23	22	22	21	20	19	17.3	26	3 p.m. ....	3	1-2 a.m. ....	23	25
25	23	20	14	12	10	7	6	17.7	28	3-45 p.m....	5	11-45 p.m.	23	26
17	13	8	8	8	5	2	1	13.3	27	1-45 p.m....	1	Midnight	26	27
20	19	18	15	13	17	18	20	13.4	23	2-3 p.m. ....	-4	2 a.m. ....	27	28
31	32	(28	25)	21	(20	18)	17	(25.2)	32	6 p.m. ....	17	Midnight	15	29
29	26	22	19	15	12	10	7	(20.7)	32	2-40 p.m.	7	Midnight	25	30
30	29	26	27	27	26	25	24	24.2	33	2-15 a.m.	6	1 a.m. ....	27	31
29.9	29.2	26.6	24.9	22.8	20.8	19.1	17.6	23.1	32.7	.....	12.0	.....	20.7	Mean.

Absolute maximum = 39 at 3 p.m. on 16th. Absolute minimum = -4 at 2 a.m. on 28th.

## AUSTRALASIAN ANTARCTIC EXPEDITION.

Table II.—AIR TEMPERATURE

"THE GROTTOS," QUEEN MARY LAND.

STATED IN

Date.	1 a.m.	2 a.m.	3 a.m.	4 a.m.	5 a.m.	6 a.m.	7 a.m.	8 a.m.	9 a.m.	10 a.m.	11 a.m.	Noon.	1 p.m.	2 p.m.	3 p.m.	4 p.m.
1	24	22	17	15	15	14	19	22	24	26	27	27	29	31	32	32
2	9	9	8	8	8	8	10	14	16	20	24	30	30	32	31	35
3	15	9	5	5	6	5	12	18	24	26	28	31	31	31	32	31
4	26	25	25	25	25	25	26	27	26	26	26	26	26	27	27	27
5	24	24	24	24	25	26	25	26	29	28	29	30	30	30	30	30
6	21	20	19	19	21	22	23	25	26	25	26	26	26	27	27	27
7	18	18	18	18	17	19	20	21	23	23	24	25	25	26	27	26
8	14	14	14	16	16	18	18	19	20	22	23	25	26	26	27	27
9	22	22	21	19	19	19	19	19	21	22	22	23	24	26	29	29
10	7	3	3	5	5	5	7	12	15	18	19	20	21	21	21	21
11	9	10	11	11	11	11	12	13	15	16	16	16	16	16	17	17
12	-1	-2	-1	-2	0	1	3	8	12	14	15	16	16	19	19	21
13	(25	25	25	25	24	24	24	24)	24	(25	26)	27	(27	27)	27	(26
14	(20	20	20	21	21	22	22	23)	24	22	23	26	25	27	27	25
15	1	-2	-1	-1	-1	3	6	10	14	19	22	25	25	25	25	25
16	10	11	12	12	13	18	20	22	25	27	29	31	31	32	31	30
Mean.	15.2	14.2	13.8	13.8	14.1	15.0	16.6	18.9	21.1	22.4	23.7	25.2	25.5	26.4	26.8	26.8

Greatest range, 29 on 12th. Least range, 3 on 4th.



—HOURLY VALUES—*continued.*

FEBRUARY, 1913.

DEGREES FAHRENHEIT.

5 p.m.	6 p.m.	7 p.m.	8 p.m.	9 p.m.	10 p.m.	11 p.m.	Mid- night.	Hourly mean.	Maximum.	Minimum.	Range.	Date.		
29	28	23	18	16	11	12	10	22.1	32	3-4 p.m. ...	10	Midnight	22	1
31	29	28	24	19	18	17	16	19.6	35	4 p.m. ...	7	3-30 a.m....	28	2
30	30	29	30	29	28	27	27	22.2	33	3-49 p.m....	5	3-4 a.m. ...	28	3
27	26	26	26	26	26	25	24	26.0	27	2-5 p.m., etc.	24	Midnight	3	4
29	28	27	26	24	23	22	22	26.5	31	2-30 p.m....	22	11 p.m. & midn't...	9	5
26	26	24	23	22	20	19	18	23.3	27	2-4 p.m. ...	18	Midnight	9	6
26	26	23	19	13	12	13	12	20.6	28	3-20 p.m....	11	10-30 p.m. ...	17	7
26	26	25	24	23	23	23	23	21.3	27	3-4 p.m. ...	12	0-30 a.m....	15	8
29	29	24	19	14	12	11	11	21.3	30	3-45 p.m....	10	11-50 p.m. ...	20	9
21	23	18	14	10	7	11	7	13.2	23	6 p.m. ...	2	2-10 a.m....	21	10
17	17	16	15	14	9	3	0	13.0	17	3-6 p.m. ...	0	Midnight	17	11
22	22	23	24	26	25	25	25	13.2	27	9-30 p.m. ...	-2	4 a.m. ...	29	12
23	21	(20)	(19)	18	(18)	19	19	(23.5)	29	.....	18	.....	11	13
22	19	14	11	10	8	6	1	(19.5)	28	.....	1	.....	27	14
24	22	22	20	20	16	14	10	14.1	25	Noon to 4 p.m. ...	-2	2 a.m. ...	27	15
31	32	30	27	26	26	24	24	23.6	33	2-15 p.m....	10	1 a.m. ...	23	16
25.8	25.2	23.2	21.2	19.4	17.6	16.9	15.6	20.2	28.2	.....	9.1	.....	19.1	Mean.

Absolute maximum = 35 at 4 p.m. on 2nd. Absolute minimum = -2 at 4 a.m. on 12th.

Table III.—WIND DIRECTION—WIND VELOCITY.

"THE GROTTOS," QUEEN MARY LAND.

APRIL, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	...	m.p.h.	...	m.p.h.	...	m.p.h.	...	m.p.h.	...	m.p.h.	...	m.p.h.	...	m.p.h.	...	m.p.h.
2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	E.S.E.	42	...	...	E.S.E.	15	...	...	E.S.E.	15	...	...
7	...	...	...	...	E.S.E.	28	...	...	E.	28	...	...	E.	28	...	...
8	...	...	...	...	E.	42	...	...	E.	42	...	...	E.	28	...	...
9	...	...	...	...	E.	5	...	...	E.	5	...	...	E.	5	...	...
10	...	...	...	...	E.	5	...	...	E.	2	...	...	E.S.E.	2	...	...
11	...	...	...	...	E.S.E.	10	...	...	E.S.E.	10	...	...	E.S.E.	15	...	...
12	...	...	...	...	E.S.E.	15	...	...	E.S.E.	15	...	...	E.S.E.	28	...	...
13	...	...	...	...	E.S.E.	42	...	...	E.S.E.	42	...	...	E.S.E.	42	...	...
14	...	...	...	...	E.S.E.	28	...	...	E.S.E.	28	...	...	E.S.E.	21	...	...
15	...	...	...	...	E.S.E.	10	...	...	E.S.E.	5	...	...	E.S.E.	2	...	...
16	...	...	...	...	E.S.E.	2	...	...	E.S.E.	2	...	...	E.S.E.	2	...	...
17	...	...	...	...	E.S.E.	1	...	...	E.S.E.	1	...	...	E.S.E.	1	...	...
18	...	...	...	...	E.S.E.	5	...	...	E.S.E.	5	...	...	E.S.E.	5	...	...
19	...	...	...	...	E.S.E.	5	...	...	E.	5	...	...	E.	5	...	...
20	...	...	...	...	E.	5	...	...	E.	5	...	...	E.S.E.	5	...	...
21	...	...	...	...	E.S.E.	10	...	...	E.S.E.	10	...	...	E.S.E.	10	...	...
22	...	...	...	...	E.S.E.	10	...	E.S.E.	10	...	E.S.E.	10	E.S.E.	10	E.S.E.	10
23	E.S.E.	5	S.E.	2	S.E.	2	S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	10
24	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	10	E.S.E.	10	E.S.E.	10
25	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	21	E.S.E.	21	E.S.E.	21
26	E.S.E.	15	E.S.E.	8	E.S.E.	3	E.S.E.	10	E.	5	E.	10	E.	10	E.S.E.	35
27	E.S.E.	35	E.S.E.	35	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21
28	E.S.E.	5	E.S.E.	5	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	15	E.S.E.	15	E.S.E.	15
29	E.S.E.	5	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	E.S.E.	2	E.S.E.	2
30	E.S.E.	2	C.	0	C.	0	C.	0	C.	0	S.E.	2	S.E.	2	S.E.	2
Mean.	...	...	...	...	...	13.6	...	...	...	12.5	...	...	...	12.4	...	...

"THE GROTTOS," QUEEN MARY LAND.

MAY, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	W.	m.p.h.	W.	m.p.h.	W.	m.p.h.	E.S.E.	m.p.h.	E.S.E.	m.p.h.	E.S.E.	m.p.h.	E.S.E.	m.p.h.	E.S.E.	m.p.h.
2	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	5	E.S.E.	10	E.S.E.	15	E.S.E.	28	E.S.E.	28
3	E.S.E.	15	E.S.E.	28	E.	21	E.	10	E.	15	E.	21	E.S.E.	21	E.S.E.	21
4	W.	10	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10
5	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
6	E.S.E.	5	E.	10	E.	10	E.	10	E.	10	E.	10	E.	10	E.	15
7	E.	10	E.	10	E.	10	E.	15	E.	15	E.S.E.	15	E.S.E.	21	E.S.E.	28
8	E.S.E.	35	E.S.E.	10	E.	10	E.	10	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21
9	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	28	E.S.E.	28	E.S.E.	35
10	E.S.E.	35	E.S.E.	35	E.	28	E.	15	E.	10	E.	10	E.	10	E.S.E.	35
11	W.	2	W.	2	W.	2	C.	0	C.	0	C.	0	E.S.E.	2	E.S.E.	2
12	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	10	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
13	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
14	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	15	E.S.E.	15	E.S.E.	15
15	E.S.E.	15	E.	5	E.	15	E.	15	E.	15	E.	15	E.	10	E.S.E.	10
16	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5
17	E.	2	E.	2	E.	2	E.	2	E.S.E.	5	E.S.E.	2	E.S.E.	2	W.	2
18	N.W.	2	N.W.	2	N.W.	5	N.W.	5	N.W.	10	N.W.	10	N.W.	5	N.W.	2
19	N.W.	2	N.W.	2	W.	2	W.	5	W.	5	W.	10	W.	10	W.	10
20	W.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	5	S.E.	5	S.E.	5
21	S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15
22	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	35	S.E.	35	S.E.	42	S.E.	42
23	S.E.	42	S.E.	35	S.E.	35	S.E.	35	E.S.E.	42	E.S.E.	78	E.S.E.	78	E.S.E.	78
24	E.S.E.	78	E.S.E.	69	E.S.E.	69	E.S.E.	69	E.S.E.	78	E.S.E.	59	E.S.E.	42	E.S.E.	42
25	E.S.E.	42	E.S.E.	28	E.	15	E.	15	E.	15	E.	15	E.	15	E.	15
26	E.	5	E.	2	E.	2	E.	1	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
27	E.S.E.	5	E.S.E.	5	S.E.	5	S.E.	5	S.E.	2	S.E.	2	S.E.	2	S.E.	2
28	S.E.	2	S.E.	2	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
29	E.S.E.	1	E.S.E.	1	C.	0	C.	0	C.	0	C.	0	C.	0	C.	0
30	C.	0	C.	0	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
31	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	W.S.W.	5	W.S.W.	5	W.S.W.	5
Mean.	...	13.7	...	12.3	...	11.9	...	11.2	...	12.5	...	14.2	...	14.2	...	14.2

C. denotes calm.

Table III.—WIND DIRECTION—WIND VELOCITY—continued.  
 "THE GROTTOS," QUEEN MARY LAND. JUNE, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	W.S.W.	5	W.S.W.	5	W.S.W.	5
2	W.S.W.	1	W.S.W.	1	W.S.W.	1	W.S.W.	1	W.S.W.	2	W.S.W.	2	W.S.W.	2	W.S.W.	2
3	W.S.W.	2	S.E.	2	S.E.	2	S.E.	10	S.E.	15	S.E.	15	S.E.	15	S.E.	21
4	S.E.	21	S.E.	21	S.E.	21	S.E.	28	S.E.	28	S.E.	28	S.E.	28	S.E.	15
5	S.E.	5	S.E.	5	S.E.	5	S.E.	5	E.S.E.	5	E.S.E.	3	E.S.E.	3	E.S.E.	3
6	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
7	E.S.E.	5	E.S.E.	5	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10
8	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7
9	S.E.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	10	S.E.	10
10	S.E.	10	S.E.	5	S.E.	5	S.E.	5	S.E.	3	S.E.	3	S.E.	3	S.E.	5
11	S.E.	5	S.E.	5	S.E.	5	S.E.	5	S.E.	5	S.E.	10	S.E.	10	S.E.	10
12	S.E.	10	S.S.E.	10	S.S.E.	10	S.S.E.	10	S.S.E.	15	S.S.E.	15	S.S.E.	15	S.S.E.	5
13	C.	0	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3
14	S.E.	2	S.E.	2	S.E.	1	S.E.	1	S.E.	1	S.E.	1	S.E.	1	S.E.	1
15	S.E.	1	S.E.	1	S.E.	1	S.E.	5	S.E.	5	S.E.	10	S.E.	10	S.E.	15
16	S.E.	21	S.E.	21	S.E.	15	S.E.	10	S.E.	15	S.E.	15	S.E.	15	S.E.	37
17	S.E.	49	S.E.	49	S.E.	10	S.E.	2	S.E.	1	S.E.	1	S.E.	1	S.E.	1
18	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	5	E.S.E.	5	S.E.	5
19	S.E.	10	S.E.	10	S.E.	10	S.E.	7	S.E.	8	E.S.E.	8	E.S.E.	8	E.S.E.	8
20	E.S.E.	8	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
21	E.S.E.	3	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	2	E.S.E.	2	E.S.E.	2
22	E.S.E.	1	E.S.E.	1	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	42
23	E.S.E.	42	E.S.E.	35	E.S.E.	5	E.S.E.	1	S.W.	3	S.W.	3	S.W.	3	S.E.	3
24	S.E.	10	S.E.	21	S.E.	21	S.E.	5	S.E.	5	S.E.	10	S.E.	1	S.E.	1
25	E.S.E.	1	E.S.E.	5	E.S.E.	5	E.S.E.	15	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	13
26	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	3	E.S.E.	1
27	W.	5	W.	5	W.	5	W.	5	W.	1	C.	0	C.	0	C.	0
28	C.	0	C.	0	C.	0	E.S.E.	2	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
29	W.	2	W.	5	W.	5	W.	10	S.E.	10	S.E.	10	S.E.	13	S.E.	28
30	S.E.	21	S.E.	21	S.E.	21	S.E.	21	S.E.	13	S.E.	13	S.E.	13	S.E.	13
Mean.	...	9.3	...	9.6	...	7.5	...	7.2	...	7.4	...	7.8	...	7.4	...	9.2

"THE GROTTOS," QUEEN MARY LAND. JULY, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	W.	3	W.	3	W.	3	W.	3	N.N.W.	10	N.N.W.	5	N.N.W.	2	N.N.W.	1
2	N.N.W.	1	N.W.	1	N.W.	3	N.W.	3	S.S.E.	13	S.S.E.	3	S.S.E.	13	S.S.E.	13
3	S.S.E.	13	S.S.E.	51	S.S.E.	51	S.S.E.	51	S.S.E.	69	S.S.E.	69	S.S.E.	51	S.S.E.	51
4	S.S.E.	35	S.S.E.	10	S.E.	5	S.E.	5	S.E.	5	S.E.	3	S.E.	3	S.E.	10
5	S.E.	10	E.S.E.	10	E.S.E.	42	E.S.E.	35	E.S.E.	35	E.S.E.	35	E.S.E.	51	E.S.E.	51
6	E.S.E.	78	E.S.E.	69	E.S.E.	51	E.S.E.	51	E.S.E.	51	E.S.E.	21	E.S.E.	35	E.S.E.	35
7	E.S.E.	21	E.S.E.	3	N.	3	N.	3	N.	3	N.	3	N.W.	3	N.W.	3
8	N.W.	3	N.W.	3	S.W.	13	S.W.	13	S.W.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
9	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
10	E.S.E.	3	S.E.	3	S.E.	1	S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
11	E.S.E.	1	E.S.E.	1	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	13	E.S.E.	13
12	E.S.E.	15	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	28
13	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28
14	E.	28	E.	28	E.	28	E.	21	E.	21	E.	21	E.	21	E.	21
15	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	13
16	E.	7	E.	7	E.	7	E.	7	E.	13	E.	13	E.	7	E.	7
17	E.	7	E.	7	E.S.E.	7	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	7	E.S.E.	7
18	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	13	E.S.E.	13	E.S.E.	7	E.S.E.	7	E.S.E.	7
19	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	S.E.	7	S.E.	7	S.E.	7	S.E.	7
20	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3
21	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3
22	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	1	S.E.	1
23	S.E.	1	S.E.	1	S.S.E.	1	S.S.E.	1	S.S.E.	10	S.E.	21	S.E.	21	S.E.	35
24	S.E.	35	S.E.	35	S.E.	21	S.S.E.	21	S.E.	7	S.E.	7	W.	3	W.	3
25	C.	0	C.	0	W.	3	W.	3	S.E.	10	S.E.	21	S.E.	28	S.E.	28
26	S.E.	15	S.E.	15	S.E.	15	S.E.	15	S.E.	21	S.E.	35	S.E.	35	S.E.	35
27	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	35	S.E.	35	S.E.	35
28	S.E.	69	S.E.	69	S.E.	35	S.E.	21	S.E.	69	S.E.	35	S.E.	21	S.E.	3
29	S.E.	3	S.E.	13	S.E.	3	S.E.	3	S.E.	13	S.E.	13	S.E.	28	S.E.	35
30	S.E.	35	S.E.	35	S.E.	35	S.E.	38	S.E.	38	S.E.	28	S.E.	21	S.E.	15
31	S.E.	10	S.E.	5	S.E.	2	S.E.	2	S.E.	2	S.E.	7	S.E.	7	S.E.	7
Mean.	...	15.5	...	15.5	...	14.5	...	14.7	...	17.2	...	16.1	...	16.4	...	16.3

C. denotes calm.

Table III.—WIND DIRECTION—WIND VELOCITY—*continued.*

“THE GROTTOS,” QUEEN MARY LAND.

AUGUST, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	S.E.	7	S.E.	3	S.E.	3	S.E.	3	S.E.	3	E.	7	E.	13	E.	18
2	E.	15	E.	15	E.	15	S.S.E.	15	S.S.E.	18	S.S.E.	18	S.S.E.	18	S.S.E.	18
3	S.S.E.	18	E.	3	S.E.	10	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	13
4	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	13	S.E.	3
5	S.E.	3	S.E.	3	S.E.	3	S.E.	3	S.E.	1	S.E.	1	S.E.	1	S.E.	1
6	S.E.	1	S.E.	1	S.E.	1	S.E.	1	S.E.	1	N.W.	1	N.W.	1	C.	0
7	C.	0	E.S.E.	1	E.S.E.	2	E.S.E.	2	S.W.	2	S.W.	2	S.W.	2	S.W.	2
8	S.W.	2	S.W.	2	E.S.E.	2	E.S.E.	5	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	18
9	E.S.E.	18	E.	21	E.	21	E.	28	E.	28	E.	31	E.	31	E.	31
10	E.	28	E.	28	E.	28	E.	28	E.	15	E.	15	E.	15	E.	15
11	E.	15	E.	15	E.	15	E.	21	E.	21	E.	21	E.	28	E.	28
12	E.	28	E.	28	E.	42	E.	42	E.	28	E.	21	E.	21	E.	15
13	E.	5	E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
14	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	7	E.S.E.	7	E.S.E.	5	E.S.E.	5	E.S.E.	15
15	E.S.E.	15	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21	E.S.E.	21
16	E.S.E.	21	E.S.E.	21	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	5
17	E.S.E.	2	E.S.E.	2	E.S.E.	2	C.	0	C.	0	E.S.E.	2	E.S.E.	5	E.S.E.	5
18	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
19	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	2	E.S.E.	2	E.S.E.	10	E.S.E.	13	E.S.E.	13
20	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	10	E.S.E.	18
21	E.S.E.	18	E.S.E.	10	E.S.E.	7	E.S.E.	5	E.S.E.	2	E.S.E.	2	C.	0	E.S.E.	2
22	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	5
23	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
24	E.S.E.	2	S.E.	2	S.E.	2	S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2
25	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	10	E.S.E.	15	E.S.E.	15	E.S.E.	21
26	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.	10	E.	10	E.	10	E.	10	E.	5
27	E.	5	E.	5	E.	5	E.	5	S.E.	5	S.E.	5	S.E.	5	S.E.	2
28	S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	15
29	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	15	E.S.E.	10	E.S.E.	10
30	E.S.E.	10	E.S.E.	5	E.S.E.	5	C.	0	E.S.E.	1	E.S.E.	5	E.S.E.	5	E.S.E.	5
31	E.S.E.	5	E.S.E.	2	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
Mean.	...	9.3	...	8.6	...	8.6	...	8.9	...	8.6	...	9.2	...	9.9	...	10.3

“THE GROTTOS,” QUEEN MARY LAND.

SEPTEMBER, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	C.	0	C.	0	C.	0	C.	0
2	C.	0	C.	0	C.	0	E.S.E.	2	W.	2	W.	2	W.	2	E.S.E.	2
3	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	S.	2	S.	5	S.	5	E.S.E.	5
4	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	15
5	E.S.E.	10	E.S.E.	5	E.S.E.	15	E.S.E.	28	E.S.E.	35	E.S.E.	35	E.S.E.	42	E.S.E.	28
6	E.S.E.	28	E.S.E.	28	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15
7	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	7	E.S.E.	7	E.S.E.	7
8	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	3	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	5
9	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5
10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	28
11	E.S.E.	28	E.S.E.	35	E.S.E.	42	E.S.E.	42	E.S.E.	15	E.S.E.	15	E.S.E.	21	E.S.E.	21
12	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	35	E.S.E.	42	E.S.E.	28	E.S.E.	28
13	E.S.E.	28	E.S.E.	21	E.S.E.	21	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	10	E.S.E.	10
14	E.S.E.	10	E.S.E.	5	E.S.E.	5	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	C.	0
15	C.	0	E.S.E.	2	E.S.E.	2	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
16	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	7	E.S.E.	7	E.S.E.	21
17	E.S.E.	21	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	3
18	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	5	E.S.E.	15	E.S.E.	15
19	E.S.E.	5	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	7	E.S.E.	13	E.S.E.	18	E.S.E.	18
20	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7
21	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7
22	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	13	E.S.E.	3	E.S.E.	8	E.S.E.	8	E.S.E.	13
23	E.S.E.	13	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	18
24	E.S.E.	18	E.S.E.	18	E.S.E.	10	E.S.E.	10	E.S.E.	28	E.S.E.	42	E.S.E.	69	E.S.E.	42
25	E.S.E.	28	E.S.E.	15	E.S.E.	13	E.S.E.	13	E.S.E.	13	E.S.E.	18	E.S.E.	13	E.S.E.	5
26	E.S.E.	2	E.S.E.	2	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	2
27	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	5
28	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	2	E.S.E.	2	E.S.E.	2
29†	E.S.E.	2	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	7	E.S.E.	10	C.	0	C.	0
80	C.	0	C.	0	E.S.E.	7	E.S.E.	3	E.S.E.	3	E.S.E.	7	C.	0	C.	0
Mean.	...	9.8	...	8.5	...	8.8	...	9.0	...	8.7	...	10.6	...	11.0	...	11.0

C. denotes calm.

† From September 29th to October 8th, sledging on sea-ice 20-30 miles S.W. of Hut.

Table III.—WIND DIRECTION—WIND VELOCITY—continued.  
 "THE GROTTOS," QUEEN MARY LAND. OCTOBER, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.
1	...	...	E.S.E.	13	E.S.E.	13	E.S.E.	7	E.S.E.	13	C.	0	...	...	...	...
2	...	...	E.S.E.	7	E.S.E.	7	E.S.E.	3	E.S.E.	1	E.S.E.	1	...	...	...	...
3	...	...	E.S.E.	7	E.S.E.	7	E.S.E.	3	E.S.E.	3	E.S.E.	3	...	...	...	...
4	...	...	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	1	E.S.E.	1	...	...	...	...
5	...	...	E.S.E.	1	E.S.E.	1	W.	1	W.	1	W.	1	...	...	...	...
6	...	...	W.	1	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	7	...	...	...	...
7*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
8*	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10	E.S.E.	5	E.S.E.	10	E.S.E.	15	E.S.E.	25	E.S.E.	25	E.S.E.	26	E.S.E.	21	E.S.E.	21
11	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	28	E.S.E.	35	E.S.E.	35	E.S.E.	42	E.S.E.	42
12	E.S.E.	42	E.S.E.	42	E.S.E.	59	E.S.E.	69	E.S.E.	42	E.S.E.	28	E.S.E.	7	E.S.E.	10
13	E.S.E.	10	E.S.E.	10	E.S.E.	25	E.S.E.	42	E.S.E.	55	E.S.E.	51	E.S.E.	55	E.S.E.	59
14	E.S.E.	28	E.S.E.	42	E.S.E.	42	E.S.E.	47	S.S.E.	42	S.S.E.	25	S.S.E.	25	S.S.E.	25
15	S.S.E.	25	S.S.E.	21	S.S.E.	10	S.S.E.	7	S.S.E.	7	S.S.E.	3	S.S.E.	3	E.S.E.	1
16	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
17	E.S.E.	1	E.S.E.	5	E.S.E.	21	E.S.E.	35	E.S.E.	35	E.S.E.	42	E.S.E.	42	E.S.E.	47
18	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	47
19	E.S.E.	47	E.S.E.	47	E.S.E.	51	E.S.E.	51	E.S.E.	51	E.S.E.	51	E.S.E.	51	E.S.E.	51
20	E.S.E.	42	E.S.E.	42	E.S.E.	42	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25
21	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	25	E.S.E.	21	E.S.E.	35	E.S.E.	35	E.S.E.	35
22	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	21	E.S.E.	21	E.S.E.	10	E.S.E.	5	E.S.E.	5
23	E.S.E.	21	E.S.E.	21	E.S.E.	28	E.S.E.	39	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.S.E.	35
24	E.S.E.	35	E.S.E.	35	E.S.E.	35	E.S.E.	35	E.S.E.	35	S.E.	21	S.E.	39	S.E.	39
25	S.E.	28	S.E.	28	S.E.	21	S.E.	21	S.E.	10	S.E.	7	S.E.	3	E.S.E.	2
26	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	1	E.S.E.	1
27	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
28	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	2
29	E.S.E.	5	E.S.E.	5	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	E.S.E.	5
30	E.S.E.	2	E.S.E.	2	E.S.E.	2	C.	0	C.	0	C.	0	C.	0	C.	0
31	W.	1	W.	2	W.	3	W.	3	W.	3	W.	3	W.	2	E.S.E.	2
Mean.	...	17.1	...	15.7	...	17.9	...	19.8	...	18.7	...	16.8	...	20.8	...	20.8

"THE GROTTOS," QUEEN MARY LAND. NOVEMBER, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.		m.p.h.
1	E.S.E.	3	E.S.E.	3	E.S.E.	2	C.	0	E.S.E.	3	E.S.E.	3	E.S.E.	1	E.S.E.	1
2	E.S.E.	1	E.S.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	10
3	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	13	E.S.E.	13	E.S.E.	15	E.S.E.	35
4	E.S.E.	35	E.S.E.	42	E.S.E.	47	E.S.E.	47	E.S.E.	47	E.	42	E.	28	E.	28
5	E.	15	E.	10	E.	3	E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3
6	E.S.E.	3	E.S.E.	3	E.S.E.	7	E.S.E.	3	E.S.E.	3	E.S.E.	1	C.	0	C.	0
7	C.	0	C.	0	C.	0	C.	0	E.S.E.	1	E.S.E.	1	E.S.E.	1	C.	0
8	C.	0	C.	0	E.S.E.	3	E.S.E.	7	E.S.E.	7	E.S.E.	3	E.S.E.	7	E.S.E.	7
9	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	7	E.S.E.	3	E.S.E.	3
10	C.	0	C.	0	C.	0	S.W.	2	S.W.	2	S.W.	2	W.	2	W.	2
11	W.	2	E.S.E.	2	W.N.W.	2	S.W.	3	S.W.	2	S.W.	2	E.S.E.	2	E.S.E.	2
12	E.S.E.	2	E.S.E.	2	E.S.E.	2	C.	0	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	5
13	E.S.E.	5	E.S.E.	10	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15
14	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	28	E.S.E.	15	E.S.E.	15	E.S.E.	15
15	E.S.E.	15	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	3	S.E.	1	S.E.	1	S.E.	3
16	S.E.	5	S.E.	5	S.E.	5	S.E.	10	S.E.	10	C.	0	C.	0	E.S.E.	2
17	E.S.E.	2	C.	0	S.E.	2	S.	2	S.	2	S.	2	E.S.E.	2	E.S.E.	2
18	E.S.E.	2	E.S.E.	2	E.S.E.	7	E.S.E.	7	S.E.	3	S.E.	2	S.E.	2	S.E.	2
19	S.E.	3	S.E.	3	S.E.	3	S.E.	2	S.E.	1	S.E.	2	S.E.	2	E.S.E.	2
20	E.S.E.	2	E.S.E.	7	E.S.E.	7	E.S.E.	10	E.S.E.	15	E.S.E.	21	E.S.E.	21	E.S.E.	21
21	E.S.E.	28	E.	28	E.	28	E.	31	E.	31	E.	25	E.	31	E.	31
22	E.	47	E.	47	E.	55	E.	59	E.	35	E.	25	E.	25	F.	21
23	E.	21	E.	21	E.	21	E.	21	E.	19	E.	19	E.S.E.	13	E.S.E.	3
24	E.S.E.	2	E.S.E.	3	E.S.E.	3	S.E.	5	S.E.	5	S.E.	2	S.E.	2	S.E.	2
25	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2	S.E.	2
26	S.E.	2	S.E.	2	S.E.	5	S.E.	5	S.E.	5	S.E.	5	S.S.E.	2	S.S.E.	2
27	S.S.E.	2	S.S.E.	2	S.S.E.	2	S.S.E.	2	S.S.E.	2	S.	1	S.	1	S.	1
28	C.	0	C.	0	S.	1	S.	1	S.	1	S.	2	S.E.	2	S.E.	2
29	S.E.	2	S.E.	3	S.E.	3	S.E.	3	S.E.	13	S.E.	13	S.E.	15	S.E.	21
30	S.E.	15	S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	15	E.S.E.	13	E.S.E.	13
Mean.	...	8.7	...	8.9	...	9.9	...	10.4	...	10.0	...	8.4	...	7.9	...	8.5

C. denotes calm. \* Sledging on sea ice 20-30 miles S.W. of Hut until October 9th.

Table III.—WIND DIRECTION—WIND VELOCITY—continued.

"THE GROTTOS," QUEEN MARY LAND.

DECEMBER, 1912.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	E.S.E.	13	E.S.E.	10	E.S.E.	10	E.S.E.	7	E.	7	E.	7	E.	7	E.	7
2	E.	7	E.	13	E.	13	E.	7	E.	7	E.	7	E.	7	E.	7
3	...	...	...	...	E.	3	E.	2	C.	0	S.	2	S.	2	...	...
4	...	...	...	...	S.	2	S.W.	1	S.W.	2	S.W.	1	S.	2	...	...
5	...	...	...	...	S.E.	13	S.E.	13	S.E.	10	S.E.	10	E.	5	...	...
6	...	...	...	...	E.S.E.	7	E.S.E.	10	E.S.E.	10	E.S.E.	7	S.E.	5	...	...
7	...	...	...	...	E.S.E.	1	C.	0	C.	0	C.	0	C.	0	...	...
8	...	...	...	...	E.S.E.	3	E.S.E.	3	E.S.E.	3	E.S.E.	3	C.	0	...	...
9	...	...	...	...	E.S.E.	3	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	...	...
10	...	...	...	...	E.S.E.	3	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	5	...	...
11	...	...	...	...	E.	3	E.	3	S.E.	2	S.E.	2	S.E.	2	...	...
12	...	...	...	...	S.S.E.	1	S.S.E.	1	S.S.E.	1	S.S.E.	1	S.S.E.	1	...	...
13	...	...	...	...	S.E.	1	E.	2	E.	2	E.	2	E.S.E.	2	...	...
14	...	...	...	...	E.S.E.	13	E.S.E.	10	E.	5	E.	2	E.S.E.	2	...	...
15	...	...	...	...	S.	2	S.	2	S.S.E.	1	E.	1	S.	1	...	...
16	...	...	...	...	W.S.W.	2	W.S.W.	1	W.S.W.	1	W.S.W.	1	W.	2	...	...
17	...	...	...	...	W.S.W.	3	W.	5	W.	2	W.	2	W.	2	...	...
18	...	...	...	...	S.W.	3	S.	3	S.	3	S.	1	S.W.	1	...	...
19	...	...	...	...	E.S.E.	2	E.S.E.	1	C.	0	E.S.E.	2	E.S.E.	1	...	...
20	...	...	...	...	E.S.E.	2	C.	0	C.	0	C.	0	S.	2	...	...
21	...	...	...	...	E.S.E.	5	E.S.E.	5	E.S.E.	5	E.S.E.	2	S.S.E.	2	...	...
22	...	...	...	...	S.	2	W.	1	W.	1	W.	1	W.S.W.	2	...	...
23	...	...	...	...	E.	2	W.	1	W.	1	C.	0	E.	2	...	...
24	...	...	...	...	E.	1	E.	3	E.	1	E.S.E.	2	S.S.E.	3	...	...
25	...	...	...	...	E.S.E.	1	C.	0	C.	0	E.S.E.	2	E.S.E.	5	...	...
26	...	...	...	...	E.S.E.	15	S.E.	15	E.S.E.	10	E.S.E.	7	E.S.E.	2	...	...
27	...	...	...	...	S.S.E.	2	S.	2	W.	3	W.	3	W.	2	...	...
28	...	...	...	...	S.W.	2	W.N.W.	2	E.S.E.	3	E.S.E.	3	S.E.	5	...	...
29	...	...	...	...	S.E.	2	S.E.	1	S.E.	2	S.E.	1	S.E.	1	E.S.E.	1
30	E.S.E.	2	E.S.E.	10	E.S.E.	10	E.S.E.	2	W.	1	W.	1	S.W.	2	...	...
31	...	...	...	...	E.S.E.	1	N.E.	2	E.S.E.	2	E.S.E.	2	E.S.E.	3	...	...
Mean.	...	...	...	...	...	4.3	...	3.7	...	3.1	...	2.7	...	2.7	...	...

"THE GROTTOS," QUEEN MARY LAND.

JANUARY, 1913.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	...	m.p.h.	...	m.p.h.	E.S.E.	25	E.S.E.	21	E.S.E.	15	E.S.E.	2	S.	2	...	...
2	...	...	...	...	W.	2	W.	7	W.	10	W.	10	S.W.	5	...	...
3	...	...	...	...	S.W.	2	S.S.W.	1	S.S.W.	1	C.	0	S.E.	2	...	...
4	...	...	...	...	E.S.E.	5	E.S.E.	7	E.S.E.	15	E.	2	S.E.	2	...	...
5	...	...	...	...	E.S.E.	7	E.S.E.	10	E.S.E.	15	E.S.E.	15	E.S.E.	10	...	...
6	...	...	...	...	E.S.E.	10	E.	10	E.S.E.	5	E.S.E.	5	S.E.	2	...	...
7	...	...	...	...	S.E.	7	E.S.E.	2	S.	1	S.S.E.	3	S.E.	5	...	...
8	...	...	...	...	W.	1	C.	0	S.W.	2	C.	0	C.	0	...	...
9	...	...	...	...	C.	0	S.	2	W.	2	W.	3	W.	3	W.	3
10	...	...	...	...	E.	5	E.	3	E.S.E.	2	E.S.E.	2	E.S.E.	5	E.S.E.	7
11	...	...	...	...	E.S.E.	25	E.S.E.	15	E.S.E.	10	E.S.E.	5	E.S.E.	10	E.S.E.	...
12	...	...	...	...	E.S.E.	2	E.S.E.	1	C.	0	S.W.	1	S.W.	2	...	...
13	...	...	...	...	S.S.E.	2	C.	0	S.S.W.	2	S.W.	2	S.W.	2	...	...
14	...	...	...	...	S.W.	1	S.W.	1	S.W.	2	S.W.	3	S.S.E.	5	...	...
15	...	...	...	...	S.E.	5	S.E.	5	S.E.	3	S.E.	3	S.E.	3	S.E.	3
16	...	...	...	...	S.S.E.	2	S.E.	1	E.S.E.	5	E.S.E.	5	E.S.E.	7	...	...
17	...	...	...	...	E.S.E.	7	E.S.E.	5	E.S.E.	5	S.E.	2	S.E.	2	...	...
18	...	...	...	...	S.F.	2	S.E.	1	S.W.	2	W.	1	S.W.	1	S.E.	2
19	...	...	...	...	E.S.E.	5	E.S.E.	5	E.S.E.	1	C.	0	S.	2	...	...
20	...	...	...	...	C.	0	C.	0	C.	0	C.	0	S.	1	S.S.E.	3
21	...	...	...	...	E.S.E.	1	E.S.E.	1	E.S.E.	2	C.	0	S.W.	1	N.	2
22	...	...	...	...	E.S.E.	3	E.	2	E.S.E.	1	E.S.E.	1	E.S.E.	1	E.S.E.	1
23	...	...	...	...	E.S.E.	5	E.S.E.	5	E.S.E.	2	E.S.E.	2	E.S.E.	2	...	...
24	...	...	...	...	E.S.E.	1	W.	1	C.	0	E.S.E.	1	S.E.	2	...	...
25	...	...	...	...	S.E.	5	S.E.	3	S.E.	3	S.E.	3	S.E.	2	...	...
26	...	...	...	...	S.E.	5	S.E.	5	S.F.	2	S.E.	2	S.S.E.	2	...	...
27	...	...	...	...	S.E.	2	S.E.	2	S.E.	2	S.E.	1	C.	0	...	...
28	...	...	...	...	S.E.	2	S.E.	5	S.E.	7	S.E.	7	E.S.E.	10	E.S.E.	10
29	...	...	...	...	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	5	S.	3	...	...
30	...	...	...	...	S.F.	2	S.E.	2	S.E.	2	S.E.	2	E.S.E.	5	...	...
31	...	...	...	...	E.S.E.	5	E.S.E.	10	E.S.E.	10	E.S.E.	10	E.S.E.	10	...	...
Mean.	...	...	...	...	...	5.0	...	4.9	...	4.5	...	3.2	...	3.5	...	...

C. denotes calm.

Table III.—WIND DIRECTION—WIND VELOCITY—*continued*  
 "THE GROTTOS," QUEEN MARY LAND. FEBRUARY, 1913.

Date.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.	
	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	...	m.p.h.	...	m.p.h.	S.S.E.	5	S.S.E.	5	S.S.E.	2	S.S.E.	2	S.S.E.	2	...	...
2	...	...	...	...	S.S.E.	2	C.	0	S.S.E.	1	W.S.W.	2	W.	1	...	...
3	...	...	...	...	E.S.E.	2	E.S.E.	7	S.E.	10	E.S.E.	10	C.	0	...	...
4	...	...	...	...	E.S.E.	18	E.S.E.	15	S.E.	15	S.E.	15	E.S.E.	15	...	...
5	...	...	...	...	S.E.	15	S.E.	15	S.E.	10	S.E.	10	S.E.	10	...	...
6	...	...	...	...	E.S.E.	5	E.S.E.	2	E.S.E.	2	S.E.	2	S.E.	2	...	...
7	...	...	...	...	E.S.E.	13	E.S.E.	5	E.S.E.	5	S.E.	2	S.E.	5	...	...
8	...	...	...	...	S.E.	5	S.E.	5	S.E.	7	S.E.	2	S.E.	10	...	...
9	...	...	...	...	S.E.	5	C.	0	C.	0	S.	1	N.W.	2	...	...
10	...	...	...	...	S.E.	5	S.E.	5	N.N.E.	2	C.	0	C.	0	...	...
11	...	...	...	...	E.S.E.	10	E.S.E.	10	E.S.E.	18	S.E.	5	S.E.	2	...	...
12	...	...	...	...	E.S.E.	10	E.S.E.	10	E.S.E.	15	E.S.E.	28	E.S.E.	47	...	...
13	...	...	...	...	E.S.E.	42	E.S.E.	35	E.S.E.	35	E.S.E.	35	E.S.E.	28	...	...
14	...	...	...	...	S.E.	5	S.E.	5	S.E.	2	S.E.	2	C.	0	...	...
15	...	...	...	...	E.S.E.	5	E.S.E.	10	E.S.E.	10	S.E.	5	S.E.	2	...	...
16	...	...	...	...	E.S.E.	5	E.S.E.	5	E.S.E.	10	S.E.	5	S.E.	5	...	...
17	...	...	...	...	E.S.E.	3	E.S.E.	5	E.S.E.	5	S.E.	5	S.E.	5	...	...
18	...	...	...	...	S.E.	5	S.E.	10	S.E.	10	E.S.E.	10	E.S.E.	10	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Mean.	...	...	...	...	...	8-9	...	8-3	...	8-9	...	8-2	...	8-2	...	...

C. denotes calm.

Table IV.—WIND DIRECTION—WIND VELOCITY.

Percentage Frequency and Mean Velocity of each Direction.

“THE GROTTOS,” QUEEN MARY LAND.

APRIL, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	16	14.2	...	...	16	14.2	...	...	28	13.1	...	...	20	15.2	...	...	21.3	13.1	East.
E.S.E.	73	15.5	...	...	73	15.5	...	...	64	13.7	...	...	76	12.2	...	...	71.0	12.2	E.S.E.
S.E.	7	2.0	...	...	7	2.0	...	...	4	2.0	...	...	4	2.0	...	...	5.0	2.0	S.E.
S.S.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	4	0	...	...	4	0	...	...	4	0	...	...	0	0	...	...	2.7	0	Calm.

Percentage Frequency and Mean Velocity of each Direction.

“THE GROTTOS,” QUEEN MARY LAND.

MAY, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	10	5.7	16	6.0	29	12.6	29	10.3	20	13.3	16	14.2	13	11.2	7	15.0	17.5	11.5	East.
E.S.E.	55	18.8	56	17.3	42	14.9	46	14.5	58	15.6	59	16.4	65	16.0	68	16.3	56.1	16.3	E.S.E.
S.E.	13	15.2	13	12.2	13	13.0	13	13.0	10	4.7	10	14.0	10	16.3	10	16.3	11.5	13.4	S.E.
S.S.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.W.
W.S.W.	0	0	0	0	0	0	0	0	0	0	3	5.0	3	5.0	3	5.0	1.1	5.0	W.S.W.
West	13	6.0	6	2.0	10	2.0	3	5.0	3	5.0	3	10.0	3	10.0	6	6.0	5.9	6.0	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	6	2.0	6	2.0	3	5.0	3	5.0	3	10.0	3	10.0	3	5.0	3	2.0	3.8	2.0	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	3	0	3	0	3	0	6	0	6	0	6	0	3	0	3	0	4.1	0	Calm.



Table IV.—WIND DIRECTION—WIND VELOCITY—continued.

Percentage Frequency and Mean Velocity of each Direction.

THE GROTTOS, QUEEN MARY LAND.

JUNE, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	East.
E.S.E.	34	9.3	34	8.9	35	7.3	38	7.4	38	7.2	40	6.7	40	6.3	37	8.6	37.0	6.5	E.S.E.
S.E.	46	12.5	50	11.9	50	8.8	50	7.9	50	8.3	44	9.9	44	9.6	50	11.2	48.0	9.6	S.E.
S.S.E.	0	...	3	10.0	3	10.0	3	10.0	3	15.0	3	15.0	3	15.0	3	5.0	2.7	11.4	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	0	...	3	3.0	3	3.0	3	3.0	0	...	1.1	3.0	S.W.
W.S.W.	7	1.5	3	1.0	3	1.0	3	1.0	3	2.0	7	3.5	7	3.5	7	3.5	5.0	3.0	W.S.W.
West	7	3.5	7	5.0	6	5.0	6	7.5	3	1.0	0	...	0	...	0	...	3.6	5.2	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	6	0	3	0	3	0	0	0	0	0	3	0	3	0	3	0	2.6	0	Calm.

Percentage Frequency and Mean Velocity of each Direction.

THE GROTTOS, QUEEN MARY LAND.

JULY, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
North	0	0	0	0	3	3.0	3	3.0	3	3.0	3	3.0	0	0	0	0	1.5	3.0	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	10	14.0	10	14.0	6	17.5	6	14.0	7	17.0	6	17.0	7	14.0	6	14.0	7.2	14.0	East.
E.S.E.	32	18.4	32	17.4	33	19.8	32	20.3	32	19.7	37	14.9	36	17.6	36	17.2	33.8	16.6	E.S.E.
S.E.	40	16.7	39	16.5	39	11.6	39	10.7	42	14.9	45	15.8	42	16.4	43	16.7	41.1	14.9	S.E.
S.S.E.	6	24.0	6	30.5	7	26.0	7	26.0	10	30.6	6	36.0	6	32.0	6	32.0	6.7	30.6	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	3	13.0	3	13.0	3	3.0	0	...	0	...	0	...	1.1	9.7	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	3	3.0	3	3.0	3	3.0	7	3.0	0	0	0	0	3	3.0	3	3.0	2.8	3.0	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	3	3.0	7	2.0	3	3.0	3	3.0	0	0	0	0	3	3.0	3	3.0	2.8	2.0	N.W.
N.N.W.	3	1.0	0	...	0	...	0	...	3	10.0	3	5.0	3	2.0	3	1.0	1.9	3.8	N.N.W.
Calm	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1.1	0	Calm.

Table IV.—WIND DIRECTION—WIND VELOCITY—continued.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

AUGUST, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North...
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	19	16.0	26	14.6	19	21.0	19	22.3	16	20.4	19	17.5	19	19.7	19	18.7	19.5	14.6	East.
E.S.E.	56	8.6	55	7.0	62	5.6	53	6.1	56	6.4	58	7.0	56	8.1	58	9.4	56.7	5.6	E.S.E.
S.E.	16	5.2	16	4.4	19	5.3	19	5.8	19	6.0	14	8.0	13	5.5	14	4.7	16.2	5.7	S.E.
S.S.E.	3	18.0	0	...	0	...	3	15.0	3	18.0	3	18.0	3	18.0	3	18.0	2.3	17.5	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	3	2.0	3	2.0	0	0	0	0	3	2.0	3	2.0	3	2.0	3	2.0	2.3	2.0	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	3	1.0	3	1.0	0	...	0.7	1.0	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	3	0	0	0	0	0	6	0	3	0	0	0	3	0	3	0	2.3	0	Calm.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

SEPTEMBER, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	East.
E.S.E.	90	10.9	93	9.1	97	8.8	100	9.0	91	9.9	91	11.5	84	12.9	86	12.7	91.5	9.0	E.S.E.
S.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.E.
S.S.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.E.
South	0	...	0	...	0	...	0	...	3	2.0	3	5.0	3	5.0	0	...	1.1	4.0	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	0	...	0	...	0	...	0	...	3	2.0	3	2.0	3	2.0	0	...	1.1	2.0	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	10	0	7	0	3	0	0	0	3	0	3	0	10	0	14	0	6.3	0	Calm.

Table IV.—WIND DIRECTION—WIND VELOCITY—continued.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

OCTOBER, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	East.
E.S.E.	86	17.9	85	16.4	88	18.6	81	22.7	78	20.8	72	20.3	74	22.8	88	19.7	81.5	19.2	E.S.E.
S.E.	4	28.0	4	28.0	4	21.0	4	21.0	4	10.0	7	14.0	9	21.0	4	39.0	5.0	21.0	S.E.
S.S.E.	5	25.0	4	21.0	4	10.0	4	7.0	7	24.5	7	14.0	9	14.0	4	25.0	5.5	14.0	S.S.E.
South	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	5	1.0	7	1.5	4	3.0	7	2.0	7	2.0	7	2.0	4	2.0	0	0	5.1	1.9	West.
W.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	0	0	0	0	0	0	4	0	4	0	7	0	4	0	4	0	2.9	0	Calm.

\* Sledging on sea ice 20 to 30 miles south-west of hut from 1st to 9th.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

NOVEMBER, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	North.
N.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.E.
N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.E.
E.N.E.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	E.N.E.
East	10	27.7	14	26.5	14	26.7	14	28.5	10	28.3	14	27.7	10	28.0	10	26.7	12.0	27.3	East.
E.S.E.	50	9.7	46	9.6	50	11.0	40	13.4	50	11.3	43	8.2	50	8.2	53	8.7	47.8	8.7	E.S.E.
S.E.	20	4.8	20	5.0	20	3.3	20	4.5	24	5.6	23	3.9	24	3.7	21	5.3	21.5	4.4	S.E.
S.S.E.	3	2.0	3	2.0	3	2.0	3	2.0	3	2.0	0	...	3	2.0	3	2.0	2.6	2.0	S.S.E.
South	0	...	0	...	3	1.0	7	1.5	6	1.5	10	1.7	3	1.0	3	1.0	4.0	1.7	South.
S.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	S.S.W.
S.W.	0	...	0	...	0	...	6	2.5	7	2.0	7	2.0	0	...	0	...	2.5	2.2	S.W.
W.S.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	W.S.W.
West	3	2.0	0	0	0	0	0	0	0	0	0	0	3	2.0	3	2.0	1.1	2.0	West.
W.N.W.	0	...	0	...	3	2.0	0	...	0	...	0	...	0	...	0	...	0.4	2.0	W.N.W.
N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.W.
N.N.W.	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	0	...	N.N.W.
Calm	14	0	17	0	7	0	10	0	0	0	3	0	7	0	7	0	8.1	0	Calm.

Table IV.—WIND DIRECTION—WIND VELOCITY—continued.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

DECEMBER, 1912.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	North.
N.N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.N.E.
N.E.	...	...	...	...	0	...	3	2.0	0	...	0	...	0	...	...	...	0.6	2.0	N.E.
E.N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E.N.E.
East	...	...	...	...	16	4.4	16	3.4	16	4.4	16	3.8	13	5.2	...	...	15.4	4.0	East.
E.S.E.	...	...	...	...	46	5.4	29	5.3	26	5.4	36	3.6	26	3.1	...	...	32.6	5.4	E.S.E.
S.E.	...	...	...	...	10	5.3	10	9.7	10	4.7	10	4.3	13	3.2	...	...	10.6	3.2	S.E.
S.S.E.	...	...	...	...	6	1.5	3	1.0	6	1.0	3	1.0	10	2.0	...	...	5.6	2.0	S.S.E.
South	...	...	...	...	10	2.0	10	2.3	3	3.0	6	1.5	13	1.7	...	...	8.4	1.7	South.
S.S.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S.S.W.
S.W.	...	...	...	...	6	2.5	3	1.0	3	2.0	3	1.0	6	1.5	...	...	4.2	2.0	S.W.
W.S.W.	...	...	...	...	6	2.5	3	1.0	3	1.0	3	1.0	3	2.0	...	...	3.6	2.5	W.S.W.
West	...	...	...	...	0	0	10	2.3	16	1.6	13	1.7	10	2.0	...	...	9.8	1.6	West.
W.N.W.	...	...	...	...	0	...	3	2.0	0	...	0	...	0	...	...	...	0.6	2.0	W.N.W.
N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.W.
N.N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.N.W.
Calm	...	...	...	...	0	0	10	0	17	0	10	0	6	0	...	...	8.6	0	Calm.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

JANUARY, 1913.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction.
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	North.
N.N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.N.E.
N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.E.
E.N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E.N.E.
East	...	...	...	...	3	5.0	10	5.0	0	...	3	2.0	0	...	...	...	3.2	5.0	East.
E.S.E.	...	...	...	...	46	7.9	39	7.7	46	7.0	35	4.8	30	6.7	...	...	39.2	7.5	E.S.E.
S.E.	...	...	...	...	26	3.8	26	3.0	19	3.2	23	2.9	26	2.5	...	...	24.0	3.1	S.E.
S.S.E.	...	...	...	...	7	2.0	0	0	0	...	3	3.0	6	3.5	...	...	3.2	2.8	S.S.E.
South	...	...	...	...	0	...	3	2.0	3	1.0	0	...	13	2.0	...	...	3.8	2.0	South.
S.S.W.	...	...	...	...	0	...	3	1.0	6	1.5	0	...	0	...	...	...	1.8	1.5	S.S.W.
S.W.	...	...	...	...	6	1.5	3	1.0	10	2.0	10	2.0	16	2.2	...	...	9.0	2.2	S.W.
W.S.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W.S.W.
West	...	...	...	...	6	1.5	6	4.0	6	6.0	10	4.7	3	3.0	...	...	6.2	4.7	West.
W.N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W.N.W.
N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.W.
N.N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.N.W.
Calm	...	...	...	...	6	0	10	0	10	0	16	0	6	0	...	...	9.6	0	Calm.

Table IV.—WIND DIRECTION—WIND VELOCITY—continued.

Percentage Frequency and Mean Velocity of each Direction.

"THE GROTTOS," QUEEN MARY LAND.

FEBRUARY, 1913.

Direction.	3 a.m.		6 a.m.		9 a.m.		Noon.		3 p.m.		6 p.m.		9 p.m.		Midnight.		Mean.		Direction
	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency.	Mean Velocity.	Frequency, whole day.	Average Velocity of greatest Frequency.	
	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	%	m.p.h.	
North	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	North.
N.N.E.	...	...	...	...	0	0	0	0	6	20	0	0	0	0	...	...	1-2	2-0	N.N.E.
N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.E.
E.N.E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	E.N.E.
East	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	East.
E.S.E.	...	...	...	...	56	11-3	55	10-4	44	12-5	21	20-7	22	25-0	...	...	39-6	10-9	E.S.E.
S.E.	...	...	...	...	33	6-7	28	8-0	33	9-0	56	5-3	44	5-1	...	...	38-8	5-3	S.E.
S.S.E.	...	...	...	...	11	3-5	6	5-0	11	1-5	6	2-0	6	2-0	...	...	8-0	2-5	S.S.E.
South	...	...	...	...	0	...	0	...	0	...	5	1-0	0	...	...	...	1-0	1-0	South.
S.S.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S.S.W.
S.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S.W.
W.S.W.	...	...	...	...	0	...	0	...	0	...	6	2-0	0	...	...	...	1-2	2-0	W.S.W.
West	...	...	...	...	0	...	0	...	0	...	0	...	6	1-0	...	...	1-2	1-0	West.
W.N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W.N.W.
N.W.	...	...	...	...	0	...	0	...	0	...	0	...	6	2-0	...	...	1-2	2-0	N.W.
N.N.W.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	N.N.W.
Calm....	...	...	...	...	0	0	11	0	6	0	6	0	16	0	...	...	7-8	0	Calm.

18 days observations from 1st to 18th.

Table V.—WIND DIRECTION—

Percentage Frequency and Mean

MONTHLY

"THE GROTTOS," QUEEN MARY LAND.

Month.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.
1913.												
January .....	...	...	...	...	...	...	E.S.E.	46	7.9	E.S.E.	39	7.7
February .....	...	...	...	...	...	...	E.S.E.	56	11.3	E.S.E.	55	10.4
March .....	...	...	...	...	...	...	...	...	...	...	...	...
1912.												
April .....	...	...	...	...	...	...	E.S.E.	73	15.5	...	...	...
May .....	E.S.E.	55	18.8	E.S.E.	56	17.3	E.S.E.	42	14.9	E.S.E.	46	14.5
June.....	S.E.	46	12.5	S.E.	50	11.9	S.E.	50	8.8	S.E.	50	7.9
July .....	S.E.	40	16.7	S.E.	39	16.5	S.E.	39	11.6	S.E.	39	10.7
August .....	E.S.E.	56	8.6	E.S.E.	55	7.0	E.S.E.	62	5.6	E.S.E.	53	6.1
September .....	E.S.E.	90	10.9	E.S.E.	93	9.1	E.S.E.	97	8.8	E.S.E.	100	9.0
October .....	E.S.E.	86	17.9	E.S.E.	85	16.4	E.S.E.	88	18.6	E.S.E.	81	22.7
November .....	E.S.E.	50	9.7	E.S.E.	46	9.6	E.S.E.	50	11.0	E.S.E.	40	13.4
December .....	...	...	...	...	...	...	E.S.E.	46	5.4	E.S.E.	29	5.3

**WIND VELOCITY.**

*Velocity for each Direction.*

**SUMMARY.**

YEARS 1912-13.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Day.			Month.
Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity, m.p.h.	Greatest Frequency.	Percentage of Total.	Mean Velocity of Greatest Frequency.	
E.S.E.	46	7.0	E.S.E.	35	4.8	E.S.E.	30	6.7	...	...	...	E.S.E.	39.2	m.p.h. 7.5	1913. January.
E.S.E.	44	12.5	S.E.	56	5.3	S.E.	44	5.1	...	...	...	E.S.E.	39.6	10.9	February.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	March.
E.S.E.	64	13.7	...	...	...	E.S.E.	76	12.2	...	...	...	E.S.E.	71.0	12.2	1912. April.
E.S.E.	58	15.8	E.S.E.	59	16.4	E.S.E.	65	16.0	E.S.E.	68	16.3	E.S.E.	56.1	16.3	May.
S.E.	50	8.3	S.E.	44	9.9	S.E.	44	9.6	S.E.	50	11.2	S.E.	48.0	9.6	June.
S.E.	42	14.9	S.E.	45	15.8	S.E.	42	16.4	S.E.	43	16.7	S.E.	41.1	14.9	July.
E.S.E.	56	6.4	E.S.E.	58	7.0	E.S.E.	56	8.1	E.S.E.	58	9.4	E.S.E.	56.7	5.6	August.
E.S.E.	91	9.9	E.S.E.	91	11.5	E.S.E.	84	12.9	E.S.E.	86	12.7	E.S.E.	91.5	9.0	September.
E.S.E.	78	20.8	E.S.E.	72	20.3	E.S.E.	74	22.8	E.S.E.	88	19.7	E.S.E.	81.5	19.2	October.
E.S.E.	50	11.3	E.S.E.	43	8.2	E.S.E.	50	8.2	E.S.E.	53	8.7	E.S.E.	47.8	8.7	November.
E.S.E.	26	5.4	E.S.E.	36	3.6	E.S.E.	26	3.1	...	...	...	E.S.E.	32.6	5.4	December.

Table VI.—CLOUD TYPE,

"THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	3	Ci.-Cu.	St.	8	...	Cu.
2	...	...	...	...	...	...	10	...	...	5	Ci.	St.
3	...	...	...	...	...	...	...	...	...	7	Ci.	...
4	...	...	...	...	...	...	...	Ci.	...	...	...	...
5	...	...	...	...	...	...	...	Ci.-Cu.	...	...	...	...
6	...	...	...	...	...	...	...	...	...	0	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	3	...	Cu.	3	...	Cu.	2	...	Cu.	2	...	Cu.
9	6	Ci.-St.	...	4	Ci.-St.	...	10	Ci.-St.	Cu.	10	Ci.-St.	Cu.
10	4	Ci.-St.	...	4	Ci.-St.	...	4	Ci.-St.	...	3	Ci.	...
11	3	Ci.	St.	3	Ci.	...	3	Ci.	...	3	Ci.	...
12	...	...	...	10	...	...	10	...	...	10	...	...
13	2	...	St.	2	...	St.	2	...	St.	2	...	St.
14	...	...	...	4	Ci.	...	3	Ci.	...	3	Ci.	...
15	2	...	St.	2	...	St.	2	...	St.	0	...	...
16	0	...	...	0	...	...	0	...	...	0	...	...
17	...	...	...	...	...	...	4	Ci.	St.	4	Ci.	St.
18	0	...	...	0	...	...	0	...	...	0	...	...
19	...	...	...	...	...	...	2	...	St.	...	...	...
20	10	...	...	10	...	...	10	...	...	10	...	...
21	10	...	...	8	...	...	8	...	...	10	...	...
22	10	...	St.	10	...	St.	10	...	St.	10	...	St.
23	10	...	St.	10	...	St.	10	...	St.	10	...	St.
24	10	...	St.	10	...	St.	10	...	St.	10	...	St.
25	10	...	St.	10	...	St.	10	...	St.	10	...	St.
26	...	...	Fr.-St., Cu.	0	...	...	0	...	...	0	...	...
27	...	...	...	...	...	...	...	...	...	1	...	St.
28	0	...	...	0	...	...	0	...	...	0	...	...
29	0	...	...	0	...	...	0	...	...	0	...	...
30	4	Ci.	...	...	...	...	10	...	Cu.	10	...	Cu.
31	10	...	St.	10	...	St.	10	...	St.	10	...	St.
Mean.	5.2	...	...	5.0	...	...	5.3	...	...	5.1	...	...



DIRECTION AND AMOUNT.

MAY, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
...	Ci.-Cu.	...	...	...	...	...	...	...	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	2
7	Ci.	...	6	Ci.	...	6	Ci.	...	6	Ci.	...	3
...	Ci.	St.	...	...	...	...	...	...	...	...	...	4
...	...	...	...	Ci.-Cu.	...	...	Ci.	...	...	...	...	5
0	...	...	0	...	...	0	...	...	0	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
10	Ci.-St.	...	10	Ci.-St.	...	8	Ci.-St.	...	8	Ci.-St.	...	8
8	Ci.-St.	Cu.	8	Ci.-St.	Cu.	8	Ci.-St.	Cu.	6	Ci.-St.	Cu.	9
...	...	...	...	...	...	...	...	...	...	...	...	10
3	Ci.	...	3	Ci.	...	3	Ci.	...	3	Ci.	...	11
10	...	...	10	...	...	10	...	...	10	...	...	12
2	...	St.	2	...	St.	2	...	St.	...	...	...	13
2	Ci.	...	2	Ci.	...	2	Ci.	...	...	...	...	14
1	...	St.	1	...	St.	...	...	...	0	...	...	15
0	...	...	0	...	...	0	...	...	0	...	...	16
6	Ci.	St.	2	Ci.	...	2	...	St.	2	...	St.	17
0	...	...	0	...	...	0	...	...	0	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	19
10	...	...	10	...	...	10	...	...	10	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
10	...	...	10	...	...	10	...	...	10	...	...	22
10	...	St.	10	...	St.	10	...	St.	10	...	St.	23
10	...	St.	10	...	St.	10	...	St.	10	...	St.	24
10	...	St.	10	...	St.	10	...	St.	10	...	St.	25
0	...	...	0	...	...	0	...	...	0	...	...	26
2	...	Cu.-St.	1	...	Cu.	0	...	...	0	...	...	27
0	...	...	0	...	...	0	...	...	0	...	...	28
0	...	...	0	...	...	0	...	...	0	...	...	29
10	...	Cu.	10	...	Cu.	10	...	Cu.	10	...	Cu.	30
8	Ci.	...	8	Ci.	...	6	Ci.	...	...	...	...	31
5-4	...	...	5-1	...	...	5-1	...	...	5-0	...	...	Mean.

Table VI.—CLOUD TYPE,

"THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	7	Ci.	...	7	Ci.	...	7	Ci.	...	7	Ci.	...
2	...	...	...	4	Ci.	St.	4	Ci.	St.	6	Ci.	St.
3	10	...	...	10	...	...	10	...	...	10	...	...
4	10	...	...	8	Ci.	St.	8	Ci.	St.	8	Ci.	St.
5	10	...	...	10	...	...	10	...	...	10	...	...
6	10	Ci.	Cu.	10	Ci.	Cu.	10	Ci.	Cu.	...	Ci.	St.
7	5	Ci.	Cu.	5	Ci.	Cu.	5	Ci.	Cu.	6	Ci.	Cu.
8	3	Ci.	...	4	Ci.	...	4	Ci.	...	4	Ci.	...
9	...	...	...	...	...	...	10	Ci.	St.	10	Ci.	St.
10	...	...	...	1	...	St.	...	...	...	...	...	...
11	10	Ci.	St.	10	Ci.	St.	10	Ci.	St.	10	Ci.	St.
12	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...
14	1	...	St.	1	...	St.	1	...	St.	1	...	St.
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	10	...	...
17	...	...	...	...	...	...	2	...	Fr.-Cu.	...	...	...
18	...	...	...	...	...	...	...	...	...	10	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...
20	10	...	...	...	...	...	...	...	...	2	...	St.-Cu.
21	...	...	...	...	...	...	...	...	...	2	...	St.-Cu.
22	...	...	...	10	...	...	10	...	...	10	...	...
23	...	...	...	...	...	...	...	...	...	...	...	...
24	...	...	...	...	...	...	...	...	...	...	...	...
25	2	...	Cu.	2	...	Cu.	2	...	Cu.	2	...	Cu.
26	10	...	...	10	...	...	10	...	...	10	...	...
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	...	...	...	4	Ci.	...
30	10	...	...	10	...	...	10	...	...	10	...	...
Mean.	7.5	...	...	6.8	...	...	7.1	...	...	6.9	...	...

DIRECTION AND AMOUNT—continued.

JUNE, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
7	Ci.	...	7	Ci.	St.	6	Ci.-St.	...	...	...	...	1
6	Ci.	St.	4	Ci.	St.	10	...	...	...	...	...	2
10	...	...	10	...	...	10	...	...	...	...	...	3
2	Ci.	St.	2	Ci.-St.	...	2	Ci.-St.	...	...	...	...	4
10	...	...	6	Ci.-St.	...	6	Ci.-St.	...	...	...	...	5
2	...	St.	2	...	St.	...	...	...	...	...	...	6
7	Ci.	Cu.	...	...	...	...	...	...	...	...	...	7
4	Ci.	...	4	Ci.	...	...	...	...	...	...	...	8
10	Ci.	St.	10	Ci.	St.	...	...	...	...	...	...	9
...	...	...	...	...	...	...	...	...	...	...	...	10
10	Ci.	St.	10	Ci.	St.	10	Ci.	St.	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
1	...	...	1	...	St.	...	...	...	...	...	...	14
10	...	...	10	...	...	10	...	...	...	...	...	15
10	...	...	10	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	17
10	...	...	10	...	...	10	...	...	...	...	...	18
10	...	...	10	...	...	10	...	...	...	...	...	19
1	...	St.-Cu.	1	...	St.-Cu.	2	...	St.	...	...	...	20
1	...	St.-Cu.	1	...	St.-Cu.	2	...	St.-Cu.	...	...	...	21
10	...	...	10	...	...	10	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	24
2	...	Cu.	2	...	Cu.	...	...	...	...	...	...	25
10	...	...	10	...	...	10	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	...	...	...	...	...	...	28
4	Ci.	...	4	Ci.	...	...	...	...	...	...	...	29
10	...	...	10	...	...	10	...	...	...	...	...	30
6-7	...	...	6-4	...	...	7-7	...	...	...	...	...	Mean.

Table VI.—CLOUD TYPE,

## "THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	10	...	...	10	...	...	10	...	...	10	...	...
2	10	...	...	...	...	...	2	...	St.	...	...	...
3	...	...	...	10	...	Cu.	10	...	Cu.	10	...	Cu.
4	...	...	...	...	...	...	...	...	...	...	...	...
5	...	...	...	...	...	...	...	...	...	10	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	6	Ci.	St.	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...
10	10	...	...	...	...	...	...	...	...	...	...	...
11	...	...	...	3	Ci.	...	3	Ci.	...	3	Ci.	...
12	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	...	...	...	...	...	...
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	...	...	...	...	...	...
18	...	...	...	...	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	10	Ci.	Cu.
20	...	...	...	...	...	...	9	Ci.	St.-Cu.	8	...	St.-Cu.
21	8	...	...	8	...	...	8	...	...	8	Ci.	Cu.
22	8	...	...	8	...	...	8	...	...	10	Ci.	St.
23	...	...	...	...	...	...	6	Ci.	Cu.	...	...	...
24	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
25	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
26	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
27	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
28	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
29	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
30	10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.
31	10	...	Nb.	10	...	Nb.	10	...	Nb.	1	...	Cu.
Mean.	9.7	...	...	9.1	...	...	8.3	...	...	8.7	...	...

DIRECTION AND AMOUNT—continued.

JULY, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
10	...	...	10	...	...	10	...	...	10	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	2
10	...	Cu.	10	...	Cu.	10	...	Cu.	...	...	...	3
...	...	...	4	...	Cu.	4	...	Cu.	...	...	...	4
10	...	...	10	...	...	10	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
...	...	...	...	...	...	10	...	...	10	...	...	8
10	...	...	10	...	...	10	...	...	10	...	...	9
...	...	...	...	...	...	...	...	...	...	...	...	10
...	...	...	...	...	...	...	...	...	...	...	...	11
10	...	...	10	...	...	10	...	...	...	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	13
...	...	...	...	...	...	...	...	...	...	...	...	14
...	...	...	...	...	...	...	...	...	...	...	...	15
...	...	...	...	...	...	...	...	...	...	...	...	16
...	...	...	...	...	...	...	...	...	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	18
...	...	...	...	...	...	...	...	...	...	...	...	19
8	...	St.-Cu.	8	...	...	8	...	...	8	...	...	20
10	Ci.	St.-Cu.	10	Ci.	St.-Cu.	9	Ci.	St.	8	...	...	21
10	Ci.	St.	...	...	...	...	...	...	...	...	...	22
6	Ci.	Cu.	...	...	...	...	...	...	...	...	...	23
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	24
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	25
...	...	...	...	...	...	...	...	...	...	...	...	26
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	27
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	28
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	29
10	...	Nb.	10	...	Nb.	10	...	Nb.	10	...	Nb.	30
1	...	Cu.	1	...	Cu.	1	...	Cu.	1	...	Cu.	31
9-1	...	...	8-9	...	...	8-9	...	...	9-0	...	...	Mean.

Table VI.—CLOUD TYPE,

"THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	1	...	Cu.	6	Ci.	Cu.
2	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
3	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
4	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
5	6	Ci.	...	4	Ci.	...	4	Ci.	...	2	Ci.-St.	...
6	...	...	...	...	...	...	3	...	Cu.	2	Ci.	Cu.
7	...	...	...	...	...	...	2	Ci.-St.	...	2	...	St.
8	...	...	...	...	...	...	...	...	...	4	Ci.	...
9	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
10	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
11	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
12	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
13	10	Ci.	...	8	...	A.-Cu.	8	...	A.-Cu.	6	...	St.-Cu.
14	...	...	...	...	...	...	3	Ci.-St.	St.-Cu.	5	Ci.-St.	...
15	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
16	10	Ci.	...	10	Ci.	...	8	...	A.-Cu.	8	...	A.-Cu.
17	...	...	...	...	...	...	3	Ci.	Cu.	4	Ci.	A.-Cu.
18	...	...	...	...	...	...	1	...	Cu.	1	...	Cu.
19	...	...	...	...	...	...	2	Ci.-St.	...	2	Ci.-St.	...
20	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
21	10	Ci.-St.	...	...	...	...	4	Ci.-Cu.	...	6	Ci.-Cu.	St.
22	...	...	...	...	...	...	...	...	...	2	...	St.-Cu.
23	2	...	St.-Cu.	2	...	St.-Cu.	2	...	St.-Cu.	2	...	St.-Cu.
24	...	...	...	...	...	...	...	...	...	2	...	St.
25	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.
26	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.
27	1	Ci.-St.	St.	1	Ci.-St.	St.	8	Ci.-St.	A.-Cu.	...	...	...
28	...	...	...	6	Ci.-St., Ci.	...	6	Ci.-St.	...	10	Ci.-St.	...
29	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
30	10	Ci.-St.	...	7	...	St., A.-Cu.	3	...	St.	3	Ci.-St.	...
31	...	...	...	...	...	...	...	...	...	...	...	...
Mean.	7.9	...	...	7.4	...	...	5.9	...	...	5.8	...	...

DIRECTION AND AMOUNT—continued.

AUGUST, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
9	...	...	9	...	...	9	...	...	...	...	...	1
10	Ci.	...	10	Ci.	...	10	...	...	10	Ci.	...	2
10	Ci.	...	10	Ci.	...	10	...	...	10	Ci.	...	3
10	Ci.	...	10	Ci.	...	10	...	...	10	Ci.	...	4
3	Ci.	St.	3	Ci.-St.	...	...	...	...	...	...	...	5
6	Ci.	Cu.	...	...	...	...	...	...	...	...	...	6
5	...	St.-Cu.	2	...	St.	...	...	...	...	...	...	7
5	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	8
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	9
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	10
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	11
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	12
5	...	St.-Cu.	2	...	St.	...	...	...	...	...	...	13
6	Ci.	...	6	Ci.	...	10	Ci.	...	10	Ci.	...	14
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	15
8	...	A.-Cu.	8	...	A.-Cu.	8	...	A.-Cu.	...	...	...	16
1	...	A.-Cu.	1	...	A.-Cu.	...	...	...	...	...	...	17
4	...	St.-Cu.	4	...	St.-Cu.	...	...	...	...	...	...	18
4	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	19
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	20
2	...	Cu.	...	...	...	...	...	...	...	...	...	21
2	...	St.-Cu.	2	...	St.-Cu.	2	...	St.-Cu.	2	...	St.-Cu.	22
1	...	St.-Cu.	...	...	...	...	...	...	...	...	...	23
3	Ci.-St.	St.	4	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	24
1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	25
1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	1	Ci.-St.	St.	26
...	...	...	...	...	...	...	...	...	...	...	...	27
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	28
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	29
2	Ci.-St.	...	2	Ci.-St.	...	2	Ci.-St.	...	...	...	...	30
1	...	St.	1	...	St.	1	...	St.	...	...	...	31
6-0	...	...	6-5	...	...	7-5	...	...	8-1	...	...	Mean.

Table VI.—CLOUD TYPE.

"THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	1	...	St.-Cu.	...	...	...
3	...	...	...	4	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
4	10.	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...
7	10.	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
8	10.	Ci.	...	10	Ci.	...	10	Ci.	...	9	Ci.	A.-Cu.
9	...	...	...	...	...	...	...	...	...	...	...	...
10	1.	...	St.	2	Ci.-St.	...	4	Ci.-St.	...	4	Ci.-St.	...
11	...	...	...	...	...	...	...	...	...	...	...	...
12	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
13	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
14	10.	Ci.	...	9.	Ci.	A.-Cu.	6	Ci.	...	...	...	...
15	1	...	St.	1.	...	St.	5	Ci.	St.	5	Ci.	St.
16	...	...	...	...	...	...	1	Ci.-St.	...	2	Ci.-St.	...
17	10.	Ci.-St.	...	10.	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
18	10.	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
19	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	7	...	A.-Cu.
20	...	...	...	8	...	A.-Cu.	8	Ci.-St.	A.-Cu.	10	Ci.	...
21	10.	...	...	10	...	...	10	...	...	6	Ci.	...
22	...	...	...	...	...	...	8	...	A.-Cu.	...	...	...
23	...	...	...	...	...	...	8	Ci.	...	8	Ci.	A.-Cu.
24	...	...	...	...	...	...	...	...	...	...	...	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	5	...	A.-Cu.	6	Ci.-St.	A.-Cu.
27	...	...	...	...	...	...	...	...	...	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	6	...	A.-Cu.	6	Ci.	A.-Cu.	2	...	A.-Cu.	2	...	A.-Cu.
30	...	...	...	...	...	...	8	Ci.-St.	...	8	Ci.-St.	St.
Mean.	8.3	...	...	8.0	...	...	7.4	...	...	7.6	...	...



DIRECTION AND AMOUNT—continued.

SEPTEMBER, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
...	...	...	...	...	...	...	...	...	...	...	...	1
1	...	St.-Cu.	.1	...	St.-Cu.	.1	...	St.	...	...	...	2
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	3
10	Ci.-St.	...	10	Ci.-St.	...	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	7
4	...	A.-Cu.	...	...	...	...	...	...	...	...	...	8
...	...	...	.1	...	St.	.1	...	St.	.1	...	St.	9
...	...	...	...	...	...	...	...	...	...	...	...	10
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	11
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	12
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	13
.1	...	St.	.1	...	St.	.1	...	St.	.1	...	St.	14
3	Ci.	...	3	Ci.	...	.2	Ci.	...	.2	Ci.	St.	15
.4	Ci.-St.	...	4	Ci.-St.	...	.6	Ci.-St.	...	10	Ci.-St.	...	16
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	17
10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	18
.6	...	A.-Cu.	.6	...	A.-Cu.	.6	...	A.-Cu.	...	...	...	19
10	...	...	10	...	...	10	...	...	10	...	...	20
6	Ci.	...	...	...	...	...	...	...	...	...	...	21
...	...	...	...	...	...	...	...	...	...	...	...	22
...	...	...	...	...	...	...	...	...	...	...	...	23
...	...	...	...	...	...	...	...	...	...	...	...	24
...	...	...	...	...	...	...	...	...	...	...	...	25
.6	Ci.	...	8	Ci.	A.-Cu.	...	...	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
8	Ci.	A.-Cu.	.6	...	A.-Cu.	.5	...	A.-Cu.	...	...	...	28
6	Ci.	St.	.6	Ci.	St.	...	...	...	...	...	...	29
7	Ci.	A.-Cu.	.7	Ci.	St., A.-Cu.	...	...	...	No record.	...	...	30
7.1	...	...	7.0	...	...	6.8	...	...	7.8	...	...	Mean.

Table VI.—CLOUD TYPE,

“THE GROTTOS,” QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	...	...	...	2	Ci.	...
3	...	...	...	8	Ci.-St.	...	8	Ci.-St.	...	8	Ci.-St.	...
4	...	...	...	7	Ci.	...	6	Ci.	...	4	Ci.	...
5	...	...	...	4	Ci.-St.	...	3	Ci.-St.	...	2	...	St.
6	...	...	...	4	Ci.-Cu.	St.	.7	Ci.	A.-Cu.	6	Ci.	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	...	...	...	...	...	...
9	...	...	...	...	...	...	...	...	...	...	...	...
10	...	...	...	...	...	...	10	Ci.	...	10	Ci.	...
11	10	Ci.	...	...	...	...	...	...	...	2	Ci.	...
12	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
13	10	Ci.	...	10	Ci.	...	4	Ci.-St.	...	10	Ci.	...
14	8	...	A.-Cu.	...	...	...	10	Ci.	...	10	Ci.	...
15	...	...	...	...	...	...	7	Ci.	A.-Cu.	10	Ci.	...
16	...	...	...	...	...	...	1	Ci.-Cu.	...	...	...	...
17	...	...	...	7	Ci.-St.	...	10	Ci.	...	10	Ci.	...
18	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
19	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
20	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
21	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
22	10	Ci.	...	10	Ci.	...	8	...	A.-Cu.	8	Ci.	A.-Cu.
23	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
24	10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...
25	10	Ci.	...	10	Ci.	...	8	...	A.-Cu.	10	Ci.	...
26	...	...	...	...	...	...	...	...	...	...	...	...
27	2	...	St.	...	...	...	...	...	...	...	...	...
28	...	...	...	1	...	St.	1	...	St.	3	Ci.-St.	St.
29	8	Ci.	Cu.	4	Ci.	...	8	Ci.	...	10	Ci.	...
30	2	Ci.	...	2	Ci.	...	3	Ci.	St.	7	Ci.	Cu.-St., A.-St.
31	2	...	Cu.	...	...	...	...	...	...	1	...	Cu.
Mean.	8.2	...	...	7.6	...	...	7.5	...	...	7.6	...	...

DIRECTION AND AMOUNT—*continued.*

OCTOBER, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
...	...	...	...	...	...	...	...	...	...	...	...	1
4	Ci.-St.	...	8	Ci.-St.	...	...	...	...	...	...	...	2
8	Ci.-St.	...	8	Ci.-St.	...	...	...	...	...	...	...	3
2	Ci.	...	4	Ci.	St.	...	...	...	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
10	Ci.	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
...	...	...	...	...	...	...	...	...	...	...	...	8
8	Ci.-St.	...	6	Ci.-St.	...	...	...	...	...	...	...	9
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	10
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	11
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	12
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	13
10	Ci.	...	10	Ci.	...	...	...	...	...	...	...	14
10	Ci.	...	10	Ci.	...	...	...	...	...	...	...	15
3	Ci.-St.	...	4	Ci.-St.	...	4	Ci.-St.	...	...	...	...	16
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	17
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	18
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	19
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	20
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	21
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	22
8	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	23
10	Ci.	...	10	Ci.	...	10	Ci.	...	10	Ci.	...	24
10	Ci.	...	10	...	A.-Cu.	8	...	A.-Cu.	6	...	A.-Cu.	25
...	...	...	...	...	...	...	...	...	2	...	St.	26
...	...	...	...	...	...	...	...	...	...	...	...	27
3	Ci.-St.	St.	7	Ci.	Cu.	8	Ci.	Cu.	8	Ci.	Cu.	28
10	Ci.	...	10	Ci.	...	10	Ci.	...	6	Ci.	A.-Cu.	29
4	Ci.	...	4	Ci.	...	2	...	Cu.	2	...	Cu.	30
...	...	...	...	...	...	...	...	...	...	...	...	31
8-3	...	...	8-7	...	...	8-9	...	...	8-5	...	...	Mean.

Table VI.—CLOUD TYPE,

“THE GROTTOS,” QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	8.	Ci.	...	10.	Ci.	...
2	10	Ci.	...	10.	Ci.	...	10	Ci.	...	10.	Ci.	...
3	10	Ci.	...	10	Ci.	...	10	Ci.	...	10.	Ci.	...
4	10	Ci.	...	10	Ci.	...	10	Ci.	...	10.	Ci.	...
5	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...
6	10.	Ci.	...	8.	...	A.-Cu.	6.	...	A.-Cu.	7.	...	St., A.-Cu.
7	...	...	...	...	...	...	2	Ci.-St.	...	4.	Ci.-St.	...
8	...	...	...	1.	Ci.-St.	...	3.	Ci.-St.	Cu.	6.	Ci.-St.	...
9	10.	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...	10	Ci.-St.	...
10	4.	Ci.	...	4.	Ci.	...	6	Ci.	...	7	Ci.-St.	...
11	...	...	...	...	...	...	6	Ci.	...	6	Ci.	...
12	2	Ci.-St.	...	...	...	...	2	...	Cu.	4.	...	A.-Cu.
13.	...	...	...	...	...	...	5.	Ci.	Cu.-St.	3.	Ci.-St.	...
14	10	Ci.	...	10.	Ci.	...	10.	Ci.	...	10	Ci.	...
15	10	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...
16	2	...	St.	2.	...	St.	2.	...	St.	3.	Ci.	St.
17	1	Ci.-St.	...	1.	Ci.-St.	...	2	Ci.-St.	...	3	Ci.-St.	...
18	1.	Ci.	...	1.	Ci.	...	1	Ci.	...	1	Ci.	...
19	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10	...	Cu.
20	10.	...	Cu.	10.	...	Cu.	10	...	Cu.	10	...	Cu.
21.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10	...	Cu.
22	10.	...	Cu.	10.	...	Cu.	10	...	Cu.	10	...	Cu.
23	10.	...	Cu.	10.	...	Cu.	10	...	Cu.	10	...	Cu.
24	...	...	...	...	...	...	2.	Ci.	St.	1	...	St.
25	9	...	Cu.	...	...	...	8.	...	Cu.	6	Ci.	St.
26	...	...	...	...	...	...	7.	Ci.-St.	St.	7	Ci.-St.	St.
27	...	...	...	...	...	...	3.	...	St.	1	...	St.
28	...	...	...	...	...	...	...	...	...	...	...	...
29	10	...	Cu.	10.	...	Cu.	10	...	Cu.	10.	...	Cu.
30	...	...	...	...	...	...	8.	Ci.	Cu.	8.	Ci.	Cu.
Mean.	8-0	...	...	7-7	...	...	6-9	...	...	7-1	...	...

DIRECTION AND AMOUNT—continued.

NOVEMBER, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	1
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	2
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	3
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	4
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	5
7.	...	St., A.-Cu.	7.	...	St., A.-Cu.	5.	...	A.-Cu., St.-Cu.	5.	...	A.-Cu., St.-Cu.	6
6.	Ci.-St.	...	1.	Ci.-St.	...	...	...	...	...	...	...	7
8.	Ci.-St.	...	10.	Ci.-St.	...	10.	Ci.-St.	...	10.	Ci.-St.	...	8
8.	Ci.	...	8.	Ci.	...	7.	Ci.	Cu.	7.	Ci.	Cu.	9
8.	Ci.	...	6.	Ci.	...	5.	Ci.	...	...	...	...	10
5.	Ci.-St.	...	8.	Ci.	...	7.	Ci.-St.	...	4.	Ci.-St.	...	11
10.	...	A.-Cu.	10.	...	A.-Cu.	10.	...	A.-Cu.	...	...	...	12
5.	Ci.-St.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	13
10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	10.	Ci.	...	14
10.	Ci.	...	7.	Ci.-St., Ci.-Cu.	...	5.	Ci.-Cu.	St.	2.	...	St.	15
2.	Ci.-St.	...	1.	Ci.-St.	...	1.	Ci.-St.	...	1.	Ci.-St.	...	16
4.	Ci.-St.	...	2.	Ci.-St.	...	1.	Ci.	...	1.	Ci.	...	17
5.	Ci.	St., St.-Cu.	8.	...	A.-Cu.	6.	...	A.-Cu.	4.	...	A.-Cu.	18
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	19
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	20
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	21
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	22
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	7.	...	Cu.	23
2.	...	St.	8.	...	Cu.	9.	...	Cu.	9.	...	Cu.	24
3.	Ci.	St.	3.	Ci., Ci.-Cu.	St.	5.	Ci., Ci.-Cu.	St.	...	...	...	25
7.	Ci.-St.	St.	7.	Ci.-St.	St.	5.	Ci.-St.	A.-Cu., St.	...	...	...	26
...	...	...	1.	...	St.	1.	...	St.	...	...	...	27
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	28
10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	10.	...	Cu.	29
6.	Ci.	Cu.	8.	Ci.	Cu.	10.	...	Cu.	10.	...	Cu.	30
7-8	...	...	7-8	...	...	7-8	...	...	7-9	...	...	Mean.

Table VI.—CLOUD TYPE,

"THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m. °			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	10	...	Cu.	10	...	Cu.	...	...	...	...	...	...
2	...	...	...	...	...	...	10	...	Cu.	8	...	Cu.
3	...	...	...	...	...	...	2	...	St.	4	Ci.-St.	St.
4	...	...	...	...	...	...	7	Ci.-Cu.	...	1	...	St.
5	...	...	...	...	...	...	...	...	...	...	...	...
6	...	...	...	...	...	...	...	...	...	...	...	...
7	...	...	...	...	...	...	...	...	...	...	...	...
8	...	...	...	...	...	...	1	...	Cu.	1	...	Cu.
9	...	...	...	...	...	...	10	...	Cu.	10	...	Cu.
10	...	...	...	...	...	...	10	...	Cu.	10	...	Cu.
11	...	...	...	...	...	...	1	...	Cu.	1	...	Cu.
12	...	...	...	...	...	...	...	...	...	...	...	...
13	...	...	...	...	...	...	10	...	Cu.	10	...	Cu.
14	...	...	...	...	...	...	...	...	...	...	...	...
15	...	...	...	...	...	...	...	...	...	...	...	...
16	...	...	...	...	...	...	...	...	...	...	...	...
17	...	...	...	...	...	...	10	...	A.-Cu.	10	...	A.-Cu.
18	...	...	...	...	...	...	1	...	St.-Cu.	1	...	St.-Cu.
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	10	...	A.-Cu.	1	Ci.-St.	...
21	...	...	...	...	...	...	10	...	Cu.	4	...	Cu.
22	...	...	...	...	...	...	...	...	...	...	...	...
23	...	...	...	...	...	...	3	Ci.-St.	...	5	Ci.	Cu.
24	...	...	...	...	...	...	8	Ci.-St., Ci.	...	7	Ci.	...
25	...	...	...	...	...	...	...	...	...	...	...	...
26	...	...	...	...	...	...	7	Ci.	...	5	Ci.	...
27	...	...	...	...	...	...	1	...	St.	1	...	St.
28	...	...	...	...	...	...	1	...	St.	3	Ci.	...
29	...	...	...	...	...	...	2	Ci.	St.	2	...	A.-Cu.
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	...	...	...	...	...	...
Mean.	...	...	...	...	...	...	5.8	...	...	4.7	...	...

DIRECTION AND AMOUNT—continued.

DECEMBER, 1912.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
...	...	...	10	...	Cu.	10	...	Cu.	...	...	...	1
10	...	Cu.	10	...	Cu.	...	...	...	...	...	...	2
3	Ci.	St.	1	...	St.	9	Ci., Ci.-Cu.	St.	...	...	...	3
...	...	...	...	...	...	3	...	Cu.	...	...	...	4
...	...	...	...	...	...	...	...	...	...	...	...	5
10	...	Cu.	10	...	Cu.	9	...	Cu.	...	...	...	6
...	...	...	...	...	...	...	...	...	...	...	...	7
1	...	Cu.	1	...	Cu.	...	...	...	...	...	...	8
10	...	Cu.	10	...	Cu.	...	...	...	...	...	...	9
10	...	Cu.	10	...	Cu.	10	...	Cu.	...	...	...	10
...	...	...	...	...	...	...	...	...	...	...	...	11
...	...	...	...	...	...	...	...	...	...	...	...	12
10	...	Cu.	10	...	Cu.	10	...	Cu.	...	...	...	13
4	...	Cu.	...	...	...	...	...	...	...	...	...	14
10	...	Cu.	10	...	A.-Cu.	6	Ci.	A.-Cu., Cu.	...	...	...	15
2	...	St.-Cu.	5	Ci.-Cu.	...	10	...	Cu.	...	...	...	16
5	...	A.-Cu.	4	...	A.-Cu.	3	...	St.-Cu.	...	...	...	17
1	...	Cu.	1	...	Cu.	1	...	Cu.	...	...	...	18
...	...	...	10	...	Cu.	8	...	Cu.	...	...	...	19
2	Ci.	Cu.	1	Ci.	...	5	...	A.-Cu.	...	...	...	20
5	...	Cu.	1	...	St.	5	Ci.-Cu.	...	...	...	...	21
...	...	...	...	...	...	1	...	St.	...	...	...	22
3	Ci.-St.	Cu.	1	...	Cu.	2	Ci.	Cu.	...	...	...	23
7	Ci.	...	4	Ci.	...	1	Ci.	...	...	...	...	24
...	...	...	8	Ci.	...	7	Ci.	...	...	...	...	25
5	Ci.	...	6	Ci.	...	7	Ci.	A.-Cu.	...	...	...	26
2	Ci.	...	4	Ci.	...	1	Ci.	...	...	...	...	27
10	Ci.	...	...	...	...	...	...	...	...	...	...	28
2	Ci.	St.	1	A.-Cu.	...	1	Ci.	...	6	Ci.	Cu.	29
9	...	Cu.	4	...	Cu., A.-St.	1	...	Cu.	...	...	...	30
1	...	St.	4	Ci.	...	6	Ci., Ci.-St.	...	...	...	...	31
5-5	...	...	5-5	...	...	5-3	...	...	6-0	...	...	Mean.

Table VI.—CLOUD-TYPE.

## "THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	...	...	...	...	...	...
2	...	...	...	...	...	...	1	...	St.	8	Ci.-Cu.	...
3	...	...	...	...	...	...	2	Ci.	St.	...	...	...
4	...	...	...	...	...	...	8	Ci.	...	...	...	...
5	...	...	...	...	...	...	10	Ci.	Cu.	6	Ci., Ci.-St.	...
6	...	...	...	...	...	...	3	Ci.-St.	...	2	...	St.
7	...	...	...	...	...	...	1	...	St.	...	...	...
8	...	...	...	...	...	...	1	...	St.	1	...	St.
9	...	...	...	...	...	...	10	...	St.	10	...	St.
10	...	...	...	...	...	...	4	Ci.	...	6	Ci.-St., Ci.-Cu.	...
11	...	...	...	...	...	...	10	...	St.	10	...	St.
12	...	...	...	...	...	...	...	...	...	6	Ci.	...
13	...	...	...	...	...	...	8	Ci.	...	6	Ci.-St., Ci.	...
14	...	...	...	...	...	...	10	...	Cu.	10	...	Cu.
15	...	...	...	...	...	...	10	...	St.	10	...	St.
16	...	...	...	...	...	...	1	...	St.	2	...	Ci.-St.
17	...	...	...	...	...	...	1	...	St.	...	...	...
18	...	...	...	...	...	...	1	...	St.	1	...	St.
19	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	...
21	...	...	...	...	...	...	...	...	...	...	...	...
22	...	...	...	...	...	...	7	Ci.-Cu.	Cu.	10	...	Cu.
23	...	...	...	...	...	...	10	...	St.	10	...	St.
24	5	...	Cu.	...	...	...	...	...	...	1	...	St.
25	...	...	...	...	...	...	10	...	Cu.	10	...	Cu.
26	...	...	...	...	...	...	4	Ci.-Cu., Ci.-St.	...	1	Ci.	...
27	...	...	...	...	...	...	1	...	St.	...	...	...
28	...	...	...	...	...	...	...	...	...	...	...	...
29	...	...	...	...	...	...	10	...	St.	10	...	St.
30	...	...	...	...	...	...	...	...	...	...	...	...
31	...	...	...	...	...	...	3	...	Cu.	8	...	Cu.
Mean.	5.0	...	...	...	...	...	5.5	...	...	6.4	...	...



DIRECTION AND AMOUNT—*continued.*

JANUARY, 1913.

3 p.m.			6 p.m.			9 p.m.			Midnight.			Date.
Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.		
	Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.	
...	...	...	6	...	Cu.	2	...	St.	...	...	...	1
3	...	St.-Cu.	1	...	St.	4	Ci.	St.	...	...	...	2
...	...	...	...	...	...	2	Ci.-St.	...	...	...	...	3
...	...	...	...	...	...	8	Ci.-St.	...	...	...	...	4
6	Ci.-St., Ci.-Cu.	...	...	...	...	6	Ci.	...	...	...	...	5
...	...	...	...	...	...	...	...	...	...	...	...	6
...	...	...	...	...	...	1	...	St.-Cu.	2	...	St.-Cu.	7
10	...	Cu.	.5	Ci.-St.	...	2	Ci.	...	1	...	St.	8
1	...	St.	1	...	St.	...	...	...	...	...	...	9
2	Ci.-Cu.	St.	1	...	St.	7	Ci.-Cu.	A.-Cu.	10	...	St.	10
6	Ci.	...	10	...	St.	10	...	St.	...	...	...	11
9	...	Cu.	4	...	Cu.	...	...	...	...	...	...	12
8	Ci.-St., Ci.	...	8	Ci.-St.	...	...	...	...	...	...	...	13
10	...	Cu.	10	...	Cu.	10	...	Cu.	...	...	...	14
10	...	St.	2	...	St.	2	...	St.	2	...	St.	15
1	...	St.	1	...	St.	...	...	...	...	...	...	16
...	...	...	2	...	St.	1	...	St.	...	...	...	17
...	...	...	...	...	...	...	...	...	...	...	...	18
2	Ci.-St.	...	...	...	...	3	Ci.-St.	...	...	...	...	19
...	...	...	...	...	...	...	...	...	...	...	...	20
...	...	...	...	...	...	...	...	...	...	...	...	21
10	...	Cu.	10	...	St.	10	...	St.	10	...	St.	22
10	...	St.	6	...	St.	10	...	St.	10	...	Cu., St.	23
...	...	...	8	Ci.-St.	...	3	Ci.-St.	...	...	...	...	24
10	...	Cu.	10	...	Cu.	10	...	Cu.	...	...	...	25
2	Ci.-St.	...	2	Ci.-St.	...	6	Ci., Ci.-St.	...	...	...	...	26
...	...	...	...	...	...	...	...	...	...	...	...	27
...	...	...	...	...	...	6	...	St.	10	...	St.	28
10	...	St.	10	...	St.	6	...	St.	4	...	St.	29
...	...	...	...	...	...	...	...	...	...	...	...	30
5	...	Cu.	8	...	Cu.	7	...	Cu.	...	...	...	31
6.4	...	...	5.5	...	...	5.5	...	...	6.1	...	...	Mean.

\* 42240—G

Table VI.—CLOUD TYPE.

## "THE GROTTOS," QUEEN MARY LAND.

Date.	3 a.m.			6 a.m.			9 a.m.			Noon.		
	Amount.	Type.		Amount.	Type.		Amount.	Type.		Amount.	Type.	
		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.		Upper.	Lower.
1	...	...	...	...	...	...	7	...	Cu.	4	...	Cu.
2	...	...	...	...	...	...	2	Ci.-St.	..	2	Ci.-St.	..
3	...	...	...	...	...	...	10	...	A.-Cu.	10	...	St.
4	...	...	...	...	...	...	10	...	St.	10	...	St.
5	...	...	...	...	...	...	10	...	St.	10	...	St.
6	...	...	...	...	...	...	10	...	St.	10	...	St.
7	...	...	...	...	...	...	7	...	Cu.	2	...	St.
8	...	...	...	...	...	...	10	...	St.	10	...	St.
9	...	...	...	...	...	...	10	...	St.	8	...	A.-Cu.
10	...	...	...	...	...	...	10	...	St.	10	...	St.
11	...	...	...	...	...	...	10	...	St.	10	...	St.
12	...	...	...	...	...	...	6	Ci.	..	10	...	St.
13	...	...	...	...	...	...	10	...	St.	10	...	St.
14	...	...	...	...	...	...	3	Ci.	Cu.	10	...	Cu.
15	...	...	...	...	...	...	6	...	A.-Cu.	10	...	Cu.
16	...	...	...	...	...	...	10	...	St.	10	...	St.
17	...	...	...	...	...	...	10	...	Cu.	10	...	St.
18	...	...	...	...	...	...	6	Ci., Ci.-St.	..	10	...	St.
Mean.	...	...	...	...	...	...	8.2	...	...	8.7	...	...



Table VII.—DAILY WEATHER REMARKS.

## "THE GROTTOS," QUEEN MARY LAND.

APRIL, 1912.

Date.

- 6 Blizzard.
- 7 Blizzard.
- 8 Blizzard.
- 9 Cloudy with Ci. all day.
- 10 Heavy cumulus on northern horizon, otherwise clear.
- 11 Cumulus in the north and scattered stratus. Prismatic colours at sunset.
- 12 Cumulus to the north.
- 13 Cumulus to the north and at 3 p.m. stratus in west. Blizzard after noon.
- 14 Blizzard.
- 15 St. to the east in morning and low cumulus to north all day, otherwise clear.
- 16 Clear sky all day.
- 17 Clear sky.
- 18 Clear sky all day. Sea frozen, ice about 3 inches thick.
- 19 Stratus in the east, Cu. from N.E. to S.W. through N.
- 20 Ci.-St. in all directions. Parhelion with inverted arc above.
- 21 Cloudy with Ci. and Ci.-St. Parhelion.
- 22 Ci. and Ci.-St. generally.
- 23 Cu. from north-east to south-west through N. St. in east.
- 24 St. from E. to W. Heavy Cu. cloud from horizon rising about 10 degrees appeared 1 to 2 miles due south in morning and remained until midday, when it lost shape and faded away gradually. Ci.-St. at 3 p.m.
- 25 Ci.-St. covered sky all day. Heavy Cu. cloud again visible at dawn to south, and faded away about noon. Blizzard commenced after noon.
- 26 Blizzard at intervals all day, at times wind practically calm.
- 27 Blizzard.
- 28 Blizzard.
- 29 St. on eastern horizon and Ci.-Cu. elsewhere during morning. Heavy Cu. from E. to W. through S. all day.
- 30 St. around horizon all day.

## "THE GROTTOS," QUEEN MARY LAND.

MAY, 1912.

Date.

- 1 Ci.-Cu. over zenith, N. to S., at 9 a.m., and St. in E. Noah's Ark at 3 p.m. from N. to S. Paraselena visible from 5-30 p.m. through the night.
- 2 Sky clouded over in morning, but cleared in E. from N. to S., and fog disappeared. Parhelion seen through fog, mock suns 10° above horizon from 9 a.m. to 3 p.m. From noon to 4 p.m., just above land to S., cloud belts from E. to S.W. separated by clear patch, all 5° height.
- 3 Paraselena visible at 9-30 p.m.
- 4 9 a.m. Noah's Ark of Ci. E. to W., changing to N. and S. 3 p.m. Noah's Ark N. to S. Ci. at 45° in N.W. Paraselena from 6 p.m. to 8 p.m.
- 5 9 a.m. Noah's Ark of Ci. from W. to E., fell away in S. at noon, N. side remained till 4 p.m. at 45°. At 6 p.m. Ci.-Cu. to S.E. and at 9 p.m. scattered Ci. to S.E. and E. Refraction on this day very great, especially to S.W.
- 6 Clear day.
- 7 Drift most of day.
- 8 Scattered Cu. generally with deep blue over land to south. Paraselena at 6 a.m. Later cloudy with Ci.-St.
- 9 Ci.-St. and Cu., latter heavy and low in the N. and N.E., partially covered by brilliant ice blink.
- 10 Scattered Ci.-St. and Cu. Drifting snow at 9 a.m.
- 11 St. on horizon all round, and scattered Ci. all day.
- 12 Fog most of the day and falling snow at 3 p.m.
- 13 St. low down most of day.
- 14 Scattered Ci. all day. Parhelion at 9 a.m.
- 15 Scattered Ci. low down most of day. Slight drift at 2 a.m. and 6 a.m.
- 16 Clear all day. Parhelion from 10 a.m. to noon.
- 17 Scattered Ci. from N.W. to S.E. Parhelion at 6 a.m.
- 18 Clear all day.
- 19 Scattered St. in early morning. Deep blue land sky.
- 20 Heavy fog all day, clearing at intervals and showing heavy Cu. Falling snow 3 a.m. to noon and 6 p.m. to 9 p.m. Drift from 9 p.m. to midnight.
- 21 Fog at first, clearing to light mist at 6 a.m. Became overcast about 11 a.m. and drift remainder of day.
- 22 Overcast all day and blizzard.
- 23 Overcast all day and blizzard.
- 24 Overcast all day and blizzard.
- 25 Overcast all day.
- 26 Fr.-St. in N.W. and Cu. in S. to S.W. in early morning, otherwise clear.
- 27 Cu. in the S. and St. in S. and later in N.
- 28 Clear all day.
- 29 Clear all day.
- 30 Ci. in Noah's Ark formation from N.N.W. to S.S.E. Paraselena in early morning, cloudy later.
- 31 Overcast with St. until 2 p.m., when cleared, showing Ci. from N.E. to S.W. Mirage on Barrier to west all day.

Table VII.—DAILY WEATHER REMARKS—continued.

## "THE GROTTOS," QUEEN MARY LAND.

JUNE, 1912.

Date.

- 1 Noah's Ark all day, dense at horizon all round, thinning out as elevation increased.
- 2 Ci. 4 in Noah's Ark form again all day. N.W. to S.E. Few St. on horizon. 9-12 p.m. dull. Blizzard.
- 3 Dull all day. Blizzard.
- 4 Dull in evening. Clearing after midday, showing scattered Ci. above and St. low on horizon all day. Lunar corona. Paraselena.
- 5 Heavy Cu. till midday, when cleared leaving Ci.-St., all running N.E. by S.W. About 4 p.m. Ci.-St. had changed position N. to S. Lunar corona.
- 6 Ci.-Cu. till 11 a.m. Cleared, showing Ci.-St. clouds, position changed again to N.E. by S.W. 3 p.m. St. on horizon.
- 7 Ci.-Cu. with Ci. in narrow band through zenith N. and S.
- 8 No remarks.
- 9 Dull 9 a.m. to 6 p.m., Ci.-St. around horizon. Ice barriers N. and W. miraged. At 2-30 p.m. gorgeous spectrum colours S. to E.
- 10 Except for low St. 1 to N. clear all day.
- 11 Dull. Ci.-St. and scattered Ci. 4 p.m. slight drift.
- 12 4 a.m. falling snow.
- 13 9-12 a.m. Ci. at zenith N.N.E. to S.S.E. and Ci.-St. N. to S. on horizon. Ci. clouds travelling parallel to themselves S.E. Clear sky 3-6 p.m.
- 14 3 a.m. to 6 p.m. few St. on N. horizon. At 2-15 to 3 p.m. all colours of spectrum visible on sky to E. violet to green and W. green to red.
- 15 Ci.-Cu. in E. and Ci. in S. Fog bank 9 a.m. E. to N.W. over sea. Noon Ci.-Cu. in E. Fog bank over sea. 3 p.m. to 9 p.m. dull. Fog bank over sea to 6 p.m. E. to N.W. Refraction movement on upper surface of fog bank to N. 4 p.m. falling snow till 11 p.m.
- 16 Noon to 6 p.m. dull. Snow fog visible E. and S. 3 p.m. slight drift and falling snow continuing till 9 a.m. on 17th.
- 17 9 a.m. Fr.-Cu. scattered. Noon heavy Cu. N. through W. to S.W. Fr.-Cu. E.N.E. through zenith to W.S.W. travelling N. direct S. 3 p.m. Fr.-Cu. N. to S.E. through W. and over zenith. Ci.-St. and St. on horizon.
- 18 Noon to 6 p.m. dull 10; 9 p.m. fog 10. 3 p.m. slight drift.
- 19 3 p.m. to midnight dull with fog 10.
- 20 3 a.m. dull with fog 10. Clear all day but for few St.-Cu. on N. horizon (stationary). Sun appeared to rise at 10-35 a.m.
- 21 3 p.m. clear with some St.-Cu. in N. as on 20th. Slight drift 9-30 to 10 a.m. Mirage all day to N.
- 22 6 a.m. to noon fog 10. Very dull all day and at 2-30 snow commenced to fall slightly. Falling snow and drift.
- 23 St. band E.N.E. to N.W. on horizon, otherwise clear all day; this band disappeared about 12 a.m.
- 24 Thin St. band N.W. to N.E. Heavy cloud of drift E. by S. to S.W. in morning. Lunar halo. Appears to have been heavy wind on land to south all day (20 miles) as heavy drift cloud there and some reaching here with little wind.
- 25 3 a.m. to 6 p.m. heavy Cu. 2 over sea north, otherwise clear.
- 26 Dull 10-3 a.m. and 9 a.m., and 3 p.m. to 9 p.m. Falling snow and slight drift.
- 27 9 a.m. to 3 p.m. heavy St. W. to E. through S. 6 p.m. clear. At sunrise about 11 to 11-30 a.m. there were two mock suns with brilliant red and yellow colour. For some distance along N. light green and purple S.
- 28 Clear all day till 10 p.m., when Ci. came up from W. and spread out and over towards E. Midnight Ci. 6.
- 29 Low drift 7 to 9 p.m. Fog 10-9 p.m. till 9 a.m. on 30th. Noon to 3 p.m. Ci. 4 N.E. to W. 6 p.m. scattered Ci. 4 visible.
- 30 Fog 10 till 9 a.m. Noon to midnight dull 10. Drift.

## "THE GROTTOS," QUEEN MARY LAND.

JULY, 1912.

Date.

- 1 3 a.m. to noon dull 10; 3 p.m. to midnight dull, fog 10. Light snowfall.
- 2 9 a.m. St. 2 N.W. to E. by S. low. Noon to midnight clear. Light drift.
- 3 3 a.m. clear. Became dull at 5 a.m. with Cu. 10. 6 a.m. light drift. 9 a.m. heavy drift. Paraselena.
- 4 9 a.m. dull over land to S. Cu. rose in N. at 10 a.m. to about 20° at 12. Remained there till 5 p.m. Sky otherwise clear. Lunar corona.
- 5 9 a.m. dull with water and land skies. Noon to 9 p.m. fog 10. Blizzard commenced at 3-30 a.m. Heavy drift.
- 6 Heavy drift.
- 7 Heavy drift. Blizzard ceased at 6 a.m. Drift till 6 a.m. 9 a.m. to midnight dull with light snowfall.
- 8 9 a.m. St. 2 N.E. to W. Scattered Ci. 4 and Noah's Ark formation N.W. to S.E. S.W. brought up heavy fog at 11-30 a.m. due probably to sudden fall of temperature. 9 p.m. to midnight fog 10. Refraction at N.
- 9 Dull all day. Stratus on S. horizon showing salmon pink 10-12 a.m. 3 p.m. to midnight dull 10. 2 a.m. to 7 a.m. slight drift.
- 10 3 a.m. dull 10. 6 a.m. cloudless sky. 9 to 12 a.m. clear. 3 p.m. to 9 p.m. clear.
- 11 Scattered Ci. till 11 a.m., then became dull showing blue band over land to S. 3 p.m. to 9 p.m. fog 10.
- 12 Blizzard. Drift and falling snow.
- 13 Blizzard. Drift and falling snow.
- 14 Blizzard. Drift and falling snow.
- 15 Blizzard. Drift and falling snow.
- 16 Blizzard. Drift and falling snow.
- 17 Blizzard. Drift and falling snow.
- 18 Blizzard. Drift and falling snow.
- 19 3 a.m. blizzard. Light snow. Cleared at 11-30 a.m. Noon Cu. 4, Ci. 6. At 12-30, dull again, N. 10. Parhelia.
- 20 6 p.m. to midnight dull 8. Refraction.
- 21 3 a.m. to 9 a.m. dull 8. Parhelia. Refraction midnight. Dull 8.
- 22 3 a.m. to 9 a.m. dull 8. 6 p.m. to midnight clear.
- 23 3 p.m. eight streamers of Ci.-Cu. from E. glowing brilliantly from setting sun.
- 24 Nb. 10 all day. Drift. Midnight falling snow.
- 25 Nb. 10 all day. Drift.
- 26 Nb. 10 all day. Falling snow and drift.
- 27 Nb. 10 all day. Drift. 6 p.m. falling snow and drift.
- 28 Nb. 10 all day. Dim lunar corona visible at 6-7 p.m. Drift.
- 29 Nb. 10 all day. Falling snow and drift.
- 30 Nb. 10 all day. Drift.
- 31 Nb. 10-3 a.m. to 9 a.m. Noon to midnight Cu. 1 on N. horizon, otherwise clear. Colours of spectrum visible on S.E. horizon at sunset. Fog clouds arose in morning.

Table VII.—DAILY WEATHER REMARKS—continued.

"THE GROTTOS," QUEEN MARY LAND.

AUGUST, 1912.

Date.

- 1 No remarks.
- 2 9 a.m. Cu. 1 on N. horizon. Noon Cu. 2, Ci. 4 N.E. to W. 3 p.m. to 9 p.m. Nb. 9. Falling snow.
- 3 Ci.-Nb. 10 all day. Falling snow and drift.
- 4 Ci.-Nb. 10 all day. Falling snow and drift.
- 5 9-12 p.m. clear. Earth shadows formed at sunset over glacier edge.
- 6 9 a.m. Cu. 3 E. to W. by S. Noon Cu. 1 (W.), Ci. 1 E. 3 p.m. Cu. 2 in W., Ci. 4. Prism colours. 6-9 p.m. clear. Shooting star at 8 p.m. in S. by E.
- 7 9 p.m. to midnight clear.
- 8 3 a.m. to 9 a.m. clear. Noon to 3 p.m. Noah's Ark E. to W. 6 p.m. to midnight Ci.-Nb. 10. Drift began at 4 p.m.
- 9 Ci.-Nb. 10 all day. Drift and falling snow. Cirrus of nebula formation.
- 10 Ci.-Nb. 10 all day. Drift and falling snow. Cirrus of nebula formation.
- 11 Ci.-Nb. 10 all day. Drift. Cirrus of nebula formation.
- 12 Ci.-Nb. 10 all day. Drift. Cirrus of nebula formation.
- 13 Ci.-Nb. 10 3 a.m. to 9 a.m. A.-Cu. 8 moving towards W. 9 p.m. to midnight clear.
- 14 3 a.m. to 6 a.m. clear. 9 a.m. St.-Cu. in E. 2. Ci.-St. 1 in N. Noon Ci. 3 moving S.W. Ci.-St. 2 rising and moving S.W. 3 to 6 p.m. Ci.-Nb. 6 rose E., moved across to W. in two hours. 9 p.m. to midnight Ci. 10. Light drift 12 a.m.
- 15 Ci.-Nb. 10 all day. Cirrus of nebula formation. Falling snow and drift.
- 16 Ci.-Nb. 10 3 a.m. to 6 a.m. Cirrus of nebula formation. 9 a.m. to 9 p.m. A.-Cu. 8. Drift.
- 17 9 a.m. Cu. 1 E. to N., Ci. 2. At 10 a.m. sky overcast by light fog. 9 p.m. to midnight clear.
- 18 3 a.m. to 6 a.m. clear. 9 p.m. to 12 p.m. clear. Lunar corona.
- 19 9 a.m. to 3 p.m. Noah's Ark S.W. to N.E. 6 p.m. to midnight Ci.-St. 10. Dull. Lunar corona.
- 20 Ci. 10 all day. Light falling snow began at 6 a.m. Light drift all day.
- 21 Noon Ci.-Cu. 4 rising in E. 6 p.m. to midnight clear.
- 22 6-9 a.m. clear. Noon to midnight St.-Cu. 2 on N. horizon.
- 23 3 a.m. to noon St.-Cu. 2 on N. horizon. 3 p.m. St.-Cu. 1 on N. horizon. 6 p.m. to midnight clear.
- 24 3 a.m. to 9 a.m. clear. Lunar halo. Noon St. 2 W. to E. through N. 9 p.m. St. 1. Ci.-St. complete, but thin showing stars first magnitude.
- 25 3 p.m. low drift. 9 p.m. strong drift. Falling snow. Ci.-St. complete, but thin, showing stars first magnitude.
- 26 Falling snow ceased by 3 p.m. Drift. Ci.-St. complete, but thin, showing stars first magnitude.
- 27 9 a.m. A.-Cu. 6. Ci.-St. 2 low. Noon to midnight clear. Low drift. Ci.-St. complete, but thin, showing stars first magnitude to 6 a.m.
- 28 9 a.m. Noah's Ark N. to S. Heavy drift at 6 p.m.
- 29 Ci.-St. 10 all day.
- 30 9 a.m. St. 3 S. and W. Midnight clear.
- 31 3 a.m. to 12 a.m. clear. 3 to 9 p.m. St. 1 in W.

"THE GROTTOS," QUEEN MARY LAND.

SEPTEMBER, 1912.

Date.

- 1 Clear all day.
- 2 3 a.m. to 6 a.m. clear. 9 a.m. St.-Cu. 1 in E. and W. by N. Noon clear. 9 p.m. St. 1 in N.E. Midnight clear.
- 3 3 a.m. clear. 6 a.m. Ci.-St. 4 rising rapidly from E. 9 a.m. to midnight Ci.-St. 10. Light drift. 5 p.m. barometer reading 29.820—highest to date.
- 4 3 a.m. to 6 p.m. Ci.-St. 10. 9 p.m. Ci.-Nb. much thinner. Midnight clear. Drift at noon.
- 5 6 a.m. drift covered. Noon heavy drift.
- 6 6 a.m. drift covered. 9 a.m. heavy drift.
- 7 Ci.-Nb. 10 all day. Cirrus of nebula formation.
- 8 Ci.-Nb. 10 3 a.m. to 9 a.m.; 6 p.m. to midnight.
- 9 3 a.m. to 3 p.m. clear. 6 p.m. to 12 p.m. St. 1 on W. horizon.
- 10 3 a.m. St. 1 on W. horizon. 3 p.m. Ci.-St. in Noah's Ark formation E.N.E. to W.S.W. 6 p.m. Ci.-St. in Noah's Ark formation, moved W. to E.; the long Ci.-St. shafts disappear, leaving very short parallel clouds. Low drift.
- 11 Drift heavy. 3 p.m. to midnight Ci.-Nb. 10. Heavy drift.
- 12 Ci.-Nb. 10 all day. Heavy drift.
- 13 3 a.m. heavy drift. Ci.-Nb. 10 all day.
- 14 12 noon clear. St. 1 in N. 3 p.m. to midnight.
- 15 3 to 6 a.m. St. 1 in N. 9 a.m. to noon St. 1 in N., Ci. 4. 6 p.m. Ci. 3 moving E.
- 16 3 a.m. to 6 a.m. clear. 9 a.m. Ci.-St. 1 E. to N. rising. 12 noon Ci.-St. 2 E. to N. rising. Snow fall at 11-15 p.m.
- 17 Ci.-St. 10 all day. Light falling snow.
- 18 Ci.-St. 10 all day. Falling snow.
- 19 3 a.m. to 6 a.m. Ci.-St. 10. Falling snow and drift. Falling snow ceased at 12 noon. Noon to 9 p.m. A.-Cu. travelling W. by N.
- 20 Noon Ci.-Nb. 10. 3 p.m. to midnight. Dull 10. Falling snow and drift.
- 21 3 a.m. to 9 a.m. dull 10. Noon Ci. 6 N. to E., thick. 6 p.m. to midnight dull. Falling snow ceased midday. Drift. Snow again at 9 p.m.
- 22 3 a.m. to 6 a.m.; 3 p.m. to midnight dull. Drift.
- 23 3 a.m. to 6 a.m. dull. Noon Ci. 4, A.-Cu. 4. 3 p.m. to midnight dull. Drift.
- 24 3 a.m. to midnight dull. Falling snow and heavy drift.
- 25 Dull all day. Drift and falling snow.
- 26 3 a.m. to 6 a.m. dull. Noon A.-Cu. 2, Ci.-St. 4. N. to S. in Noah's Ark. 3 p.m. Ci. 6 travelling W. 6 p.m. A.-Cu. 6, Ci. 2. 9 p.m. to midnight dull. Falling snow at 10 p.m.
- 27 Dull all day. Falling snow.
- 28 3 p.m. Ci. 4, A.-Cu. 4. Light falling snow till 1 p.m.
- 29 6 a.m. to noon. A.-Cu. 2, Ci. 4. 3-6 p.m. Ci. 4, St. 2. Light drift.
- 30 Noon Ci.-St. 6, St. 2. 3 p.m. A.-Cu. 6, Ci. 1. 6 p.m. A.-Cu. 4, Ci. 2, St. 1. Light drift.

Table VII.—DAILY WEATHER REMARKS—continued.

"THE GROTTOS," QUEEN MARY LAND.

OCTOBER, 1912.

Date:

- 1 Clear. Drift.
- 2 Noah's Ark N. to S., rising towards E. At 3 p.m. sun temperature +15, shade +12, in snow +10. Splendid Halo and mock suns.
- 4 Scattered Ci. 6 p.m. with fog N. to E. 2. Halo.
- 5 6 a.m. Noah's Ark N. to S. 12 a.m. St. in E.
- 6 6 a.m. Ci.-Cu. going W. rapidly. Noon to 3 p.m. Ci. with nebulous formation. Halo.
- 7 During October 7th and 8th no one at Hut and blizzard continued till October 9, when back at Hut midday.
- 10 Ci. with nebulous formation 9 a.m. to midnight. Heavy drift.
- 11 Clear 6-9 a.m. Ci. with nebulous formation. Low drift noon. Heavy drift 8 p.m.
- 12 Ci. with nebulous formation. Heavy falling snow. Wind dropped at 8 p.m.
- 13 Ci. with nebulous formation. Ci.-St. scattered. Heavy drift.
- 14 A.-Cu. just visible above. Ci. with nebulous formation. Drift at 9 a.m., then dull again. Falling snow and drift.
- 15 A.-Cu. moving to S.W. Ci. with nebulous formation. Low drift.
- 16 6-9 p.m. Ark E.N.E. to W.S.W. At 6 p.m. eight separate rays of Ci.-St. across sky. Wind rose at 7 a.m. and rapidly increased to about 40 miles per hour, where it remained for three days.
- 17 Ci. with nebulous formation. Drift.
- 18 Ci. with nebulous formation. Heavy falling snow and thick drift.
- 19 Heavy falling snow and thick drift.
- 20 Heavy falling snow and thick drift.
- 21 Heavy falling snow and thick drift.
- 22 Ci. with nebulous formation. At 3 p.m. prismatic clouds round sun.
- 23 Ci. with nebulous formation. Heavy drift over 40 feet high.
- 24 Ci. with nebulous formation. Thick drift.
- 25 Ci. with nebulous formation. Drift till 3-30 p.m. Prismatic clouds at 5 p.m.
- 26 Clear.
- 27 Clear.
- 28 Noon to 3 p.m. Ci.-St. N.E. to S.W. 9-12 p.m. Ci. in N. chiefly. Polar halo.
- 29 Ci. with nebulous formation. 8 a.m. falling snow which ceased at 8 p.m.
- 30 Cu. in south 9-12 p.m. 47° Fahr. in sun at 3 p.m.
- 31 Cu. in south 3 a.m. Cu. in N. 12 a.m. Clear.

"THE GROTTOS," QUEEN MARY LAND.

NOVEMBER, 1912.

Date:

- 1 Ci. with nebulous formation. Falling snow 12 a.m.
- 2 Ci. with nebulous formation. Light falling snow and drift.
- 3 Ci. with nebulous formation. Falling snow and drift.
- 4 Ci. with nebulous formation. Falling snow. Heavy drift.
- 5 Ci. with nebulous formation. Falling snow. Medium drift. 3 p.m. falling snow and light drift.
- 6 Falling snow ceased by 3 p.m.
- 7 Noon Noah's Ark W.N.W. to E.S.E. Clear 3-6 a.m. and 9-12 p.m. Halo 9 a.m. all day. At 9 p.m. as seen setting in clear sky two short horizontal beams and one vertical 25°. Prismatic colouring in N.E.
- 8 Bright halo with mock suns at 5 p.m.
- 9 Ci. with nebulous formation. Solar halo.
- 10 3-9 p.m. Ci. with nebulous formation. Solar halo. Ci.-St. in E., a brilliant dark blue.
- 11 Ci. with nebulous formation came over from W. since 3 p.m. Ci. going E. at 3 p.m. Noah's Ark N.N.W. to S.S.E. moving E. at 9 p.m.
- 12 Clear 6 a.m. Cu. N.E. to S. 9 a.m. A.-Cu. moving W. noon.
- 13 Ci. noon to 3 p.m. going E. Ci. with nebulous formation 6-12 p.m.
- 14 Ci. with nebulous formation.
- 15 Ci. with nebulous formation lifting in E. at noon. Ci.-Cu. going W. at 6 p.m. Solar halo. Drift ceased at 3-30 p.m. Thick fog N. showing heavy water sky N.N.E. to W. Wonderful cloud shadows through Ci.-Cu.
- 16 12 noon St.-Ci. rising and going E. 3 p.m. Ci.-St. moving E. slowly 6-12 p.m. Ci.-St. radiating from W.
- 17 9-12 a.m. rising and going E. 6 p.m. going E.
- 18 Noon Ci. going W. by S. 6-9 p.m. A.-Cu. going W. Drift. A.-Cu. came up W. by N. at 4-30 p.m. and spread across in half an hour. Heavy water sky N. to W. Foggy, mid-night.
- 19 Cu. and fog underneath at 9 p.m.
- 20 6 a.m. very dull. Light falling snow.
- 21 Heavy falling snow.
- 22 No remarks.
- 23 Gustly. Cu. and fog 3 p.m. Clearing 9 p.m.
- 24 St. all round horizon at 3 p.m. Cu. up from E. at 3-30 p.m. rapidly over southern half of sky in 20 minutes. Stationary till 4-45, then spread out N. Prismatic colouring of purple to red near sun in W. at cloud edges.
- 25 3 p.m. Ci. moving W. 6 p.m. Ci.-Cu. from W. to E.
- 26 9 a.m. to 3 p.m. Ark S.W. by N. to N.E. by S. 6 p.m. Ark mostly on S. of zenith. 9 p.m. A.-Cu. going rapidly W. and about half height of Ci.-St. Solar halo.
- 27 9 a.m. low drift. 3 p.m. clear.
- 28 Fog 10-3 a.m. to noon. Fog thin 3 p.m. to midnight, showing Cu. Falling snow lightly from S. by E. Stopped 1 p.m.
- 29 3 to 6 a.m. fog, then showing Cu. Very heavy water sky N.E. to N.W. Wind rose 12-30 p.m. Heavy drift and falling snow. Latter ceased at 12 p.m.
- 30 9 a.m. to 6 p.m. fog 600-700 feet, going fast E. to W. 9 to 12 p.m. Cu. hidden by thick fog 2 at N.E. to S.W. Although high wind, no drift blowing—surface being sodden. Heavy water sky.

Table VII.—DAILY WEATHER REMARKS—*continued.*

"THE GROTTOS," QUEEN MARY LAND.

DECEMBER, 1912.

Date.

- 1 9 a.m. to 3 p.m. fog 10. 6 p.m. to 9 p.m. fog showing Cu. Heavy water sky. Light drift and falling snow.
- 2 12 noon thin fog. Medium drift. 3 to 6 p.m. fog 8 (thin). 9 p.m. fog 10. No drift at 3 p.m. but light again at 9 p.m.
- 3 9 p.m. Ci.-Cu. from S.W. to N.E. Wonderful cloud shadows in N.E. at 9 p.m.
- 4 9 a.m. Ci.-Cu. S.W. to N.E. 3 to 6 p.m. clear. 9 p.m. Cu. rising from S.E. but radiating S.W. to N.E.
- 5 9 a.m. to 9 p.m. fog 10. Heavy water sky N.E. to W.
- 6 9 a.m. to noon fog 10. 3 p.m. fog 4. 9 p.m. Ci.-Cu. radiating S.W. to N.E. Water sky in N. now 10° to 12° in height.
- 7 9 a.m. to 6 p.m. clear. Bar. and therm. readings from graphs. Clouds and wind from glacier E. within 20 miles.
- 8 9 a.m. to 6 p.m. Cu. on N. horizon.
- 9 No remarks.
- 10 No remarks.
- 11 9 a.m. to noon Cu. on N. horizon. 3 p.m. to midnight clear.
- 12 Clear 9 a.m. to 9 p.m.
- 13 3 p.m. to 9 p.m. fog 10 (thin).
- 14 9 a.m. to 12 noon fog 10. 3 p.m. fog cleared S. to W. showing Cu. 4, fog 6. Light falling snow.
- 15 Fog 10 between 9 and 12 a.m. 3 p.m. thin fog 6. 6 p.m. A.-Cu. going slowly S. Light fall of specular snow 4 p.m.
- 16 9 a.m. fog 10. Noon clear. 6 p.m. Ci.-Cu. coming up from S.W.
- 17 9 a.m. fog 4. Refraction effects very strong N. to W.
- 18 Wet bulb 6 p.m., —33.8.
- 19 9 a.m. to 3 p.m. fog 10. 6 p.m. Cu. 10, thin fog 4.
- 20 9 a.m. A.-Cu. 10 moving W. 9 p.m. A.-Cu. 5 going W. from E.
- 21 Noon to 3 p.m. direction east. 9 p.m. Ci.-Cu. going W. Refraction effects N. to W.
- 22 9 a.m. to 6 p.m. clear. 9 p.m. St. 1 S. to E.
- 23 9 a.m. Ci.-St. radiating S. to N. from horizon to 45°. Noon radiating S. to N. from horizon to 60°; also band of Cu. 1 E. to S.W. low visible inside the Ci. band.
- 24 9 a.m. Ci.-St. and Ci. 8 radiating N.E. to S.W., wonderful sky with wisps of cloud (interspersed with radiating lines) in all directions. 3 p.m. Ci. 7 radiating E.N.E. to W.S.W. 6 p.m. Ci. 4 radiating E. to W. Solar halo.
- 25 9 a.m. to 3 p.m. clear. 6 p.m. Ci. 8 came up from W. to N.W. at 4.45 and spread across. 9 p.m. very windy looking.
- 26 9 a.m. radiating E.S.E. to W.N.W. Fog 3 rapidly going W. Noon fog 4. 3 p.m. fog 5. 9 p.m. Ci. 4 (radiating S.S.E.—N.N.W.), A.-Cu. 3 moving W.S.W. Solar halo.
- 27 6 p.m. Ci. 4 going E.S.E. Solar halo.
- 28 Noon Ci. 3 rising W.N.W. and crossing. 3 p.m. Ci.-Nb. 10 radiating E.S.E. to W.N.W. 6 to 9 p.m. fog 10. Open sea visible inside tilted berg. Solar halo.
- 29 Noon A.-Cu. 2 going W. 6 p.m. A.-Cu. 1 going W. 9 p.m. Ci. came up W.N.W. at 3.30 and spread irregularly but finally became of Noah's Ark form radiating W.S.W.—E.N.E.
- 30 3 a.m. fog 10 came from N.W. 9 a.m. to noon fog 10. 3 p.m. Cu. 9 slowly moving E. 6 p.m. A.-St. 3 moving fast E. Falling snow about 3 a.m. till 12 noon.
- 31 9 a.m. to noon clear. 3 p.m. St. 1 in north. 6 p.m. Ci. 4 coming over from N.W. in long filmy streamers. 9 p.m. Ci.-St. 4 going W. Solar halo 6 p.m.



Table VII.—DAILY WEATHER REMARKS—continued.

## THE GROTTOS, QUEEN MARY LAND.

JANUARY, 1913.

Date.

- 1 9 a.m. to 3 p.m. fog 10. 6 p.m. Cu. 6 slowly moving E.S.E. Fog 4 faster to W. by N. Fine snow and drift.
- 2 12 noon fog 3. 9 p.m. Ci. 3 rising from W. Clouds come up from W.S.W. at 10-30 a.m. Iridescent clouds at 11 a.m. All spread over to E. Light drift.
- 3 Noon to 6 p.m. Clear. 9 p.m. Ci.-St. 2 rising in W.
- 4 9 a.m. Ci. 8 with nebulous formation. Noon to 3 p.m. fog 10. 6 p.m. nebular Ci.-St. just visible through fog. 9 p.m. Ci.-St. 8 slowly going W. Solar halo. Strong refraction in N. and W. Falling snow 12-30. One mock sun at 9 p.m.
- 5 9 a.m. Ci. 4, Cu. 6 slowly going W. Noon Ci. and Ci.-St. 6 radiating E.S.E.-W.N.W. Solar halo. 3 p.m. Ci.-St. 3, Ci.-Cu. 3 going W. 6 p.m. Ci.-Nb. dull 10. 9 p.m. Ci.-Nb. 6, fog 6. Light drift. Heavy drift. Medium drift.
- 6 3 p.m. to 9 p.m. clear. Strong refraction N. to W.
- 7 9 a.m. St. 1 in north. Noon to 6 p.m. clear. 9 p.m. St.-Cu. 1 in E.
- 8 6 p.m. Ci.-St. 5 moving E.S.E. Cu. up from E. and covered southern half of sky, then to N. changing to A.-Cu., Ci.-Cu. and Ci.-St.
- 9 12 noon St. 10 clearing from S. towards N. 3 to 6 p.m. St. 1 in north. 9 p.m. clear.
- 10 9 a.m. Ci. 4 radiating N.E. by N. to S.W. by S. Noon Ci.-St. changed to Ci.-Cu. 6 same direction. 9 p.m. A.-Cu. 3, Ci.-Cu. 4 going S. by E. Solar halo. Heavy water sky N. to W.
- 11 3 p.m. Ci.-Nb. 6; fog 4 rapidly moving W. by N. Falling snow 9 a.m. to noon. 3 p.m. drift only. 6 p.m. falling snow.
- 12 9 a.m. fog 10. Noon Ci.-Nb. 6. 6 p.m. Cu. 4; fog 4 going W.S.W. Solar halo. Opalescent clouds.
- 13 9 a.m. fog 6; Ci.-Nb. 8. Noon Ci.-St. and Ci. 6 radiating S.S.W. to N.N.E. 6 p.m. Ci.-St. 8 moving S.W. 9 p.m. fog 10. Solar halo.
- 14 No remarks.
- 15 No remarks.
- 16 Solar corona at 2 p.m.
- 17 Noon to 3 p.m. clear. 6 p.m. St. 2 rising in W. 9 p.m. St. 1 in W.
- 18 3 p.m. to midnight clear.
- 19 9 a.m. to noon clear. 6 p.m. clear. 9 p.m. Ci.-St. 3 radiating S. by E. to N. by W., rising from S.
- 20 9 a.m. to 9 p.m. clear.
- 21 9 a.m. to midnight clear.
- 22 9 a.m. Ci.-Cu. 6 S. to N. 12 noon Cu. 10 came over from N.W. 3 p.m. very light snow. Slightly heavier later.
- 23 Light falling snow. Heavy water sky. Falling snow. Midnight Cu. 10, St. 6 lower.
- 24 9 a.m. clear. 3 p.m. clear. 6 p.m. Ci.-St. 8 up from W. by N. Solar halo 9 a.m. and 3-6 p.m.
- 25 Heavy water sky. Light falling snow at 9-30 p.m. A bright line appeared through water sky in N. at 85° towards W. It appeared to be lower portion of a fog bow. Sky all very dark.
- 26 3 p.m. Ci.-St. 2 in N.W. 9 p.m. Ci.-St. and Ci. 6 radiating N.E. to S.W. Iridescent clouds 10 a.m. to 3 p.m.
- 27 Noon to 9 p.m. clear. Mirage at 9 p.m.
- 28 9 a.m. to 6 p.m. clear. 9 p.m. St. 6 coming from E.N.E. and moving W.S.W.
- 29 Light drift; falling snow. Snow ceased 5 p.m. Parhelion 9 p.m.
- 30 9 a.m. to 9 p.m. clear. 1 p.m. relative humidity 78 at 29° to 27-6°. Heavy mirage.
- 31 9 a.m. Cu. 3 going W. 3 p.m. Cu. 5 going W.S.W. Drift during night and Cu. 10 at 6 a.m. Light drift 10 a.m.

## "THE GROTTOS," QUEEN MARY LAND.

FEBRUARY, 1913.

Date.

- 1 9 a.m. Cu. 7 going W.N.W. 3 p.m. Ci. 3 radiating S. to N. 6 p.m. Ci. 4 radiating S. to N. 9 p.m. Cu. 3 going W. Iridescent clouds.
- 2 Noon Ci.-St. 2 radiating S. by W. to N. by E. 3 p.m. Ci.-Cu. 3 radiating S. by W. to N. by E. 9 p.m. Ci.-Cu. 6 going S.W., radiating S.S.W. to N.N.E. Iridescent clouds in N.W. 3 p.m.
- 3 Light falling snow.
- 4 Medium drift 9 a.m. Falling snow, large flakes 9 p.m.
- 5 9 a.m. falling snow. Falling snow ceased at 6 p.m.
- 6 No remarks.
- 7 Medium drift 9 a.m. to noon.
- 8 Very dark water sky. Low drift.
- 9 3 p.m. Ci.-Cu. 4 going E.
- 10 Fog on floe, thick at 9 p.m.
- 11 9 p.m. St. 8 going E. Snowfall began at 6 a.m. and ceased by 1 p.m. Low drift and heavy water sky all day.
- 12 9 a.m. Ci.-Nb. 6 radiating W. by S. to E. by N. Solar halo. Medium to heavy drift all day. Falling snow.
- 13 Heavy drift and falling snow.
- 14 6-9 p.m. clear. Low drift.
- 15 9 a.m. A.-Cu. 6 going E. 3 p.m. Ci. 2, Cu. 2 going E. 6 p.m. Cu. 6, St. 4 going W. 9 p.m. St. 2 going W. Low drift.
- 16 No remarks.
- 17 Heavy water sky. Light falling snow.
- 18 Medium drift.

## PART II.

## METEOROLOGICAL RECORD OF S.Y. "AURORA."

RECORDED BY PERCIVAL GRAY (*Second Officer*), ASSISTED BY C. DE LA MOTTE (*Third Officer*),  
UNDER DIRECTION OF CAPTAIN J. K. DAVIS.

## INTRODUCTORY REMARKS.

By D. MAWSON.

During the progress of the Expedition, the S.Y. "Aurora" under the command of Captain J. K. Davis made three summer cruises in Antarctic waters southward of Australia and two Subantarctic cruises, one of which was conducted in the height of winter. As that section of the Antarctic seas visited was an almost unknown area the ship's meteorological records are specially valuable and are reproduced as Part II of this volume. The voyage from Capetown to Hobart in the spring of 1911 is also judged of sufficient interest to be incorporated herewith.

The officer principally responsible for keeping this record was Percival Gray, the Second Officer, but Captain Davis took a personal interest in the matter whereby the loggings greatly benefited from his experience. The entries were made in tabular form in the usual meteorological log books designed and printed for the purpose by the Hydrographical Department in collaboration with the Meteorological Office.

The data is published as observed, with the necessary temperature, gravity and altitude corrections to the barometer readings, while the relative and absolute humidities have been computed and included.

*Pressure.*—Owing to the mercurial barometer being out of order between the 20th November, 1913, and 17th December, 1913, readings were obtained for that period as visual observations of a special 6-inch aneroid with extended scale which was regularly carried on the ship. A careful comparison of the aneroid with the mercurial barometer had established a constant correction of +0.15 inch which has been applied throughout to these aneroid readings. Observation established that with the application of the above correction a satisfactory degree of accuracy was obtained.

*Clouds.*—The proportion of the sky clouded is expressed on the usual scale of 0 to 10. The cloud types listed below have been recorded. Both in the tables of this section and of Part III of this volume some irregularity will be noted in the abbreviations used to denote cloud types. For instance S. for stratus and N. for nimbus is usually adopted. In all cases, however, the type of cloud intended is obvious.

Cloud Type.	Abbreviations.
Cirrus...	Ci.
Cirro-Stratus	Ci.-St.
Cirro-Cumulus	Ci.-Cu.
Alto-Cumulus	A.-Cu.
Alto-Stratus	A.-St.
Cumulus	Cu.
Cumulo-Nimbus	Cu.-Nb.
Nimbus	Nb.
Stratus	St.
Fracto-Cumulus	Fr.-Cu.
Fracto-Stratus	Fr.-St.
Strato-Cumulus	St.-Cu.
Mammato-Cumulus	Mam.-Cu.
Fracto-Nimbus	Fr.-Nb.
Strato-Nimbus	St.-Nb.

*Fog.*—The scale of Fog Intensity is that generally adopted, namely :—

- 0—No fog or mist.
- 1—Light fog or mist.
- 2 } Moderate fog.
- 3 }
- 4 } Thick fog.
- 5 }

*Weather.*—In recording the general state of the weather the usual practice has been followed by signifying the conditions by a series of letters as herewith :—

- |                      |  |
|----------------------|--|
| b—Blue sky.          | q—Squally.   |
| c—Clouds (detached). | r—Rain.  |
| d—Drizzling rain.    | s—Snow.  |
| e—Wet without rain.  | t—Thunder.   |
| f—Foggy.             | u—Ugly (threatening appearance of weather).            |
| g—Gloomy.            | v—Visibility. Objects at a distance unusually visible. |
| h—Hail.              | w—Dew.   |
| l—Lightning.         | z—Haze.  |
| m—Misty.             |  |
| o—Overcast.          |  |
| p—Passing showers.   |  |

*Wind.*—In the "Aurora's" meteorological logs the wind is recorded on the Beaufort Scale of force as detailed in the introductory remarks preceding Part I of this volume.

*Sea Disturbance.*—The practice of the Hydrographic Office has been followed. The scale of roughness from 0 to 10 is recorded according to the following scale :—

Scale.	Description.	Height of Waves in feet from Crest to Trough.	Condition of Surface.
0	Calm ... ..	.....	Glassy.
1	Smooth ... ..	.....	Rippled.
2			
3	Slight to moderate ... ..	Under 5 feet ... ..	Rocks buoy or small boat. Furrowed.
4			
5	Rough to very rough ... ..	5 to 10 feet ... ..	Deeply furrowed; much dis- turbed.
6			
7	High to very high ... ..	{ 11 to 15 feet ... .. 16 to 35 feet ... ..	} Rollers with steep fronts.
8			
9	Phenomenal... ..	36 feet and above ... ..	Precipitous; towering.
10			

The same scale numbers and the corresponding heights from crest to trough are used for waves and for swell. Where the sea is "confused" the chief direction of motion is indicated.

Table VIII.—CAPETOWN TO HOBART VOYAGE.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1911.																		
September	4	...	...	29.98	59	90	-447	...	Cu.-Nb.Nb.	5	b c w	W.	1	...	...	W.N.W.	3	12 20 Dánger Pt. abeam 6 m.
28	8	...	...	30.05	60.8	88	-470	Cl.	Cu., Nb.	5	b c p	Var.	1	...	...	W.	4	3 0 Light rain squall.
	Noon	35 43	10 47	30.02	65.4	71	-444	Cl., Cl.-Cu.	Cu., St.	4	b c	S.S.W.	1	...	...	Confused	3	4 0 Heavy clouds to W. with lightning.
	4	...	...	30.02	63.9	78	-464	Cl.	Cu.	3	b c	S.S.E.	2	S.S.E.	1	S.	3	8 0 Light rain at intervals.
	8	...	...	30.11	...	...	...	...	...	...	...	...	...	...	...	...	...	6 0 Wind increasing.
	Midnight	...	...	30.12	...	...	...	...	Cu.-Nb., S.	5	b c p	S.E. by S.	5	S.E. by S.	3	...	...	10 0 Wind and sea increasing considerably.
29	4	...	...	30.12	60.2	76	-392	...	St.	3	b c	S.E. by S.	6	S.E. by S.	4	S.E.	4	St. low all round horizon.
	8	...	...	30.18	59.5	73	-372	...	St., Fr.-Cu.	3	b c	S.E. by S.	7	S.E. by S.	5	S.E. by S.	5	4 0 Rolling and pitching considerably; stars very bright.
	Noon	36 19	21 12	30.25	60	76	-395	...	St., Cu.-St.	10	o	S.E. by S.	6	S.E. by S.	5	S.E.	5	
	4	...	...	30.25	60.4	74	-389	...	St., Mam.-Cu.	9	b c	S.E. by S.	6	S.E. by S.	4	S.E. by S.	5	5 0 Wind decreasing.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	30.41	60	74	-380	...	St.	10	o q	S.E.	3	S.E.	2	S.E.	4	
30	4	...	...	30.46	59	70	-351	...	Cu.-Nb., St.	10	o q	S.E.	3	S.E.	3	S.E.	5	
	8	...	...	30.44	59	67	-334	...	Cu.-Nb., St.	10	o q	S.E. by S.	3	S.E.	2	S.E.	5	Ship rolling heavily at times.
	Noon	37 7	22 50	30.47	60.6	67	-358	Cl.-Cu.	St., Cu.	3	b c	S.E. by S.	3	S.E. by S.	2	S.E.	5	
	4	...	...	30.42	60.4	69	-360	...	Cu.	6	b c	S.E. by S.	3	S.E. by S.	3	S.E.	5	
	8	...	...	30.52	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	30.45	59	79	-394	...	Cu., Cu.-Nb.	7	b c	E.S.E.	2	E.S.E.	1	S.E. by E.	3	Wind veering throughout watch.
October	4	...	...	30.46	59.5	77	-393	...	Cu.-St.	10	o	E. by N.	3	E. by N.	1	S.E. by E.	3	
1	8	...	...	30.47	60	71	-366	...	Cu., Cu.-St.	10	o	E. by N.	3	E. by N.	2	E.S.E.	3	
	Noon	38 53	23 37	30.43	60.8	76	-399	...	Cu.	4	b c	E. by N.	4	E. by N.	3	E.	2	Ship evidently experienced a strong N.W. set. Dead reckoning reliable within a mile or two.
	4	...	...	30.39	57	97	-450	...	Cu.	2	b c	E. by S.	3	E. by S.	2	S.E.	1	2 30 Wind backed to E. by S.
	8	...	...	30.44	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Cumulus low round eastern horizon.
	Midnight	...	...	30.41	57.5	81	-385	...	...	0	b	N.E. by N.	2	...	...	E.N.E.	3	Wind veering throughout watch.
	4	...	...	30.38	58	81	-392	...	Cu.	1	b	N.E.	2	...	...	E.N.E.	4	12 45 Peculiar cirrus cloud in the form of a large rainbow stretching from E.S.E. halfway to the zenith and down to N.N.E.
	8	...	...	30.41	59	82	-408	...	St., Cu.-St.	9	o e	S.E. by E.	2	...	...	Confused	3	4 0 Cu. to St. only. Ship rolling considerably.
	Noon	40 59	24 56	30.37	61.0	77	-428	Cl.	Cu., St.	6	b c	Calm, N.E.	1	...	...	S.	4	7 0 Wind backed to S.E. and sky overcast from S.
	4	...	...	30.39	60	88	-455	Cl.-Cu.	Cu., Cu.-Nb.	8	b c	N.E., E. by S.	1	E. by S.	3	S.	3	3 0 Breeze from E. by S.; heavy clouds to S.
	8	...	...	30.51	...	...	...	...	...	...	...	...	...	...	...	...	...	5 0 Sky overcast from S.
	Midnight	...	...	30.45	56	90	-405	Cl.	...	1	b c	N.E.	4	N.E.	3	...	...	6 0 Heavy rain squall.
																		9 0 Sky clearing. Wind gradually veering.
																		Midnight. Wind steady.

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1911. October																		
3	4	...	...	30-36	54	93	-389	...	...	0	b w	N.N.E.	3	N.N.E.	2	N.N.E.	1	
	8	...	...	30-38	55.5	97	-426	Cl.	...	2	b c	N.E. by E.	3	N.E. by E.	2	N. by E.	3	Wind variable between N. by E. and N.E. by E.
	Noon	42-43	27-10	30-33	56.8	96	-438	Cl.	St.	1	b	N. by E.	4	N. by E.	2	N. by E.	2	St. low round horizon to S. and W.
	4	...	...	30-23	55.8	96	-422	...	St.	1	b	N. by E.	4	N. by E.	3	N. by E.	2	
	8	...	...	30-21	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30-17	54.5	98	-420	...	Cu., Cu.-Nb. St.	9	o w	N.	3	N.	2	N.N.E.	2	
4	4	...	...	30-12	55	97	-418	...	St.	10	o w	N. by W.	4	N by W.	3	N.	2	2 0 Wind increasing.
	8	...	...	30-05	53.9	98	-404	Cl.	St., Cu.-Nb. St.	8	b c q	N.N.W.	5 or 6	N.N.W.	4	N.	2	8 30 Rain squall.
	Noon	43-20	30-12	29-96	54	98	-411	...	St.	10	o	N.N.	5	N.N.W.	4	N.N.W.	3	1 0 Thick drizzling rain and fog.
	4	...	...	29-90	51	100	-373	...	St.	10	o f d	N.W. by N.	4	N.N.W.	3	N.N.W.	4	7 30 Wind veered to W.S.W.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 30 Wind veered to S.
	Midnight	...	...	29-92	...	...	...	...	Nb.	10	o r q	S. by E.	4	S.	4	Confused	2	
5	4	...	...	29-94	46	80	-249	...	St., Nb.	10	o q	S.S.E.	4	S.S.E.	4	Confused	2	3 0 Rain clearing off. Clouds breaking to S.W.
	8	...	...	30-06	45	69	-206	Cl.	St., St.-Cu.	8	b c	S.S.E.	5	S.S.E.	4	S.	2	8 0 Upper clouds from N.W. Heavy Cu.-Nb. to N.E.
	Noon	43-25	32-57	30-14	45	68	-204	...	St.-Cu., Cu.-Nb. St., Cu.	5	b c	S. by E.	5	S. by E.	4	S.	4	2 0 Wind and sea decreasing.
	4	...	...	30-16	46	69	-214	...	Cu., St.	3	b c	S.S.E.	3	S.S.E.	3	S. by W.	4	
	8	...	...	30-24	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30-23	43	67	-185	...	St., St.-Cu.	10	o	S. by E.	2	...	...	S.	2	
6	4	...	...	30-20	42	66	-176	...	St., St.-Cu.	10	o	S.S.W.	2	...	...	S.	3	2 0 Wind backed to S.S.W.
	8	...	...	30-19	42	74	-198	...	St., Cu.	10	o	S.	1	...	...	S.	4	10 0 Swell increasing; ship rolling considerably.
	Noon	43-27	36-17	30-13	49	63	-213	...	Cl.-Nb. Cu., Cu., St., Cu.	7	b c	Calm	0	...	...	S.W. by S.	6	2 0 Breeze from W.N.W.
	4	...	...	30-08	45.5	73	-220	...	St., Cu.	6	b c	W.	1	...	...	S.W.	6	
	8	...	...	30-12	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30-00	41	91	-233	...	St., Nb.	10	o d	W.S.W.	3	W.S.W.	2	S.W.	5	Midnight. Drizzling rain squall.
7	4	...	...	29-95	42	83	-220	...	St., Nb.	10	o	W.S.W.	3	W.S.W.	2	S.W. by W.	6	4 0 Heavy N. to S.W. Ship rolling considerably.
	8	...	...	29-95	43	81	-226	...	St., Cu.-Nb. Cu.	10	o c	S.W. by W.	2	S.W. by W.	2	S.W. by W.	6	
	Noon	43-37	39-40	29-94	49.2	63	-222	Cl.	St., Cu.	5	b c	W.S.W.	4	W.S.W.	3	S.W. by W.	5	
	4	...	...	29-89	46.8	80	-250	Cl.-Cu.	St.-Cu.	8	b c	W. by S.	4	W. by S.	3	S.W. by W.	5	5 0 Heavy clouds to S.W.
	8	...	...	29-94	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	29-95	40	68	-167	...	Cu., St.	8	b c	S.S.W.	5	S.S.W.	4	S.W. by S.	4	1 0 Sky clearing.

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1911. October. 8	4	...	...	29-05	39	72	172	...	Cu.	2	bc	S.S.W.	4	S.S.W.	3	S.W.	4	
	8	...	...	29-08	39.8	75	185	...	Cu.	5	bc	S.S.W.	4	S.S.W.	4	S.W.	4	
	Noon	43 47	43 8	29-04	41	67	172	...	Cl., St.	3	bc	S.W. by S.	4	S.W. by S.	4	S.W. by W.	4	Noon. Cu. to eastward; St. to westward.
	4	...	...	29-05	40.4	79	196	...	St.	10	o	W.N.W.	3	W.N.W.	2	W. by S.	4	3 0 Wind backed to W.N.W.
	8	...	...	29-72	...	...	...	...	...	...	...	...	...	...	...	...	...	5 0 Wind increasing.
	Midnight	...	...	29-41	...	...	...	...	Nb.	10	oqr	N.W. by W.	8	N.W. by W.	7	N.W.	6	Midnight. Ship rolling heavily.
9	4	...	...	29-26	41	100	256	...	Nb.	10	oqd	N.W. by W.	7	N.W. by W.	6	N.W.	6	2 30 Sky breaking to N.W.
	8	...	...	29-23	42.5	89	244	...	St., Cu.-St.	10	oq	W.	7	W.	5	W.N.W.	5	
	Noon	44 27	47 2	29-23	44	80	229	...	Cu., St.	7	bc	W.	7	Confused	6	W.N.W.	6	
	4	...	...	29-28	41.8	85	223	...	Cu., St.	9	bc	W.	7	Confused	6	N.W. by W.	6	
	8	...	...	29-29	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29-30	37	90	198	...	St., Cu.-Nb.	10	oqc	W.S.W.	6	Confused, S.W.	5	W.	5	
10	4	...	...	29-30	38	86	195	...	Cl., St., Cu.	8	bcqp	W.S.W.	7	W.S.W.	6	W.	6	2 30 Wind freshening. Occasional rain squalls.
	8	...	...	29-33	36	90	190	...	Cl., Cu.-Nb., St.	8	bcq	W.S.W.	8	W.S.W.	7	W.	6	Light snow storms at intervals.
	Noon	44 30	50 55	29-33	38	68	153	...	St., Cu.-Nb.	9	cq	W.S.W.	8	W.S.W.	7	W.S.W.	7	Noon. Snow and hail at intervals.
	4	...	...	...	37.5	76	170	...	Cu., Cu.-Nb., St.	8	bcq	W.S.W.	9	W.S.W.	8	W.S.W.	8	4 0 Frequent snow squalls.
	8	...	...	29-34	...	...	...	...	...	...	...	W.S.W.	9	...	...	...	...	...
	Midnight	...	...	29-39	37	76	166	...	Nb.	10	oqhs	W.S.W.	9	W.S.W.	8	W.S.W.	8	Midnight. Frequent heavy snow squalls.
11	4	...	...	29-36	35	90	182	...	Nb.	10	oqhs	S.W. by W.	9	S.W. by W.	8	W.S.W.	8	
	8	...	...	29-45	37	71	156	...	St., Nb.	10	oq	S.W. by W.	9	S.W. by W.	8	S.W. by W.	8	
	Noon	44 11	56 5	29-47	38	78	179	...	St., Cu.-Nb.	10	oq	S.W.	8	S.W.	8	S.W.	8	Frequent snow squalls.
	4	...	...	29-49	40.5	69	174	...	Cu., Cu.-Nb.	9	cq	S.W.	8	Confused	8	S.W. by W.	8	
	8	...	...	29-53	...	...	...	...	Cu., Cu.-Nb.	...	...	...	...	...	...	...	...	9 0 Weather moderating.
	Midnight	...	...	29-50	37	100	219	...	Cu., St., Cu.-Nb.	8	bcq	S.W. by S.	7	S.W.	7	S.W.	7	
12	4	...	...	29-49	39	95	226	...	Cu., Cu.-Nb.	8	bcq	S.W. by S.	7	S.W.	7	S.W.	7	2 30 Very heavy snow squall.
	8	...	...	29-51	37.8	79	177	...	Cu., Cu.-Nb.	6	bcq	S.W. by S.	8	S.W. by S.	8	S.W.	8	4 0 Wind and sea increasing.
	Noon	43 47	60 37	29-57	39	66	155	...	Cu., Cu.-Nb.	6	bcq	S.W.	9	S.W.	8	S.W.	8	
	4	...	...	29-67	38	90	206	...	Cu., Cu.-Nb.	6	bcq	S.W.	7	S.W.	8	S.W.	7	3 0 Weather moderating. Frequent snow squalls.
	8	...	...	29-78	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29-76	40.3	91	227	...	Cu.-Nb.	5	bcq	W.S.W.	6	S.W. by W.	5	S.W.	6	Midnight. Frequent heavy snow squalls.

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
														Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1911. October. 13	4	...	...	29.60	44	84	240	...	Cu., Cu.-Nb.	5	b c q	W. by S.	5	Confused	5	Confused	5	2 0 Wind shifting to W. and W. by N. during squalls. Snow squalls changing into rain.
	8	...	...	29.66	45.8	80	247	Cl.	Cu., Cu.-Nb.	6	b c q	W. by N.	6	W. by N.	6	Confused	4	4 0 Rain squalls at intervals.
	Noon	43 24	64 55	29.55	49.3	83	292	...	Cu., Cu.-Nb.	8	o q r	W.N.W.	7	W.N.W.	6	W.S.W.	5	9 0 Wind increasing.
	4	...	...	29.41	49.5	89	314	...	Cu., Cu.-Nb. St.	10	o q	W.N.W.	7	Confused	6	W.S.W.	6	6 0 Wind and sea increasing.
	8	...	...	29.23	...	...	...	...	Cu.-Nb.	...	...	W.N.W.	9	...	...	...	...	8 0 Vivid lightning all round horizon. Terrific squalls.
	Midnight	...	...	29.17	44	79	229	...	Nb.	10	o q r	W. by N., W. by S.	9	W. by S.	8	W.	8	9 30 Wind veered to W. by S.
14	4	...	...	29.21	40	91	224	...	Cu., Cu.-Nb.	8	o q	W.S.W.	8	W.S.W.	8	W.	8	11 0 Lightning disappearing to eastward. Wind force 10 during squalls.
	8	...	...	29.24	39.2	79	191	...	Cu.	6	b c q	S.W.	9	S.W.	8	W. by S.	8	4 0 Frequent very heavy squalls. Rain changing to hail.
	Noon	42 20	69 5	29.27	42	62	165	...	Cu., Nb.	7	b c q	S.W. by S.	8	S.W. by S.	8	S.W.	8	8 0 Frequent very heavy hail squalls.
	4	...	...	29.37	40.2	71	178	...	Cu., Nb.	6	b c q	S.W. by S.	8	S.W. by S.	8	S.W.	8	
	8	...	...	29.49	...	...	...	...	...	...	...	S.W. by S.	8	...	...	...	...	8 0 Squalls becoming less frequent
	Midnight	...	...	29.59	40	82	202	...	Cu., St., Cu.-Nb.	7	b c q	S.W. by S.	8	S.W. by S.	8	S.W.	8	Midnight. Frequent hail squalls.
15	4	...	...	29.63	38	90	206	...	Cu., Nb.	8	b c q	S.W. by S.	8	S.S.W.	7	S.W. by S.	7	4 0 Squalls less frequent.
	8	...	...	29.65	40	82	202	...	Cu., Cu.-Nb.	8	b c q	S.S.W.	8	S.S.W.	7	S.S.W.	7	
	Noon	42 27	72 36	29.71	41	82	211	...	Cu., Cu.-Nb.	8	b c q	S.S.W.	7	S.S.W.	7	S.W. by S.	7	
	4	...	...	29.78	40	82	202	...	Cu., Nb.	8	c q s	S.S.W.	7	S.S.W.	7	S.W. by S.	7	
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29.77	43	87	243	...	Nb.-St.	10	o q r	S.S.W.	6	S.S.W.	6	S.S.W.	6	
16	4	...	...	29.70	43.2	91	255	...	Nb.	10	o q d	S.S.W.	5	S.S.W.	6	S.S.W.	6	Ship rolling heavily.
	8	...	...	29.78	43.2	83	232	...	Cu., Cu.-Nb.	8	b c q	S.S.W.	6	S.S.W.	6	S.S.W.	6	4 0 Frequent rain squalls. Drizzling rain throughout.
	Noon	41 50	76 7	29.85	44	75	217	...	St., Cu.-Nb.	10	c o	S.S.W.	6	S.S.W.	5	S.S.W.	6	4 30 Sky clearing.
	4	...	...	29.89	45	76	227	...	Mam.-Cu., St.	8	b c	S.S.W.	5	S.S.W.	4	S.S.W.	6	
	8	...	...	29.96	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29.88	48.5	89	302	Cl.-St.	St.	10	o	S. by W.	2	...	...	S.S.W.	6	Midnight. Drizzling rain at times.
17	4	...	...	29.81	50	93	334	...	St.	10	o	W.N.W.	3	...	...	S.S.W.	4	1 0 Wind backed to W.N.W.
	8	...	...	29.69	52	93	360	...	Cu., St.	10	o	N.W.	5	N.W.	3	W.S.W.	4	5 0 Wind increasing and backing.
	Noon	42 26	79 55	29.57	51.5	100	380	...	Nb.	10	o d	N.W.	6	N.W.	5	W.N.W.	3	2 0 Wind freshening.
	4	...	...	29.46	52	100	387	...	Nb.	10	o r	N.W.	7	N.W.	5	W.N.W.	5	4 15 Wind veered suddenly to W. by S.
	8	...	...	29.58	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29.53	47	85	272	...	Cu., Cu.-Nb.	8	b c q	W. by S.	7	W. by S.	5	W. by S.	6	



Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1911. October. 18	4	...	...	29-56	46-5	88	·279	...	Cu., St., Cu.-Nb.	8	bcq	W.S.W.	7	W.S.W.	6	W.S.W.	6	4 0 Frequent heavy squalls. Rain at intervals.
	8	...	...	29-54	46-8	79	·250	...	Cu., Cu.-Nb.	6	bcq	W.S.W.	7	W.S.W.	6	W.	6	
	Noon	42 18	84 43	29-49	49	85	·296	...	Cu., Cu.-Nb.	6	bcq	W.S.W.	7	W. by S.	5	W. by S.	6	Noon. Heavy squalls at times.
	4	...	...	29-48	47-8	87	·286	Cl.	Cu., Cu.-Nb.	6	bcq	W.S.W.	8	Confused	6	W. by S.	7	2 45 Very heavy squall.
	8	...	...	29-53	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Sea increasing.
	Midnight	...	...	29-47	44	92	·264	...	Cu., Cu.-Nb.	7	bcq	W.S.W.	5	W.S.W.	3	S.W. by W.	6	10 0 Wind moderating. Midnight. Heavy squalls at times, with rain.
19	4	...	...	29-45	43	83	·230	...	Cu.-Nb.	3	bcq	W.S.W.	5	W.S.W.	3	W.S.W.	6	4 0 Occasional rain squalls, without much wind.
	8	...	...	29-41	42	85	·224	Cl.	Cu., Cu.-Nb.	5	bcq	S.W.	7	S.W.	5	S.W.	6	5 0 Wind freshening.
	Noon	42 20	89 2	29-36	42-3	73	·199	Cl.	Cu., Cu.-Nb.	5	bcq	S.W.	7	S.W.	5	S.W.	6	Noon. Frequent hail squalls.
	4	...	...	29-31	43	67	·185	...	Cu., Cu.-Nb.	8	bcq	S.W. by S.	7	S.W. by S.	5	S.S.W.	6	4 0 Squalls at intervals, with hail rain and snow.
	8	...	...	...	...	...	...	...	...	...	...	S.W. by S.	7	...	...	...	...	9 0 Wind moderating.
	Midnight	...	...	29-33	39	91	·215	...	Cu., Cu.-Nb.	7	bcq	S.W. by S.	5	S.W. by S.	4	S.S.W.	6	Frequent hail squalls.
20	4	...	...	29-34	39	91	·215	...	Cu.-Nb.	5	bcq	S.S.W.	6	S.S.W.	5	S.S.W.	5	4 0 Frequent heavy squalls with hail.
	8	...	...	29-36	41-3	66	·172	...	Cu., Cu.-Nb.	6	bcq	S.S.W.	7	S.S.W.	5	S.S.W.	6	5 0 Wind freshening.
	Noon	42 19	93 5	29-39	43-5	75	·212	...	St., Cu.-Nb.	10	ocq	S. by W.	7	S. by W.	5	S.S.W.	6	
	4	...	...	29-42	42	83	·220	Cl.	Cu.-Nb.	4	bcq	S. by W.	7	Confused	5	S.S.W.	6	4 0 Frequent squalls. Rolling heavily.
	8	...	...	29-55	...	...	...	...	Cu., Cu.-Nb.	...	...	...	...	...	...	...	...	9 0 Wind moderating.
	Midnight	...	...	29-57	45	80	·239	...	St., Nb.	10	oq	S.S.W.	5	S.S.W.	5	S.S.W.	6	Midnight. Rolling violently throughout watch. Occasional squalls.
21	4	...	...	29-64	46	81	·249	Cl.-St.	St.	10	o	S.S.W.	4	S.S.W.	5	S.S.W.	6	
	8	...	...	29-70	45	80	·239	Cl.	Cu., Cu.-St.	6	bc	S.W. by S.	4	S.W. by S.	4	S.W. by S.	6	
	Noon	42 15	96 43	29-75	48-3	83	·280	Cl.	Cu.	6	bc	S.W. by S.	3	S.W. by S.	3	S.W.	6	1 30 Wind backed to west.
	4	...	...	29-76	50-8	73	·273	...	St., Cu., Cu.-Nb.	7	bc	W.	2	...	...	S.W.	5	
	8	...	...	29-81	...	...	...	...	...	...	...	...	...	...	...	...	...	7 0 Wind backed into N.W.
	Midnight	...	...	29-82	48-5	89	·302	...	St., Cu.	4	bc	N.W.	3	N.W.	1	S.W.	3	
22	4	...	...	29-80	49-5	94	·333	...	St.	10	o	N.W. by N.	3	N.W.	2	Confused	3	4 0 Sky clear at times.
	8	...	...	29-84	50	94	·339	Cl.-St., Cl.	St.	7	bc	N.W.	4	N.W.	2	Confused	3	
	Noon	42 32	100 0	29-87	51	98	·367	Cl.-St.	St.	8	bc	N.W.	4	N.W.	2	W. by N.	3	
	4	...	...	29-90	51	95	·357	Cl.-St.	St.	8	bc	N.W. by N.	3	N.W.	2	N.W.	2	
	8	...	...	29-98	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30-00	50-5	98	·363	...	St.	10	od	N.N.W.	2	...	...	N.W.	2	

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.		
1911. October. 23	4	...	...	30-01	50.4	98	.359	...	St., Nb.	5	b c w	N.N.W.	2	N.N.W.	1	N.W.	1	4 0 Sky overcast at times, with light rain.	
	8	...	...	30-05	50.8	99	.368	...	St.	2	b c	N.W. by N.	4	N.W. by N.	2	N.W.	1		
	Noon	42 44	103 30	30-08	51	95	.355	Ci.	St.	2	b c	N.N.W.	3	N.N.W.	2	N.W.	1		
	4	...	...	30-07	51	96	.360	...	St., Nb.	10	o	N.N.W.	3	N.N.W.	3	N.W.	1		4 0 Heavy rain clouds to N.N.W.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		...
	Midnight	...	...	29-97	50.1	99	.359	...	Nb.	10	o d	N.N.W.	4	N.N.W.	3	N.W.	3		Midnight. Drizzling rain throughout watch.
24	4	...	...	29-95	49	100	.347	...	Nb.	10	o q e	N.W. by N.	5	N.W. by N.	4	N.W.	3	2 0 Wind freshening.	
	8	...	...	29-95	50	100	.360	...	Nb.	10	o d	N.W. by N.	5	N.W. by N.	4	N.W.	4	4 0 Drizzling rain at times.	
	Noon	42 42	107 30	30-01	50	100	.360	...	Nb.	10	o d	N.W.	5	N.W.	4	N.W.	5		
	4	...	...	30-02	50.7	95	.351	...	St.	10	o	N.W.	5	N.W.	4	N.W.	4	4 0 Drizzling rain at times.	
	8	...	...	30-04	...	...	...	...	Nb.	10	o d	N.W. by W.	5	...	...	...	...	...	
	Midnight	...	...	30-00	50	97	.346	...	St., Nb.	10	o	N.W. by W.	5	W.N.W.	3	N.W.	4	Midnight. Drizzling rain at times.	
25	4	...	...	29-91	50	93	.334	...	St., Nb.	10	o d	N.W. by W.	5	W.N.W.	4	N.W.	4	...	
	8	...	...	29-89	50	97	.346	...	St., Nb.	10	o	W.N.W.	5	W.N.W.	5	N.W.	5	...	
	Noon	42 40 [D.R.]	111 17 [D.R.]	29-90	50	100	.360	...	Nb.	10	o d	W.N.W.	5	W.N.W.	5	N.W. by W.	5	...	
	4	...	...	29-91	51.8	96	.369	...	St., Nb.	10	o	W. by N.	5	W. by N.	4	W.N.W.	4	4 0 Drizzling rain at times.	
	8	...	...	30-03	...	...	...	...	...	...	...	...	...	...	...	...	...	5 30 Sky clearing to westward.	
	Midnight	...	...	30-02	51	93	.347	...	...	...	...	b w	W.	2	...	...	W.N.W.	2	...
26	4	...	...	30-03	49.5	89	.314	...	Cu.	2	b c w	W. by N.	2	W. by N.	1	W.N.W.	2	5 0 Overcast from westward.	
	8	...	...	30-02	50	88	.316	Cu.-St.	Ci.-St., St.	10	o c	W. by N.	2	W. by N.	1	W. by N.	2	...	
	Noon	43 0	115 10	30-00	50.2	90	.325	...	-St.	10	o c	W.N.W.	3	W.N.W.	2	W.N.W.	3	...	
	4	...	...	29-94	50	93	.334	...	St.	10	o c	W. by N.	3	W. by N.	2	W.	4	...	
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	29-92	49	100	.347	...	Cu., St.	3	b c w	N.N.W.	1	...	...	W.	1	10 0 Wind backing and dying down	
27	4	...	...	29-87	49.2	99	.344	Ci.-St.	Cu., St.	8	b c w	N.N.W.	2	...	...	W.N.W.	3	3 0 Clouding over from W.N.W.	
	8	...	...	29-86	51.4	98	.374	...	Nb., St.	10	o d	W.N.W.	2	W.N.W.	1	W.N.W.	3	8 0 Drizzling rain at times.	
	Noon	43 10	118 49	29-80	51	100	.373	...	St., Nb.	10	o	N.W. by W.	4	N.W. by W.	2	W.N.W.	4	...	
	4	...	...	29-78	51	100	.373	...	Cu., Cu.-St.	10	o c	N.W.	4	N.W.	3	W.N.W.	4	...	
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	29-72	51	100	.373	...	St.	3	b c w	N.	3	N.	3	N.W.	4	...	

METEOROLOGY.

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1911. October. 28	4	...	...	29.74	51	100	-373	...	Nb.	10	o d	N.	3	N.	3	N.W.	3	1 0 Sky overcast from N.
	8	...	...	29.59	51	100	-373	...	Nb.	10	o r	N. by W.	3	N. by W.	3	N.W.	3	3 30 Sharp rain squall.
	Noon	43 26	122 40	29.48	52	94	-367	...	St., Cu.-St.	10	o c	N.N.W.	5	N.N.W.	4	W.N.W.	5	5 0 Rain set in.
	4	...	...	29.42	49.8	94	-336	...	St., Cu.-St., Nb.	10	o	W.N.W.	3	W.N.W.	3	W.N.W.	4	9 0 Wind and sea increasing.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 0 Weather clearing.
	Midnight	...	...	29.44	48.8	94	-324	...	Nb.	10	d	N.W.	2	...	...	N.W.	3	Noon. Ship rolling considerably.
29	4	...	...	29.49	45	88	-262	...	St., Cu., Cu.-Nb.	7	b c	S.S.W.	5	S.S.W.	2	W.	1	1 0 Light rain at times. Wind veering.
	8	...	...	29.62	46	77	-237	...	Cu.	4	b c	S.S.W.	6	S.S.W.	4	S.S.W.	4	Midnight. Sharp rain at times.
	Noon	43 19	126 13	29.70	46	72	-226	...	Cu., Cu.-Nb.	5	b c	S. by W.	7	S. by W.	5	S.W. by S.	5	12 30 Wind veered to S.W.
	4	...	...	29.78	44.7	82	-343	...	Cu., Cu.-Nb.	5	b c q	S.S.W.	7	S.S.W.	5	S.W. by S.	5	1 30 Sky clearing. Wind increasing.
	8	...	...	29.92	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Wind and sea increasing.
	Midnight	...	...	29.99	40	100	-246	...	Cu., Cu.-Nb.	6	b c h	S.	5	S. by W.	5	S.W. by S.	5	4 0 Hail squalls at times.
30	4	...	...	30.05	43	83	-230	...	Cu., Cu.-Nb.	5	b c q	S.	4	S.	3	S.W. by S.	4	11 0 Very heavy hail squalls.
	8	...	...	30.17	44.5	80	-233	...	St., Cu.-Nb.	8	b c	S.	5	S.	3	S.S.W.	4	Midnight. Passing hail squalls.
	Noon	43 26	129 56	30.22	48	74	-247	...	St., Cu., Cu.-Nb.	7	b c	S.	4	S.	3	S. by W.	5	2 30 Very bright meteor to N.E.
	4	...	...	30.28	47	73	-237	...	Cu., Cu.-Nb.	5	b c	S.	1	S.	2	S. by W.	3	4 0 Occasional hail and rain.
	8	...	...	...	...	...	...	...	...	...	...	S.W.	1	...	...	...	...	8 0 Wind variable.
	Midnight	...	...	30.26	49	78	-270	...	Cu., Cu.-Nb.	6	b c	W.	2	...	...	S.W.	3	Midnight. Passing hail squalls.
31	4	...	...	30.21	48.7	87	-300	...	Cu., Cu.-Nb.	5	b c	W.N.W.	3	W.N.W.	1	W.S.W.	3	2 30 Very bright meteor to N.E.
	8	...	...	30.21	50	93	-334	...	St., Cu., Cu.-Nb.	7	b c	W.N.W.	4	W.N.W.	2	W.N.W.	3	4 0 Occasional hail and rain.
	Noon	43 39	133 10	30.14	51	94	-352	Cl.	Cu.-St.	4	b c	W. by N.	5	W.N.W.	3	W.N.W.	4	Midnight. Passing hail squalls.
	4	...	...	30.11	50.5	100	-367	Cl., Cl.-Cu.	Cu.	5	b c	W. by N.	4	W. by N.	3	W.	4	8 0 Wind variable.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	30.07	50.5	98	-365	Cl.-St.	St.	10	o	W.N.W.	4	W.N.W.	3	W. by N.	4	3 0 Light rain squall.
November 1	4	...	...	30.03	50.6	98	-363	Cl.-St.	St.	10	o	W.N.W.	5	W.N.W.	3	W. by N.	4	2 0 Wind increasing.
	8	...	...	30.01	50.5	98	-362	Cl.-Nb.	St.	8	b c	W.N.W.	5	W.N.W.	3	W.	4	4 0 Water phosphorescent.
	Noon	43 36	136 56	29.99	52	97	-373	Cu.-St.	St., Cu.	9	b c	W.N.W.	4	W.N.W.	4	W. by N.	4	8 0 Wind backing to northward.
	4	...	...	29.96	51.5	100	-379	...	St.	9	b c	W.N.W.	5	W.N.W.	4	N.W. by W.	4	9 0 Wind veered to W.S.W.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Midnight	...	...	29.94	49.5	94	-334	...	St.	10	o p	W.S.W.	4	W.S.W.	2	W.	3	9 0 Wind veered to W.S.W.

Table VIII.—CAPETOWN TO HOBART VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force. 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1911. November.																		
2	4	...	...	29.99	46	100	.310	...	St., Cu., Cu.-Nb.	7	b c p	S.W.	4	S.W.	2	W. by S.	4	2 0 Wind veering.
	8	...	...	30.09	47.2	93	.302	...	Cu., Cu.-Nb.	8	b c q	S.W.	5	S.W.	4	W.S.W.	5	4 0 Light rain at times.
	Noon	43 32	140 59	30.16	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Sharp squalls at times.
	4	...	...	30.17	47	77	.248	Cl.	Cu.-Nb., Cu.	5	b c q	S.W. by S.	5	S.W. by S.	3	S.W. by W.	5	
	8	...	...	30.25	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30.27	47.5	81	.266	...	Cu.-Nb.	3	b c q	S.S.W.	5	S.S.W.	3	S.S.W.	4	Midnight. Occasional rain squalls.
3	4	...	...	30.27	47	92	.297	...	Cu., Cu.-Nb.	5	b c q	S.	4	S.	3	S.S.W.	4	3 30 Wind veered to south.
	8	...	...	30.36	48.5	81	.277	...	Cu., St.	4	b c	S. by W.	4	S. by W.	4	S.S.W.	4	4 0 Occasional rain squalls.
	Noon	43 27	144 43	30.38	51.5	83	.314	...	Cu., St.	4	b c	S. by E.	4	S.	3	S. by W.	4	Noon. Observed high land of Tasmania.
	4	...	...	30.34	51	89	.333	...	Cu.	4	b c	S. by E.	3	S.	1	S.	5	
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	30.32	51	86	.320	...	St., Cu.-St.	9	c	S.	1	...	...	S.	5	
4	4	...	...	30.20	48	92	.309	...	St., Cu.-Nb.	8	b c	N.N.W.	3	...	...	S.W.	2	1 18 Maatsuyker Lt. abeam N. 12° E. 2 miles.
	8	...	...	30.17	48	96	.321	Cl.-St.	Cu.	7	b c	N.	3	N.	2	N.	1	2 0 Wind backed to N.W. by N.
	Noon	...	...	30.11	54	87	.361	...	St., Cu.-Nb.	10	o	N.N.E.	1	...	...	...	...	2 10 Pilot boarded.

Table IX.—FIRST ANTARCTIC VOYAGE.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1911. December 5	Noon	45 5	152 46 [D.R.]	29-05	46	77	.237	...	Cu.-Nb., St.	10	oq	S.	7	S.	4	S.	5	Noon. Rolling considerably. Clouds passing rapidly from the S.
	4	...	...	29-08	48	61	.205	...	Cu., St.-Cu.	8	bc	S. by W.	7	S.	5	S.	6	3 0 Clouds breaking to S.W.
	8	...	...	29-12	48	78	.259	...	St.-Cu.	9	c	S.S.W.	7	S.W.	7	S.	7	
	Midnight	...	...	29-16	49	85	.296	...	Cu.-St.	9	c	S.W.	8	S.W.	7	S.W.	7	
6	4	...	...	29-21	48	78	.259	...	St., Cu.-St.	8	bcq	W. by S.	8	W.	7	W.S.W.	8	3 0 Wind backing into W. by S.
	8	...	...	29-31	51	72	.269	...	Cu.	3	bc	W. by S.	8	W.	8	W.S.W.	8	8 0 High sea, quantities of water coming on board.
	Noon	45 29	152 41	29-41	53	67	.268	Cl.	St., Cu.	5	bcq	W. by S.	8	W.	8	W.S.W.	8	Ship rolling heavily.
	4	...	...	29-36	53.2	85	.344	Cl., Cu.-Cu.	Cu.-St.	7	bc	S.W. by W.	7	W. by N.	6	W.S.W.	7	4 0 Wind and sea rapidly decreasing.
	8	...	...	29-36	52	86	.333	...	Cu.-Nb.	6	bc	W.	4	W. by S.	4	W.S.W.	5	
	Midnight	...	...	29-36	51	93	.347	...	St., Cu.-Nb.	6	bc	W.	4	W.	3	W.S.W.	5	
7	4	...	...	29-28	52	93	.360	...	St.	10	o	W. by N.	3	W. by N.	2	S.W. by W.	6	4 30 Wind backed to N.W.
	8	...	...	29-22	54.5	83	.354	Cl.-St., Cl.	St.	6	bc	N.W. by N.	4	N.W.	3	W. by N.	5	
	Noon	47 9	152 1	29-09	57	75	.349	Cl.	St.	6	bc	N.N.W.	3	N.N.W.	3	N.	5	Noon. Heavy St. round horizon.
	4	...	...	29-03	52	90	.347	...	St.	9	bc	N.N.W.	4	N.N.W.	3	N.	4	1 0 Sky overcast from N.N.W.
	8	...	...	29-04	48	92	.309	...	Cu.-St.	9	oc	N.W.	4	N.W.	3	W.N.W.	4	4 0 Clouds breaking.
	Midnight	...	...	28-87	50	86	.308	...	Cu., Cu.-Nb.	7	bcp	N.W.	5	N.W.	4	W.N.W.	3	5 30 Heavy rain.
	4	...	...	28-87	48.8	88	.301	...	Cu.-Nb., Cu.	7	bcw	N.W. by W.	4	N.W. by W.	3	N.W. by W.	3	6 0 Heavy storm clouds passing from N.W.
8	8	...	...	28-87	51.5	86	.327	Cl.-St.	Cu., St.	8	bc	N.W.	4	N.W.	3	N.W.	4	
	Noon	49 56	152 28	28-84	55	80	.348	...	St., Cu.-St.	9	oc	W.N.W.	1	N.W.	1	N.W.	3	11 45 Heavy cloud banks round horizon.
	4	...	...	28-85	50	87	.310	...	Nb., Cu.-Nb.	10	op	S.E.	1	...	...	W.N.W.	4	2 30 Shift of wind into S.E. with rain.
	8	...	...	28-04	46	92	.285	...	Cu.-Nb.	10	om	S.	4	S.	2	S.	4	3 15 Rain clearing off.
	Midnight	...	...	29-06	43	91	.253	...	Cu.-Nb.	10	oc	S.	5	S.	2	S.	4	8 0 Heavy clouds all over.
9	4	...	...	29-11	42	83	.220	...	Cu.-Nb., St.	10	oc	S.	5	S.	4	S.	4	Midnight. Threatening rain.
	8	...	...	29-20	41.5	74	.196	...	Cu., Cu.-Nb., St.	8	bc	S. by E.	5	S. by E.	4	S.	5	4 0 Heavy storm clouds round horizon. Light misty rain at times.
	Noon	51 48	154 4	29-20	41	74	.189	...	St., Cu.-Nb., St.	10	ocq	S.W. by S.	5	S.	4	S.	5	6 0 Sky clearing overhead.
	4	...	...	29-23	41	78	.200	...	St., Cu.-St.	10	oc	S.W.	6	Confused	5	S.W./S.	5	10 40 Wind backed two points into S.S.W.
	8	...	...	29-25	40	73	.180	...	Cu.-Nb.	10	oc	S.W.	5	Confused	4	S.W./S.	5	Noon. Heavy storm clouds to windward.
	Midnight	...	...	29-25	40	.68	.169	...	St.	10	oc	S.W.	5	Confused	3	S.W./S.	5	8 0 Heavy storm clouds to windward.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.		
1911. December 10	4	...	...	29-27	38	74	-166	...	Cu-St., St.	10	oc	S.W. by W.	3	S.W. by W.	2	S.W./S.	4	2 0	Wind dropping.
	8	...	...	29-27	39-5	68	-165	...	St.	10	c	W.S.W.	2	W.S.W.	1	S.W.	5	10 50	Sky clearing.
	Noon	53 44	156 13	29-26	46	54	-168	...	Cu.-St.	2	bc	S.S.E.	1	...	0	S.S.W.	4		
	4	...	...	29-26	45	68	-204	...	Cu.	2	bc	E. by N.	4	...	...	S.S.W.	5		
	8	...	...	29-25	40	73	-180	...	Cu.-Nb.	9	oc	E. by N.	5	...	...	N.E.	4		
11	Midnight	...	...	29-22	41	65	-167	...	St., Nb.	10	oc	E.	4	E.N.E.	1	N.E.	4		
	4	...	...	29-19	40	87	-214	...	Cu.-St., St., Nb.	10	od	E.	4	E.	2	E.	4	4 0	Heavy storm clouds to S.E. and drizzling rain at times.
	8	...	...	29-15	41	82	-211	...	St.	10	oc	E.	4	E.	1	E.	3	4 0	Sighted Macquarie Is. S.E./E. (magnetic).
	Noon	...	...	29-18	45	76	-227	...	...	...	...	E.N.E.	2	...	...	...	...		
	4	...	...	29-15	42-8	81	-221	...	St., Cu.-St.	10	c	N.E.	3	...	...	...	...		
12	8	...	...	29-14	41	91	-233	...	Nb., Cu.-Nb.	10	oe	S.E.	4	...	...	E.	3		
	Midnight	...	...	29-15	40	91	-224	...	St.	10	om	S.E.	3	...	...	E.	3		Midnight. Rain at frequent intervals.
	4	...	...	29-12	42	93	-266	...	Cu.-Nb., Nb.	10	opc	S.E.	4	S.E.	2	S.E.	4		
	8	...	...	29-12	43	83	-230	...	Cu.-Nb.	10	cpc	S.E.	4	S.E.	1	S.E.	4		
	Noon	At anchor, Macquarie Island.	"	"	29-15	44	79	-230	...	Cu., Cu.-Nb.	8	bcp	S.E.	3	...	...	...	...	
13	4	"	"	29-18	42	91	-243	...	Cu.-Nb.	9	oc	S.E.	4	...	...	...	...		
	8	"	"	29-22	42	95	-243	...	Cu.-Nb., Nb.	10	oq	S.S.E.	4	...	...	...	...		
	Midnight	"	"	29-25	41	91	-233	...	Nb.	10	od	S.S.E.	3	...	...	...	...		
	4	"	"	29-22	38-5	88	-204	...	Nb., St.	10	od	S.	2	...	...	...	...	3 0	Swell coming in from W.
	8	"	"	29-20	41	82	-211	...	Nb.	10	od	S.	2	...	...	...	...		
14	Noon	"	"	29-18	40	91	-224	...	Nb.	10	od	S.	4	...	...	...	...		
	4	"	"	29-18	41	82	-211	...	Nb.	10	od	S.E.	4	...	...	...	...		
	8	"	"	29-18	41	91	-233	...	Nb.	10	od	S.E.	4	...	...	...	...		
	Midnight	"	"	29-14	42	91	-243	...	Nb.	10	od	S.E.	5	...	...	...	...		
	4	"	"	29-13	42	100	-266	...	Cu.-Nb.	10	op	S.E.	5	...	...	...	...	3 0	Weather clearing.
14	8	"	"	29-16	42	100	-266	...	Nb.	10	or	S.E. by S.	5	...	...	...	...	6 0	Heavy rain.
	Noon	"	"	29-18	44-2	90	-261	...	Cu., Cu.-St.	7	bc	S.E.	5	...	...	...	...	8 0	Weather clearing.
	4	"	"	29-22	43-5	90	-259	...	Nb.	10	dqo	S.E.	5	...	...	...	...	11 0	Sky clearing.
	8	"	"	29-26	42	91	-243	...	Nb., St.	10	odp	S.E.	5	...	...	...	...	3 0	Rain.
	Midnight	"	"	29-28	40-5	96	-240	...	St., Cu.-Nb.	10	op	S.E.	5	...	...	...	...	8 0	Frequent rain. Midnight. Weather clearing.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1911. December 15	4	At anchor, Macquarie Island.		29-30	40	91	-224	...	St.	10	oc	S.E.	4	...	...	...	...	5 0 Heavy rain.
	8	"		29-37	42	91	-243	...	Cu.-St.	9	c	S.E.	3	...	...	...	...	
	Noon	"		29-38	43	83	-230	...	Cu.-St.	9	c	S.E.	2	...	...	...	...	
	4	"		29-43	44	84	-240	...	St., Cu.-Nb.	10	oc	S.	2	...	...	...	...	
	8	"		29-49	41.5	87	-227	...	Cu.-St.	9	c	S.	1	...	...	...	...	
	Midnight	"		29-53	42	91	-243	...	Nb.	10	od	S.	3	...	...	...	...	
16	4	"		29-56	41	78	-199	...	Cu.-St.	10	c	S	3	...	...	...	...	Midnight and 2 a.m. Heavy rain.
	8	"		29-05	42	83	-220	...	Cu., Cu.-Nb.	8	bc	S.	2	...	...	...	...	2 0 Sky cleared.
	Noon	"		29-09	46	72	-226	...	Cu.	3	bc	S.S.E.	3	...	...	...	...	
	4	"		29-71	45	76	-227	Cl.	Cu.	2	bc	S.S.E.	4	...	...	...	...	
	8	"		29-79	41	82	-211	Cl.	Cu., St.	3	bc	S.	2	...	...	...	...	
	Midnight	"		29-81	41	80	-204	...	St.	2	bc	S.S.W.	3	...	...	...	...	
17	4	"		29-80	40.5	78	-195	...	Cu.-St.	8	bc	S.	2	...	...	...	...	
	8	"		29-85	44	75	-217	...	Cu.-St.	9	oc	S.S.W.	2	...	...	...	...	
	Noon	"		29-80	50	72	-257	...	Nb., St.	9	oc	S.W.	2	...	...	...	...	
	4	"		29-80	45	84	-250	...	Nb.	10	od	W.	1	...	...	...	...	3 0 Drizzling rain.
	8	"		29-79	41	87	-223	...	Nb.	10	od	Calm	0	...	...	...	...	8 0 Drizzling rain at times.
	Midnight	"		29-76	39	100	-237	...	Nb.	10	od	Calm	0	...	...	...	...	
18	4	"		29-72	40	95	-236	...	Nb.	10	oc	S.W.	3	...	...	...	...	3 15 Weather clearing.
	8	"		29-76	41	82	-211	...	Cu., Cu.-Nb.	9	bc	S.	2	...	...	...	...	8 0 Heavy rain clouds to S.
	Noon	"		29-75	45	76	-227	...	Cu.-Nb.	9	bc	S.	2	...	...	...	...	
	4	"		29-73	44	75	-217	...	Cu.-St.	5	bc	S.S.W.	2	...	...	...	...	
	8	"		29-75	42	83	-220	...	Cu.	5	bc	S.W.	3	...	...	...	...	
	Midnight	"		29-77	40	84	-207	...	Cu., St.	8	bc	S.	2	...	...	...	...	
19	4	"		29-78	40	78	-192	...	Cu.-St.	6	bc	S.S.W.	3	...	...	...	...	
	8	"		29-80	43	75	-207	...	Cu.-Nb., Cu.	8	bc	S.W.	3	...	...	...	...	
	Noon	"		29-83	41	82	-211	...	Cu., St.	7	bc	S.E.	3	...	...	...	...	
	4	"		29-85	41	74	-189	Cl.	Cu., St.	5	bc	S.E.	3	...	...	...	...	
	8	"		29-90	42	74	-198	Cl.	Cu.	3	bc	E.	1	...	...	...	...	
	Midnight	"		29-94	39	81	-193	...	Cu., Cu.-Nb.	7	bc	N.E.	2	...	...	...	...	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. reduced.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1911. December 20	4		At anchor, Macquarie Island.	29-97	39	81	-193	Cl.-St.	Cu.-Nb., Cu.	9	o c	N.N.E.	2	...	...	...	...	
	8		"	29-97	41.5	79	-204	...	Cu., Cu.-Nb.	10	o c	E.N.E.	3	...	...	...	...	
	Noon		"	29-96	42.5	74	-203	...	Cu.	8	b c	N.E.	3	...	...	...	...	
	4		"	29-97	48.5	74	-252	...	Cu.	2	b c	E.	2	...	...	...	...	
	8		"	29-95	44	92	-264	...	Cu.	1	b c	N.E. by E.	4	...	...	...	...	
	Midnight		"	29-93	44	96	-275	...	Cu.	2	b c w	N.E.	4	...	...	...	...	
21	4		"	29-92	45	76	-227	...	Cu., St.	10	o c	N.E.	4	...	...	...	1 0 Clouds coming up from N.E.	
	8		"	29-89	46	84	-261	...	St.	10	o c	E.	4	...	...	...	...	
	Noon		"	29-87	46	92	-285	...	Cu., St.	10	o c	E.	4	...	...	...	...	
	4		"	29-97	51	89	-333	...	Cu., St.	2	b c	E.N.E.	4	...	...	...	...	
	8		"	29-90	45	100	-298	...	Cu.	1	b c	N.E.	2	...	...	...	...	
	Midnight		"	29-88	46	92	-285	...	Cu.	1	b c	N.E.	2	...	...	...	...	
22	4		"	29-86	46.5	81	-254	...	Cu.	1	b c	N.E.	2	...	...	...	...	
	8		"	29-86	48	85	-284	...	...	...	b	N.E.	4	...	...	...	...	
	Noon		"	29-83	...	...	...	...	...	...	...	...	...	...	...	...	...	
	4		"	29-82	48.5	74	-252	...	Cu.	1	b c	E.N.E.	5	...	...	...	...	
	8		"	29-80	45	96	-286	...	Cu.	2	b c q	E.N.E.	3	...	...	...	...	
	Midnight		"	29-76	45	93	-276	...	Cu., St.	7	b c q	E.N.E.	3	...	...	...	...	
23	4		"	29-76	45	84	-250	...	St.	8	b c	N.E.	3	...	...	...	...	
	8		"	29-73	47	85	-272	...	Cu.-Nb., St.	10	o c	E.	7	...	...	...	8 0 Weather very unsettled.	
	Noon		"	29-71	49	78	-270	...	Cu.	7	b c q	E.	7	...	...	...	...	
	4		"	29-69	47	89	-285	...	St., Cu.	7	b c q	E. by N.	7	...	...	...	...	
	8		"	29-72	46	84	-261	...	St.	7	c	E. by N.	7	...	...	...	...	
	Midnight		"	29-73	46	92	-285	...	St.	10	o c	E. by N.	8	...	...	...	...	
24	4		"	29-75	46	92	-285	...	St.	10	o c q p	E.	8	...	...	...	4 0 Frequent driving rain.	
	8		"	...	...	...	...	...	Nb., St.	10	o m	E.	7	...	...	...	...	
	Noon		"	29-76	47.2	90	-294	...	St.	10	o c	E.	7	E.	3	N.E.	3	
	4		"	29-79	48	89	-296	...	St.	10	o c	N.W.	1	...	...	...	...	
	8		"	29-82	47	85	-272	...	St., Nb.	10	o	E.	1	...	...	...	...	
	Midnight		"	29-81	46.8	86	-275	...	St.	8	c	N.E.	2	...	...	...	Midnight. Light wind squalls at times.	



Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.			
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.					
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.						
1911. December 25	4	Departed from Macquarie Island.		29-78	47	74	-236	...	Cu., St.	6	b c q	N.E.	4	...	...	...					
	8			29-80	46	92	-285	...	Cu., St.	8	c	E. by N.	3	N.E.	1	N.E.	2				
	Noon	54	14½	158	38	29-81	47	85	-272	...	Cu.	2	b c	E. by N.	3	N.E.	1	N.E.	2		
	4	...	...	...	...	29-83	47	92	-297	...	...	...	b	E. by N.	4	E. by N.	2	E.N.E.	4		
	8	...	...	...	...	29-83	45	84	-250	...	...	...	b	E.N.E.	3	E.N.E.	1	E.N.E.	2		
	Midnight	...	...	...	...	29-82	44	92	-264	...	...	...	b	N.E.	1	...	...	N.E.	2		
	26	4	...	...	...	...	29-83	44.5	96	-281	...	...	...	b w	N.E.	2	N.E.	1	N.E.	4	1 0 Lights of aurora: clear overhead and faint to eastward; very clear to S.W. running round in form of curtain.
		8	...	...	...	...	29-86	48	78	-259	Cl.	...	3	b	E.N.E.	2	N.E.	1	E.N.E.	2	4 0 Low bank of St. to S.E. during watch. Heavy dew throughout.
		Noon	57	15½	157	25	29-84	46	85	-266	Cl.	...	2	b	E.N.E.	3	E.N.E.	2	E.N.E.	3	Noon. Cl. clouds moving very slowly from west.
		4	...	...	...	...	29-84	46.3	90	-281	Cl.	...	1	b	E.N.E.	2	N.E.	1	N.E.	3	
8		...	...	...	...	29-88	44	92	-264	Cl.-Cu.	...	8	b c	N.E.	1	N.E.	.1	N.E.	2		
Midnight		...	...	...	...	29-86	44	92	-264	...	Cl.	10	o c	N./E.	1	N.E.	1	N.E.	2		
27		4	...	...	...	...	29-85	44.8	92	-272	...	Cu.-St.	10	o c	N.	2	...	...	N.E.	3	
	8	...	...	...	...	29-86	43.5	91	-260	...	...	...	m	N.	2	N.	2	N.N.E.	2	9 30 Mist clearing a little.	
	Noon	59	38	157	21	29-85	43	91	-253	...	St.	10	o	N.	3	N.	2	N. by E.	3		
	4	...	...	...	...	30-01	41.7	100	-263	...	Nb.	10	o d m	N.	3	N.	2	N. by E.	3	2 0 Drizzling rain.	
	8	...	...	...	...	29-83	42	100	-266	...	...	...	m	N.	3	N.	2	N. by E.	3		
Midnight	...	...	...	...	29-78	40	100	-246	...	...	...	m	N.	3	N.	2	N. by E.	3			
28	4	...	...	...	...	29-74	40	100	-246	...	...	...	m d	N. by E.	3	N.	2	N. by E.	2	4 0 Thick mist with drizzling rain throughout watch.	
	8	...	...	...	...	29-68	38.5	100	-227	...	...	...	m d	N by E	3	N. by E.	2	N.	2		
	Noon	61	58 [D.E.]	157	11 [D.E.]	29-66	39.5	97	-235	...	...	...	m d	N.N.E.	3	N. by E.	2	N.	2	3 0 Mist clearing off. 3-30 Thick mist.	
	4	...	...	...	...	29-61	41.8	93	-246	...	...	...	m d	N. by E.	3	N. by E.	2	N.	1	4 30 Wind veering to W.	
	8	...	...	...	...	...	...	...	...	...	...	...	...	N.W.	2	...	...	...	...	8 0 Wind veering throughout watch.	
	Midnight	...	...	...	...	29-61	38.5	95	-204	...	St.	10	o	W.N.W.	1	...	...	...	...	11 0 Observed what was apparently land to W., but on altering course towards it, was found to be heavy St. clouds.	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1911. December 29	4	...	...	29-50	34.8	97	-195	...	St.	10	o	N.W. by W.	2	N.W. by W.	1	W.N.W.	2	1 0 Light swell from W.N.W. 1 30 Thick mist. 2 0 Weather clearing. 4 0 Misty at times.
	8	...	...	29-60	36.5	95	-204	...	...	...	f	N.W.	2	N.W.	1	W.N.W.	1	
	Noon	63 49 [D.R.]	156 14 [D.R.]	29-55	39.4	89	-215	...	...	...	f	N.W.	1	...	...	N.W.	1	2 0 Fog clearing off slightly.
	4	...	...	29-55	37	90	-198	...	St.	10	o m	N.W.	1	...	...	N.W.	2	4 30 Ice observed ahead; several bergs.
	8	...	...	29-47	...	...	...	...	St.	10	f m	...	...	...	...	...	...	6 0 Came up with N. and S. line of brash ice passed to westward of it.
	Midnight	...	...	29-43	33.5	97	-186	...	St.	10	o m	Calm	0	...	...	...	...	Midnight. Fog at intervals.
30	4	...	...	29-41	32.9	98	-183	...	...	...	f d	S.E.	1	...	...	...	...	2 15 Ice ahead.
	8	...	...	29-41	32.5	97	-177	...	St., Nb.	10	o s m	E.S.E.	3	E.S.E.	2	N.W.	1	2 30 Passing small ice and occ. bergs. 4 0 Fog and mist throughout with drizzling rain at times.
	Noon	65 14	156 5	29-40	32	95	-171	...	St., Nb.	10	o s	S.E.	3	S.E.	2	...	...	7 15 Light snow. 8 0 Occasional large bergs.
	4	...	...	29-42	30.5	100	-164	...	St., Nb.	10	o s	S.E.	3	...	...	N.W.	1	8 15 Weather clearing and sun showing at intervals. Noon. Light drifting snow throughout.
	8	...	...	29-45	29	100	-159	...	Nb.	10	o s	S.E.	3	...	...	...	...	4 0 Snowing throughout.
	Midnight	...	...	29-51	28	100	-153	...	St., Nb.	10	o	E.S.E.	3	...	...	...	...	9 0 Snow clearing off.
31	4	...	...	29-49	27.8	96	-145	...	St.	10	o	S.E. by S.	4	...	...	...	...	11 45 Encountered heavy pack; steered to W.
	8	...	...	29-49	28.5	98	-153	...	St.	10	o	S.E. by S.	4	S.E.	2	S.E.	2	4 0 Passing through heavy drift throughout watch. 7 30 Passed out of drift.
	Noon	65 40	155 39	29-52	28.2	98	-151	...	St.	10	o	S.E. by S.	3	S.E. by S.	2	...	...	8 0 Passing occasional drift ice and bergs.
	4	...	...	29-52	29	89	-148	...	St., Cu.-St.	10	o	S.E.	2	...	...	W.N.W.	1	
	8	...	...	29-54	29	89	-148	...	Cu.-St.	8	o c	E.	2	...	...	E.	1	8 0 Passing light drift during watch.
	Midnight	...	...	29-54	29	89	-148	...	Cu., Nb.	8	o c	E.	2	...	...	...	...	
1912. January 1	4	...	...	29-55	28	94	-144	...	Mam.-Cu., St.	10	o	S. by E.	2	...	...	...	...	4 0 In open water skirting pack ice all watch.
	8	...	...	29-57	30.8	91	-156	...	St.	10	o	S.	1	...	...	...	...	
	Noon	65 18	151 50 [D.R.]	29-57	30	89	-148	...	St., Cu.-St.	9	c	E.N.E.	2	E.N.E.	2	...	...	
	4	...	...	29-54	30.5	80	-137	...	St., Cu.	8	c	E.	3	E.	1	...	...	
	8	...	...	29-52	29	100	-159	...	Nb.	10	o	E.	3	...	...	...	...	
	Midnight	...	...	29-50	29	100	-159	...	Nb.	10	o s	E.S.E.	3	E.S.E.	2	...	...	Midnight. Frequent snow squalls.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. January 2	4	...	...	29.52	29	100	.159	...	St., Nb.	10	o s	E.S.E.	3	E.S.E.	2	...	4 0 Light snow throughout. Passing occasional drift and bergs.	
	8	...	...	29.52	31	100	.173	...	St.,	8	c	E.S.E.	2	E.S.E.	2	...	10 30 Entered pack ice.	
	Noon	65 30	147 59	29.53	33.8	91	.177	...	Cu.-St., Nb., St.	9	b c	E.	1	...	N.E.	2	1 10 Clear of pack. 2 0 Sky overcast from eastward.	
	4	...	...	29.54	31.4	95	.168	...	Nb., St.	10	o s	E.N.E.	3	E.N.E.	3	E.N.E.	1	6 0 Wind backing.
	8	...	...	29.54	30	100	.166	...	Nb.	10	o s	E.S.E.	2	...	...	E.N.E.	1	
	Midnight	...	...	29.54	30	100	.166	...	Nb.	10	o s	S.E. by E.	4	E.S.E.	2	N.E.	2	Midnight. Passed two large bergs during watch. Snow throughout.
3	4	...	...	29.50	29.2	100	.160	...	Nb.	10	o m s	S.E.	5	S.E.	4	E. by S.	2	2 0 Wind and sea increasing.
	8	...	...	29.51	28	100	.153	...	St., Nb.	10	o c	S.E.	4	S.E.	1	E. by S.	2	4 0 Snow throughout. 6 30 Snow clearing off.
	Noon	65 46	143 21	29.44	31	95	.164	Cl.-Cu.	Cu.	5	b c	S.S.E.	5	S.S.E.	3	...	8 30 Ice barrier to E. by W. 10 0 Sky clearing. Barrier turning away to S.	
	4	...	...	29.36	30.5	95	.160	...	Cu., Mam.-Cu.	7	b c	S.E.	5	S.E.	3	...	1 15 Came up with ice barrier. 3 15 Passed between barrier and large ice island.	
	8	...	...	29.23	28.5	100	.156	Cl.	Cu.	4	b c	S.E. by E.	5	S.S.E.	2	S.S.E.	2	8 12 Steaming up and down under lee of barrier.
	Midnight	...	...	29.13	27	100	.147	Cl., Cl.-Cu.	...	4	b c	E.S.E.	5	S.S.E.	3	S.S.E.	2	
4	4	...	...	29.03	27	100	.147	Cl., Cl.-Cu.	St.	5	b c	S.E.	6	S.E.	4	S.E.	1	2 0 Wind and sea increasing. 4 0 Fine and cloudy. Windy sky. 5 0 Heavy clouds coming up to windward.
	8	...	...	28.95	26.5	100	.144	...	St.	10	o	S.S.E.	8	S.S.E.	5	S.E.	2	6 0 Wind and sea increasing.
	Noon	65 55 [D.R.]	143 30	28.85	28.0	100	.153	...	Cu.-St., St., Nb.	10	o	S.S.E.	8	S.	5	...	8 0 Air thick with drifting snow. Noon. Air thick with driving snow off barrier.	
	4	...	...	28.91	33.0	100	.187	...	Nb.	10	o s	S.E. by S.	7	S.E.	4	...	2 0 Wind moderating; started to snow.	
	8	...	...	28.97	33	100	.187	...	Cu.-Nb., Nb., Nb.	10	o s	S.E.	6	S.E.	2	...	8 0 Heavy clouds moving fast from S.E.	
	Midnight	...	...	28.98	31	100	.173	...	Nb.	10	o m s	S.E. by E.	7	S.E.	3	...		
5	4	...	...	28.97	29.0	100	.159	...	Nb.	10	o s	S.E. by S.	8	S.E.	4	...	2 0 Wind increasing. 4 0 Snow throughout. Air thick with drifting snow off barrier.	
	8	...	...	28.96	28.8	100	.158	...	Nb., St.	10	o s	S.E. by E.	8	S.E. by E.	4	...		
	Noon	65 41	144 0	28.89	30	100	.166	...	Nb., St.	10	s	S.S.E.	6	S.S.E.	3	...	Noon. Wind moderating.	
	4	...	...	28.80	30.8	97	.160	...	St.	10	o	S.S.E.	6	S.S.E.	3	...	3 30 Snow clearing off; weather clearing.	
	8	...	...	28.77	30.5	99	.166	...	St.	10	o c	E.S.E.	4	S.S.E.	1	...	10 0 Barrier turning away as far as could be seen to E.	
	Midnight	...	...	28.84	31	100	.173	...	Nb., St.	10	o	E.S.E.	5	E.S.E.	3	S.E.	4	Midnight. Passing drift ice and bergs
6	4	...	...	28.90	30.5	100	.170	...	St., Nb.	10	o m	S.E. by E.	6	E.S.E.	4	S.E.	3	2 30 Wind freshening.
	8	...	...	28.95	31.8	100	.179	...	Nb.	10	o	S.E. by E.	5	S.E. by E.	4	S.E.	3	3 0 Misty rain falling. Passing occasional drift and bergs.
	Noon	66 37 [D.R.]	144 58 [D.R.]	28.97	32	100	.180	...	Nb.	10	o s	E.S.E.	6	E.S.E.	5	E.S.E.	3	Noon. Snow getting lighter. 1 30 Heavy snow. Considerable swell from E.S.E. which went down as ship neared barrier.
	4	...	...	29.02	32.5	100	.184	...	Nb.	10	s	E.	6	E.	2	...	4 0 Heavy snow.	
	8	...	...	29.12	31.8	99	.177	...	Nb.	10	o m s	E.	3	...	...	...	4 30 Proceeded along barrier to S.S.W.	
	Midnight	...	...	29.17	31	100	.173	...	Nb.	10	o m s	S.E.	2	...	...	...		

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1912. January 7	4	...	...	29-23	31	100	-173	...	Nb.	10	os	S.E. by E.	2	S.E.	1	...	4 0 Snowing throughout, heavily at times.	
	8	...	...	29-31	31.5	99	-175	...	St., Nb.	10	os	E.	1	...	...	...		
	Noon	66 55	144 52 [D.R.]	29-37	32	100	-180	...	Nb.	10	os	F.	1	...	...	...	1 0 Passing icebergs and islands.	
	4	...	...	29-40	33	100	-187	...	Nb.	10	os	E.	1	...	...	...	4 0 Snowing heavily throughout.	
	8	...	...	29-43	31.3	99	-173	...	Nb.	10	os	N.W.	2	...	...	...		
	Midnight	...	...	29-46	31	100	-173	...	Cu., Nb.	10	oc	N.W.	1	...	...	...		
8	4	...	...	29-43	30.5	100	-170	...	St., Cu.	9	c	N.	1	...	...	...	4 0 Misty over land.	
	8	...	...	29-41	34	100	-195	...	Cl.	2	bc	W.	2	...	...	...	10 0 Overcast with mist from W.	
	Noon	66 47	143 14	29-38	32.9	95	-179	...	St., Nb.	10	om	W.S.W.	3	W.S.W.	1	...	11 30 Weather clearing. 12 30 Blue sky clearing. 12 48 Thick mist. 1 15 Blue sky. 4 0 Low lying bank of St. to N.E.	
	4	...	...	29-34	36	100	-211	...	St.	1	b	E.	1	...	N.W.	1	10 15 Sudden gale from off shore S.E.	
	8	...	...	29-28	42	58	-154	...	...	0	b	Calm	0	...	...	...		
	Midnight	At anchor Commonwealth B		29-21	28	65	-100	...	St.	1	b	S.E.	8	S.E.	3	...		
9	4	"	"	29-18	24.5	94	-124	...	...	0	b	S.E.	8	S.E.	5	...		
	8	"	"	29-07	30	89	-148	...	...	0	b	S.E.	8	S.E.	5	...	10 0 Wind increasing.	
	Noon	"	"	28-94	30.9	96	-165	...	Cl.	2	bc	S.E.	9	S.E.	5	...		
	4	"	"	28-78	30.5	100	-170	...	Cl.	3	bc	S.E.	10	S.E.	5	...		
	8	"	"	28-73	27.2	100	-148	...	Cl.	3	bc	S.E.	10	S.E.	5	...		
	Midnight	"	"	28-71	22	100	-119	...	Cl.	3	bc	S.E.	11	S.E.	6	...	Midnight. Squalls of terrific violence. Air thick with spray and driving snow.	
10	4	"	"	28-75	19	100	-104	...	Cl., St.	5	bc	S.E.	11	S.E.	6	...	4 0 Heavy bank of St. low on N. horizon.	
	8	"	"	28-79	20	100	-110	...	St.	8	bc	S.E.	10	S.E.	6	...	6 0 Wind moderating slightly.	
	Noon	"	"	28-78	30	100	-166	...	Cu., St.	8	bc	S.E.	9	S.E.	6	...	Wind moderating considerably.	
	4	"	"	28-86	31.8	100	-179	...	Cu., St.	9	bc	S.E.	8 7	S.E.	6	...	7 0 Light airs from S.E.	
	8	"	"	28-98	33.5	99	-189	...	Cu., St.	10	oc	S.E.	5	S.E.	3	...	7 45 Fresh breeze again.	
	Midnight	"	"	29-07	31	100	-173	...	St., Cu.-St.	10	oc	S.E.	5	S.E.	3	...		
11	4	"	"	29-13	30	100	-166	...	Cu.-St.	9	c	S.E.	5	S.E.	3	...	5 0 Wind dropping.	
	8	"	"	29-25	38.4	96	-223	...	Cu.	3	bc	E.	1	...	...	...		
	Noon	"	"	29-35	37	90	-198	...	Mam.-Cu., St.	10	c	E.N.E.	2	E.N.E.	1	...		
	4	"	"	29-43	36	90	-190	...	Cu.	6	bc	N.E.	1	...	...	...		
	8	"	"	29-49	33	95	-184	...	Cu.-St.	9	c	E.	1	...	...	...		
	Midnight	"	"	29-50	30.5	95	-160	...	St., Cu.	9	c	E.	1	...	...	...		

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. January 12	4	At anchor Commonwealth B.		29-48	30	89	-148	Ci.-St., Ci.	Cu.	5	b c	E.	1	...	...	...	...	
	8	"	"	29-46	32.5	69	-128	Ci.	Cu.	4	b c	S.E.	4	S.E.	1	...	...	
	Noon	"	"	29-38	37	62	-135	...	Cu.	1	b	S.E.	3	S.E.	1	...	Noon. Bank of Cu. low on N. horizon.	
	4	"	"	29-31	35	62	-126	...	St.	1	b	S.E.	4	S.E.	2	...	...	
	8	"	"	29-22	31	58	-100	...	Cu.	1	b	S.E.	5	S.E.	2	...	9 0 Wind increasing.	
	Midnight	"	"	29-17	23	86	-108	...	...	...	b	S.E.	7	S.E.	4	...	...	
13	4	"	"	29-09	20	93	-102	...	...	...	b	S.E.	9	S.E.	5	...	3 0 Wind increasing.	
	8	"	"	29-04	21	86	-098	...	Cu.	2	b c	S.E.	9	S.E.	5	...	10 0 Weather moderating.	
	Noon	"	"	29-05	30	100	-166	...	Cu.-St.	1	b c	S.E.	7	S.E.	5	...	...	
	4	"	"	29-00	32.5	100	-184	...	St., Cu.	2	b c	S.E. by E.	6	S.E.	5	...	...	
	8	"	"	29-03	29	100	-159	...	St.	1	b	E.S.E.	5	S.E.	4	...	8 0 Wind moderating rapidly. 10 0 Light wind from E. 10 30 S.E. gale again.	
	Midnight	"	"	28-89	24	100	-130	...	Cu.	1	b	S.E.	10	S.E.	6	...	...	
14	4	"	"	29-91	21.5	100	-117	...	St.	1	b	S.E.	11	S.E.	6	...	4 0 Bank of St. to northward.	
	8	"	"	28-85	25	100	-135	Ci.	...	2	b c	S.E.	11	S.E.	6	...	...	
	Noon	"	"	28-80	31.5	95	-167	Ci.	...	1	b	S.E.	11	S.E.	6	...	...	
	4	"	"	28-70	34	100	-195	...	...	...	b	S.E.	10	S.E.	6	...	3 0 Wind moderating slightly.	
	8	"	"	28-62	30	100	-166	...	...	...	b	S.E.	10	S.E.	6	...	...	
	Midnight	"	"	28-63	30	100	-166	...	Cu., St.	8	c	S.E.	8	S.E.	4	...	Midnight. Moderating considerably.	
15	4	"	"	28-62	33	100	-187	...	St., Cu.-Nb.	10	o	S.E. by E.	8	S.E. by E.	5	...	1 0 Wind moderating rapidly.	
	8	"	"	28-66	35	100	-203	...	Cu.-Nb.	9	o c	S.E. by E.	8	S.E. by E.	4	...	2 0 Calm.	
	Noon	"	"	28-67	34.5	84	-168	...	St.	9	o c	S.E. by E.	10	S.E. by E.	5	...	3 0 Fresh gale again.	
	4	"	"	28-77	36	85	-179	Ci.	Cu., Cu.-Nb.	8	b c	E.N.E.	1	S.E. by E.	5	...	8 0 Wind increasing.	
	8	"	"	28-76	33.5	84	-161	...	St., Cu.-Nb.	6	b c	E.S.E.	5	E.S.E.	4	...	2 0 Wind rapidly moderating. 3 0 Calm; swell coming in from N.W.	
	Midnight	"	"	28-77	33	80	-149	...	Cu.-Nb.	8	o c	S.E.	8	S.E.	6	...	9 30 Wind increasing. 11 0 Fresh gale.	
16	4	"	"	28-76	33	89	-168	...	Cu., Cu.-Nb.	8	o c	S.E. by E.	8	S.E.	6	...	4 0 Wind moderating at times.	
	8	"	"	28-87	34.5	84	-168	...	Nb.	9	o c	S.E. by E.	8	S.E.	4	...	...	
	Noon	"	"	28-96	35.5	90	-186	...	St.	8	c	E.S.E.	6	S.E.	3	...	2 0 Wind rapidly moderating.	
	4	"	"	29-00	36.5	86	-183	...	St.	9	o	E. by S.	4	E.S.E.	2	...	...	
	8	"	"	29-08	35	90	-182	...	St., Nb.	9	o	E.	2	...	E.	2	7 0 Calm.	
	Midnight	"	"	29-13	35	80	-161	...	Cu.-Nb., St.	9	o c	E. by S.	4	...	E.	2	Midnight. Wind unsteady.	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force. 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1912. January 17	4	At anchor Commonwealth B.		29-09	34	80	-155	...	Nb., St.	10	o	S.E.	7	S.E.	4	...	1 0 Light airs all round the compass.	
	8	"		29-14	34.5	100	-199	...	Nb., St.	9	o c	S.E.	7	S.E.	4	...	1 30 Wind strong from S.E.	
	Noon	"		29-15	35	100	-203	...	Nb.	9	o s	S.E.	6	S.E.	3	...	10 0 Sharp snow squall.	
	4	"		29-16	33	89	-168	...	Nb.	10	o s	S.E.	6	S.E.	5	...	Noon. Light snow at times. Steady snow after 2-30 p.m.	
	8	"		29-16	33	100	-187	...	Nb.	10	o q	S.E.	7	S.E.	5	...		
	Midnight	"		29-15	28.5	100	-156	...	Cl.-St.	7	o	S.E.	7	S.E.	5	...		
18	4	"		29-13	25	100	-135	...	Cl.	2	b c	S.E. by S.	8	S.E. by S.	6	...	1 0 Sky clearing; wind increasing.	
	8	"		29-19	24	95	-124	...	Cl.	2	b c	S.E.	8	S.E.	6	...	10 0 Wind rapidly moderating.	
	Noon	"		29-21	34.3	97	-191	...	Cl.	2	b c	S.E.	4	S.E.	2	...	Noon. The temperature of the water at the bottom (39 fathoms) was taken and found to be 31°.	
	4	"		29-22	35	100	-203	...	Cl.	1	b	S.E.	3	S.E.	1	...		
	8	"		29-22	32.5	100	-184	...	Cl.	1	b	S.S.E.	1	...	...	...		
	Midnight	"		29-24	27.5	100	-150	...	Cl.	3	b c	S.E.	3	...	...	...		
19	4	"		29-26	26.5	100	-144	...	Cl.	4	b c	S.E.	3	S.E.	2	...	5 30 Sky clouding over from S.E.	
	8	"		29-33	31	100	-173	...	Cu.-Nb.	10	o c	S.E.	3	S.E.	1	...	10 0 Wind backing; freshening slightly.	
	Noon	"		29-32	35.5	100	-207	...	St., Cu.	9	c	S.S.E.	4	...	...	...		
	4	"		29-35	37.2	100	-222	...	Cu., Cu.-Nb.	9	c	S.E.	2	...	...	...		
	8	Departed from Commonwealth B.		29-39	34	100	-195	...	Cu.-Nb. Cu.-Nb.	9	o c	E.	2	...	...	...		
	Midnight	"		29-40	33	100	-187	...	St.	9	c w	E.	1	...	...	S.E.	2	
20	4	"		29-42	32	100	-180	...	St., Cu.-St.	9	c	E.	1	...	...	E.S.E.	2	4 Passing small islands and numerous bergs.
	8	"		29-39	32	100	-185	...	Cl.	5	b c	N.W. by W.	3	...	...	...		
	Noon	66 32	140 26	29-36	35.5	...	...	...	Cl.-Cu.	3	b c	W.	2	...	...	W. by N.	1	
	4	"		29-35	34.8	81	-164	...	...	0	b	Calm.	...	...	...	...		
	8	"		29-34	32	100	-180	...	Cl.	1	b	E.	3	...	...	...		
	Midnight	"		29-33	30	100	-166	...	...	0	b	E.S.E.	4	S.E.	1	S.E.	2	9 30 Wind shifted to E.S.E., freshening slightly.
21	4	"		29-32	30	100	-166	...	Cu.	1	b c	E.S.E.	5	E.S.E.	3	S.E.	2	10 30 Encountered pack ice.
	8	"		29-31	31	100	-173	...	Cu.	4	b c	E.	4	E.	1	S.E.	2	2 0 Wind freshening.
	Noon	65 39	139 0	29-32	32	100	-180	...	Mam.-Cu., St.	9	c	S.E.	3	S.E.	1	...	4 0 Low banks of Cu. clouds on E. horizon.	
	4	"		29-31	31	100	-173	...	St., Cu.-Nb.	10	o c	E.S.E.	3	E.S.E.	2	S.E.	1	9 30 Overcast from E.
	8	"		29-32	31.5	100	-177	...	Cu.-Nb.	9	o c	S.E.	2	S.E.	1	S.E.	1	8 0 Dark heavy storm clouds surrounding.
	Midnight	"		29-31	31	100	-173	...	Cu.-Nb.	8	o c	E.S.E.	3	...	...	E.	2	

METEOROLOGY.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in Inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. January 22	4	...	...	29-30	30	100	-166	...	Cu., St.	3	b c w	E.	1	...	...	N.W.	5	1 0 Long heavy swell coming in from N.W. 2 0 Sky clearing and wind dropping. 4 0 Heavy clouds to northward. Ship rolling considerably.
	8	...	...	29-32	35	100	-203	...	Cu., St.	5	b c	E.	1	...	...	N.W.	4	
	Noon	65 2	135 20	29-36	31	100	-173	...	St.	9	o c	E.	2	...	...	N. by E.	3	10 30 Sky overcast from N. 1 0 Sky clearing.
	4	...	...	29-36	31-5	100	-177	Cl.-Cu.	St.	3	b c	E.	2	...	...	N.	4	4 0 Alto clouds round northern horizon.
	8	...	...	29-31	33	94	-176	Cl.	St.	9	c	E.	1	...	...	N.	2	8 0 Wonderful bank of Cl.-St. clouds stretching right across sky from N.E. to S.W.
	Midnight	...	...	29-42	31	100	-173	...	St., Cu.	9	c w	E.	2	E.	1	N.	3	
23	4	...	...	29-40	31-2	100	-174	...	St.	9	o w	E. by S.	4	Confused, E.	2	N. by E.	4	4 0 Very heavy dew.
	8	...	...	29-45	32	100	-180	...	St., Nb.	10	o c s	E.	4	E.	3	N.	3	8 0 Swell decreasing. Light snow at times.
	Noon	65 2	132 26	29-46	32-5	100	-184	Cl. Cl.-St.	St.	7	b c	E.S.E.	4	E.S.E.	3	Confused	2	8 30 Sky clearing.
	4	...	...	29-49	32-2	100	-181	Cl. Cl.-Cu.	...	3	b c	E. by S.	2	...	...	N.	2	3 45 Passed cluster of large icebergs.
	8	...	...	29-49	35	100	-203	Cl.	...	1	b	W.	1	Calm	...	...	...	
	Midnight	...	...	29-46	28	100	-153	...	St.	2	b	S.W.	1	...	...	...	...	Midnight. Pack on starboard hard.
24	4	...	...	29-44	29	100	-159	Cl.	St.	2	b c	S.W.	2	...	...	...	...	3 30 Heavy drift ahead. Turned back.
	8	...	...	29-44	31-5	100	-184	Cl.	St.	6	b c	W.	2	...	...	...	...	8 0 Passing heavy drift.
	Noon	65 26	132 31	29-46	38	100	-228	Cl.-Cu.	St.	5	b c	Calm	0	...	...	N.N.E.	2	2 30 Clouds coming up from N.N.W. Heavy Cu. low on N. horizon.
	4	...	...	29-47	34	100	-195	Cl.	Fr.-Cu.	7	b c	E.	1	...	...	N.N.E.	2	8 0 Bergs and packice to S.
	8	...	...	29-51	36	100	-211	Cl.	Fr.-Cu.	5	b c	E.	1	...	...	...	...	10 0 Overcast from northward.
	Midnight	...	...	29-49	34	100	-195	...	St.	10	m o w	E.S.E.	3	...	...	E.S.E.	2	Midnight. Dull and overcast. Heavy dew. 2 0 Wind freshening.
25	4	...	...	29-45	33	100	-187	...	Nb., St.	10	o m w	E. by S.	4 or 5	E. by S.	4	E.	2	4 0 Heavy dew. Light snow starting to fall. 5 0 Wind veering. 8 0 Heavy snow throughout.
	8	...	...	29-43	33	100	-187	...	Nb.	10	o s	E.N.E.	5	E.N.E.	4	E. by N.	2	
	Noon	65 16	129 10 [D.R.]	29-40	32	100	-180	...	Nb.	10	o s	E.	5	E. by S.	5	E. by N.	3	Noon. Heavy snow throughout. Wind increasing. Snow getting lighter and weather clearing.
	4	...	...	29-39	33	100	-187	...	Nb.	10	o s	E.	6	E.	5	E.	3	4 0 Weather clearing.
	8	...	...	29-40	33	100	-187	...	Nb.	10	o s	S.E.	6	S.E.	5	E.	4	8 0 Threatening appearance. Light snow at times.
	Midnight	...	...	29-35	32	100	-180	...	Nb.	10	o s q	S.E.	8	S.E.	5	E.	6	10 0 Wind increasing. Midnight. Fresh gale. Surrounded by large bergs. 2 0 Wind and sea increasing.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

## METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Direction from—	Disturbance 0-10.	Direction from—	Disturbance 0-10.	
1912. January 26	4	...	...	29-22	32	100	-180	...	Nb.	10	o m	E.S.E.	9	E.S.E.	5	E.N.E.	5	3 0 Full gale with high sea.
	8	...	...	29-15	32½	100	-184	...	Nb., St.	10	o s m	E.S.E.	9	E.S.E.	6	E.N.E.	6	
	Noon	64 48	129 10 [D.R.]	29-15	35	95	-192	...	St.	10	o q m	E. by S.	9	Confused	7	E.N.E.	6	Noon. Sky clearing slightly; Sun showed dimly at noon. Very high and confused sea.
	4	...	...	29-23	34.8	100	-205	...	St.	10	o m	E. by S.	8	...	7	E.N.E.	7	4 0 Wind slightly moderating. Very misty.
	8	...	...	29-07	34	100	-195	...	Nb.	10	o m s	E.S.E.	9	...	7	E.	7	8 0 Continual drizzling rain and snow throughout.
	Midnight	...	...	29-03	34	100	-195	...	Nb.	10	o d m h p	E.S.E.	8	...	7	E.	7	Midnight. Drizzling rain throughout, with passing hail and snow squalls.
	4	...	...	28-97	35	100	-203	...	Nb.	10	o m p	E.S.E.	8	Confused, E.	7	Confused, E.	7	3 0 Weather slightly moderating.
	8	...	...	28-95	33	100	-187	...	Nb.	10	o m s	S.E. by E.	7	E.S.E.	5	E.	5	5 30 Started to snow. 8 0 Heavy snow. 10 0 Snow stopping, weather clearing, wind and sea decreasing. Sun showing up mistily.
27	Noon	64 0 [D.R.]	127 0 [D.R.]	28-98	34.2	100	-194	...	...	...	m	E.S.E.	6	E.S.E.	6	E. by S.	6	11 30 Ran into thick mist.
	4	...	...	29-07	33.1	100	-187	...	...	...	m	E.S.E.	7	E.S.E.	6	E.S.E.	6	3 0 Wind freshening slightly.
	8	...	...	29-09	31	100	-173	...	...	...	m	E.	8	E.S.E.	6	E.S.E.	6	4 0 Thick mist throughout.
	Midnight	...	...	29-10	31	100	-173	...	Nb.	10	o m h	E.	8	E.S.E.	4	E.S.E.	5	1 0 Wind veering. Heavy snow throughout.
	4	...	...	29-05	31	100	-173	...	Nb.	10	o m s	E.	7 or 8	Confused	5	Confused	6	4 0 Sea very confused.
	8	...	...	29-11	32.5	100	-184	...	...	...	m	E.	7	Confused	5	E. by S.	6	7 0 Snow stopping. Weather moderating. 8 0 Thick mist.
	Noon	64 41	127 14	29-12	32.1	99	-179	...	Nb.	10	o	E.	7	Confused	5	Confused	6	3 0 Passed large berg.
	4	...	...	29-15	30.8	93	-161	...	Nb.	10	o m	E.	6	Confused	5	Confused	5	5 30 Heavy snow. 7 0 Snow clearing.
28	8	...	...	29-09	30.5	100	-172	...	Nb.	10	o m	E.S.E.	6	Confused	4	Confused	4	9 30 Weather clearing slightly.
	Midnight	...	...	29-05	31	100	-173	...	...	...	m	E.S.E.	5	Confused	2	E.N.E.	5	10 30 Thick mist. 2 0 Weather thickening. 3 45 Mist lifting.
	4	...	...	28-99	31.1	100	-173	...	...	...	m q	E. by S.	5	Confused	4	E.N.E.	4	4 0 Very unsettled. Gusty wind.
	8	...	...	28-95	31.3	100	-171	...	...	...	m	E. by S.	4	Confused	4	E. by N.	5	10 15 Snow.
	Noon	64 54 [D.R.]	127 6 [D.R.]	28-95	31.2	100	-172	...	Nb.	10	o s	S.E. by S.	4	Confused	3	S.E. by E.	3	1 0 Snow stopping. 2 0 Ran into thick fog. 2 30 Brash ice. 5 30 Fog lifting.
	4	...	...	29-02	31.8	100	-179	...	...	...	f	E.	3	E.	2	Confused	4	5 30 Fog lifting.
	8	...	...	29-08	31	100	-173	...	Nb.	10	o s	S.E.	2	...	...	E.	3	7 0 Snow.
	Midnight	...	...	29-09	31	100	-173	...	Nb.	10	o	S.E.	2	...	...	N.E.	3	11 30 Snow clearing off.



Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1912. January. 30	4	...	...	29-11	31	100	-173	...	Nb.	10	o	E.S.E.	2	E.S.E.	1	N.N.E.	3	4 0. Heavy clouds. Weather more settled. Light snow.	
	8	...	...	29-12	31	100	-173	...	Nb.	10	os	E.	2	...	...	N.E. by N.	2		
	Noon	65 34	125 0 [D.B.]	29-10	31.2	100	-172	...	Nb., St.	10	o.	S.E.	1	...	...	N.E.	2		
	4	...	...	29-07	33.2	94	-177	...	Nb.	10	o	Calm	0	...	...	N.N.E.	2		
	8	...	...	29-03	31	100	-173	...	...	...	...	f	N.E.	1	...	...	N.E.	2	7 45 Ran into fog.
	Midnight	...	...	29-01	30	100	-166	...	...	...	...	fs	Calm	...	...	...	N.E.	2	Midnight. Very thick, with light snow throughout. 1 0 Fog lifting.
31	4	...	...	28-99	29.5	100	-163	...	Nb.	10	oms	S.E.	1	...	...	N.E.	4	4 0 Light snow throughout watch. Long swell from N.E.	
	8	...	...	28-98	30	100	-166	Cl.	Cu.-St., St., Nb.	8	sm	S.E.	2	...	...	N.E.	3	7 15 Sky clearing and sun showing up. Light snow still falling. Misty weather.	
	Noon	66 0	119 30	28-99	30	100	-166	Cl.-St.	Nb., St.	10	o	E.S.E.	1	...	...	N.E.	2	10 0 Entered loose pack. Noon. Heavy black Nb. clouds low on N.N.W. horizon.	
	4	...	...	28-96	29	100	-159	...	Nb.	10	o	E.N.E.	2	...	...	N.	3	3 30 Clear of pack; passing through drift ice.	
	8	...	...	28-95	29	100	-159	...	Cu.-Nb.	9	oc	S.E. by S.	2	...	...	N.	2	9 30 Coming in misty.	
	Midnight	...	...	28-92	29	100	-159	...	...	...	...	oms	S.E.	3	E.S.E.	1	Confused	2	11 40 Snow.
February 1	4	...	...	28-94	31	94	-164	...	Nb.	10	om	S.E. by E.	4	S.E. by E.	2	N.E.	2	4 0 Passing snow showers and occasional mist.	
	8	...	...	29-00	29.5	100	-163	...	St., Nb.	10	o	S.E.	4	S.E.	1	E.N.E.	2		
	Noon	64 49	115 57	29-06	34	89	-174	...	St., Nb.	10	o	S.E. by S.	3	S.E. by S.	1	E.N.E.	1	3 0 Ran into small drift.	
	4	...	...	29-10	31	100	-173	...	Nb.	10	om	E.S.E.	2	...	...	N.E.	1	4 0 Brash ice.	
	8	...	...	29-18	31	100	-173	...	Nb.	10	mo	S.E. by S.	2	...	...	N.E.	1	8 0 Drift ice and occasional brash.	
	Midnight	...	...	29-31	32	100	-180	...	Nb.	10	oms	Calm	...	...	...	...	...	...	11 40 Started to snow lightly.
2	4	...	...	29-26	32	100	-180	...	Nb.	10	oms	S.E.	1	...	...	...	...	...	2 0 Getting thick with light snow falling.
	8	...	...	29-30	31	100	-173	...	Nb.	10	os	S.E.	2	...	...	N.E.	2	3 0 Very heavy snow, covering ship about 1 inch deep in half an hour.	
	Noon	65 9	111 48 [D.B.]	29-35	30.2	98	-164	...	Nb.	10	o	E.S.E.	2	...	...	N.E.	2	3 30 Snow clearing. 4 0 Light snow. Passing heavy drift ice and occasional bergs during watch.	
	4	...	...	29-39	30.7	100	-171	...	Nb.	10	o	S.E.	2	...	...	N.N.E.	3	4 0 p.m. Open water, clear weather.	
	8	...	...	29-43	30.5	100	-170	...	Nb.	10	oms	S.	1	...	...	N.N.E.	2	8 0 Light snow and mist. Passing through loose pack.	
	Midnight	...	...	29-45	31	100	-173	...	Nb.	10	oms	S.E.	1	...	...	N.E.	2	Midnight. Light snow.	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1912. February 3	4	...	...	29.47	29.8	100	.165	...	Nb., St.	10	o m s	S.S.E.	1	...	...	N. by E.	1	4 0 Light snow and mist through- out. No heavy pack visible. Sky not so heavily clouded as before.
	8	...	...	29.53	31.5	100	.177	...	Nb., St.	10	o	Calm	0	...	...	N. by E.	1	
	Noon	...	...	29.53	32	91	.165	...	St.	10	o	W.S.W.	1	...	...	...	...	Noon. Passing through drift and loose pack ice.
	4	...	...	29.54	29.7	100	.164	...	St.	10	o c	N.W.	1	...	...	...	...	12 30 Entered heavy pack.
	8	...	...	29.54	31	95	.164	Cl.	Cu.-St.	7	b c	N.W.	1	...	...	...	...	3 30 Cleared heavy pack.
	Midnight	...	...	29.56	28	100	.153	Cl.-Cu., Cl.	Cu.	6	b c	N.W.	2	...	...	...	...	10 30 Sky clearing.
	4	...	...	29.60	28.7	98	.154	...	St., Cu.	10	o c	W.N.W.	2	...	...	N.	1	Midnight. Fine and clear weather. Stars showing. Clouds mov- ing rapidly from N.W.
	8	...	...	29.63	30.5	95	.160	Cl.	St.	2	b c	W.	3	W.N.W.	2	N.	1	12 30 Cl.-Cu. coming up from N.W. 1 30 Overcast from N.W.
	Noon	...	...	29.66	32	95	.171	...	Cu.	1	b c	W.N.W.	3	W.N.W.	2	...	...	4 0 Making way through loose pack all watch.
	4	65 38	108 36	29.69	28	100	.153	...	Cu., St.	8	b c	W.N.W.	4	W.N.W.	2	...	...	5 0 Cleared pack ice.
	8	...	...	29.62	27	100	.147	...	Nb., St.	9	o	W.S.W.	2	...	...	...	...	7 0 Sky clearing.
	Midnight	...	...	29.70	27	100	.147	...	Nb., St.	10	o m s	S. by E.	1	...	...	S.	1	8 0 Brilliant sun.
	4	...	...	29.67	26.5	100	.144	...	St.	10	o	E.	1	...	...	...	...	Midnight. Aurora australis visible during watch.
	8	...	...	29.63	27	94	.138	...	Nb.	10	o s	E.S.E.	2	...	...	...	...	4 0 Light snow at times. In pack ice all watch.
	Noon	65 7	106 39	29.58	26.5	100	.144	...	Nb.	10	o s	E.S.E.	1	...	...	...	...	5 0 Brought up against heavy pack. Ship stopped.
	4	...	...	29.58	28.2	100	.152	...	Nb.	10	o	E.S.E.	2	...	...	...	...	
	8	...	...	29.52	27	100	.147	...	Nb.	10	o m s	St.	1	...	...	...	...	8 0 Light snow with occasional mist.
	Midnight	...	...	29.55	27	100	.147	...	Nb.	10	o m s	St.	2	...	...	...	...	Midnight. Same condition.
	4	...	...	29.55	26	100	.141	...	Nb.	10	o m s	S.S.W.	1	...	...	...	...	3 30 Open water sighted ahead.
	8	...	...	29.59	27	100	.147	...	St., Nb.	10	o	W.S.W.	1	...	...	...	...	4 0 Snow at times and passing mist.
	Noon	64 31	106 28	29.60	29	100	.159	...	St.	10	o	S.S.W.	1	...	...	...	...	6 0 Open water standing along pack to north.
	4	...	...	29.65	28	100	.153	Cl. Cl.-Cu.	St.	4	b c	W.N.W.	2	...	...	N.	1	1 0 Sky clearing.
	8	...	...	29.67	27	100	.147	...	Cu.-St.	8	o c	W.S.W.	2	...	...	N.	1	6 0 Clouding over from westward.
	Midnight	...	...	29.69	27.5	98	.148	...	Cu.-St.	10	o c	W.S.W.	1	...	...	...	...	8 0 Very clear.
																		1 30 Sky clearing from westward. 3 0 Sky clouding over again from W.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.		
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. February																				
7	4	...	...	29-70	28	88	-135	...	St., Cu.	9	oc	Calm	0	...	...	...	...	4 0	Very heavy cloud bank to S.E.	
	8	...	...	29-70	31	100	-173	...	Nb.	10	os	N. by E.	2	N. by E.	2	...	...	8 0	Very light snow.	
	Noon	64 30	102 9	29-68	33.5	89	-172	...	Cu., St.	8	c	N.	2	...	...	...	...			
	4	...	...	29-67	34.5	100	-199	...	Cu., St.	9	c	N. by E.	3	N.	1	...	...			
	8	...	...	29-63	33.5	100	-191	...	Nb.	10	o	N.N.E.	3	N.E.	1	N.N.E.	1	9 0	Steady drizzling sleet set in and continued throughout watch, increasing towards midnight.	
	Midnight	...	...	29-61	34	100	-195	...	Nb.	10	oms	N.N.E.	4	N.N.E.	2	N.N.E.	2			
8	4	...	...	29-58	33	95	-178	...	Nb.	10	omqs	N.E. by N.	5	N., Confused.	3	Confused, N.N.W.	3	4 0	Wind freshening throughout. No pack visible during watch. Passing numerous bergs throughout with frequent driving sleet and squalls.	
	8	...	...	29-58	33	100	-187	...	Nb.	10	oms	N.E.	6	N. Confused	4	Confused, N.N.W.	4	7 40	Obscured ice barrier to S.W.; stood in towards it.	
	Noon	64 2	98 0	29-58	32.5	100	-184	...	Nb.	10	os	N.E.	5	N., Confused.	4	Confused, N.	4	Noon.	Heavy snow.	
	4	...	...	29-56	33.5	95	-181	...	Nb.	10	o	N.N.E.	4	Confused.	4	Confused. N.	2	4 0	Heavily overcast. Passing great numbers of bergs.	
	8	...	...	29-55	32.8	100	-184	...	Nb.	10	oms	S.S.E.	4	N.E.	3	Confused. N.	2	8 0	Misty snow.	
	Midnight	...	...	29-34	30.5	95	-160	...	Nb., St.	8	oc	E.	3	...	...	...	...			
9	4	...	...	29-48	27.8	97	-146	...	Cl.-St.	St.-Cu.	7	bc	E.S.E.	4	E.S.E.	2	...	...		Following barrier.
	8	...	...	29-39	28	100	-153	...	St., Nb.	10	oc	E. by S.	3	E. by S.	1	...	...			
	Noon	64 33	97 11	29-35	28.1	98	-152	...	Cu.-St.	10	oc	E.	3	E.	1	...	...			
	4	...	...	29-31	28	98	-150	...	Cu.-St.	7	c	E.	4	E.	1	...	...	3 0	Came up with heavy pack ice stretching in an E. by W. direction.	
	8	...	...	29-25	27.5	100	-150	...	Nb., St.	9	oc	S.E.	4	S.E.	2	...	...			
	Midnight	...	...	29-21	26	100	-141	...	St.	10	oc	S.E.	5	S.E.	2	...	...			
10	4	...	...	29-16	26	100	-141	...	St.	10	oc	E.S.E.	6	E.S.E.	4	...	...	3 0	Wind freshening.	
	8	...	...	29-15	25.5	100	-138	...	Nb.	10	ms	E.S.E.	7	E.S.E.	5	...	...	6 0	Getting thick. Light snow falling.	
	Noon	64 26	97 11	29-17	26.3	98	-138	...	Nb.	10	oms	E. by S.	6	E. by S.	4	...	...			
	4	...	...	29-16	26	100	-141	...	St., Nb.	10	oms	E.	5	E.	4	...	...	4 0	Light snow throughout.	
	8	...	...	29-19	28	100	-153	...	Nb.	10	oms	S.E.	4	S.E.	2	...	...			
	Midnight	...	...	29-24	27	100	-147	...	Nb.	10	oms	S.E.	4	S.E.	1	...	...			
11	4	...	...	29-28	27	100	-147	...	Nb., St.	10	oms	S.E. by E.	4	S.E. by E.	1	...	...	4 0	Mist clearing a little. Light snow.	
	8	...	...	29-31	29.5	100	-163	...	St., Nb.	10	o	S.E. by E.	4	S.E. by E.	2	...	...	7 0	Mist clearing.	
	Noon	64 24 [D.B.]	97 15 [D.B.]	29-36	28.8	99	-156	...	Nb.	10	o	E.S.E.	4	E.S.E.	1	...	...			
	4	...	...	29-38	27.5	100	-150	...	St., Nb.	10	o	E.S.E.	4	E.S.E.	2	...	...	4 0	Solid mass of bergs to S.	
	8	...	...	29-38	26	100	-141	...	Nb.	10	oms	E.	3	E.	1	...	...	7 0	Snow.	
	Midnight	...	...	29-38	28	100	-163	...	Nb.	10	oms	E.	4	-E.	2	...	...	7 30	Came up with pack ice—turned on N.N.E. course.	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
				Direction from—	Dis-turbance 0-10.						Direction from—			Dis-turbance 0-10.					
1912. February 12	4	...	...	29-35	28	100	-153	...	Nb.	10	o m	E.	4	E.	2	...	4 0	Frequent snow.	
	8	...	...	29-35	24	100	-130	...	Nb.	10	o	E.S.E.	3	Confused	3	...	...	...	
	Noon	64 43	94 39	29-34	23.4	100	-126	...	Nb., St.	10	o	E.S.E.	4	E.S.E.	3	...	2 0	Sky clearing a little.	
	4	...	...	29-34	22	100	-119	...	Cu.-St., Cu.	8	b c	S.E. by E.	3	S.E. by E.	1	...	...	...	
	8	...	...	29-33	22.5	100	-122	...	St., Nb.	8	b c	S.E.	2	...	...	...	...	...	
13	Midnight	...	...	29-33	24	94	-122	...	Cu.-St., Nb.	9	b c	S.E.	2	...	...	...	...	Midnight.	Heavy clouds round horizon.
	4	...	...	29-35	22	100	-119	...	Nb.	10	o	E.S.E.	2	...	...	...	1 0	Brought up against long line of floe.	
	8	...	...	29-35	24.5	100	-133	...	Nb., Cu.	5	b c	E.S.E.	2	...	...	...	10 0	Barrier obstruction to S.	
	Noon	65 54½	94 25	29-35	23	100	-124	Cl.-Cu.	St.	4	b c	S.E. by E.	3	S.E. by E.	2	...	Noon.	Land obstruction to S.	
	4	...	...	29-39	25	100	-135	Cl.-Cu.	St.	4	b c	S.E. by E.	2	...	...	...	4 0	Making along barrier to S.	
14	8	...	...	29-40	16.3	100	-094	...	St.	3	b c	S.E.	2	...	...	...	5 0	Brought up by solid floe about 30 miles from land.	
	Midnight	...	...	29-42	12	100	-078	Cl.	St.	2	b c	S.E.	2	...	...	...	11 0	Lights of Aurora visible.	
	4	...	...	29-42	13	100	-081	Cl.	St.	6	b c	S.E. by E.	3	...	...	...	...	...	
	8	...	...	29-44	20	100	-110	...	St.	10	o	S.E. by E.	4	...	...	...	...	...	
	Noon	66 10	94 15 [D.E.]	29-42	22	100	-119	...	St.	10	o	E.S.E.	5	...	...	...	2 0	Wind freshening; starting to snow.	
15	4	...	...	29-39	23	94	-122	...	St., Nb.	10	o c s	E.S.E.	6	E.S.E.	1	...	4 0	Under lee of barrier. Light snow, heavy at times.	
	8	...	...	29-37	24	100	-130	Cl.	St.	3	b c	E.S.E.	3	N.E.	1	...	...	...	
	Midnight	...	...	29-33	23	100	-124	...	Nb., St.	10	o c	E.S.E.	4	...	...	N.E.	3	Midnight.	Long N.E. swell.
	4	...	...	29-24	25	100	-135	Cl.	St.	10	b c	S.E. by E.	4	...	...	N.E.	3	...	...
	8	...	...	29-18	27	100	-147	Cl.	St.	6	b c	S.E.	4	S.E.	1	...	...	...	
16	Noon	66 21	94 51	29-12	31	100	-173	Cl.-Cu.	...	8	b c	S.	4	...	...	...	...	...	
	4	At anchor, Western Base.		29-12	32	100	-180	...	Nb., St.	9	o c	Calm	0	...	...	...	4 0	Heavily overcast, with light snow.	
	8	...	...	29-14	28	100	-153	...	Nb.	10	o s	Calm	0	...	...	...	...	...	
	Midnight	...	...	29-12	28.5	100	-156	...	Nb.	10	o m s	S.E.	2	...	...	...	Midnight.	Light snow throughout.	
	4	...	...	29-14	28.5	100	-156	...	Nb.	10	o m s	S.E. by E.	4	...	...	...	4 0	Heavy snow throughout.	
17	8	...	...	29-16	29	100	-159	...	Nb.	10	o m s	S.E.	4	...	...	...	11 0	Snow clearing off.	
	Noon	...	...	29-15	30	98	-163	...	Nb.	10	o	S.E. by E.	4	...	...	...	2 0	Snow.	
	4	...	...	29-16	31.2	98	-171	...	Nb.	10	o m s	N.E.	1	...	...	...	4 0	Heavy snow.	
	8	...	...	29-18	27	100	-147	...	Nb.	10	o s	S.S.E.	1	...	...	...	...	...	
	Midnight	...	...	29-22	26	100	-141	...	Nb.	10	o m s	E.	1	...	...	...	Midnight.	Light snow.	

METEOROLOGY

Table IX.—FIRST ANTARCTIC VOYAGE—*continued.*

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force. 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance 0-10.	Direction from—	Dis-turbance 0-10.			
1912. February.																		
17	4	At anchor, Western Base.		29-24	27	100	-147	...	Nb.	10	o m s	Calm	0	...	...	...	...	
	8	"		...	...	...	...	...	...	...	...	...	...	...	...	...	6 30 Fresh breeze from W.N.W.	
	Noon	"		...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	4	"		29-40	26.8	92	-131	...	Cu.	7	b c	W.N.W.	3	W.N.W.	2	W.N.W.	1	
	8	"		29-43	22	100	-119	...	St.	1	b	Calm	0	...	...	...	2 0 Wind moderating. Weather clearing.	
	Midnight	"		29-45	7.5	100	-064	...	St.	1	b	S.S.E.	1	...	...	...	...	
18	4	"		29-42	10.2	100	-073	...	St.	1	b	Calm	0	...	...	...	4 0 Heavy cloud bank to N.	
	8	"		29-39	21	100	-114	...	Cu., St.	8	b c	Calm	...	...	...	...	...	
	Noon	"		29-39	25	97	-124	...	St.	10	o c	W.N.W.	1	...	...	...	Noon. Sea ice lightly frozen.	
	4	"		29-38	26	100	-141	...	St.	9	o c	Calm	0	...	...	...	...	
	8	"		29-37	23	100	-124	...	St.	10	o	E.	1	...	...	...	8 0 Heavily overcast.	
	Midnight	"		29-35	19	100	-105	...	St., Nb.	10	o	S.E.	4	...	...	...	8 30 Wind freshening.	
19	4	"		29-31	18	100	-101	...	Nb.	10	o q s	S.E. by E.	5	...	...	...	Midnight. Heavily overcast.	
	8	"		29-29	21	100	-114	...	Nb.	10	o m s	S.E.	5	...	...	...	2 0 Wind freshening.	
	Noon	"		29-27	26	100	-141	...	Nb.	10	o m s	S.S.E.	5	...	...	...	4 0 Light snow.	
	4	"		29-25	28	100	-153	...	Nb.	10	o m s	E.S.E.	4	...	...	...	8 0 Blowing a fresh gale on the glacier top, under lee of which ship is lying.	
	8	"		29-24	18	100	-101	...	St.	1	b	S.E.	3	...	...	...	4 0 Light snow. Weather improving.	
	Midnight	"		29-24	14	100	-085	...	St.	1	b	S.E. by S.	3	...	...	...	6 0 Sky clearing.	
20	4	"		29-23	12	81	-063	...	St.	10	o c	S.E. by S.	3	...	...	...	2 30 Clouding over.	
	8	"		29-23	14.8	91	-079	...	St.	1	b	S.S.E.	3	...	...	...	...	
	Noon	"		29-22	25.8	70	-095	...	St.	1	b	S.S.E.	2	...	...	...	Noon. Current apparently setting to N.W. as loose floe was drifting in that direction in perfectly smooth water.	
	4	"		29-23	33	50	-094	...	..	0	b	Calm	0	...	...	...	...	
	8	"		29-28	8	100	-065	...	St.	1	b	S.E.	4	...	...	...	...	
	Midnight	"		29-30	7	100	-062	...	St.	1	b	S.E.	5	...	...	...	...	
21	4	"		29-35	6.5	100	-061	...	St.	6	b c	S.S.E.	3	...	...	...	7 0 Ship left second base for Hobart keeping along barrier.	
	8	Departed from Western Base.		29-41	18.2	100	-100	...	St.	1	b	E.	2	...	...	...	...	
	Noon	85° 48' 95" 11 [D.R.]		29-46	25	100	-135	Cl.	Cu., St.	8	b c	Calm	0	...	...	...	...	
	4	"		29-48	25.3	96	-131	...	Mam.-Cu.	10	o c	Calm	0	...	...	...	...	
	8	"		29-55	25	100	-135	...	St., Nb.	10	o	N.N.W.	1	...	...	...	8 0 Numerous bergs and some drift ice.	
	Midnight	"		29-54	29.5	95	-154	...	St.	10	o m	W.S.W.	1	...	...	...	Midnight. Very dark; masses of bergs and drift ice.	

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. February. 22	4	...	...	29-54	29-5	100	-156	...	Cu.-St.	10	o	W.S.W.	2	...	...	...	...	
	8	...	...	29-52	29-8	100	-165	...	Cu.-St.	10	o	W.	1	...	...	...	...	
	Noon	64 11.	95 52	29-47	32	100	-180	Cl.	Cu.-St.	8	bc	N.E.	2	...	...	...	8 0 Drift and bergs getting lighter.	
	4	...	...	29-46	32-5	95	-174	...	A.-Cu.	9	bc	N.E.	1	...	...	...	11 0 Sky clearing and sun showing out.	
	8	...	...	29-41	30-5	100	-170	...	Nb.	10	os	N.E.	4	N.E.	1	...	3 40 Observed barrier ahead; altered course to N.	
	Midnight	...	...	29-35	31	100	-173	...	Nb.	10	oms	E.N.E.	6	N.E.	3	...	4 0 Passing numbers of bergs.	
23	4	...	...	29-33	32	100	-180	...	Nb.	10	omqs	N.E. by E.	5	N.E. by E.	3	...	...	
	8	...	...	29-38	33	100	-187	...	Nb.	10	oms	E.N.E.	5	E.N.E.	3	E.N.E.	2	4 0 Driving sleet and snow throughout.
	Noon	63 45 [D.R.]	96 44 [D.R.]	29-44	34-5	95	-188	...	Nb.	10	o	N.E.	6	N.E.	4	E.N.E.	3	8 0 Heavy snow throughout.
	4	...	...	29-49	35	95	-192	...	Nb., St.	10	oc	N.E. by N.	6	N.E. by N.	4	N.E.	3	10 30 Rounded northern point of barrier.
	8	...	...	29-57	35	95	-192	...	Nb., St.	10	oc	N.E. by N.	5	N.E. by N.	2	N.E.	3	4 0 Passing numerous bergs.
	Midnight	...	...	29-62	35	100	-203	...	St.	10	o	N.E. by N.	4	N.E. by N.	1	N.E.	3	Midnight. Passed several small bergs during watch.
24	4	...	...	29-67	35-5	95	-196	...	Cu.-St.	9	oc	N.E. by N.	3	N.E. by N.	1	N.E. by E.	3	1 30 Lights of aurora visible to E.
	8	...	...	29-69	35-8	87	-182	...	St.	10	oc	N. by E.	3	N. by E.	2	Confused	2	4 0 Passing several small bergs.
	Noon	62 29	97 57	29-69	36	90	-190	...	Cu.-St.	9	oc	N.N.E.	2	...	...	N.N.E.	2	...
	4	...	...	29-66	36-8	87	-190	...	Cu.-St.	10	oc	N.N.E.	2	...	...	Confused	2	4 0 Passing numbers of small rugged bergs.
	8	...	...	29-64	34	100	-195	...	Nb., St.	10	oc	N.	2	...	...	N.N.E.	2	...
	Midnight	...	...	29-58	34	100	-195	...	St.	10	om	N.W.	2	...	...	N.	2	Midnight. Wind veering throughout.
25	4	...	...	29-56	38	90	-206	...	Nb., St.	10	o	W. by S.	2	...	...	Confused	1	4 0 Wind veering steadily during watch.
	8	...	...	29-51	35	100	-203	...	Nb., St.	10	op	S.W. by S.	1	...	...	...	1	...
	Noon	62 7	102 41	29-43	40-5	86	-218	...	St., Nb.	10	oc	S.W.	2	S.W.	1	...	1	...
	4	...	...	29-37	35-5	100	-207	...	Nb.	10	odmp	W.S.W.	3	W.S.W.	2	W.	1	4 0 Passing icebergs all watch.
	8	...	...	29-28	35	100	-203	...	Nb.	10	or	W.	5	W.	1	W.	3	8 0 Drizzling rain and snow at intervals.
	Midnight	...	...	29-23	35	100	-203	...	Nb.	10	omd	W. by S.	6	W.	4	W.	4	8 0 Light rain.
																	4	Midnight. Several bergs passed during watch.

METEOROLOGY.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. February 26	4	...	...	29-17	30	100	-166	...	Nb.	10	o m d s	W.S.W., S.S.E.	4	S.	1	W.	3	2 0 Wind shifted suddenly into S.S.E. 4 0 Drizzling rain and light snow throughout. 5 0 Wind backed into S.S.W. and freshening. 7 0 Sky clearing in places.
	8	...	...	29-16	30	89	-148	...	Cu., St.	9	b c	S.S.W.	5	S.S.W.	3	Confused	3	7 0 Sky clearing in places.
	Noon	61 23	107 41	29-13	30	100	-166	...	Cu.	6	b c	S.W. by W.	7	Confused	4	S.W.	4	Noon. Wind freshening and backing throughout.
	4	...	...	29-12	28	100	-153	...	St., Cu.	8	b c	S.W.	8	S.W.	5	S.W.	5	4 0 Passing a good many small bergs.
	8	...	...	29-10	28	100	-153	...	Nb., Cu.	4	b c	S.W.	7	S.W.	4	S.W.	5	
	Midnight	...	...	29-06	31	100	-173	...	Cu., Nb.	8	b c	W.S.W.	6	W.S.W.	4	S.W.	5	Midnight. Wind moderating and backing a little.
27	4	...	...	28-94	30.5	100	-170	...	Nb.	10	o d s	W. by S.	5	W. by S.	4	S.W. by W.	4	3 0 Drizzling rain and sleet falling.
	8	...	...	28-82	31	100	-173	...	Nb.	10	o s	W.	1	S.	...	W.	3	6 0 Wind dropping.
	Noon	60 33	112 7	28-79	34	100	-195	...	Nb., Cu.-Nb.	9	o c	W.S.W.	6	W.S.W.	4	S.W. by W.	3	8 0 Heavy snow throughout. 10 0 Sky clearing a little and wind increasing.
	4	...	...	28-79	36	96	-202	Cl.-Cu.	Cu., Cu.-Nb.	7	b c	W.S.W.	6	W.S.W.	4	W.S.W.	3	Noon. Frequent light snow squalls.
	8	...	...	28-83	35	100	-203	...	Cu.-Nb.	6	b c	W. by S.	6	W.S.W.	4	W.S.W.	4	4 0 Occasional light snow. 8 0 Dull and threatening appearance.
	Midnight	...	...	28-78	35	100	-203	...	Nb.	8	o c	W.	7	W.	5	W.	5	Midnight. Wind freshening throughout; occasional snow squalls.
28	4	...	...	28-73	37	100	-219	...	Cu.-Nb., Cu.	8	b c q	W.	8	W.	6	W.	6	1 0 Wind and sea increasing.
	8	...	...	28-78	34.5	100	-199	Cl.	Nb., Cu.	8	b c q p	W.	8	W.	6	W.	7	8 0 Very heavy snow squalls at times. Passing occasional bergs.
	Noon	60 2	117 49	28-81	38	85	-195	...	Cu., Cu.-Nb.	7	b c q	W.	8	W.	5	W.	7	
	4	...	...	28-88	37	95	-208	...	Cu., Cu.-Nb.	6	b c p q	W.	8	W.	5	W.	7	4 0 Very heavy snow squalls at intervals.
	8	...	...	28-96	35	100	-203	...	St., Cu.-Nb.	10	o c q	W.	8	W.	5	W.	7	
	Midnight	...	...	29-08	36.5	100	-215	...	Cu.-Nb. Cu.-Nb.	6	b c q	W.	8	W.	5	W.	7	Midnight. Heavy snow and hail squalls at frequent intervals. 2 0 Weather moderating.
29	4	...	...	29-15	37	100	-219	...	Cu., Cu.-Nb.	6	b c p q	W.	7	W.	4	W.	7	4 0 Occasional hail and rain squalls.
	8	...	...	29-24	38.5	90	-211	Cl.-St., Cl.	Cu.-St.	7	b c	W. by N.	7	W.	5	W. by N.	6	8 0 Frequent heavy squalls.
	Noon	59 29	123 4	29-31	38	100	-228	Cl.-Cu.	St., Nb.	7	b c q p	W. by S.	7	W. by S.	5	W.	7	
	4	...	...	29-36	40	95	-236	Cl.-Cu.	Cu., St.	5	b c p	W.	7	W. by S.	5	W.	6	4 0 Occasional squalls.
	8	...	...	29-46	38	100	-228	...	St., Nb.	10	o c q	W.	5	W.	3	W.	5	
	Midnight	...	...	29-47	39	100	-237	Cl.-Cu.	St.	3	b c q	W.N.W.	5	W.	3	W.	5	Midnight. Lights of aurora very plain throughout watch. Wind backing throughout.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. March																		
1	4	...	...	29-43	38.5	100	-227	...	Nb., St.	10	ocqp	N.W.	6	N.W.	3	W.N.W.	5	4 0 Squally with light rain at times.
	8	...	...	29-36	40	100	-246	...	Nb.	10	oqd	N.W.	8	N.W.	5	N.W. by W.	6	8 0 Wind increasing throughout watch.
	Noon	58 40	126 1 [D.R.]	29-34	41.1	100	-250	...	St., Nb.	10	odmq	N.W.	9	N.W.	6	N.W.	6	
	4	...	...	29-36	40.5	100	-251	...	Nb.	10	odmg	N.W. by N.	9	N.W. by W.	7	N.W.	7	4 0 Very high sea; ship rolling heavily.
	8	...	...	29-52	40.5	100	-251	...	Nb.	10	opq	N.N.W.	9	N.W. by N.	6	N.W.	7	
	Midnight	...	...	29-39	40	100	-246	...	Nb.	10	oq	N.N.W.	8	N.N.W.	5	N.W. by N.	7	Midnight. Wind moderated slightly.
2	4	...	...	29-35	42	100	-266	...	Nb., St.	10	oqp	N.W. by N.	7	N.N.W.	5	N.W.	7	4 0 Wind moderating. Occasional misty rain. Very squally.
	8	...	...	29-28	41.1	100	-256	...	Nb.	10	oqr	N.W. by N.	7	N.W. by N.	5	N.W.	6	5 30 Drizzling rain set in.
	Noon	58 42 [D.R.]	129 19 [D.R.]	29-13	41	100	-256	...	Nb.	10	oqr	Nb.	7	Nb.	4	N.W.	4	
	4	...	...	28-83	41	100	-256	...	Nb.	10	or	N. by E.	6	N. by E.	4	N.	4	4 0 Heavy rain throughout.
	8	...	...	28-59	41.5	100	-261	...	Nb.	10	omr	N.N.E.	5	N.N.E.	2	N.	4	8 0 Continuous rain.
	Midnight	...	...	28-43	38	100	-228	...	Nb.	10	oqr	N.N.W.	9	N.N.W.	6	N.N.W.	8	10 45 Wind freshening from N.N.W. 1 0 Wind dropping rapidly. Very squally.
3	4	...	...	28-48	38	100	-228	...	Nb.	10	oqr	S.W.	9	Confused	5	N.N.W.	8	3 0 Wind shifted into S.W.
	8	...	...	28-90	37	100	-219	Cl.	St., Nb.	7	bc	W.	10	W.	7	W.	8	
	Noon	58 37	131 4	29-09	40	82	-202	...	Cu., Nb.	6	bc	W.	10	W.	8	W.N.W.	8	
	4	...	...	29-30	40	86	-214	...	Cu., Nb.	7	bc	W.	9	Confused	7	N.W.	8	
	8	...	...	29-40	40	100	-246	Cl.	St.	3	bc	W.N.W.	4	Confused	3	W.N.W.	7	10 0 Rain set in.
	Midnight	...	...	29-43	38	100	-228	...	Nb.	10	or	N.W./W.	3	...	...	N.W.	7	Midnight. Ship rolling heavily.
4	4	...	...	29-37	38	100	-228	...	Nb.	10	or	E.N.E.	2	...	...	N.W.	6	1 0 Wind dropping.
	8	...	...	29-48	39.7	100	-243	Cl.-Cu.	St. Cu.-St.	7	bc	S.	1	...	...	Confused	6	2 0 Swell moderating slightly.
	Noon	57 27	133 10	29-52	40	100	-246	...	Cu.	4	bc	S.S.W.	4	S.S.W.	2	Confused	3	3 0 Wind backed into E.
	4	...	...	29-57	41.8	69	-183	...	St., Cu.	2	bc	S. by W.	5	S. by W.	3	S.W.	3	4 0 Light rain throughout.
	8	...	...	29-69	39	91	-215	...	Cu.	3	bc	S.S.W.	5	S.S.W.	3	S.W.	3	5 0 Rain stopping and sky clearing.
	Midnight	...	...	29-75	39.3	97	-233	...	Cu.	5	bc	S.W. by S.	4	S.W. by S.	3	S.W.	3	10 0 Wind freshening from S.S.W.
5	4	...	...	29-81	39.8	91	-227	...	Cu.	4	bc	S.W.	5	S.W.	3	W.S.W.	3	Midnight. Wind dropping to light at intervals.
	8	...	...	29-87	40.5	96	-242	Cl.	Cu.	7	bc	S.W. by W.	5	S.W. by W.	4	W.S.W.	4	4 0 Breeze steady throughout. Stars very bright.
	Noon	54 56	133 54	29-87	41.3	98	-252	...	St.	10	oc	W. by N.	5	W.	5	W.	3	10 0 Sky clouding over. Wind backing.
	4	...	...	29-83	42	100	-266	...	St. A.-Cu.	10	ocqp	W.N.W.	5	W.N.W.	5	W.	3	1 0 Light rain at intervals.
	8	...	...	29-81	42.8	100	-275	...	Nb.	10	oq	N.W./N.	6	N.W.	4	N.W.	4	8 0 Light rain beginning to fall.
	Midnight	...	...	29-69	42	100	-266	...	Nb.	10	or	N.N.W.	6	N.N.W.	4	N.N.W.	3	Midnight. Continuous rain till midnight.

METEOROLOGY



Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance,	Direction from—	Dis-turbance,			
1912. March 6	4	...	...	29-53	43-2	100	.279	...	Nb.	10	o m d	N.N.W.	7	N.N.W.	5	N.N.W.	3	2 0 Rain.
	8	...	...	29-37	43-5	100	.282	...	Nb.	10	o r	N.N.W.	7	N.N.W.	5	N.N.W.	4	4 0 Drizzling rain since 2 a.m. Fairly heavy at times.
	Noon	53 57	135 56	29-32	42	95	.255	...	Cu., Cu.-Nb.	8	b c	W. by N.	6	W. by N.	3	N.W.	4	8 0 Heavy rain throughout.
	4	...	...	29-20	41-5	95	.250	...	St., Nb.	10	o c p q	W. by N.	7	W. by N.	4	W. by N.	5	10 0 Rain clearing off.
	8	...	...	29-20	43	91	.253	...	Nb.	10	o q r	W.	7	W.	4	W.	5	10 20 Wind shifted into W: Sky clearing.
	Midnight	...	...	29-20	42	100	.266	...	Nb.	10	q o r	W.	7	W.	4	W.	6	3 0 Set in overcast with passing rain squalls.
7	4	...	...	29-15	40-5	100	.251	...	Nb.	10	o q r	W.	8	...	4	W.	6	8 0 Rain throughout greater part of watch. Wind veering.
	8	...	...	29-13	42-5	100	.271	...	Nb.	10	o q p	W.S.W.	8	W.S.W.	5	W.	6	Gale increasing throughout morning.
	Noon	52 19	137 17	29-17	43	100	.277	...	Cu.-Nb.	9	o c p	S.W. by W.	9	S.W. by W.	6	S.W. by W.	7	4 0 Gale steady from S.W. throughout. Occasional light showers.
	4	...	...	29-37	43-5	100	.282	...	Cu., Cu.-Nb.	8	b c p	S.W.	9	Confused	6	W.S.W.	7	
	8	...	...	29-51	42	100	.266	...	Cl. Cu.-Nb., St.	8	b c	W.S.W.	8	W.S.W.	6	W.S.W.	8	
	Midnight	...	...	29-62	44	100	.287	...	Cu.-Nb.	6	b c	W.S.W.	8	W.S.W.	6	W.S.W.	7	Midnight. Aurora lights seen faintly to S. during watch.
8	4	...	...	29-66	44	100	.287	...	Cl. Cu., Cu.-Nb.	8	b c p q	W.S.W.	7	W.S.W.	6	W.S.W.	7	4 0 Wind moderating throughout. Light passing showers and squally.
	8	...	...	29-72	44-5	100	.293	...	Cl. Cu.-Nb.	8	b c p	W. by S.	7	W. by S.	5	W. by S.	6	
	Noon	49 52	140 30	29-78	46-2	97	.307	...	Cu., Cu.-Nb.	9	b c	W.	7	W.	5	W.	4	Sea moderating.
	4	...	...	29-76	47-4	89	.291	...	Cu.-Nb.	10	o c	W.	7	W.	5	W.	4	
	8	...	...	29-84	47	96	.309	...	Cu.-Nb.	4	b c p	W.S.W.	3	W.	3	W.	4	
	Midnight	...	...	29-88	49	93	.321	...	Cu., Cu.-Nb.	6	b c	W.	4	W.	3	W.	3	1 0 Overcast from W.
9	4	...	...	29-87	49-2	99	.344	...	Cu., Cu.-Nb.	10	o c	W., W.N.W.	4 or 3	W.N.W.	1	W.S.W.	3	2 0 Wind dropped to light from W.N.W.
	8	...	...	29-94	49-4	97	.341	...	St.	10	o c	W.N.W.	3	W.N.W.	1	W.S.W.	3	9 0 Wind backing.
	Noon	47 39½	141 59	29-93	50-7	100	.369	...	St., Nb.	10	o c	N.W. by N.	2	...	...	S.W. by W.	2	
	4	...	...	29-92	51-3	94	.355	...	St., Cu.	6	b c	N.W. by W. to N.N.W.	3	...	...	Confused	3	3 30 Sky clearing.
	8	...	...	29-93	52	97	.374	...	Nb., St.	4	b c	N.W. by N. N.N.W., N.E. by E.	4	...	...	S.W. by W.	4	7 30 Wind backed into N.E.
	Midnight	...	...	29-82	53	100	.402	...	...	0	b h w	N.E. by E.	4	N.E.	1	S.W.	4	Midnight. Very distinct halo surrounding moon.
																		1 0 Cl. and Cl.-Cu. passing over from N.E. and N.

Table IX.—FIRST ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
				Direction from—	Dis-turbance,						Direction from—			Dis-turbance,					
1912. March. 10	4	...	...	29-68	54.2	99	-414	...	St.	10	ocq	N.E. by E.	5	N.E.	2	Confused	4	2 0	Wind veering, swell confused. Overcast from N.E.
	8	...	...	29-55	55	100	-432	...	Nb., St.	10	o	E.N.E.	5	N.E. by N.	3	N.E.	3		
	Noon	46 19 [D.R.]	142 47 [D.B.]	29-43	54.5	100	-425	...	Nb.	10	ocm	E.	4	E.	2	N.E.	4	12 30	Rain set in and wind dropped to light from E.
	4	...	...	29-36	56.5	97	-442	...	Nb.	10	ro	Calm, S.	1	...	...	N.E.	5	3 0	Calm, rain getting lighter.
	8	...	...	29-42	55	93	-404	...	Nb.	10	om	S.W. by S.	6	S.S.W.	4	S.S.W.	3	3 45	Light airs from S.
	Midnight	...	...	29-56	54	87	-361	...	Cu.-Nb.	6	bc	S.W. by S.	7	S.W. by S.	5	S.W.	6	10 0	Weather cleared. Clouds moving rapidly from S.W.
11	4	...	...	29-66	53.2	79	-318	...	Cu., Cu.-Nb.	8	bcq	S.W.	7	S.W.	5	S.W.	6	4 0	Overcast at times.
	8	...	...	29-84	53.5	65	-264	...	Cu.	8	bc	S.W.	7	S.W.	6	S.W.	6		
	Noon	...	...	29-95	55	62	-268	...	Cu.	5	bc	S.W. by S.	7	S.W. by S.	5	S.W.	6		
	4	...	...	30-00	59	57	-281	...	Cu.	1	bc	S.W.	6	S.W.	5	S.W.	6		
	8	...	...	30-06	...	...	...	...	Cu.	1	bc	W.S.W.	5	W.	4	W.S.W.	5	7 40	Observed Maatsuyker Light-house N.43°E. [True.]
	Midnight	...	...	30-05	...	...	...	...	Cu.-Nb.	3	bcq	S.W.	5	S.W.	5	W.S.W.	5		
12	4	...	...	30-02	...	...	...	...	Nb., Cu.-Nb.	10	ocq	N.W.	3	...	...	S.W. by W.	4	1 30	Observed C. Bruny Light, N.35°E. [Mag.]
	8	...	...	30-02	...	...	...	...	Cl.	8	bc	W.	3	...	...	...	...		
	Noon	...	...	29-94	...	...	...	...	...	...	...	...	...	...	...	...	...		

Table X.—FIRST SUBANTARCTIC VOYAGE.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. May 19	Noon	Departed from Port Kembla.		...	...	...	...	...	...	...	...	...	...	...	...	...	1 0 Wind increasing.	
	4	...	...	30-31	61.9	69	.383	...	Cu.-Nb.	10	o c p	S. by E.	4 or 6	S. by E.	3	S. by E.	3	4 0 Occasional light rain squalls throughout.
	8	...	...	30-38	61	71	.382	...	Nb.	9	o c p	S.E. by S.	5	S.E.	3	S.E.	4	
	Midnight	...	...	30-42	60	71	.366	...	Cu.-Nb.	10	o c p	S.S.E.	4	S.S.E.	2	S.S.E.	4	Midnight. Passing showers. Dull and cloudy throughout.
	4	...	...	30-42	60	60	.309	...	Nb., St.	7	b c p	S.S.E.	4	S.S.E.	2	S.S.E.	2	1 0 Sky clearing.
	8	...	...	30-46	59	70	.351	...	Nb., Cu.-St. Cu.	6	b c	S.S.W.	3	S. by W.	1	S. by W.	1	1 30 Light rain squall.
	Noon	36 0	150 43	30-45	61.7	62	.343	...	Cu.	4	b c	S.S.W.	1	...	...	S.S.E.	2	1 0 Calm.
	4	...	...	30-36	61.2	68	.365	...	Cl.	1	b	N. by E.	3	N. by E.	3	S.S.E.	2	1 30 Breeze coming up from N. by E.
	8	...	...	30-35	62.5	69	.390	...	Cl.	1	b	N.W. by N.	3	N.	2	S.E.	1	
	Midnight	...	...	30-30	60	76	.395	...	...	0	b w	Var.	1	N.	1	S.E.	1	
20	4	...	...	30-27	58	81	.399	...	...	0	b	S.W. by W.	2	S.W.	1	S.E.	1	4 0 Wind freshening.
	8	...	...	30-30	56.2	88	.390	...	Cl.-Cu.	3	b c	W. by N.	5	W.	1	W.	1	
	Noon	38 1	149 18	30-30	57.5	78	.370	...	Cu.	1	b	W. by N.	4	W. by N.	2	W.	1	
	4	...	...	30-25	59	70	.351	...	Cl.	4	b c	W.S.W.	4	W.S.W.	2	W.S.W.	1	
	8	...	...	30-29	59	70	.351	...	Cl., St.	5	b c	W.S.W.	4	W.S.W.	1	W.S.W.	1	
	Midnight	...	...	30-29	59	70	.351	...	Cu.	1	b w	W. by S.	3	...	...	W.S.W.	1	
21	4	...	...	30-24	57	75	.349	...	Cl.-St.	6	b c	W. by N.	3	W. by N.	1	W. by S.	1	6 0 Wind veering. Sky overcast from S.E.
	8	...	...	30-30	54	100	.417	...	Nb.	10	r q	S.E.	6	S.E.	3	S.E.	1	6 30 Rain, wind freshening from S.E.
	Noon	38 58 1/2	146 56 1/2	30-31	54	84	.376	...	Nb.	10	d q	S.E.	7	S.E.	5	S.S.E.	4	9 0 Swell coming up from S.E.
	4	...	...	30-38	55	74	.321	...	Cl.-Cu.	8	b c	S.E.	6	S.E.	4	S.E.	3	1 0 Sky clearing; wind, sea and swell moderating.
	8	...	...	30-45	56	75	.334	...	Cu.-Nb.	7	b c	S.E.	6	S.E.	4	S.E.	3	8 0 Storm clouds coming from S.E. Heavy cloud banks on E. horizon. Very clear.
	Midnight	...	...	30-48	56	75	.334	...	Cu.	7	b c	S.E. by E.	4	S.E.	3	S.E.	2	9 0 Wind backing into E.
	4	...	...	30-47	55	78	.334	...	Cu.-St.	4	b c	S.E.	2	S.E.	1	S.E.	1	10 30 Wind steadied again in S.E. by E.
	8	...	...	30-50	56	75	.334	...	Cu.-St.	8	b c	E.	2	...	...	S.E.	1	4 0 Wind dropping throughout watch.
	Noon	39 32	143 56 1/2 (by bearings).	30-48	53.5	80	.326	...	Cl.	2	b	N.E. by E.	3	N.E.	1	S.W.	1	8 0 Fine but very cloudy throughout.
	4	...	...	30-38	57	66	.308	...	...	0	b	N. by E.	4	N. by E.	1	S.W. by S.	2	8 30 Sky clearing.
	8	...	...	30-39	56.7	68	.315	...	...	0	b	N.W. by N.	3	...	...	S.W. by S.	2	9 45 Wind freshening slightly.
	Midnight	...	...	30-33	56	75	.334	...	St., Cu.	1	b c w	N.W. by N.	4	N.W.	1	S.W. by S.	1	Midnight. St. low on E. horizon.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1912. May	24			30-21	56.5	81	-370	...	St., Nb.	10	cw	N.N.W.	5	N.N.W.	2	Confused	2	1 0 Sky overcast S.S.E. 2 0 Wind increasing.	
	8			30-18	56.5	89	-406	...	Nb., St., Cu.-Nb.	10	c	N.W.	5	N.W.	3	N.W.	3	4 0 Sky clearing occasionally. Very threatening clouds to S.	
	Noon	40 32	141 25	30-12	57.3	92	-431	Cl.	Cu., St.	5	bc	N.W. by N.	5	N.W. by N.	3	...	3	6 0 Wind veered to N.W. 9 30 Sky clearing from S.W.	
																			Noon. St. clouds low all round horizon. 12 30 Heavy rain clouds coming up from S.W.
	4			30-02	55	100	-432	...	Nb.	10	orm	S.W.	5	Confused	3	N.	3	1 0 Sharp rain squall. 2 0 Continuous light rain, heavy at times.	
	8			30-02	54	80	-334	...	Cu.-Nb.	3	bc	S.W.	3	...	...	N.	3	3 0 Wind suddenly veered into S.W. 5 0 Rain stopping, sky clearing.	
	Midnight			29-97	54	80	-334	...	Nb., St.	9	c	S.W. by W.	4	S.W.	2	W.S.W.	4	8 0 Halo round moon. 10 30 Wind freshening.	
25	4			29-02	53.5	77	-314	Cl.	...	1	b	S.W. by W.	3	S.W. by W.	1	W.S.W.	4	11 0 Long swell coming in from W.S.W. 11 15 Sky became overcast from S.W.	
	8			29-05	53	80	-320	Cl.	St., Cu.	4	bc	S.W. by S.	3	S.W. by S.	1	S.W.	5	2 0 Sky clearing. Wind dropping. 4 0 Heavy rain clouds covering sky up till 2 a.m. Ship rolling considerably. Lightning to S.W.	
	Noon	42 27½	141 1	29-99	54.2	73	-304	...	Cu.	5	bc	S.W. by S.	2	S.W.	1	S.W. by W.	6	8 0 Dark clouds low on N. horizon.	
	4			30-01	53	80	-320	...	Cu., Cu.-Nb.	7	bcp	S.W. by S.	4	S.W. by S.	2	S.W.	5	2 0 Wind freshening.	
	8			30-08	52	66	-256	...	Cu.-Nb. Cu.-Nb.	10	cp	S.W.	4	S.W.	1	S.W.	5	8 0 Very threatening appearance of weather.	
	Midnight			30-11	51	79	-295	...	Cu.-Nb., Nb.	7	bcp	S.W.	3	S.W.	1	S.W.	6	Midnight. Frequent rain squalls after 10 p.m.	
	4			30-11	50	90	-321	...	Nb., Cu.-Nb.	7	bcpq	W.S.W.	3	W.S.W.	2	S.W.	6	1 0 Fine lunar rainbow visible. 4 0 Frequent light squalls throughout.	
	8			30-14	53	86	-347	...	Cu., Nb.	10	bcp	W. by S.	3	W. by S.	2	S.W. by W.	5	8 0 Showery.	
	Noon	43 57	140 26	30-10	53	83	-333	...	Cu., Cu.-Nb.	5	bcp	W. by S.	3	W. by S.	1	W.S.W.	5	Noon. Rolling considerably.	
	4			30-06	52	85	-328	...	Mam.-Cu., Cu.-Nb., Cu.	7	bcp	W.N.W.	4	W.N.W.	2	W. by S.	4	3 0 Wind backing into W.N.W. 4 0 Frequent passing showers. 8 20 Wind backed into N.W.	
	8			30-01	52	86	-333	...	Cu.-Nb., Cu.	7	bcp	W.N.W.	4	W.N.W.	2	W. by S.	5	10 0 Wind and sea increasing.	
	Midnight			29-90	52	85	-328	...	Cu., Nb.	10	cop	N.W.	6	N.W.	4	W.	5	Midnight. Heavily overcast throughout with occasional passing showers.	
27	4			29-79	52	90	-347	...	Nb.	10	oqp	N.N.W.	6	N.N.W.	4	W. by N.	6	Ship rolling considerably.	
	8			29-80	50.5	100	-367	...	Nb.	10	or	W.	3	Confused	4	Confused, W.	7	4 0 Overcast throughout with frequent showers. Ship rolling heavily and shipping much water.	
	Noon	45 29 [D.R.]	140 6 [D.R.]	29-80	46.2	100	-312	...	Nb.	10	or	S.S.E.	3	S.	3	W.S.W.	7	5 30 Steady rain set in. Ship rolling heavily to high, and very confused swell.	
	4			29-84	45	100	-298	...	Nb.	10	or	S.E.	4	Confused	4	S.W., Confused.	5	10 30 Wind steadying into S.S.E. 2 0 Swell moderating, wind freshening.	
	8			29-91	44	89	-255	...	Nb.	10	or	S. by E.	3	S. by E.	3	Confused	5	4 0 Steady rain throughout, easing off towards 4 p.m.	
	Midnight			29-96	43	79	-219	...	Nb.	10	or	S.	3	S.	2	Confused	5	8 0 Continuous rain throughout. Midnight. Rain clearing off.	

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. May	28			30-01	44.5	71	210		Nb.	10	op	S. by W.	4	S. by W.	3	S. by W.	4	1-2 Light rain.
	8			30-08	44	64	183		Cu.	2	bc	S.	3	S. by W.	1	S.W. by S.	5	2 0 Wind freshening slightly.
	Noon	47 32	139 28	30-00	45	61	181		Cu.	7	bc	S.	4	S.	2	S.W. by S.	6	4 0 Sky breaking to S.W.
	4			30-10	43	57	159		Mam.-Cu., Cu.	6	bc	S.S.W.	1			S.W. by S.	5	5 0 Sky clearing.
	8			30-09	43	59	163		Cu.	9	bc	Calm.	0			S.W. by S.	4	
	Midnight			29-98	45	53	159		Cu.-St., Cu.	8	bc	N.W.	3	N.W.	1	S.W. by W.	5	2 0 Breeze dropping.
29	4			29-90	44.2	62	180		Cu.-St.	10	oc	N.W. by W.	4	N.W.	2	W.S.W.	4	11 20 Wind settling into N.W.
	8			29-78	45	76	227		St.	10	oc	N.W. by W.	5	N.W.	4	W. by S.	4	3 0 Clouding over from N.W.
	Noon	49 17 [D.R.]	139 37 [D.R.]	29-69	45.2	78	237		St., Cu.-Nb.	10	o	N.W.	7	N.W.	5	Confused	5	4 15 Wind freshening.
	4			29-65	39.3	88	211		Nb.	10	o	S.W.	6 or 5	S.W.	5	S.W.	5	6 0 Sea increasing from N.W.
	8			29-59	42	70	187		Cl.-Cu.	7	bc	S.W. by S.	4	S.W.	2	S.W.	5	10 0 Wind and sea increasing
	Midnight			29-50	41	74	189		Cu.	1	b	S.W.	3			S.W.	5	Noon. Rain set in.
30	4			29-39	40.2	80	199		Cl.-St.	8	bc	N.W. by W.	2			W.S.W.	6	1 30 Sudden shift of wind into S.W.
	8			29-16	41.5	80	211		Cu.-Nb. Nb.	10	oc	N.W.	6	N.W.	4	W.	6	2 30 Wind moderating.
	Noon	51 41	140 13	28-97	40	98	242		Nb.	10	o	N.W.	7	N.W.	3	W.N.W.	6	3 30 Rain taking off. Sky clearing to W.
	4			28-93	39	91	215		Nb., Cu.-Nb.	10	op	W. by N.	5	W. by N.	3	W.N.W.	5	2 45 Wind backing throughout watch.
	8			28-95	36.6	94	203		Nb.	10	od	S. by W.	3	S. by W.	2	W.	5	4 0 Large halo round moon.
	Midnight			29-00	38.5	76	178		Cu.	6	bc	S.S.W.	6	S. by W.	3	W.S.W.	4	4 0 Ship rolling heavily to high swell.
31	4			29-05	38	72	164		Cu., Cu.-Nb.	6	bc	S.W. by S.	7	S.W.	4	S.W.	5	5 15 Overcast from N.W. Wind and sea increasing throughout.
	8			29-15	38.7	77	187		Cu.-Nb.	6	bc	S. by W.	7	S.S.W.	4	S.W.	5	9 0 Light rain set in. Ship stopped for sounding.
	Noon	52 32	143 33	29-23	39	72	172		Cu., Cu.-Nb.	7	bcp	S. by W.	7	S. by W.	5	S.S.W.	5	10 0 Full ahead.
	4			29-31	37.2	65	143		Mam.-Cu.	10	oc	S.W.	5	S.W.	4	W. by S.	6	Noon. Rain taking off; sky clearing to W. Wind dropping.
	8			29-35	38.6	51	119		Nb.	10	oc	W.	2	S.W.	3	W.	5	2 0 Sky clouding over again.
	Midnight			29-20	41	82	211		Nb.	10	oqr	N.W.	7	N.W.	4	W.	6	4 0 Frequent rain squalls.
June	1			29-14	43	100	277		Nb.	10	opq	W. by N.	6	W.N.W.	4	W.	5	6 0 Continuous light rain.
	8			29-30	41	91	233		Nb.	10	opq	W.S.W.	6	W.S.W.	4	W.S.W.	6	8 40 Sky clearing.
	Noon	52 23	142 14 [D.R.]	29-38	41	80	206		Nb.	10	opq	W. by S.	6	W.	5	W. by S.	5	4 0 Clouds passing very quickly.
	4			29-28	40	96	234		Nb.	10	opm	N.W. by W.	5	Confused	4	W.	5	Noon. Occasional hail squalls.
	8			29-25	41	97	237		Nb.	10	or	Nb.	6	N.N.W.	3	W.N.W.	5	4 0 Wind moderating throughout; ship rolling heavily.
	Midnight			29-08	41	100	256		Nb.	10	od	N.W.	8	N.W.	5	W.N.W.	7	8 20 Wind shifting into N.W.
																		11 20 Wind freshening. Set in squally.
																		1 30 Continuous rain.
																		3 15 Rain taking off.
																		4 0 Wind veering throughout watch.
																		5 0 Sky breaking to W.
																		3 30 Wind-backed into N.W.
																		4 0 Wind backing throughout.
																		6 0 Continued rain set in.
																		10 15 Wind veering and increasing.
																		Midnight. Sea rising throughout.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. June 2	4	...	...	29-08	41	91	-233	...	Nb., St.	10	o q p	W.	7	Confused	5	N.W. by W.	6	2 15 Wind moderating. 4 0 Frequent light rain. Rolling and pitching heavily.
	8	...	...	29-11	39.4	87	-210	...	Nb.	10	o c b	W. by N.	3	Confused	3	N. by W.	5	
	Noon	52 46	142 0	29-06	39.5	77	-187	...	Nb.	10	o	W.	5	W. by S.	3	W.N.W.	6	1 0 Sky clearing a little.
	4	...	...	29-09	38	90	-206	...	Cu.	2	b c p	W.	6	W.	4	W.	6	4 0 Heavy passing snow squalls. Cu. low all round horizon.
	8	...	...	29-25	39.5	77	-187	...	Cu.	7	b c p q	W.	7	W.	7	W.	8	6 0 Wind freshening. 8 0 Wind and sea increasing throughout.
	Midnight	...	...	29-33	39	64	-151	...	Cu., Cu.-Nb.	7	b c p q	W.S.W.	9	W.S.W.	8	W.S.W.	8	Midnight. Violent snow squalls Very high sea.
	4	...	...	29-38	38	72	-164	...	Cu., Cu.-Nb.	6	b c p q	W.S.W.	8	W.S.W.	8	W.S.W.	8	2 0 Wind moderating between squalls.
3	8	...	...	29-49	37.5	76	-170	...	Cu.	4	b c p q	S.W.	8	S.W.	8	W.S.W.	8	4 0 Frequent snow squalls of great violence. Vessel shipping great quantities of water fore and aft.
	Noon	52 1	146 59	29-50	38	77	-174	Cl.	Cu., Cu.-Nb.	8	b c p	S.W. by S.	8	S.W.	8	W.S.W.	7	
	4	...	...	29-53	40.8	67	-170	...	Cu., Cu.-St.	10	o c q	S.W. by S.	8	S.W.	8	S.W.	8	
	8	...	...	29-59	40	82	-202	...	Cu.-Nb., Nb.	10	o c q	S.W. by S.	8	S.W.	7	S.W.	8	8 0 Rain. 11 0 Wind backed into W.; 11-30 S.W.
	Midnight	...	...	29-65	40.5	86	-218	...	Nb.	10	o q	S.W. by S.	7 or 6	S.W.	6	S.W.	8	Midnight. Rolling very heavily.
4	4	...	...	29-64	40.8	84	-214	...	Cu., Cu.-St.	10	o c	S.W. by W.	5	S.W. by W.	5	S.W. by W.	7	4 0 Wind moderating rapidly. Overcast throughout.
	8	...	...	29-65	41	74	-189	...	Nb., St.	10	o c	S.W. by W.	2	S.W. by W.	3	S.W. by W.	6	10 0 Wind backing.
	Noon	51 55	151 5 [D.R.]	29-57	41.5	76	-200	...	Nb., St.	10	o p	N.N.W.	4	N.N.W.	3	Confused	6	12 30 Drizzling rain set in.
	4	...	...	29-43	42	100	-266	...	Nb.	10	o d	N. by W.	6	Confused	5	W	6	2 0 Wind freshening. 4 0 Drizzling rain throughout
	8	...	...	29-26	46	100	-310	...	Nb.	10	o c	W. by N.	6	Confused	5	W.	5	8 0 Wind steadily veering throughout watch. 9 15 Heavily overcast with drizzling rain.
	Midnight	...	...	29-37	43	...	...	...	St.	10	o	S.W. by S.	4	S.W.	2	W.S.W.	4	11 0 Rain clearing, wind veering.
5	4	...	...	29-43	37.8	85	-192	...	St.	10	o c w	S.W.	4	S.W.	2	W.S.W.	3	4 0 Wind steady in S.W. Overcast throughout.
	8	...	...	29-47	39	78	-187	...	St.	10	o c	S.W.	5	S.W.	4	S.W.	3	
	Noon	53 28	154 22	29-45	39	81	-193	...	St., Nb.	10	o c	S.W. by W.	6	S.W. by W.	4	S.W. by W.	4	Noon. Wind freshening slightly.
	4	...	...	29-51	38.1	87	-200	...	Cu., Cu.-Nb.	10	b c p	S.W. by S.	6	S.W. by S.	4	S.W.	4	9 30 Brilliant meteor across W. sky. 9 40 Drizzling rain.
	8	...	...	29-61	38.2	81	-187	...	St., Nb.	3	b c	S.S.W.	4	S.S.W.	1	S.W.	4	10 30 Rain taking off. Wind dropping to light S. airs.
	Midnight	...	...	29-69	37	90	-198	...	St.	10	o c	S.S.W.	1	...	...	S.W.	3	
6	4	...	...	29-72	38	81	-185	...	St.	10	o c	S.	1	...	...	S.W. by S.	4	4 0 Overcast throughout.
	8	...	...	29-75	38	90	-206	...	Nb. St.	9	c	N. by W.	3	N. by W.	1	W.S.W.	4	5 0 Wind settling into N.N.W.
	Noon	53 46	158 12	29-76	38	98	-224	...	Nb., St.	10	c	N.W.	4	N.W.	2	W.N.W.	3	3 0 Drizzling rain set in.
	4	...	...	29-71	41	100	-256	...	Nb.	10	o d	N.W.	5	N.W.	3	W.N.W.	3	6 0 Sky clearing. 8 0 Cloudless sky. Stars very brilliant.
	8	...	...	29-75	40	76	-187	...	...	...	b	W. by N.	5	W. by N.	4	W	4	9 0 Wind freshening.
	Midnight	...	...	29-63	42	83	-220	...	St., Nb.	8	b c	W. by N.	6	W. by N.	5	W.	5	10 10 Overcast from W. Light rain squalls.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
				Direction from—	Dis-turbance, 0-10.						Direction from—			Dis-turbance, 0-10.				
1912. June	7	4	...	29-49	41	91	-233	...	Nb., St.	10	oc	W.N.W.	7	W.N.W.	5	W.	6	4 0 Wind and sea increasing throughout.
		8	...	29-30	42	96	-255	...	Nb.	10	or	W.N.W.	9	W.N.W.	6	W.N.W.	6	6 0 Swell moderating, getting under lee of land.
	Noon	54 38	159 0	29-22	41	100	-266	...	Nb., Cu., Nb.	10	ocpq	W.	9	W.	7	...	...	8 0 Wind freshening throughout watch.
	4	At anchor, Macquarie Island.		29-31	38.8	83	-196	...	Nb.	10	ocpq	S.	7	S.	4	...	...	9 10 Macquarie Island (N. end) N.W. approximately.
	8	"	"	29-61	37.5	67	-149	...	St.	5	bcpq	S.S.W.	5	S.S.W.	2	...	...	2 20 Dropped anchor in 12 fathoms N.E. Bay.
	Midnight	"	"	29-85	36	62	-130	...	Nb., St.	10	ocq	S.S.W.	5	S.S.W.	2	...	...	3 0 Wind moderating, shifted into S.
8	4	"	"	29-95	38	58	-133	...	Nb., St.	10	ocqp	W. by N.	6	W. by N.	1	S. by W.	2	Midnight. Blue sky at intervals.
	8	"	"	29-95	40	91	-224	...	Nb.	10	omdq	W.N.W.	6	W.N.W.	2	S.	2	3 0 Wind shifted into W.N.W.
	Noon	"	"	29-87	43.8	85	-243	...	Nb.	10	moq	W.	7	W.	3	...	...	4 20 Rain squall.
	4	"	"	29-92	41	91	-233	...	Nb.	10	osdq	W. by N.	8	W. by N.	3	...	...	8 0 Passing squalls.
	8	"	"	29-98	42	91	-243	...	Nb.	10	oqd	W.N.W.	8	W.N.W.	3	...	...	4 0 Very fierce squalls, drizzling rain at times.
	Midnight	"	"	30-03	42	91	-243	...	Nb.	10	oqd	W.N.W.	9	W.N.W.	3	...	...	
9	4	"	"	30-05	42.2	90	-243	...	Nb.	10	oq	W. by N.	8	W. by N.	3	...	...	
	8	"	"	30-10	41	87	-222	...	St., Nb.	10	ocq	W.	7	W.	3	...	...	
	Noon	"	"	30-09	42	83	-220	...	Nb., St.	10	mocq	W. by S.	8	W. by S.	3	...	...	
	4	"	"	30-05	42.5	79	-214	...	St., Nb.	10	cqm	W.	7	W.	3	...	...	
	8	"	"	30-04	43	83	-230	...	St.	10	oc	W. by N.	6	W. by N.	2	...	...	
	Midnight	"	"	30-02	43	83	-230	...	Nb., St.	10	oc	W. by N.	7	W. by N.	3	...	...	
10	4	"	"	30-00	42	91	-243	...	Nb.	10	oqd	W. by N.	7	W. by N.	2	...	...	12 40-3 20 Wind freshened to fresh gale.
	8	"	"	29-93	42.5	91	-248	...	Nb.	10	omdc	W.	6	W.	2	...	...	
	Noon	"	"	29-83	43	91	-253	...	St.	10	cm	W. by N.	5	W. by N.	2	...	...	
	4	"	"	29-74	43	89	-249	...	St.	10	cm	W. by N.	5	W. by N.	2	...	...	7 0 Drizzling rain.
	8	"	"	29-66	43.3	88	-249	...	Nb.	10	med	N.W.	6	N.W.	2	...	...	8 20 Wind freshening.
	Midnight	"	"	29-56	43	96	-266	...	Nb.	10	mcr	N.W.	7	N.W.	2	...	...	
11	4	"	"	29-58	36.6	96	-207	...	Nb.	10	ocr	S.S.E.	5	S.S.E.	1	...	...	1 20 Wind moderating.
	8	"	"	29-77	35	66	-136	...	St.	10	oc	S.S.E.	5	S.S.E.	2	S.	1	2 10 Wind veered into W.N.W. Light steady rain set in.
	Noon	"	"	29-97	34.2	64	-127	...	St.	10	oc	S. by E.	3	S. by E.	1	S.S.E.	2	2 35 Wind freshening. Weather clearing.
	4	"	"	30-08	35	66	-136	...	St.	10	oc	S.	3	S.	1	S.S.E.	1	3 40 Wind shifted into S.S.E.
	8	"	"	30-15	35.6	65	-136	...	St.	8	bc	Var.	2	...	...	S.S.E.	1	5 25 Sea increasing from S.
	Midnight	"	"	30-17	34	80	-155	...	Nb., St.	10	oc	W.	6	W.	1	S.	1	Noon. Wind dropping throughout.
																		5 0 Wind dropped to light.
																		8 0 Wind variable.
																		9 30 Wind steadied into W.
																		10 30 Wind freshening.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. June 12	4	At anchor, Mac- quarie Island.		30.16	36	72	-153	...	Nb., St.	10	oc	W.	6	W.	2	S.	1	4 0 Blue sky visible at times.
	8	"		30.16	35.2	68	-141	...	Cu., Cu.-St.	10	ocq	W.	5	W.	2	...	...	
	Noon	"		30.17	36.2	67	-144	...	Cu.-St.	10	ocq	W.	5	W.	2	...	...	
	4	"		30.16	37	64	-140	...	Cu.-St.	10	ocq	W.	4	W.	1	...	...	
13	8	"		30.16	38	63	-143	...	Nb., St.	8	bcq	W.	5	W.	2	...	...	8 0 Clear weather.
	Midnight	"		30.14	39.5	71	-174	...	Nb., Cu.-St.	10	ocq	W.	6	W.	2	...	...	Midnight. Frequent fierce squalls.
	4	"		30.10	40	73	-180	...	Nb., Cu.-St.	10	ocrq	W.	6	W.	2	...	...	3 10 Light rain set in.
	8	"		30.08	41	74	-189	...	Nb., Cu.-Nb.	10	oqp	W.N.W.	6	W.N.W.	2	...	...	4 30 Wind backed into W.N.W., with passing rain squalls.
	Noon	"		30.07	42	74	-198	...	Nb., Cu.-St.	10	ocqp	W.N.W.	7	W.N.W.	3	...	...	9 0 Got under way for Lusia- nia Bay. Wind freshening.
	4	"		29.91	41	91	-233	...	Cu.-St., Nb.	10	oqr	N.N.W.	5	N.N.W.	2	...	...	12 30 Anchored, Lusitania Bay. 3 0 Rain set in.
14	8	"		29.86	43	87	-242	...	Nb.	10	oqr	N.	6	N.	2	...	...	8 0 Continuous rain. Wind squally and gusty.
	Midnight	"		29.81	44	92	-264	...	Nb.	10	oqmr	N.	7	N.	2	...	...	10 0 Heavy mist setting in.
	4	"		29.77	44.2	98	-285	...	Nb.	10	omd	N.	2	...	...	...	...	1 20 Wind dropping.
	8	"		29.78	44	96	-275	...	Nb.	10	omq	N.N.W.	2	...	...	...	...	2 40 Light rain.
	Noon	"		29.78	44	95	-273	...	St.	10	om	N.	2	...	...	...	...	4 0 Very thick mist.
	4	"		29.77	42.5	95	-260	...	St.	10	om	N.N.W.	3	N.N.W.	1	...	...	4 50 Wind variable.
15	8	"		29.72	44	90	-260	...	Nb., St.	10	omd	N.N.W.	5	N.N.W.	1	...	...	8 0 Squally and gusty.
	Midnight	"		29.68	41.3	96	-248	...	Nb.	10	md	N.N.W.	5	N.N.W.	1	...	...	Noon. Heavy mist over hills. Wind gusty.
	4	"		29.58	42.8	89	-244	...	Nb.	10	md	N.N.W.	6	N.N.W.	2	...	...	4 0 Misty rain.
	8	"		29.52	42.8	93	-257	...	Nb.	10	md	N.N.W.	4	N.N.W.	2	...	...	8 0 Light rain set in. Thick mist at intervals.
	Noon	"		29.47	42.5	98	-267	...	Nb.	10	mod	N. by W.	4	N. by W.	1	...	...	Wind varying in force.
	4	"		29.41	43	98	-271	...	Nb.	10	mod	N.N.W.	3	...	...	...	...	4 0 Steady light rain throughout.
16	8	"		29.31	43	96	-260	...	Nb.	10	mod	N.W. by N.	4	N.W. by N.	1	...	...	7 0 Wind decreasing.
	Midnight	"		29.21	43	91	-253	...	Nb.	10	ocm	N.W. by N.	5	N.W. by N.	1	...	...	8 0 Thick mist.
	4	"		29.14	37.8	98	-223	...	Nb.	10	mor	S.W. by W.	5	S.W.	1	...	...	6 0 Mist clearing a little. Land becoming visible.
	8	"		29.22	37.8	74	-166	...	St., Cu.-Nb.	8	bcp	S.S.W.	4	S.	1	S.	2	8 0 Mist lifting a little at times. Continuous drizzling rain.
	Noon	"		29.30	36.5	80	-173	...	Cu., Cu.-Nb.	5	bcp	S.W. by S.	4	S.S.W.	1	S.	2	11 0 Mist clearing off.
	4	"		29.32	37	75	-164	...	Cu., Cu.-Nb.	5	bc	S.W. by W.	3	...	...	S.	2	11 40 Rain ceased.
1912. June 12	8	"		29.33	37.8	74	-166	...	St.	1	b	W.S.W.	2	...	...	S.	1	0 15 Rain and mist set in again.
	Midnight	"		29.27	37	78	-171	...	Cu.	1	b	N. by W.	1	...	...	S.	1	2 30 Heavy rain.
		"																3 40 Wind shifted into S.W.
		"																



Table X.—FIRST SUBANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. June 17	4	At anchor, Macquarie Island.		29-22	39.5	92	.221	...	Nb.	10	o m d	N.	3	...	...	...	...	Midnight. Lights of aurora visible to S.
	8	"	"	29-14	41	82	.211	...	Nb., St.	10	o	N.E.	3	N.E.	2	N.E.	1	2 0 Light breeze from N.
	Noon	"	"	29-05	40.5	88	.222	...	Nb.	10	o r	N.E. by E.	4	N.E. by E.	3	N.E.	3	3 0 Drizzling rain set in.
	4	"	"	29-02	40.1	95	.235	...	Nb.	10	o r	N.N.E.	1	...	...	N.E.	3	5 0 Wind backing into N.E.
	8	"	"	29-06	40.4	96	.241	...	Nb.	10	o m r	E.	3	Confused	1	E.	3	9 0 Sea and swell increasing from N.E. by E. Rain set in.
	Midnight	"	"	29-21	41.5	95	.250	...	Nb.	10	o m r	E.S.E.	3	E.	1	E.	3	Noon. Continuous rain.
18	4	"	"	29-46	39.4	96	.232	...	Nb.	10	o m r	S.E. by S.	5	S.E.	2	E.	4	2 0 Wind dropping. Mist settling over hills.
	8	"	"	29-70	39	81	.193	Cl.	St., Cu., Cu.-Nb.	3	b c	S.S.E.	4	S.S.E.	3	S.E.	4	3 30 Wind backing and dying away.
	Noon	"	"	29-80	34.6	84	.167	...	Cu.-Nb.	10	c	S.S.E.	5	S.S.E.	4	S.S.E.	4	5 30 Light airs from E. Rain taking off.
	4	"	"	29-97	34	75	.147	...	St.	10	o c	S.	4	S.S.E.	2	E.S.E.	3	7 20 Wind freshening slightly from E. Light rain again.
	8	"	"	30-04	34.7	73	.147	...	St.	2	b c	S.S.W.	2	...	...	E.S.E.	3	10 0 Wind backing to E.S.E.
	Midnight	"	"	30-03	35.2	80	.163	...	St.	4	b c	W.S.W.	3	...	...	S.	1	2 45 Wind freshening. Sea and swell making.
19	4	"	"	29-94	35	85	.172	...	St., Nb.	10	o c	W.N.W.	6	W.	1	S.	1	4 0 Continuous rain and mist. Wind and sea increasing.
	8	"	"	29-85	36	84	.177	...	Cu.-Nb.	10	c p	W.N.W.	7	N.W.	2	...	...	5 0 Rain clearing off.
	Noon	"	"	29-72	38.8	85	.203	Cl.	Cu., Cu.-Nb.	8	b c p	N.W.	7	N.W.	3	...	...	7 15 Sky clearing to E.
	4	"	"	29-62	39.8	93	.227	...	Nb.	10	o r	W.N.W.	4	...	...	...	...	8 0 Heavy clouds passing away over land to W. Heavy bank of St. on N.E. horizon.
	8	"	"	29-63	38	81	.185	...	Nb.	8	b c r	W.	4	...	...	...	...	8 45 Sky overcast again from S.E. Heavy mist collecting on hills.
	Midnight	"	"	29-74	36.5	85	.183	...	St., Nb.	5	b c p	S.	5	S.	1	S.	1	11 0 Light snow squall.
20	4	"	"	29-81	35.5	75	.155	...	Nb., St.	10	o c	S.W. by S.	3	...	...	S.	1	11 30 Mist clearing off.
	8	"	"	29-85	35	70	.143	...	Cu., St., Cu.-Nb.	10	o c	W.N.W.	2	...	...	...	...	1 0 Wind moderating.
	Noon	"	"	29-68	37.5	81	.181	...	Nb.	10	o m d	W.N.W.	6	W.N.W.	4	W.N.W.	3	2 0 Sea moderating and sky clearing in places.
	4	"	"	29-52	40	82	.202	...	Cu.-Nb.	10	o c p	W. by S.	7	W. by S.	4	W.N.W.	2	3 20 Wind shifted into S.
	8	"	"	29-50	38	85	.193	...	Cu.-Nb.	5	b c p	W.	7	W.	4	W.	3	4 30 Wind S.S.W.; gentle breeze.
	Midnight	"	"	29-45	37	81	.177	...	St.	2	b c q p	W.N.W.	6	W.N.W.	2	...	...	3 10 Sky overcast.

Midnight. Lights of aurora visible to S.  
 2 0 Light breeze from N.  
 3 0 Drizzling rain set in.  
 5 0 Wind backing into N.E.  
 9 0 Sea and swell increasing from N.E. by E. Rain set in.  
 Noon. Continuous rain.  
 2 0 Wind dropping. Mist settling over hills.  
 3 30 Wind backing and dying away.  
 5 30 Light airs from E. Rain taking off.  
 7 20 Wind freshening slightly from E. Light rain again.  
 10 0 Wind backing to E.S.E.  
 2 45 Wind freshening. Sea and swell making.  
 4 0 Continuous rain and mist. Wind and sea increasing.  
 5 0 Rain clearing off.  
 6 0 Wind and sea moderating.  
 7 15 Sky clearing to E.  
 8 0 Heavy clouds passing away over land to W. Heavy bank of St. on N.E. horizon.  
 8 45 Sky overcast again from S.E. Heavy mist collecting on hills.  
 11 0 Light snow squall.  
 11 30 Mist clearing off.  
 1 0 Wind moderating.  
 2 0 Sea moderating and sky clearing in places.  
 3 20 Wind shifted into S.  
 4 30 Wind S.S.W.; gentle breeze.  
 3 10 Sky overcast.  
 4 55 Light rain and snow.  
 8 0 Heavy passing clouds. Sky clearing in places at intervals. Passing snow squalls.  
 8 30 Weighed anchor.  
 Noon. Frequent snow and rain squalls.  
 2 0 Continuous rain set in, wind dropping.  
 5 0 Rain taking off. Wind variable until 10-40, then moderate S.  
 Midnight. Frequent passing showers.  
 8 0 Weighed anchor. Wind backing throughout.  
 10 0 Wind freshening.  
 Noon. Drizzling rain set in.  
 1 0 Wind freshening.  
 4 30 Sky clearing, passing showers.  
 8 0 Frequent hail and snow squalls.  
 Midnight. Frequent rain, hail and snow squalls.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. June 21	4	At anchor, Mac- quarie Island.		29.43	38.3	65	-148	...	Cu.-Nb.	10	b c p q	W.S.W.	7	W.S.W.	2	...	...	4 30-5 40 Heavy rain and snow.
	8	"	"	29.41	38	65	-147	...	Cu., Cu.-Nb.	6	b c p q	S.W.	5	S.W.	2	S.S.W.	1	8 0 Occasional snow.
	Noon	"	"	29.44	37.2	79	-174	...	Cu.-Nb.	10	o c p q	S. by W.	5	S.	2	S.	1	Noon. Frequent snow squalls.
	4	"	"	29.52	35	70	-143	...	Nb., Cu.-Nb.	7	b c p	S.	5	S.	2	S.	1	4 0 Occasional snow squalls.
	8	"	"	29.67	34	70	-137	...	Nb., St.	6	b c p	S.W.	4	S.	2	S.	1	8 0 Frequent snow squalls.
	Midnight	"	"	29.81	33.8	63	-121	...	Cu.	2	b c	S.W.	4	S.S.W.	1	S.	2	10-11-30 Very squally, heavy hail and light snow.
22	4	"	"	29.92	36	57	-122	...	Cu.-Nb.	9	o c	S.W.	5	S.W.	1	S. by W.	1	Heavy hail and snow squalls frequently up till 2:20.
	8	Departed from Macquarie Island.		30.01	36	70	-148	...	St.	10	o c	W. by S.	3	...	...	S. by W.	1	3.45 Wind moderating.
	Noon	...	...	29.97	39	77	-182	...	St.	10	o c	N.W. by W.	6	N.W. by W.	4	N.W.	4	4 10 Wind increasing again.
	4	...	...	29.99	41.8	86	-228	...	Nb., St.	10	o	N.W.	7	N.W.	5	N.W.	6	8 30 Proceeded N. towards Judge and Clerk Rocks.
	8	...	...	29.99	43.5	87	-247	...	Nb., St.	8	b c	W.N.W.	6	N.W.	4	N.W. by W.	5	11 30 Judge and Clerk abeam N. 76° W. (T.), ½ mile.
	Midnight	...	...	30.01	41.2	98	-254	...	Nb.	8	b c	W.N.W.	5	W.N.W.	4	W.N.W.	5	4 0 Heavily overcast. Threatening appearance. Sea increasing.
23	4	...	...	30.01	43	100	-277	...	Nb., St.	6	b c w q p	N.W. by W.	6	N.W. by W.	3	W.N.W.	4	4 30 Light rain squalls.
	8	...	...	30.04	43	91	-253	...	Nb., Cu.-Nb.	10	o	W.N.W.	6	N.W. by W.	4	W.N.W.	5	6 0 Weather clearing.
	Noon	52 41	162 38	30.02	45.2	82	-248	...	Cu.-St.	10	o c	N.W. by W.	7	N.W. by W.	5	W.N.W.	6	2 30 Sky clearing from W.
	4	...	...	30.00	45.2	90	-272	...	Cu.-Nb., Nb.	8	b c	N.W.	8	N.W.	6	N.W. by W.	6	3 30 Heavy banks of Nb. working up from W.
	8	...	...	29.97	44	96	-282	...	St., Nb.	10	o c p	N.W. by W.	7	N.W.	5	N.W. by W.	5	8 0 Passing rain squalls.
	Midnight	...	...	29.92	45.8	95	-293	...	Nb.	10	o c	W.N.W.	7	N.W. by W.	5	W.N.W.	6	
24	4	...	...	29.89	46	100	-310	...	Cu.-Nb., St.	8	b c p q	W.N.W.	7	N.W. by W.	6	W.N.W.	6	4 0 Passing rain squalls.
	8	...	...	29.94	42.7	89	-246	Cl.	Cu.	4	b c	W.	5	W.	4	W.	6	5 0 Sky clearing; wind moderating and veering.
	Noon	51 6	165 34	29.94	44	69	-194	...	Cu., Cu.-St.	7	b c	W. by N.	6	W. by N.	5	W.N.W.	5	9 30 Observed Auckland Is. N. 45° E. (T.).
	4	At anchor, Auck- land Islands.		29.90	45	68	-204	...	Cu., Cu.-Nb.	8	b c	W.	5	W.	3	...	...	2 45 Entered Carnby Harbour.
	8	"	"	29.88	46.5	69	-220	...	Cu.-Nb.	8	b c p	W. by S.	5	W. by N.	2	...	...	8 0 Occasional showers.
	Midnight	"	"	29.85	47	77	-248	...	Cu.-Nb.	10	c p q	W. by N.	5	W.	1	...	...	
25	4	"	"	29.84	46	77	-237	...	Nb.	10	o c p q	W. by N.	4	W.	1	...	...	4 0 Frequent drizzling rain squalls.
	8	"	"	29.83	46	77	-237	...	Cu., Nb.	10	o c p q	W.	6	W.	2	...	...	4 15 Continuous drizzling rain.
	Noon	"	"	29.83	46.7	79	-252	...	Cu., Nb.	8	b c p q	W.N.W.	6	W.N.W.	2	...	...	8 0 Drizzling rain at times, very squally.
	4	"	"	29.81	45	84	-250	...	Cu., Cu.-Nb.	7	b c p q	W.N.W.	7	W.N.W.	2	...	...	Noon. Very gusty. Frequent rain squalls.
	8	"	"	29.87	44.5	68	-199	...	Cu.-Nb.	8	b c p	W. by N.	7	W.	2	...	...	
	Midnight	"	"	29.89	45	65	-193	...	Cu.-Nb.	10	c q d	W. by N.	7	W. by N.	2	...	...	Midnight. Squally. Light drizzling rain.

METEOROLOGY.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. June 26	4	At anchor, Auckland Island.		29-90	44	77	-224	...	Nb.	10	o q d	W. by N.	6	W. by N.	1	...	4 0 Squally throughout. Frequent drizzling rain.	
	8	"	"	29-91	43-8	78	-225	...	Nb.	10	o q p	N.W. by W.	4	N.W. by W.	1	...	6 0 Wind moderating and backing.	
	Noon	"	"	29-90	46-1	78	-243	...	Nb.	10	o q p m	N.W. by W.	4	N.W. by W.	1	...	8 0 Occasional drizzling rain squalls.	
	4	"	"	29-87	44	92	-264	...	Nb.	10	o q d	W. by N.	4	N.W.	1	...	4 0 Continuous drizzling rain.	
	8	"	"	29-89	44	92	-264	...	Nb.	10	o m d	N.W.	1	...	...	...	5 0 Wind dropping.	
	Midnight	"	"	29-80	44	92	-264	...	Cu., Nb.	10	o m d c	N.W.	4	N.W.	1	...	8 0 Continuous drizzling rain.	
27	4	"	"	29-71	43-5	87	-247	...	Nb.	10	o m d	N.N.W.	5	N.W.	2	...	10 0 Wind freshening.	
	8	"	"	29-66	43-3	89	-249	...	Nb.	10	o m q d	N.W.	5	N.W.	2	...	Midnight. Continuous drizzling rain and mist.	
	Noon	"	"	29-59	45	88	-263	...	Nb.	10	o m d	W.S.W.	4	W.S.W.	1	...	Stars showing at times overhead.	
	4	"	"	29-65	42	66	-176	...	Cu.-St.	10	c	S. by W.	4	S. by W.	1	...	4 0 Continuous mist and drizzling rain.	
	8	"	"	29-76	41	57	-146	...	Cu.-Nb.	10	o c	S.	2	...	...	...	4 30 Rain taking off a little.	
	Midnight	"	"	29-80	41	65	-167	...	Cu.-Nb.	8	b c	S.S.W.	3	S.S.W.	1	...	Noon. Continuous drizzling rain. Wind veering gradually throughout.	
28	4	"	"	29-83	39-5	66	-159	...	Cu.-Nb.	9	o c	W. by S.	1	...	...	...	12 30 Wind S.W.	
	8	"	"	29-77	40	65	-159	...	Cu.-St., Cu.-Nb.	10	o c	N.W.	1	...	...	...	2 30 Wind S., rain and mist clearing off.	
	Noon	"	"	29-58	41-2	70	-177	...	Cu.-Nb., Cu.-St.	10	o c p q	N.N.W.	5	N.W.	2	...	11 30 Wind backed into S.S.W.	
	4	"	"	29-38	40	87	-214	...	Cu.-Nb.	10	o c q r	N.W.	6	N.W.	2	...	4 0 Variable light airs throughout watch.	
	8	"	"	29-31	40-5	61	-154	...	Cu.	8	b c p q	W.	3	...	...	...	4 6 Calm.	
	Midnight	"	"	29-26	39	79	-188	...	Cu.-Nb.	9	b c p q	S.W. by W.	4	S.W.	2	...	9 0 Wind freshening, squally, with passing drizzling rain.	
29	4	"	"	29-38	39-8	66	-161	...	Cu., Cu.-Nb.	9	b c p q	S.W. by S.	7	S.W.	3	...	Noon. Frequent rain and squally.	
	8	"	"	29-64	38-5	59	-136	...	Cu.-Nb.	9	b c p q	S.S.W.	7	S.W.	3	...	4 0 Rain and squally throughout. Heavy Cu. to St.	
	Noon	"	"	29-79	38-7	57	-134	...	Cu.-Nb.	8	b c p q	S.W. by W.	7	S.W. by W.	6	S. by W. 6	8 0 Very squally. Frequent rain and hail.	
	4	"	"	29-90	39-8	57	-144	...	Cu., Cu.-Nb.	7	b c q	S.W.	5	S.W.	1	...	Midnight. Very gusty and squally. Frequent hail and rain.	
	8	"	"	29-95	43	75	-207	...	Cu.	6	b c p	S.W.	4	S.W.	1	...	1 30 Wind freshening from S.W.	
	Midnight	"	"	29-95	44-5	70	-210	...	Cu.	5	b c q	W.S.W.	6	W.S.W.	2	...	4 0 Very fierce squalls, hail less frequent.	
30	4	"	"	30-01	45-4	78	-236	...	Cu.-Nb.	10	o c	W.S.W.	5	W.S.W.	1	...	8 0 Frequent hail and snow squalls.	
	8	"	"	30-10	44-5	85	-248	...	St., Nb.	8	b c m	W.S.W.	3	...	...	...	8 0 Frequent showers.	
	Noon	"	"	30-14	45	81	-241	...	Cu., Nb.	8	b c p	Var.	1	...	...	...	Midnight. Occasional light rain.	
	4	"	"	30-16	44-4	79	-231	...	Cl. Cu.	4	b c	W.	5	W.	1	...	0 10 Sky overcast.	
	8	"	"	30-22	43-8	78	-225	...	Cu., Cu.-Nb.	5	b c	W.	3	...	...	...	1 20 Wind dropping.	
	Midnight	"	"	30-25	45	76	-227	...	Cu., Cu.-Nb.	8	b c p q	W.	4	W.	1	...	8 0 Light misty rain.	
																	10 0 Misty with light rain; squally.	
																	Midnight. Squally with frequent light rain.	

METEOROLOGY.

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. July 1	4	At anchor, Auckland Island.		30-16	46	77				5	b c p q	W.	5	W.	2		4 0	Squalls increasing lightly in force.
	8	"		30-12	47	77				7	b c p q	W.	6	W.	2		4 30	Wind freshening.
	Noon	"		30-10	47.7	80				8	b c p q	W.S.W.	6	W.S.W.	2			
	4	"		30-12	43.9	81				8	b c p q	S.W. by W.	4				2 0	Wind moderating. Squalls less frequent.
	8	"		30-17	40.5	69				3	b c	W.S.W.	3					
	Midnight	"		30-16	41	65				8	b c q	W.S.W.	4	W.S.W.	1		5 0	Wind dying away.
2	4	"		30-12	41.5	70				8	b c	W.S.W.	3					
	8	"		30-11	42	74				5	b c q	W.	3					
	Noon	"		30-11	45.3	70				4	b c	W.S.W.	3					
	4	"		30-10	44.8	68				3	b c	W.	2					
	8	"		30-12	44	69				1	b	W.	2					
	Midnight	"		30-12	43	75				0	b	Calm	0					
3	4	"		30-13	42	78				1	b	W.S.W.	1				5 45	Light N. airs.
	8	"		30-14	41.8	82				1	b	W.	1				6 0	Variable light airs.
	Noon	"		30-14	46.4	89				10	o m	W.	1				7 45	W. light airs.
	4	"		30-08	46.1	92				8	b c m	N.W.	2				11 20	Light misty rain.
	8	"		30-02	47	92				10	o c m	N.W.	2					Light misty rain showers up to 3 p.m.
	Midnight	"		29-94	48	95				10	o m r	N.	3				4 0	Misty over land.
4	4	"		29-90	48.4	97				10	o m r	N.W.	5	N.W.	1		8 0	Occasional drizzling rain.
	8	"		29-88	48.3	95				10	o m p	N.N.W.	3				8 15	Continuous light rain.
	Noon	"		29-81	48.8	94				10	o m r	N.	4	N.	1		10 30	Wind gusty and squally.
	4	"		29-68	49	87				10	o m r	N.	5	N.	1		Midnight	Continuous rain.
	8	"		29-56	49	93				10	o m r q	N. by E.	4	N. by E.	1	Confused	4 0	Continuous rain throughout.
	Midnight	"		29-49	48.5	96				10	o c	W.N.W.	3			Confused	4 30	Rain taking off.
5	4	"		29-52	47	86				10	o c	N.W. by W.	3				8 0	Gusty wind. Mist over land.
	8	"		29-53	46	92				10	o c	W.N.W.	3				8 30	Frequent misty rain.
	Noon	"		29-59	45.2	81			Cl.	5	b c	W. by S.	3				8 30	Continuous rain set in.
	4	"		29-60	42.5	77			Cl.	4	b c	W.	2				Noon	Continuous steady rain since 8-30. Gusty wind.
	8	"		29-54	42.8	68				4	b c	W.	4				8 30	Continuous steady rain since 8-30. Gusty wind.
	Midnight	"		29-52	42.6	78				9	b c p	W.	4	W.	1			Rain taking off.
																	8 0	Continuous rain throughout.
																	8 15	Wind gusty and squally.
																	10 0	Wind moderate.
																	11 0	Wind light from N.W. Rain taking off.
																	1 0	Wind freshening from W. with light rain.
																	2 0	Rain cleared off.
																	8-9 30 a.m.	Light showers.
																	1 30-2 30	Misty rain and overcast.
																	9 30	Sky overcast. Occasional drizzling rain.
																	Midnight	Slightly squally.
																	1 30	Wind steadily increasing.

METEOROLOGY

Table X.—FIRST SUBANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. July 6	4	Departed from Auckland Isld.		29-49	43-4	80	-225	...	Cu.-Nb.	7	bcpq	W.	5	W.	1	...	4 0 Squally. Passing showers throughout.	
	8	...		29-50	45	80	-239	...	Cu.-Nb.	8	bcp	W.S.W.	4	W.S.W.	1	Confused	8 0 Occasional misty rain.	
	Noon	50 35	166 25	29-46	46-2	83	-258	...	Cu., Nb., Cu.-Nb.	9	bcpq	W.N.W.	5	W.N.W.	3	N.W.	10 0 Proceeded to sea. Occasional light rain squalls	
	4	...		29-43	47	77	-248	...	Nb., Cu.-Nb.	9	oc	N.W.	7	N.W.	4	N.W.	1 0 Wind steadily increasing.	
	8	...		29-42	47	83	-267	...	Cu.-Nb.	10	ocq	W.	7	W.	5	W.	8 0 Squally and clear. Ship rolling heavily.	
	Midnight	...		29-47	43	97	-273	...	Nb.	10	ocqr	W.	6	W.	4	W.	10 50 Heavy rain.	
7	4	...		29-58	44	69	-200	...	Cu.-Nb.	9	ocq	W. by S.	5	W.	3	W.	1 0 Rain taking off.	
	8	...		29-73	43-7	71	-203	...	Cu.-Nb.	9	oc	S.W.	3	S.W.	1	S.W.	4 0 Occasional blue sky.	
	Noon	49 17	167 36	29-82	45	76	-227	...	Nb., St.	10	oc	W.N.W.	3	W.N.W.	2	Confused	8 0 Wind veering throughout.	
	4	...		29-75	45-9	93	-284	...	Nb.	10	ocr	N.E. by N.	3	N.E.	2	W.S.W.	10 0 Wind backing.	
	8	...		29-79	49	85	-296	...	Nb., St.	4	bc	N.N.W.	5	N.N.W.	3	W.	1 0 Wind backing. Light rain set in.	
	Midnight	...		29-81	47	92	-297	...	Nb., St.	4	bc	N.N.E.	4	N.N.E.	2	W.	2 30 Wind N.E. by N.	
8	4	...		29-76	47-2	91	-294	...	Cl., Cl.-Cu.	7	bcw	N.E. by N.	3	N.E.	1	W.	4 0 Continuous light rain, heavier at times.	
	8	...		29-76	47	90	-289	...	St.	3	bc	N.N.E.	4	N.N.E.	2	Confused	4 0 Rain clearing off and clouds breaking to N.N.W.	
	Noon	48 0	169 18	29-75	48	85	-284	...	Cl.-Cu., Cl., Cl.-Cu.	5	bc	N.N.E.	4	N.N.E.	3	N.N.E.	4 15 Wind veering into N.W. again.	
	4	...		29-69	47-4	89	-291	...	St.	8	bc	N.N.E.	5	N.N.E.	3	N.E.	8 30-9 30 Frequent heavy showers.	
	8	...		29-63	47-1	91	-296	...	...	0	b	N.E. by N.	4	N.E. by N.	3	N.E. by N.		
	Midnight	...		29-63	47	92	-297	...	...	0	b	N.E. by N.	5	N.E. by N.	3	N.E. by N.		
9	4	...		29-62	47	92	-297	...	Cl.	4	bc	N.E. by N.	4	N.E. by N.	3	N.E.		
	8	...		29-63	46-2	96	-300	...	Cu.-St.	10	oc	N.E. by N.	4	N.E. by N.	2	N.E.	8 0 Wind moderating.	
	Noon	47 16	169 52	29-59	45-8	97	-294	...	Cl.-Cu.	8	bc	N.E.	2	N.E.	1	N.E.	Noon. Wind moderating.	
	4	...		29-54	45-5	96	-292	...	Cl.	5	bc	E.N.E.	2	E.N.E.	1	E.N.E.	3 20 Thick mist.	
	8	...		29-55	46-7	94	-301	...	Cl.	2	bcw	N.E. by N.	2	...	...	N.E.	3 55 Ran out of mist.	
	Midnight	...		29-58	47	92	-297	...	Cl.	2	bcw	N.E.	1	...	...	N.E.	8 0 Light dew.	
10	4	...		29-59	47	92	-297	...	Cl.-Cu.	5	bcw	W.	1	...	...	E.N.E.	11 18 Nugget Pt. abeam N. 63° W. (T). 22 miles.	
	8	...		29-65	46-5	88	-279	...	Cl.	5	bc	S.W.	2	...	...	E.N.E.	Midnight. Heavy dew.	
	Noon	45 30	171 2	29-65	47	86	-277	...	St., Cu.-St.	9	bc	S.	4	S.	2	E.N.E.	1 45 Wind shifted into W.S.W. light.	
	4	bearings. bearings.		29-66	45-5	94	-272	...	Nb.	10	or	S.	6	S.	3	Confused	3 0 Heavy bank of St. and Nb. clouds low on E. horizon.	
	8	...		29-65	47-5	96	-315	...	Nb.	10	or	S.S.E.	5	S.S.E.	4	S.	4 0 Very heavy dew.	
	Midnight	...		29-63	49	97	-335	...	Nb.	10	or	S.E.	5	S.S.E.	3	S.S.E.	9 30 Overcast from E.	
11	4	...		29-59	49-3	98	-343	...	Nb.	10	or	S.E.	5	S.E.	3	E.S.E.	1 30 Wind freshening.	
	8	...		29-66	49-5	96	-340	...	Nb.	10	mod	E. by S.	5	E. by S.	3	E.S.E.	1 45 Spitting rain.	
		...															3 0 Steady rain set in.	
		...															2 45 Heavy rain taking off. Sea increasing.	
		...															4 0 Light rain.	
		...															Noon. At wharf, Lyttleton.	

Table XI.—SECOND SUBANTARCTIC VOYAGE.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. November	2																	Noon. Left wharf at Williamstown.
	Noon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 0 Wind veered into W. and freshening. Heavy rain.
	4	...	...	29-67	60	93	-480	...	Nb.	10	poq	S. by W.	4	S.W.	2	...	...	3 0 Rain clearing off.
	8	...	...	29-76	55	80	-348	...	Nb.	10	ocq	S.W.	5	S.W.	4	S.W.	6	3 55 Wind veered into S. Squally with frequent rain.
	Midnight	...	...	29-78	54	67	-281	...	Nb.	10	ocq	S.	5	S.	3	S.S.W.	5	8 10 Heavy swell and choppy sea. Threatening rain.
	3																	Midnight. C. Schank abeam, distance 4 miles.
	4	...	...	...	...	...	...	...	Nb.	10	oq	S. by W.	5	S. by W.	2	S. by E.	5	4 0 Overcast with occasional misty rain.
	8	...	...	29-83	52	63	-244	...	Cu.-Nb.	9	oc	S. by W.	4	S. by W.	1	S. by W.	4	9 0 Sky clearing. Wind steady throughout.
	Noon	38 59	145 57	29-89	52	60	-231	...	Cu.	2	bc	S. by W.	4	S. by W.	1	S. by W.	3	
	4	...	...	29-89	54	55	-230	...	Cu., St.	2	bc	S.W. by S.	4	S.W. by S.	2	S.W.	3	
	8	...	...	29-92	53	64	-255	...	Cu., St.	2	bc	Calm	...	...	...	S.W.	3	7 30 Wind dropped.
	Midnight	...	...	29-90	53	60	-243	...	Nb., St.	10	oc	N.	1	...	...	S.W.	1	9 0 Sky overcast.
	4																	11 55 Light breeze from N. Overcast throughout.
	4	...	...	29-87	53	61	-246	...	Nb., St.	10	oc	N.N.E.	1	...	...	S.	1	4 0 Fine and overcast throughout.
	8	...	...	29-86	55.5	66	-204	Cl.	Cu.	4	bc	N.E. by N.	1	...	...	S.	1	5 30 Sky clearing with sunrise.
	Noon	38 12	148 45	29-82	60.2	69	-357	Cl.	St., Cu.	2	bc	N.	2	...	...	Confused	1	12 30 Wind backed into E.
	4	...	...	29-76	61	66	-353	Cl.-St.	St., Cu.	8	bc	E. by S.	2	E.	1	E.	1	2 30 Overcast with Cl.-St.
	8	...	...	29-75	59	76	-379	...	Cu.	1	b	N.E. by E.	3	...	...	E.	2	8 0 Fine throughout. Swell increasing slightly.
	Midnight	...	...	28-74	58	88	-422	Cl.	Nb., Cu.	3	bcl	N.E.	1	...	...	E.	2	Midnight. Heavy clouds low round E. horizon, with frequent lightning.
	5																	12 15 Wind veered into N.W., light.
	4	...	...	29-73	56	75	-334	...	St.	1	b	S.W.	4	S.W.	1	S.	2	1 25 Wind suddenly veered into S.W. (fresh), clearing clouds away on E. horizon.
	8	...	...	29-79	57	69	-321	...	Cu.	3	bc	S. by W.	4	S.	2	S.	3	4 0 Fine and clear, occasional lightning.
	Noon	36 13	150 13	29-79	59	68	-337	Cl.-St.	Cu.	8	bc	S.E.	3	S.E.	2	S.E.	3	9 40 Wind veered into S.E.
	4	...	...	29-76	63.7	58	-348	...	Cu.	5	bc	E.N.E.	3	E.N.E.	1	S.S.E.	2	11 40 Wind gradually veering throughout watch. Alto clouds passing over against wind.
	8	...	...	29-86	62.9	47	-269	...	Cu.	2	bc	W. by N.	5	W. by N.	2	S.	1	4 0 Heavy clouds to S.E.
	Midnight	...	...	29-96	59	59	-295	...	...	0	b	W. by N.	5	W. by N.	3	S.	1	4 8 Wind very unsteady throughout watch.
																		8 0 Freshening breeze. Lightning to E.
																		11 50 Wind backing slightly.
																		1 30 Wind moderating.

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
														Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. November																		
6	4	...	...	29.98	59.5	80	.407	...	...	0	b	W. by S.	3	...	...	...	...	6 15 Entered harbour (Pt. Kembla) and made fast to buoy.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Noon	Pt. Kembla		...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6 50 p.m. Cast off.
	8	...	...	30.05	62.9	67	.385	...	Cu.-Nb.	4	b c	S.E.	3	...	...	S.S.E.	2	7 45 Cleared Heads and set course.
	Midnight	...	...	30.08	61	71	.382	...	Cu.	1	b c	S.E.	3	S.E.	1	S.S.E.	3	
7	4	...	...	30.06	61	71	.382	...	Cu., Cu.-Nb.	4	b c	E.N.E.	2	...	...	S.S.E.	4	
	8	...	...	30.06	60	85	.440	...	Cu., Cu.-Nb.	6	b c	S.W.	4	...	...	S.S.E.	4	10 30 Wind veered into S.E. by S. with heavy rain squall.
	Noon	36 5	150 35	30.06	61	78	.418	...	Cu., Cu.-Nb.	8	b c p	S.E. by S.	3	S.E.	1	S.S.E.	3	
	4	...	...	30.03	60.5	76	.403	Cl.-St., Cl.	Cu.	7	b c	E. by S.	4	E. by S.	2	S.E.	2	8 0 Heavily overcast.
	8	...	...	30.07	59	65	.322	...	Nb.	10	o c	S.S.E.	4	S.S.E.	2	S.E. by S.	2	8 30 Rain set in.
	Midnight	...	...	30.12	56	75	.334	...	Nb.	10	o c	S.W.	3	S.	1	S.S.E.	1	10 30 Wind backed into S.W. and rain taking off.
8	4	...	...	30.07	56	75	.334	...	Nb., St.	10	o c	S.W. by W.	2	...	...	S.	1	Midnight. Heavily overcast.
	8	...	...	30.08	56.5	72	.328	...	Cu.-Nb.	10	o c	S.W. by W.	3	S.W. by W.	1	S.W.	3	4 0 Better weather conditions; clouds breaking.
	Noon	38 13	150 2	30.11	56.8	64	.297	...	Fr.-Cu., St.	9	b c	S.W. by S.	4	S.W. by S.	3	S.W.	3	6 0 Swell making.
	4	...	...	30.09	56.2	65	.291	...	Cu.	5	b c	S.W. by S.	4	S.W. by S.	3	S.W. by S.	4	9 0 Clouds breaking.
	8	...	...	30.14	55	80	.348	...	Cu.-Nb.	4	b c	S.E. by S.	4	S.S.E.	1	Confused	3	4 0 Ship rolling to S.W. swell.
	Midnight	...	...	30.19	55	69	.294	...	St.-Cu.	2	b c	S.E.	3	S.E.	1	S. by W.	3	5 20 Wind veered into S.E.
9	4	...	...	30.17	53.8	65	.271	...	Cu.	1	b	E.S.E.	3	...	...	S.S.W.	2	
	8	...	...	30.15	56	57	.254	...	Cu.	1	b	E.	3	E.S.E.	1	S.E.	2	4 30 Wind veering.
	Noon	40 32	149 13	30.14	55.5	60	.267	Cl.	...	3	b c	E. by N.	3	E. by N.	1	S.S.E.	2	
	4	...	...	30.01	55	72	.307	Cl., Cu.-St.	St.	5	b c	N.E.	4	N.E.	2	S.S.E.	2	4 0 Long S.S.E. swell still holding.
	8	...	...	29.97	55.5	71	.314	Cl.-St.	St.	5	b c	N. by E.	5	N. by E.	3	S.S.E.	2	8 0 Wind freshening.
	Midnight	...	...	29.88	56	81	.362	...	Cu.-Nb.	9	o c	N. by E.	6	N. by E.	5	N.N.E.	4	10 20 Sky overcast.
10	4	...	...	29.64	55	87	.375	...	Nb., St.	10	o c	N.E. by N.	7	N.E. by N.	5	N.E. by N.	6	
	8	...	...	29.58	56	93	.419	...	Nb.	10	o	N.E.	7	N.E.	6	N.E.	6	7 30 Altered course to S. 77° W. to make land. Ship rolling violently.
	Noon	43 13	147 40	29.47	60	85	.440	...	Nb.	10	o m r	N.	3	N.	1	N.	1	
	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Berthed at Hobart.
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Midnight	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. November 12	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	Noon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
	4	Departed from Hobart.		...	...	...	...	...	...	...	...	...	...	...	...	...		
	8	...	...	29.94	57.5	72	.342	...	Cu.-Nb.	9	oc	W.	2	...	...	S.	2	8 0 Dark clouds on S. horizon throughout watch. 11 0 Out from lee of land, considerable S.W. swell coming up.
	Midnight	...	...	29.93	54	80	.334	...	Cu.-Nb.	8	bc	W.S.W.	3	...	...	S.W.	4	Midnight. Blue sky at intervals.
13	4	...	...	29.93	53	80	.320	...	Nb., St.	5	bc	S.W. by W.	4	S.W.	1	S.W.	4	4 0 Very clear. Sky overcast at times.
	8	...	...	29.96	53	86	.347	Cl.-St.	St., Cu.	7	bc	W.S.W.	3	...	...	W.S.W.	3	8 0 Fine with heavy clouds all round horizon. 11 30 Light airs from E.
	Noon	44 21	147 35	29.90	56.1	81	.363	Cl., Cl.-Cu.	Cu.-St.	5	bc	E.	1	...	...	W.S.W.	4	
	4	...	...	29.84	55	84	.362	Cl.-St.	St.	9	c	N.E. by N.	5	N.E.	3	N.E.	2	4 0 Wind freshening throughout. 4 45 Light rain squall.
	8	...	...	29.76	55.5	89	.397	Cl.-St.	St.	5	bc	N.E. by N.	4	N.E.	1	N.E.	2	9 0 Wind falling to light. 10 30 Light wind from N. 11 10 Light airs from N.W.
	Midnight	...	...	29.76	58	88	.422	Cl.-St.	St.	10	ocm	N.W.	1	N.N.E.	1	N.N.E.	2	Midnight. Dull and rainy appearance of weather.
14	4	...	...	29.76	56.8	88	.408	...	Nb.	10	omr	W.N.W.	3	W.N.W.	1	W.N.W.	1	3 0 Heavily overcast. 3 30 Rain set in.
	8	...	...	29.77	53.5	96	.395	...	Nb.	10	omr	N.W.	3	...	...	W.N.W.	3	8 0 Continuous steady rain throughout. 10 0 Rain clearing off.
	Noon	45 26	147 26	29.69	54.5	98	.416	...	St., Nb.	10	oc.	N. by W.	2	...	...	W.N.W.	3	1 30 Blue sky in places. Wind freshening.
	4	...	...	29.46	54.5	93	.397	...	St.	10	oc	N.E.	5	N.E.	3	S.W.	3	4 0 Long swell from S.W.
	8	...	...	29.39	56	93	.419	...	Nb.	10	or	Var.	2	N.N.E.	1	Confused	4	8 0 Light rain set in. 10 0 Showery.
	Midnight	...	...	29.33	50	100	.360	...	Nb.	10	ocmp	S.S.W.	3	W.	2	Confused	3	Midnight. Wind veering steadily throughout watch. Vessel rolling considerably. 2 0 Wind freshening from S.S.W. 3 30 Wind moderating.
15	4	...	...	29.44	48	85	.284	...	Nb., Cu.-Nb.	10	ocpq	S.S.W.	3	S.S.W.	1	S.W.	4	4 0 Occasional light rain.
	8	...	...	29.53	49	85	.296	...	Cu.-Nb.	10	ocq	W.	3	W.	2	W.S.W.	4	9 0 Sky clearing. Squalls at times.
	Noon	47 7½	147 31	29.58	49.2	78	.270	...	Cu., Cu.-Nb.	6	bcq	W.S.W.	6	W.S.W.	3	W.S.W.	4	10 0 Wind freshening.
	4	...	...	...	49	78	.270	...	Cu.	4	bc	W.S.W.	7	W.S.W.	4	W.S.W.	5	
	8	...	...	29.65	47.5	81	.266	...	Cu.	2	bcpq	W.	7	W.S.W.	4	Confused	5	9 30 Overcast. Frequent light rain squalls.
	Midnight	...	...	29.65	48	85	.284	...	Nb.	10	odq	W.	7	Confused	6	Confused	7	Midnight. Ship rolling and pitching very violently.



Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. November 16	4	...	...	29-67	48-5	88	-302	...	Nb.	10	o	N.W. by W.	7	Confused	6	W., Confused.	7	4 0 Occasional misty rain during first part of watch.
	8	...	...	29-66	49	93	-321	...	Nb.	10	o q	W. by N.	7	Confused	6	W., Confused.	7	
	Noon	48 1	146 49	29-64	49-2	92	-318	...	St., Nb.	10	o c m	W. by S.	7	Confused, W.	6	Confused, W.	6	
	4	...	...	29-61	49-2	89	-310	...	Nb.	10	o c p	W.N.W.	7	Confused, W.	6	W. by S.	6	4 0 Blue sky with cirrus clouds visible at times. Occasional rain squalls.
	8	...	...	29-74	45	84	-250	...	Cu.-Nb.	8	b c p q	W.	7	Confused	6	W.S.W.	6	9 15 Sky clearing. Ship labouring heavily throughout watch.
17	Midnight	...	...	29-83	44	84	-240	...	Cu.-Nb., Nb.	1	b c q	W.S.W.	7	Confused	6	W.S.W.	7	
	4	...	...	29-95	45	68	-204	...	Cu.-Nb.	8	b c p q	S.W. by W.	7	Confused	5	W.S.W.	7	4 0 Frequent blue sky. Rain squalls at times.
	8	...	...	30-06	47-5	73	-241	...	Cu.-Nb.	7	b c p q	S.W. by W.	6	Confused	5	W.S.W.	7	
	Noon	48 38	146 26	30-14	48-2	77	-256	Cl.	Cu.-Nb.	6	b c p	S.W. by S.	6	Confused	4	S.W. by W.	6	12 15 Sky overcast.
	4	...	...	30-11	47-5	81	-266	...	Nb., St.	10	o c	W.	7	W.	4	S.W. by W.	5	
18	8	...	...	30-13	48	78	-259	...	Cu.	3	b c	W.	6	W.	4	W.S.W.	6	9 0 Overcast.
	Midnight	...	...	30-11	49	85	-296	...	Nb.	10	o	W.N.W.	6	W.N.W.	4	W.	6	11 0 Wind W.N.W.
	4	...	...	30-11	47	90	-309	...	Nb.	10	o	W. by S.	6	W. by S.	4	W.S.W.	6	4 0 Frequent drizzling rain.
	8	...	...	30-19	47	92	-297	...	Nb.	10	o	W.S.W.	6	W.S.W.	4	W.S.W.	6	8 45 Clouds breaking.
	Noon	49 36	149 12	30-21	46-8	94	-299	...	Nb.	10	o c	W. by S.	5	W. by S.	4	W.S.W.	5	1 0 Wind and sea moderating.
19	4	...	...	30-22	46-9	94	-300	...	Nb.	10	o c	S.W.	4	S.W.	3	S.W.	5	
	8	...	...	30-26	46	92	-285	...	Cu.-Nb.	10	o c	S.W. by S.	3	S.W. by S.	2	S.W.	5	
	Midnight	...	...	30-26	45-5	88	-268	...	Nb.	10	o c	W.S.W.	2	...	...	S.W.	4	
	4	...	...	30-27	46-8	94	-299	...	Nb., Cu.-Nb.	10	o c m	N.W. by W.	2	...	...	S.W.	4	Continuous misty rain up till 3 a.m.
	8	...	...	30-25	46	92	-285	...	Nb.	10	o m	W. by N.	3	W. by N.	1	W. by S.	3	8 0 Frequent drizzling rain.
20	Noon	50 36	151 43	30-20	47-5	88	-290	...	Nb.	10	o c	N.W. by W.	3	N.W.	1	W.S.W.	4	
	4	...	...	30-14	44-5	92	-269	...	Nb., Cu.-Nb.	10	o c p	W.N.W.	4	W.N.W.	2	W.S.W.	5	4 0 Passing misty rain showers. Swell increasing.
	8	...	...	30-10	47	85	-272	...	Cu.-Nb.	10	o c	W.N.W.	4	W.N.W.	2	W.S.W.	5	8 0 Occasional light misty rain.
	Midnight	...	...	30-09	45	92	-274	Cu.-St.	Cu.-Nb., Nb.	10	o c	S.W. by W.	3	S.W.	3	W.S.W.	4	Midnight. Lightly overcast.
	4	...	...	30-08	44-2	98	-285	...	Nb., Cu.-Nb.	10	o c p	S.S.W.	3	S.S.W.	2	S.W. by W.	4	4 0 Occasional very light misty rain; wind veering through-out.
20	8	...	...	30-14	42-4	74	-202	Cl.	Cu.	6	b c	S. by E.	3	S. by E.	1	S.	4	5 0 Clouds breaking with sunrise.
	Noon	51 50	155 17	30-16	44-5	68	-199	Cl.	St.	6	b c	S. by W.	3	S. by W.	2	S.	3	
	4	...	...	30-18	44-2	69	-198	Cl.	St., Cu.	4	b c	S.	3	S.	2	S.S.W.	4	
	8	...	...	30-20	40	73	-180	...	Cu.-Nb.	8	b c	S.	3	...	...	Confused	5	
Midnight	...	...	30-16	39	72	-172	...	Cu.-Nb.	9	c	S.	2	...	...	Confused	4	Midnight. Vessel rolling heavily.	

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. November 21	4	...	...	30-14	39	72	-172	...	Cu.	9	c	S.	1	...	...	Confused, S.	4	
	8	...	...	30-14	41	65	-167	...	Cu.	9	c	S.S.W.	1	...	...	S.	4	
	Noon	53 27	157 39	30-09	42	68	-181	...	Cu., St.	8	bc	W.S.W.	2	...	...	S.S.W.	4	
	4	...	...	30-03	43.5	71	-201	...	Cu., Cu.-St.	9	bc	W.	2	...	...	S.W. by W.	4	
	8	...	...	29-98	40.3	80	-198	...	Cu.-Nb.	7	bc	N.W. by W.	3	...	...	W.S.W.	4	
	Midnight	...	...	29-88	41	82	-211	...	Cu.-St.	10	oc	N.W. by W.	3	...	...	W.	3	
22	4	...	...	29-91	42	83	-220	...	St.	10	oc	N.W.	3	N.W.	1	W.S.W.	2	
	8	...	...	29-86	44	75	-217	...	Cu.	8	bc	W.N.W.	2	...	...	W.S.W.	2	
	Noon	58	159. 5	29-85	45	76	-227	...	St.	10	oc	W.	1	...	...	W.S.W.	3	
	4	...	...	29-78	45	92	-274	...	St., Nb.	9	bc	Calm	0	...	...	S.W.	3	
	8	...	...	29-68	44	92	-264	...	Nb.	10	om	N.	3	...	...	N.N.E.	2	
	Midnight	...	...	29-56	45	92	-274	...	Nb.	10	omp	N. by W.	3	...	...	N.N.E.	2	
23	4	...	...	29-43	44.2	98	-285	...	Nb.	10	om d	N. by W.	3	...	...	N.E. by N.	1	
	8	...	...	29-35	45	100	-298	...	Nb.	10	om d	N.W.	4	...	...	N.N.E.	1	
	Noon	...	...	29-31	45.2	95	-291	...	...	...	m	N.W.	4	N.W.	1	N.N.E.	1	
	4	...	...	29-27	44.1	91	-263	...	St.	10	om	N.W.	5	N.W.	2	N.N.E.	1	
	8	...	...	29-26	43.3	85	-238	...	Cl.-Cu., Cl.	4	bc	W.	6	W.	2	N.	2	
	Midnight	...	...	29-25	43.5	79	-224	...	Cu.-Nb., Cu.	7	bc	W.	6	...	2	N. Confused.	2	
24	4	...	...	29-18	43	83	-230	...	Cu.	6	bc	W.N.W.	3	...	...	N.	2	
	8	...	...	29-16	46.4	89	-280	...	A.-Cu.	9	bc	W.N.W.	2	...	...	N.N.E.	2	
	Noon	...	...	29-10	45	86	-255	...	St.	1	b	N.N.W.	4	N.N.W.	2	N.N.W.	2	
	4	...	...	29-13	44.5	88	-257	...	Cu.-St., Fr.-Cu.	8	bc	N.N.W.	4	N.N.W.	2	N.N.W.	1	
	8	...	...	29-13	44	92	-264	...	Cu.-Nb.	10	oc	N.W.	3	...	...	N.N.W.	2	
	Midnight	...	...	29-16	36.5	97	-209	...	Nb.	10	m o c r	S. by E.	4	S. by E.	2	S.	2	
25	4	...	...	29-25	35	80	-161	...	Cu.-St., Nb.	10	c	S.S.E.	3	S.S.E.	2	S.E.	2	
	8	...	...	29-34	36.2	68	-146	...	St.	10	o	S.S.E.	3	S.S.E.	1	S.S.E.	1	
	Noon	...	...	29-40	38.7	55	-128	...	Cu.-St.	10	oc	S. by E.	4	S. by E.	2	S.	2	
	4	...	...	29-46	37.5	66	-149	...	Cu.-Nb.	10	c	S.S.W.	4	S.S.W.	2	S.	1	
	8	...	...	29-57	35.5	95	-196	...	Nb.	10	sh	S.	3	S.	2	S.	2	
	Midnight	...	...	29-63	39	72	-172	...	Nb.	10	oc	Var.	1	...	...	S.	2	

METEOROLOGY.

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. November 26	4	...	...	29-68	38	72.	-164.	...	St., Nb.	10	o	S.S.E.	1	...	...	W.	1	
	8	...	...	29-78	39.5	77	-187	...	Cu.-Nb.	10	c	W. by S.	2	...	...	W.S.W.	2	8 0 Dark clouds on E. horizon.
	Noon	53 23	161 27	29-81	42	74	-198	...	Cu., Cu.-Nb.	10	p c	W.S.W.	3	W.S.W.	1	W.S.W.	1	
	4	...	...	29-84	42.1	65	-175	...	Cu., Cu.-Nb.	10	c v	W.	5	W.	2	W.N.W.	2	4 0 Wind freshening during after-noon. Exceptionally clear weather.
	8	...	...	29-85	43	75	-207	...	Cu.-Nb.	10	o c	N.W. by W.	4	N.W. by W.	2	W.N.W.	3	
	Midnight	...	...	29-83	44	88	-253	...	Cu.-Nb.	10	o c	W.N.W.	5	W.N.W.	3	W.N.W.	3	11 0 Wind increasing. 1 30 Wind veering into S.W. with frequent rain squalls.
27	4	...	...	29-82	43	83	-230	...	St., Nb.	10	o p	S.W. by W.	6	Confused	3	W.	3	4 0 No rain since 2-45. Sea rising.
	8	...	...	29-84	41.7	75	-200	...	Cu.-Nb., St.	9	c	W.S.W.	6	W.S.W.	3	W.S.W.	3	8 15 Sky clearing.
	Noon	51 51½	164 40	29-86	42.1	69	-185	...	Cu., Nb., St.	8	b c p	S.W.	6	Confused	3	W.	3	Noon. Occasional hail squalls.
	4	...	...	29-91	44	68	-194	...	Cu., Cu.-Nb.	7	b c p	S.W.	6	S.W.	3	W.S.W.	4	
	8	...	...	29-93	42.7	69	-189	...	Cu., Cu.-Nb.	8	b c	S.W. by S.	6	S.W. by S.	3	Confused	4	
	Midnight	...	...	29-96	43	67	-185	...	Cu.-Nb., Nb., St.	10	o c	S.W. by S.	5	S.W. by S.	2	S.W.	4	Midnight. Ship rolling considerably.
28	4	...	...	29-94	43	69	-189	...	St., Nb.	10	o	S.W. by S.	5	S.W. by S.	3	S.W. by W.	4	
	8	...	...	29-95	45	76	-227	...	Cu., Cu.-St.	8	b c	S.W. by S.	4	S.W. by S.	2	S.W. by W.	4	
	Noon	50 43	166 58	29-91	46	77	-237	...	Cu.-Nb., Cu.-St.	10	o c	S.S.W.	4	S.S.W.	2	S.S.W.	3	Sounding and dredging during morning.
	4	...	...	29-86	47	89	-285	...	Nb.	10	o m	W.S.W.	4	W.S.W.	2	W.S.W.	2	2 0 Rain clouds gathering over land. 3 30 Light misty rain.
	8	...	...	29-85	46	92	-285	...	Cu.-Nb.	10	o c p	S.W. by S.	6	S.W. by S.	3	S.W. by S.	3	4 0 Mist over land. 6 0 Rain squalls.
	Midnight	...	...	29-83	45.4	97	-293	...	Nb.	10	o c p	S. by W.	7	S. by W.	4	S.S.W.	3	8 0 Storm clouds on S. horizon.
29	4	...	...	29-83	46.8	86	-275	...	Nb., Cu.-Nb.	10	o c p	S.S.W.	7	S.S.W.	4	S.S.W.	5	11 0 Wind increasing; squally with passing showers.
	8	...	...	29-88	46	84	-261	...	Cu.-Nb., Nb.	10	o c p	S.S.W.	7	S.S.W.	5	S.S.W.	6	4 0 Wind steady and slightly increasing throughout. Sea increasing.
	Noon	49 48	165 43	29-91	47.9	79	-260	Cl.-Cu.	Cu., Cu.-Nb.	8	b c p	S.S.W.	7	S.S.W.	6	S.S.W.	7	
	4	...	...	29-95	46.2	91	-285	...	Nb., Cu., Cu.-Nb.	8	b c p	S.S.W.	7	S.S.W.	6	S.S.W.	7	4 0 Frequent rain squalls.
	8	...	...	29-98	46	84	-261	...	St., Cu.-Nb.	10	o c	S.W. by S.	6	S.W. by S.	4	S.W. by S.	6	7 40 Wind moderating.
	Midnight	...	...	29-94	47	84	-277	...	Cu.-Nb., Nb.	10	o p	S.W. by W.	5	S.W.	4	S.W. by S.	5	Midnight. Frequent misty rain.
30	4	...	...	29-92	46	89	-275	...	Nb., St.	10	o c p	W.S.W.	5	Confused	3	Confused	4	2 0 Sea and swell moderating. Occasional misty rain.
	8	...	...	29-92	47	85	-272	...	Cu.-Nb., Nb.	10	o c	S.W.	6	S.W.	4	S.W.	5	4 30 Wind increasing.
	Noon	49 50	163 32½	29-91	45	98	-294	...	Cu.-Nb.	10	o c	S.W.	6	S.W.	5	S.W.	5	8 0 Heavily overcast throughout.
	4	...	...	29-88	47.8	82	-272	...	Nb., Cu.-St.	10	o c	W.S.W.	5	W.S.W.	3	S.W.	5	
	8	...	...	29-85	48.1	73	-246	...	Nb., Cu.-St.	10	o c	W.S.W.	5	W.S.W.	2	S.W.	5	9 0 Wind and sea rapidly decreasing.
	Midnight	...	...	29-84	47.3	75	-244	...	Nb., St.	10	o w	W.S.W.	3	...	...	S.W.	4	10 0 Gentle breeze from W.S.W.

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.		
1912. December 1	4	...	...	29.83	40.2	82	-258	...	Cu.-Nb., Nb.	10	ocw	W. by S.	2	...	...	S.W.	3	4 30 Misty rain set in.	
	8	...	...	29.85	45	92	-274	...	Cu.-Nb., Nb.	9	bcd	S.S.W.	2	...	...	S.W.	2	8 0 Frequent misty rain.	
	Noon	48 28	160 27	29.87	47	89	-285	...	Cu., Cu.-St.	4	bc	S.S.W.	2	...	...	S.W.	2		
	4	...	...	29.88	48.5	80	-273	...	Cu.	2	bc	S.W.	1	...	...	W.	3		
	8	...	...	29.88	48	78	-259	...	Cu.	2	bc	W.N.W.	1	...	...	W.S.W.	2	8 0 Beautiful sunset.	
	Midnight	...	...	29.89	47	76	-243	...	Nb.	10	oc	W.N.W.	3	...	...	W.	2	9 0 Overcast and wind backed to W.N.W.	
	2	4	...	...	29.83	47	85	-272	...	Nb., Cu.-Nb.	7	bcp	N.W. by N.	3	N.W.	1	N.W.	1	4 0 Occasional misty rain.
		8	...	...	29.77	48.3	90	-305	...	Nb., Cu.-Nb.	10	oc	N.W.	3	...	...	N.W.	1	
		Noon	49 2	156 53	29.71	52	82	-318	...	Cu., Cu.-St.	10	oc	N.W.	3	N.W.	1	N.W.	1	
		4	...	...	29.67	49.6	93	-329	...	Cu.-St., Nb.	10	ocp	S.W.	4	Confused	2	W.S.W.	2	1 30 Wind veering into W. Sky clearing.
		8	...	...	29.72	47	77	-248	...	Cu.-Nb.	4	bcpq	S.W.	6	S.W.	3	S.W.	4	3 0 Swell from S.W.
		Midnight	...	...	29.73	45	78	-234	...	St., Cu.-Nb.	3	bcpq	S.W.	6	S.W.	3	S.W.	5	3 15 Overcast from W. 4 0 Passing rain squalls. Wind freshening.
3		4	...	...	29.72	44.8	75	-225	...	Cu.-St., Cu.-Nb.	7	bcpq	S.W.	6	S.W.	4	S.W.	5	4 0 Squally. 8 0 Sea making. Midnight. Occasional rain squalls.
		8	...	...	29.73	46	66	-202	...	Cu.-Nb.	9	coq	S.W.	7	S.W.	4	S.W.	5	4 0 Frequent rain. Wind very squally.
		Noon	48 35½	154 40	29.74	46	77	-237	...	Cl., Cu.-Nb., Cu.	7	bcp	S.W.	6	S.W.	4	S.W.	4	1 0 Sky clearing.
		4	...	...	29.74	48.3	70	-238	Cl.-Cu.	Cu., Cu.-Nb.	5	bc	S.W.	5	S.W.	4	S.W.	4	2 15 Very fine cirro-cumulus clouds spreading out from a collection of heavy Cu. clouds at a point in the S.W. horizon and spreading right across the sky towards N.E.
		8	...	...	29.74	46	77	-237	...	Cu.-Nb.	7	bcp	S.W.	4	S.W.	2	S.W.	4	
		Midnight	...	...	29.74	45	84	-250	...	St., Cu.-Nb.	9	oc	S.W.	3	S.W.	1	S.W.	4	
	4	4	...	...	29.75	46.4	68	-213	...	Cu.-Nb., Cu.-St.	10	oc	W.S.W.	2	...	...	S.W.	4	4 0 Fine throughout watch.
		8	...	...	29.80	49	72	-248	...	Cu.-St.	8	bc	N.W. by N.	3	...	...	S.W.	3	10 0 Light rain squall.
		Noon	48 25	152 5	29.76	50.5	75	-276	...	Nb., Cu.-Nb.	10	bcpq	N.N.W.	4	Confused	2	Confused	3	Noon. Occasional light showers. 1-0. Rain squalls becoming frequent. Mist.
		4	...	...	29.70	52.8	87	-350	Cl.	Cu., Cu.-Nb.	6	bc	N.W. by N.	4	Confused	2	Confused	3	3 30 Sky clearing, revealing Cl. clouds.
		8	...	...	29.71	52	93	-360	...	St., Cu.-Nb.	10	ocpe	N.W. by W.	4	Confused	2	Confused	3	4 0 Short confused swell. No rain since 2 p.m.
		Midnight	...	...	29.71	52.4	92	-361	...	Nb., Cu.-Nb.	10	oqpm	N.W. by W.	5	N.W.	3	N.W.	4	8 0 Clouding over with sunset. Very damp atmosphere.
5		4	...	...	29.71	52.3	92	-362	...	Nb.	10	opm	W. by N.	5	Confused	3	N.W. by W.	4	
		8	...	...	29.75	52.2	94	-368	...	Nb., St.	10	ocme	N.W.	4	Confused	2	W.N.W.	4	8 0 Very damp.
		Noon	48 22	149 53	29.75	52.7	94	-372	...	Nb.	10	ompd	W.N.W.	4	Confused	2	W.N.W.	5	Noon. Frequent light rain. Long heavy swell from W.
		4	...	...	29.67	52.5	90	-356	Cl.	St.	3	bz	W.N.W.	3	Confused	1	W.N.W.	6	1 0 Sky clearing, revealing Cl. clouds. Slight haze round horizon.
		8	...	...	29.56	51.5	92	-351	...	Nb.	10	oce	N. by W.	3	Confused	1	W.N.W.	5	6 0 Overcast.
		Midnight	...	...	29.43	52.1	96	-373	...	Nb.	10	oce	N.N.W.	4	Confused	2	W.N.W.	4	Midnight. Frequent mist throughout watch.

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1912. December 6	4	...	...	29-25	52-2	98	-385	...	Nb.	10	o c p m	N. by W.	4	Confused	2	Confused	3	4 0 Continuous light rain from 1-2.
	8	...	...	29-18	51-5	99	-378	...	Nb.	10	o c m	N.W. by W.	3	Confused	2	Confused	4	8 0 Damp and misty throughout watch.
	Noon	47 57½	147 41	29-24	50	86	-308	...	Cu., Cu.-Nb. Cu.	8	b c	W. by S.	5	W.	3	W.N.W.	4	10 30 Sky clearing.
	4	...	...	29-30	51-8	80	-310	...	Cu.	3	b c	W. by N.	5	W. by N.	3	W. by N.	4	
	8	...	...	29-34	51	86	-320	...	Cu., St.	3	b c	W. by S.	3	Confused	1	W.	4	
	Midnight	...	...	29-35	51	83	-307	...	St.	5	b c w	N.W. by W.	3	Confused	2	W.	4	Midnight. Fine and clear throughout.
7	4	...	...	29-32	51-2	88	-330	...	Cu.-St.	8	b c w	N.N.W.	4	N.N.W.	2	N.W.	4	4 0 Slightly overcast. Clear sky up till 3-30 a.m.
	8	...	...	29-27	51-3	100	-377	...	Nb.	10	o r	N. by W.	5	N. by W.	3	N.N.W.	4	5 0 Heavily overcast with freshening wind.
	Noon	47 27½	149 5½	29-28	50-8	83	-307	...	Cu.	7	b c p	N.	6	Confused	4	N.W. by N.	5	6 30 Rain, wind and sea increasing.
	4	...	...	29-32	53-2	75	-305	...	Cu.	2	b c	N.W.	7	N.W.	5	N.W.	6	8 0 Continuous rain.
	8	...	...	29-36	52-1	85	-332	...	Nb., Cu.-Nb.	7	b c p	N.W.	6	N.W.	5	N.W.	6	10 0 Taking off and clouds clearing.
	Midnight	...	...	29-38	51	86	-320	...	Cu.	2	b c p	W.	4	Confused	1	Confused	6	9 0 Wind moderating rapidly. 10 0 Moderate breeze. Ship rolling very heavily. Midnight. Occasional showers. Aurora lights visible.
8	4	...	...	29-36	50-3	84	-299	...	Nb., Cu.-Nb., St. Cu.	8	b c w	W.	3	W.	1	W.N.W.	5	5 0 Clouds clearing off as sun rises.
	8	...	...	29-37	54	74	-307	...	Cu.	2	b c	W.	2	W.	1	W.N.W.	5	8 0 Fine and clear.
	Noon	46 46½	148 23	29-33	53	73	-294	...	Cu., St.	2	b c	N.W. by W.	4	N.W.	3	W.N.W.	4	
	4	...	...	29-20	53	80	-320	...	Cl., Cl.-Cu.	5	b c	N.W. by N.	5	N.W.	3	N.W.	4	
	8	...	...	29-15	50-4	76	-277	...	Cu.-Nb.	4	b c p	W.	5	Confused	3	W.N.W.	5	8 0 Frequent short hail and rain squalls.
	Midnight	...	...	29-14	49-2	84	-296	...	Cu.-Nb.	4	b c p q	W.	5	Confused	3	W.N.W.	5	Midnight. Frequent short but heavy hail and rain squalls.
9	4	...	...	29-12	49	75	-258	Cl.	Cu., St., Cu.-Nb.	5	b c p q	W.	6	Confused	4	W.	6	4 0 Frequent heavy but short rain squalls.
	8	...	...	29-19	51	69	-257	Cl.	Cu.-Nb.	6	b c p q	W.	6	Confused	4	W.	7	
	Noon	46 20	147 37	29-21	50-2	79	-287	Cl.	Cu., Cu.-Nb.	6	b c p	W.N.W.	7	W.N.W.	5	W.N.W.	7	3 30 Rain squall.
	4	...	...	29-19	53	70	-282	...	Cu., Cu.-Nb.	6	b c p q	N.W.	6	Confused	5	Confused	7	4 0 Long swell from W., short from N.W.
	8	...	...	29-20	52	70	-269	...	Cu.-Nb.	4	b c p q	W.N.W.	5	W.N.W.	5	W.N.W.	7	9 0 Wind moderating.
	Midnight	...	...	29-22	51	86	-320	...	Nb.	10	o p	N.W. by N.	3	Confused	3	W.N.W.	6	11 0 Set in overcast. Midnight. Wind rapidly moderating. 2 0 Calm. 3 30 Light S.E. airs.

Table XI.—SECOND SUBANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. December 10	4	...	...	29-18	50.5	75	.276	...	Nb.	10	od	S.E.	1	...	...	W. by N.	6	4 0 Very frequent light misty rain. 6 0 Wind freshening from S.E. 8 0 Rain throughout.
	8	...	...	29-11	51	77	.286	...	Cu.-Nb.	10	ocr	S.	5	Confused	3	S.W. by W.	5	
	Noon	44 53	148 11	29-17	47	97	.311	...	Nb., Cu.-Nb.	10	ocp	W.S.W.	6	Confused	4	W.S.W.	5	Noon. Frequent rain. 12 30 Sky clearing, wind and sea increasing.
	4	...	...	29-31	49	86	.298	Cl.	Cu., Cu.-Nb.	5	bcpq	W.	7	Confused	5	W.S.W.	7	4 0 Frequent short rain squalls.
	8	...	...	29-37	50	79	.284	Cl.	Cu., Cu.-Nb.	6	bcpq	W. by N.	7	Confused	6	W.S.W.	7	8 0 Frequent short rain squalls.
	Midnight	...	...	29-45	49	85	.296	...	Cu., Cu.-Nb.	5	bcpql	W. by N.	7	W. by N.	5	W.	6	Midnight. Lightning to N. Occasional heavy hail squalls.
11	4	...	...	29-51	...	...	...	...	Cu.	7	bcp	W. by N.	6	W. by N.	4	W.	5	4 0 Lightning visible on N. horizon up till 2-30 a.m.
	8	By bearings		29-62	52	70	.269	...	Cu., Cu.-Nb.	7	bc	N.W. by W.	4	W.N.W.	4	W.S.W.	5	High land round Cape Pilla visible at daylight.
	Noon	43 13	148 32	29-72	51.8	74	.284	Cl.	Cu.	3	bc	W. by S.	6	W.	5	S.W. by W.	6	2 0 Got under lee of land, swell dying down.
	4	...	...	29-83	52.3	75	.293	Cl.	Cu., Cu.-Nb.	7	bc	S.W.	4	S.W.	3	S.W.	1	
	8	...	...	29-93	53	74	.290	...	Cu., Cu.-Nb.	6	bc	S.	3	S.	1	S.	1	8 0 Heavy clouds over land.
	Midnight	...	...	30-01	53	73	.294	...	Cu.	2	bcw	S.	1	...	...	S.	1	Midnight. Heavy dew. Water highly phosphorescent.
12	4	...	...	30-04	52	76	.295	...	Cu.	1	bcw	Calm	0	...	...	S.	2	
	8	By bearings		30-13	60.4	52	.276	...	Cu.	1	bc	Calm	0	...	...	S.	2	
	Noon	42 44	148 41	30-13	58.5	61	.301	...	Cu.	1	bc	Calm	0	...	...	S.W.	2	Noon. Cu. clouds over land.
	4	...	...	30-12	58	67	.323	...	...	0	b	N. by E.	3	N. by E.	1	S.W.	2	2 0 N./E. breeze.
	8	...	...	30-13	57	81	.377	Cl.	St.	2	bc	N. by E.	4	N. by E.	2	N. by E.	2	7 0 Breeze freshening.
	Midnight	...	...	30-13	57	87	.406	...	St.	2	bcw	N. by E.	2	N. by E.	1	N. by E.	2	8 40 Wind moderating.
13	4	...	...	30-11	56.2	92	.416	Cl.-Cu.	St., Nb.	3	bcw	N.	2	...	...	N.N.E.	1	3 30 Very red sunrise. Nimbus clouds low on S. horizon.
	8	By bearings		30-20	57.7	83	.396	Cl.-Cu.	St.	6	bc	W.N.W.	2	W.N.W.	1	Confused	1	
	Noon	42 49	148 41	30-16	60	80	.413	Cl.	St.	5	bc	N. by E.	2	...	...	N.	1	
	4	...	...	30-16	60.5	82	.434	Cl.	...	4	bc	N.	3	N.	1	...	...	5 20 S.W. swell rising.
	8	...	...	30-15	60	88	.455	Cl.	St.	2	bc	N. by E.	...	...	...	W.S.W.	3	8 0 Breeze dying away.
	Midnight	...	...	30-15	58	91	.436	...	...	...	bwm	W	1	...	...	S.W.	3	Midnight. Water highly phosphorescent; heavy dew.
14	4	...	...	30-13	56.5	98	.447	...	...	...	f	N. by E.	...	...	...	S.W. by S.	3	3 30 Ran into fog. Long S.W. swell.
	8	...	...	30-13	61.9	83	.459	...	...	4	bc	N. by E.	3	N. by E.	2	...	...	Noon. Berthed at King's Pier, Hobart.

Table XII.—SECOND ANTARCTIC VOYAGE.  
METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1912. December 26	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 0	Left King's Pier, Hobart.		
	Noon	42 53	...	29.98	62.4	55	.316	...	Cu.	2	b c	S.E.	2	...	...	1 0	Sky clouded over.		
	4	...	...	29.90	58	76	.364	...	St.	10	o c m	E. by N.	3	E. by N.	1	1 30	Wind veering into E.		
	8	...	...	29.77	58.5	78	.386	...	Cu.-St., Nb.	10	o c	E.N.E.	3	E.N.E.	1	4 0	Misty.		
	Midnight	...	...	29.64	56	70	.313	Cl.-Cu.	Cu.-St.	7	b c	W. by N.	5	W. by N.	2	8 30	Wind came out from W.		
27	4	...	...	29.50	55	72	.307	...	St., Nb.	10	o c q	N.W.	6	N.W.	3	10 20	Sky clearing a little. Moon visible.		
	8	...	...	29.48	53	80	.320	Cl.-Cu.	Cu.-Nb.	7	b c p q	N.W.	6	N.W.	4	4 0	Wind squally.		
	Noon	44 22	146 26	29.48	54.5	77	.327	...	Cu., Cu.-Nb.	7	b c p	N.W. by W.	7	N.W.	5	8 0	Squally with occasional heavy rain.		
	4	...	...	29.59	55	77	.334	...	Cu.	4	b c	W.S.W.	6	Confused	5	Noon.	Rain squalls throughout.		
	8	...	...	29.70	53	70	.282	...	Cu.-Nb., St.	10	o c p q	W.	6	Confused	5	5			
	Midnight	...	...	29.74	52	86	.333	...	Nb.	10	o c p q	W. by N.	6	W. by N.	5	6	Midnight.	Squally with frequent rain.	
28	4	...	...	29.76	52.1	91	.353	...	Nb.	10	o q p	N.W.	7	Confused	5	7	4 0	Frequent rain squalls.	
	8	...	...	29.81	53.2	92	.375	...	Nb.	10	o q p d	W.N.W.	6	Confused	5	7	8 0	Frequent rain squalls.	
	Noon	45 10	145 39	29.78	53.8	91	.375	...	Nb.	10	o c p q	W.N.W.	7	W.N.W.	6	7	1 30	Sky clearing a little.	
	4	...	...	29.76	55	87	.375	...	Cu., Cu.-Nb.	9	b c p	W. by N.	6	W.	5	7	4 0	Rain squalls less frequent.	
	8	...	...	29.83	55	80	.348	...	Cu., Cu.-Nb.	7	b c p	W.N.W.	6	W.N.W.	5	7	7		
	Midnight	...	...	29.77	54	88	.367	...	Cu.-Nb.	10	o c p	W.N.W.	6	W.N.W.	5	7	7	Midnight.	Water phosphorescent.
29	4	...	...	29.73	52	90	.346	...	Nb.	10	o m d p	W.N.W.	5	W.N.W.	3	6	4 0	Frequent rain squalls; wet and misty throughout. Ship rolling heavily.	
	8	...	...	29.73	52	76	.295	...	Cu.-Nb.	10	o m p	W.	5	W. by N.	3	5	5		
	Noon	47 13	145 30	29.61	52	78	.302	...	St.	10	o c p	W.	4	W.	3	5	1 30-2 30	Sounding.	
	4	...	...	29.59	49.9	72	.257	...	St., Cu.-Nb.	10	o c p	W.S.W.	4	W.S.W.	3	6	4 0	Very long swell.	
	8	...	...	29.59	47.2	76	.248	...	Cu.-Nb.	8	b c p q	S.W. by W.	5	S.W. by W.	3	6	6		
	Midnight	...	...	29.56	47	70	.224	...	Cu., Cu.-Nb.	3	b c q	S.W. by W.	6	S.W. by W.	4	6	6	Midnight.	Heavy hail squall.
30	4	...	...	29.52	46	70	.216	...	Cu., Cu.-Nb.	5	b c p q	S.W. by W.	6	Confused	4	6	4 0	Occasional heavy hail squalls.	
	8	...	...	29.45	46.5	73	.231	...	Cu., Cu.-Nb.	10	o c p q	W. by S.	7	Confused	5	7	4 30	Overcast.	
	Noon	48 54	145 17	29.26	48	85	.284	...	Cu., Cu.-Nb.	10	o c p q	W.N.W.	8	W.	6	8	8 0	Overcast throughout with frequent rain.	
	4	...	...	29.14	46.8	86	.275	...	Cu.-Nb.	8	b c p q	W. by S.	8	Confused	7	8	Noon.	Frequent heavy rain squalls.	
	8	...	...	29.24	45.5	72	.220	...	Cu.-Nb.	4	b c p q	W. by S.	9	Confused	8	9	4 0	Majority of swell from W.S.W. Waves very confused. Blue sky at intervals. Frequent very fierce squalls accompanied by heavy rain.	
	Midnight	...	...	29.37	45	76	.227	...	Cu., Cu.-Nb.	6	b c p q	S.W. by W.	8	Confused	8	9	8 0	Same conditions.	
																	Midnight.	Stars very clear.	

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance. 0-10.	Direction from—	Dis-turbance, 0-10.	
1912. December.																		
31	4	...	...	29.48	...	...	...	...	Cu.-St.,	6	b c p q	S.W. by W.	7	Confused	7	S.W. by W.	8	
	8	...	...	29.59	46.5	77	-243	...	Cu.-Nb.,	8	b c p q	W.S.W.	6	Confused	6	S.W. by W.	7	8 0 Squalls becoming less frequent.
	Noon	49 47	144 52	29.60	46.5	80	-252	...	Cu.-St.,	10	o e p q	W.S.W.	6	Confused	6	W.S.W.	7	10 30 Clouded over.
	4	...	...	29.57	47.5	87	-286	...	Nb.,	10	o c p	W. by N.	5	W.	5	W.S.W.	6	5 0 Misty rain.
	8	...	...	29.56	47.2	98	-319	...	Cu.-St.,	10	o c m d	N.W. by W.	5	Confused	4	Confused	6	
	Midnight	...	...	29.49	47	92	-297	...	Cu.-Nb.,	10	o c m p	N.W. by W.	5	Confused	4	Confused	5	Midnight. Misty throughout.
1913. January																		
1	4	...	...	29.46	46	96	-298	...	Nb.	10	o m p q	W.N.W.	6	Confused	4	W.	5	4 0 Frequent light rain. Very squally. Misty throughout.
	8	...	...	29.51	46	77	-237	...	Cu.	7	b c p q	W.N.W.	5	Confused	3	W.	5	
	Noon	51 24	144 16	29.52	45.2	78	-233	Cl.	Cu.,	7	b c p q	W. by S.	6	Confused	4	W.	5	
	4	...	...	29.51	43.9	82	-235	...	Cu.-Nb.,	9	b c	W. by S.	5	W. by S.	4	W. by S.	5	
	8	...	...	29.54	43	83	-230	...	Cu.-St.,	6	b c	W. by S.	5	W. by S.	4	W. by S.	5	8 0 Long banks of St. on W. horizon rising slowly.
	Midnight	...	...	29.51	42.5	83	-225	...	Cu.,	9	o c w	W. by S.	5	W. by S.	4	W. by S.	5	
2	4	...	...	29.48	42	81	-215	...	St., Cu.	4	b c w	W.	6	W.	5	W.S.W.	6	1 30 Clouds lifting to S. Cl.-Cu. overhead.
	8	...	...	29.47	43	67	-185	...	Cu.	2	b c	W.	6	W.	5	W.S.W.	6	8 0 Fine and clear throughout.
	Noon	53 18	146 36	29.41	43	71	-195	...	Cu.,	7	b c	W. by S.	7	Confused	6	W.S.W.	7	1 0 Clouding over from W. 3 0 Sky clearing a little. Occasional sleet squalls.
	4	...	...	29.33	42	80	-213	...	Cu.,	6	b c p q	W.	7	Confused	5	W.S.W.	7	5 30 Wind freshening rapidly. Dirty appearance of weather.
	8	...	...	29.23	43	79	-219	...	St.,	10	o p q	N.W.	9	Confused	8	Confused	8	8 0 Very confused and high sea. Fierce squalls.
	Midnight	...	...	29.18	42.1	99	-265	...	Cu.-Nb.,	10	o p q	W.N.W.	8	Confused	7	Confused	8	11 40 Wind veering to W. and moderating slightly. 1 30 Wind moderating rapidly.
3	4	...	...	29.17	40.8	83	-211	...	Nb., Cu.,	4	b c p	W.	6	Confused	6	W.	7	2 15 Sky breaking to W. Apparently passing a trough of low barometric pressure.
	8	...	...	29.18	41	82	-211	...	Cu.-Nb.,	9	b c	W.N.W.	5	Confused	3	W.	6	11 0 Sky overcast.
	Noon	54 27	146 36	29.12	41.2	89	-231	...	St.,	10	o	N.W.	4	Confused	3	W.N.W.	6	12 30 Misty rain set in and wind dying away.
	4	...	...	29.07	38.8	92	-215	...	Nb.	10	o m d	W. by N.	3	Confused	2	W. by S.	6	4 0 Spitting rain.
	8	...	...	29.03	38	90	-206	...	St.	7	b c	W. by N.	3	Confused	2	W. by S.	6	
	Midnight	...	...	28.99	37	90	-198	...	Cu.	2	b c	W.	3	W.	1	W.S.W.	5	11 0-Midnight. Very fine aurora effects.

METEOROLOGY.



Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
													Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.		
1913. January	4	...	...	28.94	36.5	85	-183	...	Cu.	3	b c	W. by S.	3	W. by S.	1	W.S.W.	5	4 0 Heavy Cu. clouds low round horizon.
	8	...	...	28.93	36	90	-190	...	Cu.-Nb.	6	b c p	W. by S.	4	W. by S.	2	W.S.W.	5	8 0 Occasional light snow squalls.
	Noon	56 8	146 30	28.89	37.5	76	-170	...	Cu.	3	b c	W.	4	W.	3	W.S.W.	6	
	4	...	...	28.90	37	79	-172	...	Cu., Cu.-Nb.	4	b c p	W. by S.	4	W. by S.	3	S.W. by W.	6	4 0 Occasional snow squalls.
	8	...	...	28.92	36	72	-153	...	Cu.-Nb.	4	b c	W. by S.	4	W. by S.	1	W.S.W.	5	
	Midnight	...	...	28.88	35	80	-161	...	Cu.-Nb.	4	b c	W. by N.	4	W.	1	W.S.W.	5	Lights of aurora faintly visible at times after midnight.
5	4	...	...	28.83	34.5	77	-152	...	Cu., Cu.-Nb.	4	b c p	W.	4	W.	2	W.S.W.	5	4 0 Occasional snow squalls.
	8	...	...	28.79	35	80	-161	...	Cu., Cu.-Nb.	8	b c p	W.	4	W.	2	W.S.W.	5	8 0 Occasional snow squalls.
	Noon	57 34	146 34	28.77	36.2	67	-144	...	Cu.	2	b c	W.S.W.	3	W.S.W.	2	S.W. by W.	5	
	4	...	...	28.73	37	69	-154	...	Cu., Cu.-Nb.	4	b c	S.W. by W.	4	S.W. by W.	2	S.W. by W.	5	
	8	...	...	28.78	36	100	-211	...	Cu.	2	b c	S.W. by W.	4	S.W. by W.	1	S.W. by W.	4	
	Midnight	...	...	28.81	35.5	75	-155	...	Cu.-Nb.	4	b c	W.S.W.	3	W.S.W.	1	W.S.W.	4	
6	4	...	...	28.83	36	85	-179	...	Cu., Cu.-Nb.	4	b c p	S.W.	5	Confused	3	S.W. by W.	4	1 0 Wind freshening and passing snow squalls.
	8	...	...	28.88	34.4	89	-177	Ci.-Cu.	Cu.-Nb.	5	b c p q	S.W. by W.	6	S.W. by W.	3	S.W. by W.	4	4 0 Occasional snow squalls.
	Noon	59 8	146 50	28.86	36	80	-169	...	Cu.-Nb.	10	o c p q	S.W. by W.	8	Confused	6	S.W. by W.	6	8 0 Frequent snow squalls.
	4	...	...	28.96	35.2	84	-172	...	Cu., Cu.-Nb.	10	o c p q	S.W. by W.	7	Confused	6	S.W. by W.	7	4 0 Frequent fierce squalls with snow.
	8	...	...	29.03	36	70	-148	...	Cu., Cu.-Nb.	5	b c p q	S.W. by W.	6	S.W. by W.	4	S.W. by W.	6	9 0 Wind rapidly moderating.
	Midnight	...	...	29.06	35.2	78	-159	...	St., Cu.-Nb.	9	b c	W.S.W.	4	Confused	3	S.W. by W.	4	Midnight. Frequent hail squalls.
7	4	...	...	29.07	35.4	73	-152	Ci.	St., Cu.-Nb.	3	b c w	W.	3	Confused	2	Confused	3	4 0 Heavy storm clouds low all round horizon. Very confused swell.
	8	...	...	28.98	36	90	-190	...	St., Cu.-Nb.	10	o s	N. by E.	4	Confused	2	Confused	3	5 0 Sky overcast; wind variable in direction.
	Noon	60 1	146 54 [D.R.]	28.83	34.5	100	-199	...	Nb.	10	o s	N.N.E.	5	Confused	2	Confused	3	8 0 Light continuous snow; heavily overcast.
	4	...	...	28.70	35	100	-195	...	Nb.	10	o s	N.E. by E.	5	N.E. by E.	3	N.E.	3	4 0 Continuous light rain and snow.
	8	...	...	28.67	36.2	100	-213	...	Nb.	10	o m s	N.E.	4	N.E.	3	N.E.	3	8 0 Dull and misty. Continuous drizzling rain and snow.
	Midnight	...	...	28.66	36.7	98	-212	...	Nb.	10	o m	Calm.	0	N.E.	2	N.E.	3	10 20 Rain taking off. Midnight. Mist thick at times and then lifting.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1913. January 8	4	...	...	28-64	35	100	-203	...	Nb.	10	o m	E. by S.	2	Confused	1	N.E.	3	1 0 Light E.N.E. breeze.
	8	...	...	28-59	34.4	98	-194	...	Nb.	10	o m s	S.E.	3	Confused	1	Confused	4	4 0 Wet and misty throughout.
	Noon	61 53½	146 39	28-55	34	95	-185	...	Nb.	10	o s	S.E.	1	...	...	Confused	5	Noon. Continuous light snow.
	4	...	...	28-44	35.8	96	-189	...	Nb.	10	o m r	S.S.E.	1	...	...	Confused	6	4 0 Wind light and very unsteady in direction. Heavy very confused swell; heaviest from S.E. Light rain throughout.
	8	...	...	28-42	35.4	96	-197	...	Nb.	10	o m r	S.E.	3	...	...	Confused	6	8 0 Snow, mist and rain throughout.
	Midnight	...	...	28-36	35	88	-178	...	Nb.	10	o m r	S.S.E.	3	...	...	Confused	6	10 0 Mist clearing off a little.
9	4	...	...	28-38	34.6	100	-200	...	Nb.	10	o m s r	S. by E.	3	S. by E.	2	Confused	6	4 0 Light snow and rain throughout watch, very misty at times. Swell very confused, heaviest from S.E.
	8	...	...	28-39	35	100	-203	...	Nb.	10	o m	S.S.E.	3	S.S.E.	2	Confused	6	4 0 Heavy snow squall lasting about 20 minutes.
	Noon	63 12	146 41	28-40	35	96	-194	...	Nb.	10	o m s	St.	4	St.	2	Confused	5	1 30 Sky breaking. Blue sky in patches.
	4	...	...	28-38	35	90	-182	...	Cu., Cu.-Nb.	9	b c p	S.S.W.	3	S.S.W.	2	S.	4	4 0 Passing snow squalls.
	8	...	...	28-37	33.8	96	-185	...	Nb.	10	o m s	S.	6	S.	4	S.	4	8 0 Frequent snow.
	Midnight	...	...	28-38	33.7	97	-186	...	Nb.	10	o m s r	S.	6	S. by E.	4	S.	5	Midnight. Continuous light rain, snow and hail.
10	4	...	...	28-41	33.4	98	-187	...	Nb.	10	o c m s r	S. by W.	6	S.	4	S.	5	4 0 Very misty at times.
	8	...	...	28-53	34.5	95	-188	...	Nb.	10	o c p	S.E. by S.	4	Confused	3	S.S.E.	4	8 0 Passing snow squalls.
	Noon	64 6	146 40	28-63	34	95	-185	...	Nb.	10	o c s	S.E. by S.	5	S.E. by S.	4	S.E.	4	Occasional snow squalls up till 2 p.m.
	4	...	...	28-73	33.3	97	-183	...	Nb.	10	o m d	S. by E.	5	Confused	4	S. by E.	4	3 30 Mist and drizzling rain.
	8	...	...	28-85	33.8	91	-177	...	Cu.-Nb.	10	o c	S. by E.	4	S. by E.	3	S.S.E.	4	6 0 Observing group of icebergs to S.E.
	Midnight	...	...	28-94	31	96	-164	...	Cu.-Nb., Nb.	10	o c	S.	4	S.	2	S.S.E.	4	Midnight. Passing occasional bergs.
11	4	...	...	29-03	30	100	-166	...	Nb., Cu.-Nb.	10	o c	S. by W.	3	S.	2	Confused	3	4 0 Passing occasional bergs.
	8	...	...	29-12	37	71	-156	Cl.-Cu.	St.	4	b c	S.W.	2	...	...	Confused	1	
	Noon	65 20	146 48	29-15	32.2	96	-174	...	Cu.-St., St.	5	b c	Calm	0	...	...	N.W. by W.	3	1 0 Came up to fairly heavy drift.
	4	...	...	29-15	34.8	84	-168	...	Cu.	4	b c	S.W.	1	...	...	W.N.W.	2	3 0 Open water.
	8	...	...	29-12	32.3	86	-157	...	Cu.	2	b c	S.W. by W.	3	...	...	W.N.W.	1	4 0 Fine and clear throughout.
	Midnight	...	...	29-07	30.8	84	-142	...	Cu.	3	b c	W.	4	...	...	W.N.W.	1	Midnight. Fine and clear throughout.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. January 12	4	...	...	29-03	31.5	70	.134	...	...	0	b	S.W.	1	...	...	W.	1	4 0 Fine and clear throughout.
	8	...	...	28-06	33	80	.149	...	Cu. Nb	2	bc	S.E.	3	...	...	...	...	7 0 Fairly thick drift.
	Noon	66 14	143 37	28-04	31.5	89	.158	...	Cu.-Nb.	10	ocm	E.	5	...	...	...	...	Noon. Passing through drift ice throughout.
	4	...	...	28-03	32	91	.164	...	Cu. Cu.-Nb.	9	bcp	E.S.E.	6	E.S.E.	1	...	...	1 0 Overcast from E., wind freshening.
	8	...	...	28-02	31.5	83	.148	...	Cu.-Nb.	9	bcp	S.E.	8	S.E.	4	S.E.	4	2 0 Heavy drift ice.
	4	...	...	29-06	34.5	66	.132	...	Cu., St.	4	bcq	N.N.E.	3	...	...	N.N.E.	1	3 45 Light snow squall.
	8	...	...	29-08	35.2	74	.152	...	Cu., Nb.	8	bcq	E.N.E.	4	...	...	E.N.E.	1	5 0 Open water. Wind rapidly increasing and swell rising.
	Noon	"	"	29-08	37	66	.144	...	Cu.-Nb. St. Nb.	8	bcq	E. by S.	8	E. by S.	2	...	...	6 0 Frequent snow squalls.
	4	"	"	29-18	36.8	68	.148	...	Cu.-Nb. St. Nb.	10	oq	N.E. by E.	4	...	...	...	...	9 0 Land observed to S.
	8	"	"	29-21	35.5	71	.148	...	Cu.-Nb., St. Cu.	10	ocq	E.N.E.	4	E.	1	...	...	1 50 Anchored at 25 fathoms, Commonwealth Bay. Frequent fierce little squalls, lasting about a minute or two, with small cyclones or driving scud of area from 8 to 10 ft.
	Midnight	"	"	29-19	34.1	74	.146	Cl.	Cu.	2	bc	Calm	0	...	...	...	...	6 0 Very fierce squall.
14	4	"	"	29-15	35	60	.123	Cl.	...	1	bq	S.S.E.	7	S.S.E.	2	...	...	8 0 Very fierce squall. Fierce gusts of wind.
	8	"	"	29-16	31.5	68	.121	...	Cu., St.	1	bq	S.S.E.	8	S.S.E.	3	...	...	8 0 Very squally. Fierce gusts of wind.
	Noon	"	"	29-17	37.6	57	.128	Cl., Cu.	...	1	bcq	S.S.E.	8	S.S.E.	3	...	...	9 0 Wind freshened to fresh gale from E.
	4	"	"	29-11	40.5	60	.152	...	St.	1	bq	S.S.E.	9	S.S.E.	3	...	...	1 0 Wind shifted light into the N.
	8	"	"	29-11	37	62	.135	Cl.-Cu.	...	3	bcq	S.S.E.	9	S.S.E.	3	...	...	5 30 Light snow.
	Midnight	"	"	29-06	30.2	65	.110	...	St.	1	bq	S.S.E.	10	S.S.E.	3	...	...	10 30 Wind dying away and sky cleared.
15	4	"	"	29-04	26.8	66	.096	...	St.	1	bq	S. by E.	10	S. by E.	3	...	...	0 5 Wind springing up.
	8	"	"	29-06	36.1	49	.104	...	Cu.-Nb., Cu. St.	3	bc	W.N.W.	1	...	...	...	...	1 15 Fresh gale from S.E.
	Noon	"	"	28-05	32	64	.115	...	Cu.-St. St. Cu.-Nb.	8	bcq	S.S.E.	7	S.S.E.	2	...	...	8 0 Strong gale with very fierce gusts.
	4	"	"	28-03	34.5	57	.113	...	St. Cu.-Nb.	9	bcq	S.S.E.	4	S.S.E.	1	...	...	9 0 Compass error 2 points E. instead 1 point W. which makes the wind that has been blowing since 4 a.m. this morning S.S.E. instead of S.E. by E.
	8	"	"	28-04	32.8	67	.124	...	St. Cu.-Nb.	7	bc	Calm	0	...	...	...	...	8 0 Thick flying scud.
	Midnight	"	"	28-02	32	69	.124	...	Cu.-Nb.	0	bcq	S.E.	5	S.E.	1	...	...	Midnight. Thick flying scud.
	4	"	"	29-04	26.8	66	.096	...	St.	1	bq	S. by E.	10	S. by E.	3	...	...	6 0 Wind moderating.
	8	"	"	29-06	36.1	49	.104	...	Cu.-Nb., Cu. St.	3	bc	W.N.W.	1	...	...	...	...	7 0 Calm.
	Noon	"	"	28-05	32	64	.115	...	Cu.-St. St. Cu.-Nb.	8	bcq	S.S.E.	7	S.S.E.	2	...	...	9 0 Wind freshening.
	4	"	"	28-03	34.5	57	.113	...	St. Cu.-Nb.	9	bcq	S.S.E.	4	S.S.E.	1	...	...	2 30 Wind moderating.
	8	"	"	28-04	32.8	67	.124	...	St. Cu.-Nb.	7	bc	Calm	0	...	...	...	...	8 10 Breeze from S.E.
	Midnight	"	"	28-02	32	69	.124	...	Cu.-Nb.	0	bcq	S.E.	5	S.E.	1	...	...	

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. January 16	4	Anchorage Commonwealth Bay.		28-95	31	74	·127	...	St.,	10	ocq	S.S.E.	5	S.S.E.	2	...	...	5 30 Wind freshening.
	8			28-99	32-5	74	·137	...	Cu.-Nb.,	9	bcqv	S.S.E.	8	S.S.E.	2	...	...	8 0 Very clear.
	Noon	"	"	29-11	34-5	89	·178	Cl.-St.,	7	bcqv	S.S.E.	5	S.S.E.	2	...	...		
	4	"	"	29-13	35	80	·161	Cl.	8	bc	S.E. by E.	5	S.E.	2	...	...		
	8	"	"	29-22	33	89	·168	...	Cu.-Nb.,	10	oc	S.E.	5	S.E.	1	...	...	10 0 Squally.
	Midnight	"	"	29-24	32	89	·161	...	St.,	10	ocq	S.E.	6	S.E.	2	...	...	
17	4	"	"	29-27	31	96	·165	...	Cu.-Nb.,	10	oc	S.E. by S.	6	S.E. by S.	2	...	...	
	8	"	"	29-33	32-8	91	·170	...	St.,	9	bcq	S.E.	6	S.E.	1	...	...	
	Noon	"	"	29-31	34	95	·185	...	Cu.-Nb.,	10	ocq	S.E.	6	S.E.	2	...	...	
	4	"	"	29-31	35-5	58	·120	Cl.	8	bcq	S.E.	5	S.E.	2	...	...		
	8	"	"	29-30	32-5	64	·118	...	St.,	8	bcq	S.E.	5	S.E.	2	...	...	
	Midnight	"	"	29-28	28	67	·105	...	Cu.-St.,	8	bcq	S.E. by S.	5	S.E. by S.	2	...	...	
18	4	"	"	29-27	26-5	69	·100	...	Nb.,	7	bcq	S.S.E.	6	S.S.E.	2	...	...	8 45 Wind dropping to light.
	8	"	"	29-29	26-5	80	·115	...	Cu.-St.,	8	bcq	S.E. by S.	5	S.E. by S.	2	...	...	11 5 Wind freshening again.
	Noon	"	"	29-33	32	69	·124	...	Cu., St.,	7	bcq	S.S.E.	4	S.S.E.	2	...	...	3 0 Wind increasing slightly.
	4	"	"	29-30	31-5	84	·148	...	Cu.-Nb.	7	bcq	S.S.E.	4	S.S.E.	1	...	...	5 0 Wind dying away.
	8	"	"	29-32	31	89	·154	...	Cu.-St.	10	oc	Calm	...	...	...	...	...	
	Midnight	"	"	29-31	29-2	89	·142	...	Nb.,	10	o	S.S.E.	2	...	...	...	...	11 0 Light breeze from S.S.E.
19	4	"	"	29-29	20-2	95	·104	...	Cu.-Nb.,	1	bcq	S.S.E.	5	S.S.E.	1	...	...	Midnight. Heavily overcast to N.W.
	8	"	"	29-29	24-5	88	·116	...	St.	2	bq	S.E. by S.	6	S.E. by S.	2	...	...	0 30 Breeze making and sky clearing.
	Noon	"	"	29-28	35	80	·161	...	...	...	b	Calm	0	...	...	...	...	
	4	"	"	29-29	36-5	70	·152	...	...	...	b	Var.	1	...	...	...	...	
	8	"	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Bank of St. low on N.W. horizon.
	Midnight	"	"	29-34	26-2	72	·104	...	...	...	b	S.S.E.	3	...	...	...	...	10 0 Wind dropping to light.
20	4	"	"	29-36	22	66	·078	...	St.	1	bq	S.S.E.	5	S.S.E.	1	...	...	2 0 Breeze freshening.
	8	"	"	29-45	26	70	·099	...	...	...	bq	S.S.E.	4	S.S.E.	1	...	...	10 0 Wind dropping; weather clouding over.
	Noon	"	"	29-46	32-7	73	·135	...	Nb., St.	10	oc	Var.	1	...	...	...	...	5 0 p.m. Variable light airs up till 3 p.m.
	4	"	"	29-44	31-5	84	·148	...	Cu.-Nb.,	10	oc	W.	2	...	...	...	...	
	8	"	"	29-45	30	89	·148	...	St.,	10	o	W.	1	...	...	...	...	
	Midnight	"	"	29-43	28-2	86	·133	...	Nb.,	10	o	S.S.E.	2	...	...	...	...	

METEOROLOGY.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. January 21	4			29.43	25.6	88	.124	...	Cu.-Nb., St.	10	o c	S.S.E.	4	S.S.E.	1	...	...	
	8			29.43	26.2	86	.122	...	St., Nb.	10	o	S.S.E.	4	S.S.E.	1	...	...	
	Noon			29.42	32.3	81	.148	...	St., Nb.	9	o	Calm	...	...	...	...	10 0 Wind dying down to light. Noon. Blue sky to S. over land.	
	4			29.41	32.3	97	.176	...	St., Cu.-Nb.	9	o	N.E.	1	...	...	...	7 0 Sky breaking to S.; detached Cu. clouds passing over.	
	8			29.41	32.5	94	.174	...	Fr.-Cu., Cu.-Nb.	9	b c	Calm	...	...	...	...	8 0 Heavy clouds clearing away to N.	
	Midnight			29.41	27	76	.112	...	Cu.-Nb.	10	o c	S.S.E.	3	S.S.E.	1	...	10 30 Breeze from S.S.E. Midnight. Lightly overcast.	
	4			29.40	26	64	.091	...	Nb., Cu.-St.	10	o c q	S.S.E.	4	S.S.E.	1	...	Exceptionally high and low tides for last day or two. One of the stranded bergs in the bay floated away by the high tide during the night.	
22	8			29.42	26	68	.096	...	St., Nb.	10	o s	S.S.E.	5	S.S.E.	2	...	6 0 Very light snow. 8 0 Light snow. Heavy clouds to N.E. Heavy snow drift over land to W.	
	Noon			29.43	28	70	.110	...	St., Nb.	10	o	S.S.E.	5	S.S.E.	2	...	1 0 Breeze moderating.	
	4			29.41	34	66	.129	...	Cl., Cu.-St.	5	b c	S.E.	3	...	...	...	2 30 Clouds breaking and sky clear- ing.	
	8			29.42	28.8	89	.140	...	Cl., Cu.-Nb.	8	b c	S.S.W.	1	...	...	...	3 0 Breeze dropped to light. Ice- bergs setting into bay.	
	Midnight			29.40	26	88	.124	...	St.	10	o	S.S.E.	4	S.S.E.	1	...	6 45 Light snow. 7 30 Cl. clouds to S. 8 0 Occasionally overcast with light snow.	
23	4			29.39	25	87	.118	Cl.	St.	8	b c	S.E.	4	...	...	...	10 0 Breeze freshening. 4 30 Breeze freshening and becoming squally.	
	8			29.41	26	88	.124	...	St., Cu., Cu.-Nb.	9	o c q	S.S.E.	6	S.S.E.	2	...	Breeze gradually freshening throughout morning.	
	Noon			29.41	27.5	89	.134	Cl., Cl.-Cu.	Cu., Cu.-St.	7	b c q	S.S.E.	8	S.S.E.	3	...	Noon. Drift over land.	
	4			29.38	31.4	96	.168	Cl.-Cu.	Cu.-Nb.	9	b c q	S.E.	5	S.E.	2	...	2 0 Wind rapidly moderating.	
	8			29.41	29.9	96	.165	...	Cu., Cu.-Nb., St.	9	o c q	S.E. by E.	4	S.E.	1	...		
	Midnight			29.42	28.7	94	.148	...	Cu.-St.	9	b c	E.S.E.	3	...	...	...		
24	4			29.43	29	92	.147	...	Cu.-St.	10	o c	S.E.	3	...	...	...	9 0 Wind dropped to calm.	
	8			29.45	27	98	.144	...	St.	10	o c	S.S.E.	3	S.S.E.	1	...	11 15 Wind puffy from S.E.	
	Noon			29.40	32	91	.166	...	Cu., St.	4	b c q	S.E.	3	S.E.	1	...	2 0 Wind freshening rapidly.	
	4			29.34	29	100	.159	Cl.-Cu.	St., Cu.-Nb.	7	b c q	S.S.E.	7	S.S.E.	2	...	4 30 Strong gale from S.S.E.	
	8			29.25	30	100	.166	...	Cu.-St., St.	8	b c q	S.S.E.	9	S.S.E.	4	...	8 0 Very fierce squalls.	
	Midnight			29.20	31.2	100	.172	A.-Cu.	St., Cu.-St.	8	b c q	S.S.E.	10	S.E. by S.	5	...	Midnight. Very fierce squalls. Snow drift over land. Fierce gale throughout with very violent squalls.	

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1913. January 25	4	Anchorage Commonwealth Bay.		29-19	25	96	·131	Cl.	Cu., St.	6	b c q	S.E. by S.	11	S.E. by S.	5	...	...	4 0 Furious gale with terrific squalls. 8 0 Gale raging throughout. Air thick with spray and drift off barrier.	
	8	"	"	29-11	23-3	100	·123	Cl., Cl.-St.	...	8	b c q	S.S.E.	11	S.S.E.	5	...	...	9 0 Moderating a little. 2 0 Wind rapidly moderating. 2 45 Gentle breeze.	
	Noon	"	"	29-03	28	100	·153	Cl.-St.	St.	8	b c q	S.S.E.	10	S.S.E.	5	...	...	4 0 Freshening again slightly. 4 30 Wind freshened to hard gale, very violent, gusty.	
	4	"	"	28-99	34	100	·195	Cl.-St.	St.	10	o c q	S.S.E.	3	...	...	...	...	6 30 Wind less violent. 6 45 Slight lull. 7 0 Violent gale again.	
	8	"	"	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Parted cable and stood out to sea.
	Midnight	"	"	28-84	33	85	·159	...	St.	10	o c q	S.S.E.	9	S.S.E.	5	S.S.E.	5	11 0 Gale moderating; making towards Bay again.	
	26	4	"	"	28-93	33	89	·168	...	Nb., St.	9	b c q	S.S.E.	8	S.S.E.	4	S.S.E.	3	Wind always freshening on approaching land. 4 0 Wind varying in force throughout with occasional lulls.
		8	"	"	28-97	32-8	91	·170	...	St., Cu.-Nb.	9	b c q	S.S.E.	3	Confused	1	...	...	6 0 Wind dropping rapidly and coming from all round the compass. Heavy passing storm clouds. Thick snow-drift over land. Peculiar storm cirrus clouds.
		Noon	"	"	29-10	37-2	79	·174	...	Cu., Cu.-Nb.	9	b c q	S.E.	7	S.E.	2	N.	1	7 15 Light puffs of wind from all round the compass; under the barrier; heavy sea outside with strong gale apparently blowing.
		4	"	"	29-16	37	74	·162	...	Cu., Cu.-Nb.	6	b c q	S.E.	6	S.E.	1	...	...	8 15 a.m. Wind freshening from N.N.E. 8 45 a.m. Wind strong again from S.S.E. 9 15 a.m. Pierce gale again from S.S.E.
8		"	"	29-17	35-5	70	·147	...	St., Nb.	9	b c q	S.E.	6	S.E.	2	...	...	10 0 a.m. Moderating again a little. 8 0 p.m. Blue sky over land to S. Very squally.	
Midnight		"	"	29-19	34-4	68	·136	...	St., Nb.	10	o c q	S.E.	6	S.E.	2	N.	1	9 0 Slight northerly swell. Icebergs setting into Bay against wind. Midnight. Very squally. 12 30 a.m. Wind rapidly increasing. 1 20 a.m. Wind backing more to S. Strong gale with violent squalls. 3 0 a.m. Wind dropped; hard gusts at intervals.	

METEOROLOGY.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
				Direction from—	Dis-turbance, 0-10.						Direction from—			Dis-turbance, 0-10.				
1913. January. 27	4	Anchorage Commonwealth Bay.		29-16	36.3	69	-149	...	Cu.-Nb., Cu.-St.	9	bc	S.W.	1	...	...	N.	1	3 20 Calm; then wind shifted light from N.; northerly swell. 5 35 a.m. Wind rapidly increasing again. 5 50 a.m. Full gale again from S.E. 6 30 a.m. Wind moderating again rapidly.
	8	"	"	29-12	33.5	77	-146	...	Cu.-St.	10	ocq	Var.	2	...	...	...	...	8 0 Overcast and wind-swept sky. Wind very puffy; sea running high; and blowing hard outside. 8 30 Wind coming away from N.E. 9 0 Wind in puffs from all round horizon.
	Noon	"	"	28-97	35.5	77	-159	...	Nb., Cu.-Nb.	8	bcq	S.S.E.	9	S.S.E.	4	...	...	11-20 a.m. Sudden fierce squall from S.S.E.
	4	"	"	29-02	37	81	-177	...	Nb., Cu.-Nb.	8	bcs	N.E.	1	...	...	...	...	1 30 p.m. Light snow. Occasional fierce squalls from S.S.E. up till 4 p.m.
	8	"	"	29-14	36	70	-148	...	Cu.-Nb.	10	ocq	E.N.E.	3	E.N.E.	1	...	...	8 0 Calm at intervals.
	Midnight	"	"	29-22	35.6	68	-141	...	St., Cl.-Nb.	9	bcq	E.S.E.	1	E.S.E.	1	E.	1	Midnight. St. clouds over land.
28	4	"	"	29-31	34	80	-155	...	St., Cu.-Nb.	9	bcq	S.S.E.	2	...	...	E.	1	4 0 Occasional puffs from E.S.E.
	8	"	"	29-38	37.5	64	-144	...	St.	10	ocq	S.S.E.	4	S.S.E.	1	...	...	2-3 15 Flat calm; afterwards light breeze.
	Noon	"	"	29-43	40.8	58	-148	...	A.-St., St.	9	bc	Calm.	0	...	...	...	...	10 0 Breeze dying away.
	4	"	"	29-45	38.8	58	-137	...	Cu.	5	bcv	S.S.E.	3	...	...	...	...	3 30 Wind coming out from S.S.E.
	8	"	"	29-46	39.4	56	-135	...	Cu.	3	bc	Var.	2	...	...	...	...	4 0 Very clear weather.
	Midnight	"	"	29-46	34	66	-129	...	Cu., Cu.-Nb.	5	bc	Var.	2	...	...	...	...	...
29	4	Departed Commonwealth Bay.		29-46	31.9	67	-120	...	St.	7	bcq	S.S.E.	4	S.S.E.	2	S.S.E.	1	3 15 Wind freshening from S.S.E.
	8	"	"	29-43	30	67	-112	...	Cu.-St.	5	bcq	S. by E.	8	S. by E.	3	S.S.E.	3	6 0 Wind freshening rapidly.
	Noon	66 53	143 8	29-40	33	68	-128	...	St.	3	bc	S.E.	7	S.E.	3	S.E.	1	...
	4	"	"	29-38	34.2	72	-142	...	St.	1	bc	S. by E.	5	S. by E.	2	...	...	...
	8	"	"	29-39	32	79	-142	...	Cu.-St.	2	bc	S.E. by E.	4	S.E.	1	S.E.	1	10 30 Clouding over. Breeze freshening.
	Midnight	"	"	29-40	28	88	-135	...	Cu.-Nb.	10	oc	S.S.E.	6	S.S.E.	1	S.S.E.	1	...
30	4	"	"	29-42	24.9	88	-119	...	St.	10	oc	S.	6	S.	2	S.	1	3 30 Approaching barrier face.
	8	"	"	29-47	27.6	81	-122	...	Nb.	10	oc	S.S.E.	4	...	...	S.	1	4 0 Overcast throughout. Occasional snow after 4 a.m.
	Noon	67 14 [D.R.]	145 8 [D.R.]	29-50	26	88	-124	...	Nb.	10	o	S.	4	S.	1	...	...	8 0 Heavily overcast.
	4	"	"	29-47	30.2	89	-149	...	St.	8	bc	S.S.E.	4	S.S.E.	2	...	...	2 0 Sky breaking. 3 0 Blue sky in places. 8 0 Heavily overcast. Thick drift on top of barrier.
	8	"	"	29-47	30.5	94	-160	...	St., Cu.-Nb.	10	oc	S.E.	4	...	...	...	...	8 30 Wind freshening.
	Midnight	"	"	29-45	29.1	100	-160	...	St., Nb.	10	oc	S.E.	5	S.E.	1	...	...	9 0 Pack ice on port bow. 10 30 Barrier trending to W.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913 January 31	4	...	...	29.48	29	91	-144	...	St., Nb.	10	oc e	S.S.E.	6	S.S.E.	2	...	...	11 0 p.m. Blocked by pack ice all round.
	8	...	...	29.49	25	95	-129	...	St., Nb.	9	bc	S.S.E.	6	S.S.E.	2	S.S.E.	2	1 45 Wind freshening from S.E.
	Noon	66 57	144 38	29.49	28	95	-146	...	Cl., Cl.-St.	8	bc	S.S.E.	7	S.S.E.	4	S.S.E.	3	10 0 Wind freshening.
	4	...	...	29.45	27.8	93	-141	...	Cl.	2	bc	S.E.	8	S.E.	4	S.S.E.	2	1 0 Sky clearing.
	8	...	...	29.46	30	96	-159	...	Cl.	3	bc	S.E.	3	S.E.	1	S.E.	2	4 0 Very clear.
	Midnight	Standing in and		29.47	24	100	-130	...	Cl.	10	oc	S.S.E.	6	S.S.E.	2	S.S.E.	2	5 0 Wind moderating. Wind rather squally.
February 1	4	out of Common-		29.47	26	100	-141	...	Cl.	5	bc	S.S.E.	6	S.S.E.	3	S.S.E.	2	Midnight. Lightly overcast.
	8	wealth Bay, wait-		29.49	25.2	98	-133	...	Cl.	7	bc	S.S.E.	6	S.S.E.	2	S.S.E.	2	3 0 Headed W.S.W. again back across bay.
	Noon	ing for wind to		29.51	28.2	95	-147	...	Cl.	5	bc	S.S.E.	7	S.S.E.	3	S.S.E.	1	4 0 Wind increasing a little at times. Ni. clouds to E.
	4	moderate.		29.46	28.5	97	-150	...	Cl.	4	bc q	S.S.E.	7	S.S.E.	3	S.S.E.	1	4 0 Wind moderating a little.
	8	"	"	29.41	28.2	98	-151	...	Cu.-Nb.	5	bc q	S.S.E.	8	S.S.E.	3	S.S.E.	2	10 0 Clouds gathering.
	Midnight	"	"	29.35	26.3	96	-137	...	Cu.-Nb.	9	bc q	S.S.E.	9	S.S.E.	4	S.S.E.	2	
2	4	"	"	29.34	26.2	100	-143	...	Nb., St.	10	oc q	S.S.E.	8	S.S.E.	4	S.S.E.	2	Thick drift over land.
	8	"	"	29.38	25	100	-135	...	Nb.	10	oc q	S.S.E.	8	S.S.E.	4	S.S.E.	3	4 0 Weather moderating a little at times.
	Noon	"	"	29.35	25	100	-135	...	Nb., Cu.-Nb.	10	oc q	S.S.E.	10	S.S.E.	5	S.S.E.	3	4 30-5 0 Thick drift coming off shore making land and islands invisible.
	4	"	"	29.34	28	100	-153	...	St., Nb.	10	oc q	S. by E.	10	S. by E.	5	S. by E.	3	4 0 Terrific squalls; very thick drift coming off land to E.
	8	"	"	29.44	29.2	98	-157	...	Cu.-Nb., St.	10	oc q	S.S.E.	9	S.S.E.	4	S. by E.	3	8 0 Gale moderating slightly.
	Midnight	"	"	29.32	28	100	-153	...	Cu.-Nb., St.	10	oc q	S.S.E.	8	S.S.E.	3	S.S.E.	2	Midnight. Barometer readings varying greatly: falling when vessel steams against the wind, rising when steaming with wind.
3	4	"	"	29.32	24.2	97	-128	...	St., Nb.	10	oc q	S.S.E.	9	S.S.E.	4	S.S.E.	2	Midnight. Squalls more frequent.
	8	"	"	29.26	22	100	-119	...	Nb.	10	oc q	S.S.E.	10	S.S.E.	5	S.S.E.	3	2 0 Wind increasing again slightly.
	Noon	"	"	29.18	24.6	100	-133	...	Nb., Cu.-Nb.	10	oc q	S.S.E.	10	S.S.E.	5	S.S.E.	3	4 0 Occasional short lulls.
	4	"	"	29.14	27.2	99	-147	...	St., Nb.	10	oc q	S. by E.	9	S. by E.	5	S. by E.	3	6 0 Wind increasing.
	8	"	"	29.11	28	100	-153	...	Cu.-Nb., St.	10	oc q	S.	10	S. by E.	5	S. by E.	3	8 0 Wind of terrific force; land invisible for snow and spray.
	Midnight	"	"	29.15	30.1	99	-165	...	Cu.-Nb., St.	10	oc q	S.	7	S.	3	S.	2	Noon. Gale raging continuously.
4	4	"	"	29.16	27	76	-112	...	Nb., Cu.-Nb.	10	oc q	S.	9	S.	5	S.	3	1 30 Sky breaking to S.E.; thin streak of blue sky visible.
	8	"	"	29.09	25	75	-101	...	Nb., St.	10	oc q	S.	11	S.	6	S.	4	4 0 Sky breaking to S.; better appearance of weather; gale less violent.
	Noon	"	"	29.05	23	86	-108	...	Nb.	10	oc q	S. by E.	11	S. by E.	6	S. by E.	4	10 0 Wind moderating a little.
	4	"	"	29.04	25.2	80	-109	...	St., Cu.-St.	10	oc q	S.	10	S.	6	S.	5	Midnight. Moderating throughout.
	8	"	"	29.02	25	75	-101	...	St., Cu.-Nb.	10	oc q	S.	8	S.	4	S.	4	12 30 Wind increasing again.
	Midnight	"	"	29.01	22	100	-119	...	Nb., St.	10	oc q	S.	9	S.	5	S.	5	2 0 Numbers of large bergs and a great deal of heavy drift ice coming out of bay.
																		4 0 Gale increasing.
																		8 0 Gale of terrific violence.
																		1 0 Heavy clouds clearing off. Ship gradually getting further out to sea. Sea increasing.
																		3 0 Wind moderating a little, and weather clearing.
																		4 0 Lightly overcast, a little blue sky visible in places.
																		8 0 Blue sky in places.



Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Disturbance, 0-10.	Direction from—	Disturbance, 0-10.		
1913. February 5	4	Standing in and		28-98	20.6	84	-095	...	Nb.,	10	o c q	S. by E.	10	S.	6	S. by E.	5	4 0 Unabating gale throughout.	
	8	out of Common-		28-94	20.5	93	-104	...	Cu.-Nb.,	10	o c q	S. by E.	9	S.	5	S. by E.	4	10 0 Sky breaking to S.	
	Noon	wealth Bay		28-86	23	86	-108	...	Nb., St.	10	o c q	S.	9	S.	4	S.	3	Noon. Lightly overcast. Sun shining through clouds at intervals during afternoon. Occasional lulls up to 2 p.m.	
	4	"	"	28-80	26	88	-124	...	Cu.-Nb.,	10	o c q	S.	10	S.	4	S.	3	4 0 Lightly overcast. Patch of blue sky to S.	
	8	"	"	28-80	26.1	87	-123	...	Cu.-Nb.,	7	b c q	S.	10	S.	5	S.	3	7 50 Gale increasing. Blue sky in places.	
	Midnight	"	"	28-84	25	81	-110	...	Cu.-Nb.,	8	b c q	S.	8	S.	3	S.	2	9 30 Weather moderating and squalls less violent.	
	6	4	"	"	28-85	21	86	-098	...	Cu.-St.	5	b c q	S.	10	S.	5	S.	5	3 0 Wind freshening and sky clearing.
	8	"	"	28-85	21	86	-098	...	...	...	0	b q	S.	11	S.	6	S.	6	4 0 Furious gale, with terrific squalls.
	Noon	"	"	28-88	25.5	88	-122	...	...	...	0	b q	S. by E.	10	S. by E.	6	S. by E.	5	8 0 Hurricane squalls.
	4	"	"	28-90	27	88	-129	...	Cu.,	4	b c q	S. by E.	8	S. by E.	5	S. by E.	3	Noon. Bank of St. to S.E.	
8	"	"	28-92	26.5	86	-124	...	Cu.-St.	9	o c q	S.S.E.	9	S.S.E.	4	S.S.E.	3	12-1 0 Very squally with comparative lulls between; afterwards steady gale.		
Midnight	"	"	28-93	23.2	97	-122	...	Cu.-Nb.,	9	o c q	S.S.E.	9	S.S.E.	4	S.S.E.	4	1 30 Cu.-St. clouds passing.		
7	4	"	"	28-89	19	100	-105	...	Cu.-St.	10	o c q	S.S.E.	10	S.S.E.	5	S.S.E.	5	3 0 Wind moderating a little, and steadier.	
	8	"	"	28-91	20.7	91	-102	...	Cu.-Nb.,	5	b c q	S.S.E.	9	S.S.E.	4	S.S.E.	4	9 0 Squalls more frequent. Clouds stationary.	
	Noon	"	"	28-88	24	84	-110	...	Cu.-St.	0	b q	S.S.E.	9	S.S.E.	5	S.S.E.	4	10 45 Squalls more violent.	
	4	"	"	28-93	24	94	-122	...	...	0	b q	S.S.E.	8	S.S.E.	4	S.S.E.	3	4 0 Terrific squalls throughout.	
	8	"	"	28-88	21	86	-098	...	Cl.,	3	b c q	S.S.E.	8	S.S.E.	4	S.S.E.	4	5 0 Clouds clearing off.	
	Midnight	"	"	28-90	20.3	96	-106	...	Cl.-St.	5	b c q	S. by E.	8	S. by E.	3	S. by E.	2	10 0 Sky clearing of clouds.	
	4	"	"	28-95	18.5	92	-095	...	Cl.-St.	3	b c q	S. by E.	7	S. by E.	3	S. by E.	2	1 0 Wind very squally, dropping to gentle breeze for 1 minute, then terrific squalls lasting for a minute or two.	
	8	"	"	28-91	21.5	80	-092	...	Cu.	1	b c q	S.S.E.	6	S. by E.	2	N.	1	4 0 Wisps of Cl. overhead and bank of St. to S.E.	
	Noon	66 57 112 35	Departed from Commonwealth B.		29-06	26	...	...	Cl.	1	b c	N.W.	1	...	...	N.	1	9 30 Very fierce squalls.	
	4	"	"	29-08	25.5	69	-095	...	Cu.-Nb.,	10	o c	Calm	0	...	...	N.	1	11 0 Frequent lulls.	
8	"	"	29-07	24	74	-096	...	Cl.	5	b c	W.S.W.	2	...	...	...	...	1 0 Squalls less frequent and less violent.		
Midnight	"	"	29-06	26.2	86	-122	...	Nb.	10	o m s	S.	1	...	...	...	...	4 0 Lulls longer, less drift over land. St. low to N.		
				29-08	25.5	69	-095	...	Cu.-Nb.,	10	o c	Calm	0	...	...	N.	1	8 0 Gentle breeze.	
				29-07	24	74	-096	...	Cu.-Nb.,	5	b c	W.S.W.	2	...	...	...	...	9 45 Variable light airs.	
				29-06	26	...	...	Cl.	1	b c	N.W.	1	...	...	N.	1	10 0 Breeze again from S.S.E.		
				29-08	25.5	69	-095	...	Cu.-Nb.,	10	o c	Calm	0	...	...	N.	1	11 30 Full ahead N. out of bay.	
				29-07	24	74	-096	...	Cu.-Nb.,	5	b c	W.S.W.	2	...	...	...	...	1 30 Heavy Nb. clouds coming up from S.	
				29-06	26.2	86	-122	...	Nb.	10	o m s	S.	1	...	...	...	...	2 45 Overcast, and land invisible.	
				29-07	24	74	-096	...	Cu.-Nb.,	5	b c	W.S.W.	2	...	...	...	...	8 0 Heavy passing clouds.	
				29-08	25.5	69	-095	...	Cu.-Nb.,	10	o c	Calm	0	...	...	N.	1	9 10 Breeze from the S.	
				29-06	26.2	86	-122	...	Nb.	10	o m s	S.	1	...	...	...	...	9 30 Weather becoming thick, heavily overcast and snow setting in.	
				29-06	26.2	86	-122	...	Nb.	10	o m s	S.	1	...	...	...	...	Midnight. Mist occasionally lifting.	

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. February 9	4	...	...	29.06	28	77	-117	...	Nb.	10	os	S.E. by S.	4	S.E. by S.	2	S.E.	1	1 30 Wind freshening from S.S.E.; weather becoming clearer.
	8	...	...	29.06	26	76	-108	...	Cu.-Nb., Nb.	10	ocq	S.	6	S.	2	S.	2	4 0 Continuous light snow throughout.
	Noon	...	...	29.06	25	75	-101	...	Cu.-Nb.	10	ocq	S.S.E.	8	S.S.E.	3	S.S.E.	2	8 0 Occasional snow squalls. Wind gradually freshening.
	4	...	...	29.07	24.5	81	-107	...	Cu.-Nb.	10	ocq	S. by E.	8	S. by E.	4	S. by E.	3	Noon. Off Main Base.
	8	...	...	29.06	26.6	81	-117	...	Cu.-Nb., St.	10	oce	S.S.E.	5	S.S.E.	2	S.S.E.	2	6 0 Wind and sea increasing.
	Midnight	...	...	29.00	26.6	96	-139	...	St., Nb.	10	ocs	S.	4	S.	1	S.S.E.	2	6 30 Wind rapidly moderating.
10	4	...	...	28.95	27.5	92	-138	...	Nb., Cu.-Nb.	10	oce	S.	3	S.	1	S.	1	8 0 Very damp weather.
	8	...	...	28.89	28.2	86	-133	...	Nb., Cu.-Nb.	10	oc	S.E. by E.	3	...	...	S.E.	1	10 15 Light snow set in.
	Noon	65 53	142 48	28.83	27.2	89	-132	...	Nb.	10	oc	E. by S.	2	...	...	...	...	Midnight. Snow taking off.
	4	...	...	28.75	27.5	94	-141	...	Cu.-Nb.	10	oc	S.E. by E.	3	S.E. by E.	1	S.E.	1	2 30 Passed very large berg. several miles in area.
	8	...	...	28.78	29	95	-151	...	Cu.-Nb.	10	ocp	S.E. by E.	3	S.E. by E.	1	S.E.	1	4 0 Damp weather; passing numbers of bergs and a little drift ice.
	Midnight	...	...	28.88	30.2	90	-151	...	Cu.-Nb.	10	oc	S.S.W.	4	Confused	1	Confused	3	4 30 Encountered line of heavy pack ice.
11	4	...	...	29.00	31.8	83	-148	...	Cu.-Nb.	10	oce	S.W.	6	S.W.	3	S.W.	3	8 0 Pack trending to N.E. Lightly overcast.
	8	...	...	29.06	32.1	90	-163	...	Cu.-St.	3	bc	S.W.	6	S.W.	3	W.S.W.	5	9 30 Entered pack ice.
	Noon	64 23	140 53	29.11	31.5	92	-164	...	Cu.	5	bc	S.W.	7	S.W.	4	Confused	6	11 0 Overcast.
	4	...	...	29.16	31.2	88	-154	...	Cu.	4	bc	S.W. by W.	6	W.S.W.	3	Confused	7	Noon. In pack ice.
	8	...	...	29.20	31	89	-154	...	Cu.	6	bc	S.W. by W.	5	S.W.	3	Confused	7	6 50 Cleared heavier pack.
	Midnight	...	...	29.25	31	89	-154	...	St.	1	b	S.W. by W.	4	S.W. by W.	1	Confused, W.	6	4 0 Very damp atmosphere. Passing to E. of huge barrier berg.
12	4	...	...	29.26	30	91	-151	...	Cu.	8	bc	W.S.W.	4	W.S.W.	2	Confused, W.	5	5 30 Snow and thick weather.
	8	...	...	29.26	31	89	-154	...	Cl.	4	bc	W.S.W.	4	W.S.W.	1	Confused, W.	4	7 30 Snow taking off.
	Noon	64 21	138 39	29.25	30.5	94	-160	...	Cu.	8	bc	S.W.	4	S.W.	1	W. by S.	4	9 30 N. end of barrier; berg abeam.
	4	...	...	29.27	30.6	96	-162	...	Cl.	4	bc	S.W. by S.	4	S.W.	1	N.W.	4	Midnight. Overcast throughout. Passing scattered bergs.
	8	...	...	29.36	30.5	94	-160	Alt.-Cu.	Cu.-St.	9	bc	W.S.W.	4	W.S.W.	1	Confused	3	2 0 Wind freshening and sky breaking overhead.
	Midnight	...	...	29.40	31	100	-173	...	Cu.-Nb.	10	oc	S.W.	5	S.W.	1	Confused	4	3 0 Overcast again.
																		4 0 Very wet atmosphere.
																		6 0 Sky clearing. Swell increasing.
																		1 30 Swell very high and confused, from S.W., W., and W.N.W.
																		2 0 Wind moderating.
																		4 0 Heaviest swell from W.N.W.
																		8 0 Breeze moderating steadily.
																		10 0-Midnight. Lights of aurora on N. horizon.
																		Midnight. Stars very clear.
																		2 0 Clouding over.
																		10 30 Clouding over.
																		9 0 Overcast with heavy clouds.
																		10 45-11 30 Light snow.
																		0 30 Heavy clouds clearing off, blue sky with passing clouds.
																		1 0 Fine aurora effect right across sky from N.W. to S.E.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. February 13	4	...	...	29.43	29.1	99	.158	Cl., Cl.-Cu.	Cu., Cu.-Nb.	7	bc	S.W. by W.	6	S.W.	2	W.	4	4 0 Heavy clouds all round horizon. No bergs passed since mid- night. Wind freshening.
	8	...	...	29.44	29.1	96	.152	...	Cu., Cu.-Nb.	10	oc	S.W. by W.	6	S.W. by W.	2	W.	5	5 0 Overcast. 9 0 Sky clearing.
	Noon	64 31	135 35	29.46	29.1	100	.160	...	Cu.-Nb.	10	oc	S.W. by W.	6	S.W. by W.	3	W.	5	11 30 Clouding over again. Noon. Pack ice observed on port bow.
	4	...	...	29.46	29.2	99	.158	...	Cu.	4	bc	S.W. by W.	5	S.W. by W.	2	W.	5	4 0 Fine and clear throughout.
	8	...	...	29.42	28.4	96	.148	...	Cu.-St., Cu.-Nb.	6	bc	S.W. by W.	4	S.W. by W.	2	W.	5	6 30 Pack trending to S.S.W.
	Midnight	...	...	29.34	28.1	99	.152	...	Cu.	3	bcw	W.S.W.	4	W.S.W.	1	W.	4	Midnight. Fine and clear; breeze mo- derating throughout. Passing occasional bergs.
14	4	...	...	29.24	27.2	100	.148	...	Cu., St.	1	bcw	W.S.W.	3	W.S.W.	1	W.	3	4 0 Fine and clear throughout.
	8	...	...	29.19	28.2	100	.154	...	Cu.	1	bc	S.W. by W.	3	S.W. by W.	1	W.	2	8 0 No ice since 6 a.m.
	Noon	64 33	131 50	29.13	29.5	95	.154	...	Cu.	1	b	S.	1	...	...	W.	2	1 0 Wind veering to E. and freshen- ing. Sky getting covered with Cl. and Cl.-St. clouds.
	4	...	...	29.10	29	98	.156	Cl., Cl.-St.	...	8	bc	E. by S.	4	E. by S.	2	W.	1	
	8	...	...	29.10	30.5	89	.151	Cl., Cl.-St.	...	9	bc	E.	5	E.	2	Confused	2	8 0 Very ugly looking sky; dark on N. horizon.
	Midnight	...	...	29.04	30.1	77	.129	...	Nb.	10	om	E.	6	E.	4	E.	4	9 45 Overcast.
15	4	...	...	29.00	29.2	98	.157	...	Nb.	10	oms	E.	7	E.	5	E.	5	1 30 Light driving snow set in. Mist increasing.
	8	...	...	29.02	30	100	.166	...	Nb.	10	omsq	E.	8	E.	5	E.	5	4 0 Continuous snow throughout. 8 0 Continuous snow throughout.
	Noon	64 39 [D.R.]	124 52 [D.R.]	28.90	31.5	100	.170	...	Nb.	10	omsq	E.	8	E.	6	E.	6	Noon. Light snow and thick weather throughout.
	4	...	...	28.86	33.5	94	.181	...	Nb.	10	ocq	E. by N.	7	E. by N.	6	E. by N.	7	1 30 Continuous snow taking off, and weather clearing. Clouds breaking a little. Snow squalls up till 2.30.
	8	...	...	28.82	34	92	.180	...	Nb.	10	ocp	E. by N.	7	E. by N.	5	E. by N.	7	4 0 Passing occasional pieces of drift ice.
	Midnight	...	...	28.80	33	100	.187	...	Nb.	10	omes	E. by N.	7	E. by N.	5	E. by N.	7	8 0 Passing snow squalls and mists. 10 0 Thick mist and continuous snow and sleet set in.
16	4	...	...	28.83	33.5	96	.183	...	Nb.	10	ocp	E.N.E.	5	E.N.E.	4	E.N.E.	6	Midnight. No ice sighted during watch. 1 0 Wind and sea moderating, weather clearing and con- tinuous snow taking off. Frequent heavy snow squalls up till 2 a.m.
	8	...	...	28.84	34.4	96	.189	...	Cu.-Nb.	9	oc	E.N.E.	6	E.N.E.	4	E.N.E.	6	4 0 No ice during watch. Occa- sional snow squalls.
	Noon	64 52	118 8	28.84	36.5	85	.183	Cl.	Cu., Cu.-Nb.	5	bc	E. by N.	6	E. by N.	4	E.N.E.	5	7 30 Sky breaking a little; blue sky showing.
	4	...	...	28.83	35.2	80	.163	...	Cu., Cu.-Nb., Nb.	7	bc	E. by N.	6	E. by N.	4	E.N.E.	4	1 45 Clouding over from N.W.
	8	...	...	28.79	34	91	.179	...	Nb.	10	ocms	E. by N.	5	E. by N.	4	E.N.E.	4	4 0 Dirty appearance to N.W., with heavy Nb. clouds.
	Midnight	...	...	28.80	33	100	.187	...	Nb.	10	ocms	E.N.E.	6	E. by N.	3	E.N.E.	3	8 0 Frequent snow and mist; clearing at times. Sea moder- ating rapidly. Midnight. Misty weather with drizzling rain and snow throughout.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. February. 17	4	...	...	28-83	32	100	-180	...	Nb.	10	ocmp	N.E. by E.	5	Confused	2	Confused, E.	2	3 0 No ice during watch. Passed to N. of iceberg.
	8	...	...	28-88	32.4	96	-175	...	Nb.	10	ocmp	N.E. by E.	4	N.E. by E.	2	Confused, E.	2	4 0 Frequent snow throughout. 7 0 Sunshine through light clouds. 8 0 Passing snow squalls throughout.
	Noon	64 26	111 32	28-93	32.8	92	-173	...	Nb.	10	os	E.N.E.	4	E.N.E.	2	Confused, E.	2	10 40 Heavy snow. Noon. Heavy snow taking off.
	4	...	...	28-98	34	89	-174	...	Nb.	10	ocp	E. by N.	5	E. by N.	2	Confused, E.	2	2 0 Continuous snow taking off; afterwards passing snow squalls and misty; otherwise fairly clear. Passed to S. of two bergs.
	8	...	...	29-02	33.5	94	-181	...	Cu.-Nb.	10	oc	E.S.E.	4	E.S.E.	1	Confused, E.	2	8 30 Little blue sky to S.
	Midnight	...	...	29-05	35	82	-165	...	Nb.	10	ocmp	E.	3	E.	1	S.E.	2	9 0 Heavily overcast with frequent snow squalls. 10 15-11 10 Thick, misty.
18	4	...	...	29-08	35.4	87	-179	...	Nb.	10	oc	E.	3	E.	1	E.S.E.	2	4 0 Overcast throughout. Passing occasional bergs.
	8	...	...	29-14	36	77	-163	...	Cu., Cu.-Nb.	10	oc	E. by S.	3	E.	1	S.E. by E.	2	8 0 Overcast throughout with passing clouds.
	Noon	64 25	105 14	29-16	35	88	-178	...	Cu., Nb., St.	6	bc	E. by S.	4	E.	2	E.S.E.	2	11 0 Clouds clearing off. Noon. Heavy clouds clearing away to N.E.
	4	...	...	29-16	35	91	-184	...	Cu.-Nb.	10	ocp	E. by S.	5	E. by S.	2	E.	2	1 30 Overcast again. 2 45 Thick snow squall.
	8	...	...	29-17	35	88	-178	...	Cu.-St., Cu.-Nb.	9	ocp	E.	4	E.	1	E.	2	4 0 Passing scattered bergs. Thick at times with passing mists and snow squalls.
	Midnight	...	...	29-17	34.2	96	-188	...	Cu.-Nb. Nb.	9	ocp	E.	5	E.	2	E.	2	8 0 Passing snow squalls. 11 0 Wind freshening and sky clearing a little. Stars visible to N.W. Passing occasional bergs.
19	4	...	...	29-17	34	89	-174	...	Nb., Cu.-Nb.	10	ocp	E.	4	E.	2	E.	2	3 45 Light snow squall; otherwise no snow during watch. Bergs more frequent.
	8	...	...	29-20	31.1	92	-161	...	Nb.	10	ocp	E. by S.	5	E.	1	E.	2	8 40 Heavy pack ahead; frequent light snow squalls.
	Noon	63 52	100 6	29-19	30.7	92	-158	...	Cu.-Nb., Nb., Cu.-Nb.	10	ocp	E.S.E.	4	E.S.E.	1	E.	2	Noon. Skirting pack ice to N.E. throughout.
	4	...	...	29-21	32	84	-152	...	Nb., Cu.-Nb.	10	oc	E.N.E.	2	...	...	E.	1	12 30 Sky clearing. Passing Cl. and Cl.-Cu. clouds.
	8	...	...	29-21	30.3	97	-162	Cl.-Cu.	Cu.-Nb., St.	6	bc	E.	1	...	...	E.	1	3 0 Clouded over from N. 4 0 Skirting pack ice throughout. Passing numbers of bergs.
	Midnight	...	...	29-21	31.2	99	-154	...	Nb., St.	10	oc	E. by S.	2	...	...	N.E.	1	4 15 Sky clearing again. Passing numbers of bergs throughout. Skirting pack to N.W. until 10 p.m., when owing to darkness stood away to N.N.W. at slow speed.

METEOROLOGY.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1913. February 20	4	...	...	29-22	32	90	-163	...	Cu., Cu.-Nb., Nb.	9	o c w	S.E. by E.	3	S.E.	1	E.	1	4 0 Clear weather throughout. Clear weather throughout. Blink to S. Water sky to W.	
	8	...	...	29-25	31.3	97	-169	...	Cu.-Nb. Cu.-Nb.	10	o c	E. by S.	3	...	...	...	...	8 0 Passing numbers of bergs throughout. Heavily overcast.	
	Noon	63 19	97 20 [D.R.]	29-27	31	95	-164	...	Nb.	10	o	E.	3	E.	1	...	...	Noon. Heavily overcast throughout. Pack ice to S.	
	4	...	...	29-33	31	91	-157	...	Nb., St.	10	o c	E. by S.	2	E. by S.	1	...	...	2 15 Entered pack ice to S. 3 0 Pack too heavy, made N. again. 4 0 Open water. 7 0 Light snow. Working along pack to W.	
	8	...	...	29-32	30.4	96	-161	...	Nb., Cu.-Nb., St.	10	o c s	E.	3	...	...	...	...	8 0 Continuous light snow. 9 10 Snow squalls. Numbers of bergs.	
	Midnight	...	...	29-31	30	100	-166	...	Cu.-Nb.	10	o c	E.	2	...	...	E.	1	Midnight. Clear weather. No snow since 10 p.m.	
	21	4	...	...	29-33	28	100	-153	...	Cu.-Nb., Cu.-St.	9	o c	E.S.E.	1	...	...	...	...	4 0 Cloudy weather, but fine and clear throughout. Broken sky to S.E. Passing clouds overhead.
		8	...	...	29-34	27.7	90	-135	...	...	...	f	E.S.E.	1	...	...	...	...	6 0 Thick fog suddenly. 9 0 Fog lifting.
		Noon	63 12	95 9	29-33	29.5	89	-145	...	St., Cu.	4	b c	S.E. by E.	3	S.E.	1	...	...	9 30 Clear weather. Noon. Fine and clear weather. Making way through drift ice.
		4	...	...	29-35	30.5	92	-157	...	Cu.-Nb., Cu.	8	b c	E.S.E.	3	E.S.E.	1	...	...	0 30 Clouding over and breeze fresh-ening a little.
8		...	...	29-39	28	100	-153	...	Cu.-Nb., Cu.	10	o c	E.S.E.	5	...	...	...	...	4 0 Dark ugly-looking sky all round horizon. Pack ice getting looser.	
Midnight		...	...	29-39	25	87	-118	...	Cu.-St.	1	b c	E.S.E.	4	E.S.E.	1	...	...	8 0 Passing through broken pack throughout. 11 0 Clouds clearing off. Stars very bright.	
22	4	...	...	29-37	26	88	-124	Cl.	St.	4	b c	S.E.	5	S.E.	1	...	...	0 30 Faint aurora lights visible to N. 1 30 Clouding over from S.E. Wind freshening.	
	8	...	...	29-30	28	88	-135	...	Nb.	10	o c	S.E.	7	S.E.	2	...	...	2 30 Sky clearing again. 4 0 Making way through heavy flocs to S.	
	Noon	64 20	95 17	29-15	26.8	90	-131	...	Nb.	10	o c s	S.E. by S.	8	S.E. by S.	2	...	...	4 30 Wind freshening. 7 18 Overcast. 8 0 More open water. 8 50 Light snow.	
	4	...	...	29-14	31.5	92	-164	...	Nb.	10	o c	E.S.E.	7	E.S.E.	3	S.S.E.	3	Noon. Continuous light snow through-out. Lightly overcast with sunshine through clouds.	
	8	...	...	29-24	32	100	-180	...	Nb.	10	o s m	E. by S.	7	E.	3	S.E.	4	1 0 Open water and snow taking off. Wind veering to E. Scattered bergs and drift ice about. Swell coming up from S.	
	Midnight	...	...	29-34	27	100	-147	...	Nb.	10	o c q s m	E.S.E.	8	E. by S.	3	S.E.	4	4 0 Bergs more numerous. Glass rising.	
	4	...	...	29-14	31.5	92	-164	...	Nb.	10	o c	E.S.E.	7	E.S.E.	3	S.S.E.	3	8 30 Gale freshening. Numbers of bergs and a lot of drift about.	
	Midnight	...	...	29-34	27	100	-147	...	Nb.	10	o c q s m	E.S.E.	8	E. by S.	3	S.E.	4	Midnight. Continuous light drifting snow throughout. Continuous light drifting snow, taking off towards 4 a.m. S.E. swell moderating.	

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. February 23	4	...	...	29.42	24	98	.132	...	Nb.	10	o q s	E.S.E.	8	E.S.E.	3	S.E.	1	4 0 Better appearance of weather. Open water throughout watch with no bergs passed. Occasional drift ice. Strong blink to S.W.
	8	...	...	29.45	24.3	91	.118	...	Nb., St.	10	o c	E.S.E.	5	E.S.E.	2	S.	1	4 30 Came up with Shackleton Glacier.
	Noon	At anchor, Westrn Base.		29.41	25	77	.104	...	Nb., St.	10	o c	E. by S.	3	...	...	...	...	8 0 Following down under lee of Glacier to S.
	4	...	...	29.37	25.8	77	.108	Cl.-St.	...	10	o.	E.S.E.	3	...	...	...	...	11 0 Came up with Second Base.
	8	...	...	29.32	20.8	74	.084	...	St.	10	o	E.S.E.	3	...	...	...	...	2 0 All fast alongside ice floe.
	Midnight	...	...	29.23	23.6	66	.084	...	St.	10	o	E.	5	E.	1	...	...	4 0 Lightly overcast with sun shining through light clouds. Strong halo round sun during afternoon.
		...	...															9 0 Cast off and proceeded north at full speed along barrier.
		...	...															Midnight. Wind freshening slightly. Open water throughout.
24	4	...	...	29.18	19.5	78	.083	...	St.	10	o	E.	6	E.	3	Confused	1	Halo round moon. Lightly overcast.
	8	...	...	29.17	19.7	89	.097	Cl.-Cu.	St.	7	b c	E.	5	E.	2	...	...	1 0 Wind and sea increasing.
	Noon	64 58½	94 52	29.17	23.5	71	.087	Cl.-St.	St.	10	o c	E.	6	E.	3	N.E.	1	4 0 Open water throughout.
	4	...	...	29.16	23	86	.108	...	St.	10	o c	E. by S.	5	...	...	...	...	8 0 Passing scattered bergs.
	8	...	...	29.14	25.2	91	.125	...	Cu.-Nb.	10	o c	E.	4	...	...	...	...	Noon. Lightly overcast, with sunshine through clouds throughout. Numbers of bergs about.
	Midnight	...	...	29.11	27	100	.147	...	Nb.	10	o c s	E.S.E.	4	...	...	...	...	4 0 Entered loose pack ice. Lightly overcast throughout.
		...	...															10 0 Becoming heavily overcast.
		...	...															10 40 Snow set in.
		...	...															Midnight. Broken pack and heavy drift ice throughout.
25	4	...	...	29.09	27	100	.147	...	Nb., Cu.-Nb.	10	o c	E.S.E.	2	...	...	...	...	Moon faintly visible at times.
	8	...	...	29.09	27.6	89	.134	...	St., Cu.-Nb.	10	o c	E.N.E.	3	...	...	...	...	0 30 Snow taking off, afterwards occasional damp mists.
	Noon	63 16 [D.R.]	94 39 [D.R.]	29.10	29.9	79	.131	...	Cu.-Nb.	10	o c	S.	1	...	...	...	...	4 0 Heavy drift throughout.
	4	...	...	29.16	31	83	.143	...	Cu.-Nb.	10	o c s	S.	2	...	...	...	...	7 0 Open water.
	8	...	...	29.21	30	86	.142	...	Cu., Cu.-Nb.	10	o c s	W. by S.	3	...	...	Confused	1	8 0 Passing scattered bergs.
	Midnight	...	...	29.26	31.3	72	.134	...	Cu.-Nb.	10	o c	S.W. by S.	4	S.W. by S.	1	S.W.	2	Noon. Passing numerous scattered bergs throughout morning. Very light snow occasionally.
		...	...															4 0 Light snow. Bergs less numerous.
		...	...															8 0 Snow at intervals.
		...	...															Midnight. Passing numerous bergs.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.		
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.				
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.					
1913. February 26	4	...	...	29-29	31	74	-127	...	Cu.-Nb.	10	oc	S.W.	4	S.W.	1	W.S.W.	1	4 0	Passing numerous bergs through out.	
	8	...	...	29-37	31	93	-162	...	Cu.-Nb.	9	oc	S.W. by S.	5	S.W.	2	S.W.	1	8 0	Overcast throughout. Great numbers of bergs. Lightly overcast.	
	Noon	60 32 [D.R.]	95 16 [D.R.]	29-41	31.1	90	-156	...	Nb., Cu.-Nb.	10	oc p	S.W. by S.	5	S.W.	2	S.W.	1	11 15	Heavy storm clouds working up from S. Snow.	
	4	...	...	29-45	32	89	-161	...	Nb., Cu.-Nb.	10	ocs	S.W. by S.	5	S.W.	3	S.W.	2	Noon.	Frequent snow. Still passing numbers of icebergs.	
	8	...	...	29-50	33	80	-149	...	Nb., Cu.-Nb.	9	oc	S.W. by S.	5	S.W.	1	S.W.	2	4 0	Light snow throughout, heavy at times. Sunshine through clouds at intervals. Bergs less numerous.	
	Midnight	...	...	29-53	33	89	-168	...	Cu., Cu.-Nb.	8	bc	N.W.	4	Confused	1	Confused	1	11 50	Wind backed into N.W. Sky clearing.	
																		Midnight.	Passing occasional bergs throughout.	
																			1 0	Lights of aurora, very fine, shooting up from cloudbanks round the S. and W. horizon across clear sky of zenith, and fading away to N.E. Curtain formation also visible in zenith at certain times with pale green and pink colours.
																			1 30	Clouding over. Wind veering a little towards 4 a.m.
	27	4	...	...	29-53	32.1	100	-181	A.-Cu.	Cu.-St., Cu.-Nb.	8	bc	W.N.W.	4	W.N.W.	2	N.W.	3	4 0	Passing occasional bergs through out.
8		...	...	29-54	34	93	-183	...	Cu.-St.	3	bc	N.W. by N.	4	N.W. by N.	1	W.	2	8 0	Lightly overcast until 7-15 a.m., when sky cleared. Passing very occasional bergs.	
Noon		58 14	96 59	29-53	35.5	93	-192	A.-Cu.	Cu.-St., St.	5	bc	N.W. by N.	3	N.W. by N.	...	W.N.W.	2	Noon.	Occasional bergs.	
4		...	...	29-50	38.5	74	-172	...	Cu., St.	3	bc	N.N.E.	1	...	...	N.W. by W.	3	4 0	Clouds low round horizon. One or two bergs in sight on horizon.	
8		...	...	29-50	35	80	-161	...	Cu.	3	bc	N.E.	3	...	...	W.N.W.	2	10 p.m.—Midnight.	Aurora effects to S.	
Midnight		...	...	29-49	34.3	78	-154	...	Cu.	5	bc	E.N.E.	3	...	...	W.N.W.	1	Midnight.—3-15.	Aurora effects to S.	
28	4	...	...	29-49	34	80	-155	...	Cu.	2	bc	E. by S.	2	...	...	Confused	1	4 0	Passed three bergs during watch. Fine and clear throughout.	
	8	...	...	29-51	35.2	78	-159	Cl.	Cu.	2	bc	E. by S.	4	E.	1	Confused	2	8 0	No ice since 4 a.m.	
	Noon	56 15	98 56	29-52	37.2	69	-153	Cl.-Cu.	Cu., St.	3	bc	E.	4	E.	2	N.	2	Noon.	No ice seen during watch.	
	4	...	...	29-52	38.2	70	-161	...	Fr.-Cu.	9	bc	E. by N.	2	...	...	N, Confused.	4	1 45	Long tail of Cl. stretching across sky from N.N.W. Swell increasing.	
	8	...	...	29-49	37	81	-177	...	Cu.-Nb., St.	10	oc	N.N.E.	3	...	...	N.	4	2 0	Clouding over from N.W.	
	Midnight	...	...	29-40	36	90	-190	...	Cu.-Nb.	10	oc	N.	4	N.	1	N.	4	4 0	Blue sky between clouds. Heavy dark clouds, low on horizon to W.	
																		7 45	Passed small iceberg.	
																		10 40	Wind veered into N.	

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Table XII.—SECOND ANTARCTIC VOYAGE—continued.  
METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
				Direction from—	Dis-turbance, 0-10.						Direction from—			Dis-turbance, 0-10.				
1913. March 1	4	...	...	29.28	34	100	-195	...	Nb.	10	os	N. by W.	4	N.	2	N.N.W.	4	2 45 Snow and rain.
	8	...	...	29.05	36	94	-198	...	Nb.	10	o q p	N.W. by N.	6	N.W. by N.	3	N.N.W.	4	4 0 Heavily overcast throughout.
	Noon	54 37	100 20	28.91	37	95	-208.	...	Cu.-Nb., St., Cu.	8	b c q	W.	6	W.	3	N.W.	4	8 0 Snow and rain at times.
																		10 30 Sky clearing to W. Blue sky with passing clouds. Wind veering into W. and freshening slightly.
	4	...	...	28.86	37.4	86	-192	...	Nb.	10	o c p	W.	7	Confused	4	N.W. by W.	5	Wind and sea increasing during the afternoon.
	8	...	...	28.82	37.2	98	-217	...	Cu.-Nb. Nb.	10	o c p	W.	7	W.	4	W.N.W.	6	2 30 Set in overcast.
	Midnight	...	...	28.80	36.8	96	-208	...	Nb.	10	o c p	W.S.W.	7	Confused	4	W. by N.	7	4 0 Occasional rain.
2	4	...	...	28.85	37	95	-208	...	Nb.	10	o c p q	W.S.W.	7	W.S.W.	5	W.	7	8 0 Frequent rain throughout.
	8	...	...	28.92	37.3	87	-194	...	Cu., Nb., Cu.-Nb.	9	o c p q	S.W. by W.	7	W.S.W.	6	W.	8	9 30 Wind veering.
	Noon	53 51	105 38	28.97	37.7	84	-189	...	Cu., Cu.-Nb.	7	b c q	S.W.	8	S.W.	6	W.S.W.	8	Midnight. Moon occasionally visible through clouds.
	4	...	...	29.08	38.5	92	-213	...	Cu., Cu.-Nb.	9	o c q	S.W.	7	Confused,	6	W.S.W.	7	4 0 Frequent rain. Moon and stars occasionally showing up between rain squalls.
	8	...	...	29.06	37.3	79	-175	...	Cu., Cu.-Nb.	10	o c	W. by S.	4	Confused	2	W.S.W.	5	8 0 Similar conditions.
	Midnight	...	...	28.93	35	100	-203	...	Nb.	10	o r q	N. by W.	5	Confused	3	W.	4	9 0 Sky clearing.
3	4	...	...	28.70	39.5	100	-239	...	Nb.	10	o c p q	N.N.W.	5	N.	3	N.W.	3	Noon. No rain since 8 a.m.
	8	...	...	28.63	39	96	-227	...	Nb.	10	o c p q	N.N.W.	5	N.N.W.	3	W. by N.	5	1 0 Clouding over.
	Noon	52 52½	110 11	28.65	38 7	95	-224	...	Cu.-Nb.	10	o c q	N.W. by N.	6	N.W. by N.	5	N.N.W.	6	3 0 Wind moderating.
	4	...	...	28.84	37.8	87	-198	...	Cu.-Nb.	10	o c p q	S.W. by W.	9	S.W. by W.	7	W. by S.	7	4 0 Patches of blue sky at times.
	8	...	...	29.06	35.8	88	-184	...	Cu.-Nb.	3	b c p q	W.S.W.	8	S.W. by W.	5	W. by S.	7	6 0 Wind backing and rapidly moderating.
	Midnight	...	...	29.18	36	90	-190	...	Cu.-Nb.	7	b c p q	W. by S.	7	W. by S.	6	W.	8	8 10 Wind backed into N.W.
4	4	...	...	29.23	35.8	92	-192	...	Cu.-Nb.	3	b c p q	W. by S.	7	W. by S.	6	W.	8	10 20 Rain set in. Wind backed into N.N.W.
	8	...	...	29.34	38	77	-176	Cl.	Cu., Cu.-Nb.	5	b c p q	W.	7	W.	5	W.	7	Midnight. Continuous light rain.
	Noon	52 15	115 40	29.39	38	78	-179	Cl.	Cu., Cu.-Nb.	4	b c p q	W.	7	W.	5	W.N.W.	7	12 30 Wind backed to N. by E. Continuous rain taking off.
	4	...	...	29.47	39.7	75	-184	Cl.	Cu., Cu.-Nb.	4	b c p q	W. by N.	7	W.	5	W. by N.	7	3 0 Wind veering.
	8	...	...	29.56	38.3	85	-197	...	Nb., Cu.-Nb.	3	b c p q	W.	7	W.	4	W. by N.	7	4 0 Frequent light rain.
	Midnight	...	...	29.63	38	81	-185	...	Nb., Cu.-Nb.	2	b c p q	W.	6	W.	4	W. by N.	6	8 0 Very damp weather.
																		Noon. Ship rolling heavily.
																		2 0 Wind veering.
																		3 0 Wind rapidly freshening.
																		4 0 Frequent misty rain squalls.
																		5 0 Heavy hail squalls at intervals.
																		9-Midnight. Aurora visible at times to S.
																		10 45 Clouding over.
																		Midnight. Frequent hail squalls with heavy hail.
																		Midnight-2 a.m. Aurora faintly visible at times over cloud bank to S.
																		2 0 Squalls less frequent.
																		4 0 Occasional hard squalls with heavy hail.
																		8 0 Occasional hail squalls throughout.
																		Noon. Occasional hail squalls.
																		4 0 Occasional heavy snow squalls.
																		8-0-0- Wind getting less during squalls.
																		9-Midnight. Aurora faintly visible at times to S.
																		Midnight. Passing snow squalls.

METEOROLOGY.



Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. March																		
5	4	...	...	29-66	38.5	85	-200	...	Nb.	4	b c p q	W.	6	W.	4	W. by N.	6	4 0 Frequent hail squalls; wind dropping at times.
	8	...	...	29-74	39.5	86	-209	...	Cu.-Nb. Cu.	5	b c p q	W.	6	W.	4	W. by N.	6	
	Noon	51 12	120 32	29-76	42	74	-198	...	Cu.-Nb. Cu. Cu.-Nb.	7	b c	W.	5	W.	3	W.	5	Noon. No squalls during morning.
	4	...	...	29-83	41.2	89	-231	...	St.	10	o c	W.N.W.	3	Confused	2	W. by N.	5	4 0 Fine and cloudy weather.
	8	...	...	29-89	41	91	-233	...	Cu.-St. St.	2	b c	N.W. by W.	3	N.W. by W.	1	W.	3	9 50 Breeze dying away. Blue sky up till 10-15 p.m. Aurora faintly visible up till 10-15 p.m.
	Midnight	...	...	29-98	42	87	-232	...	Nb.	10	o c	N.W.	2	...	...	W.	2	Dew early part of watch.
6	4	...	...	30-02	41	98	-252	...	Nb.	5	b c p	W. by S.	3	W.	1	W.	3	2 0-3 50 Misty rain showers.
	8	...	...	30-14	42.7	86	-237	...	Cu.-Nb. St.	10	o c	W.	4	W.	2	W.	3	2 45 Wind veering and freshening slightly.
	Noon	49 31	123 39	30-18	45.5	80	-244	...	Cu.-St. Cu.-Nb. Cu.-Nb.	8	b c	W. by S.	4	W.	2	W. by N.	3	3 50 Sky clearing.
	4	...	...	30-23	44.8	91	-271	...	Cu.-Nb. Cu.-St.	9	b c	N.W. by N.	4	Confused	2	W.	3	Noon. Cloudy throughout morning.
	8	...	...	30-28	45	96	-287	...	Nb.	10	o c	N.W. by N.	4	N.W. by N.	1	W.N.W.	2	1 0 Wind backed into N.W.
	Midnight	...	...	30-29	47	85	-272	...	Nb.	10	o c	N.W. by N.	4	N.W. by N.	2	W.N.W.	2	4 0 Fine and cloudy throughout. Blue sky at intervals.
7	4	...	...	30-33	46.6	97	-306	...	Nb.	10	o c d	N.W. by N.	4	N.W. by N.	2	N.W.	2	8 0 Cloudy weather throughout.
	8	...	...	30-39	48	96	-321	A.-Cu.	Cu.-St. Cu.-Nb. Nb.	9	o c e	N.W. by N.	4	N.W. by N.	1	N.W.	2	Midnight. Overcast throughout.
	Noon	48 16	127 47	30-40	48.7	93	-322	Cl.-Cu.	Cu.-Nb. Cu.-St.	7	b c	N.W. by N.	4	N.W.	2	N.W.	2	4 0 Overcast throughout. Frequent very light misty rain.
	4	...	...	30-41	49.5	90	-316	Cl.	Cu. Cu.-St. Cu.-Nb.	7	b c	N.W. by N.	4	N.W. by N.	2	N.W. by N.	1	8 0 Damp weather.
	8	...	...	30-44	49	85	-296	...	Cu.-Nb. Cu.-Nb.	10	o c p	N.W. by N.	4	N.W. by N.	1	N.W.	2	Noon. Damp atmosphere.
	Midnight	...	...	30-45	49	93	-321	...	Cu.-Nb. Nb.	8	b c w	N.W. by N.	4	N.W. by N.	2	N.W.	2	4 30 Rain squalls.
8	4	...	...	30-43	49	97	-335	...	Nb. Cu.-Nb.	6	b c p	N.W. by N.	4	N.W. by N.	1	N.W.	2	8 0 Passing showers.
	8	...	...	30-43	49	89	-308	...	Nb. Cu.-Nb. Nb.	10	o c w	N.W. by N.	4	N.W. by N.	1	N.W.	2	8 20 Blue sky.
	Noon	47 17	131 49 [D.R.]	30-42	50.5	84	-307	...	Nb.	10	o c	N.W. by N.	4	N.W. by N.	2	N.W. by W.	2	Midnight. Clouded over.
	4	...	...	30-40	50.5	89	-327	...	Cu.-Nb. Cu.-St.	10	o c	N.N.W.	4	N.N.W.	2	N.W.	2	4 0 Light misty rain at times.
	8	...	...	30-40	51	83	-308	...	Nb.	10	o c	N.N.W.	4	N.N.W.	1	W.	2	4 15 Overcast.
	Midnight	...	...	30-35	50.3	84	-304	...	Nb.	10	o c	N.N.W.	3	N.N.W.	1	W.	2	8 0 Overcast throughout.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. March 9	4	...	...	30.35	49.5	81	.289	...	Nb.	10	oc	N.W. by N.	3	N.W. by N.	1	W.	2	4 0 Fine and dry weather. Overcast throughout.
	8	...	...	30.33	50	82	.295	...	Cu.-St., Nb.	10	oc	N.N.W.	3	N.N.W.	1	W.	3	8 0 Overcast throughout.
	Noon	46 8 [D.R.]	135 26 [D.R.]	30.31	50.5	82	.301	...	Nb.	10	oc	W.N.W.	2	...	...	W.	3	11 30 Wind veering.
	4	...	...	30.25	50	86	.308	...	Cu.-Nb., Cu.-St.	10	oc	N.N.W.	1	...	...	W.S.W.	3	Noon. Cloudy throughout.
	8	...	...	30.23	50	78	.282	...	Nb.	10	oz	Var.	1	...	...	W.S.W.	3	0 30 Light variable wind.
	Midnight	...	...	30.15	49	80	.278	...	Nb.	10	oz	Var.	1	...	...	W.S.W.	1	4 0 Overcast throughout.
10	4	...	...	30.09	48.6	81	.278	...	Nb.	10	o	E.S.E.	2	...	...	W.S.W.	1	Midnight. Light haze and overcast throughout.
	8	...	...	30.06	50	86	.308	...	Cu.-Nb.	10	ocp	E.	2	E.	1	W.	1	3 0 Wind steadying into E.S.E.
	Noon	45 14 1/2	138 48	29.95	52.5	81	.319	...	Cu.	7	b c	E. by S.	4	E. by S.	2	Confused	2	4 0 Overcast throughout. Occasional passing showers.
	4	...	...	29.88	52.2	90	.351	...	Cu., Cu.-Nb.	8	b c p	E.	4	E.	2	E.	2	8 30 Sky breaking, afterwards b c. Wind freshening slightly throughout morning.
	8	...	...	29.83	53	92	.369	...	Cu.-Nb.	10	ocp	E.	4	E.	2	E.	2	1 0 Light passing showers.
	Midnight	...	...	29.76	53	95	.383	...	Nb.	6	b c p	E.	3	E.	2	E.	3	8 0 Passing misty rain squalls.
11	4	...	...	29.73	53.1	99	.401	...	Nb.	10	ocp	N. by E.	2	...	...	E.	3	9 0 Sky clearing.
	8	...	...	29.69	55	91	.395	Cl.	St.	5	b c p	N.E.	3	N.E.	1	E.	3	11 0 Cloudy and overcast again.
	Noon	45 6 1/2	140 40	29.68	55.5	90	.397	...	Cu.-St., Cu.-Nb.	10	ocp	N.E. by N.	3	N.E. by N.	1	E.N.E.	3	Midnight. Stars occasionally visible. Short E. swell.
	4	...	...	29.58	57.1	86	.405	...	St.	1	b	N.E. by N.	4	N.E. by N.	3	E.N.E.	3	2 0 Wind veering.
	8	...	...	29.50	56	89	.399	...	...	...	b w	N.E. by N.	5	N.E. by N.	1	N.E.	3	4 0 Overcast throughout with frequent misty rain. Stars visible overhead occasionally.
	Midnight	...	...	29.39	57	87	.406	...	Cu.-St., Cu.-Nb.	5	b c q	N.	6	Confused	2	N.E. by N.	3	6 30 Blue sky and passing clouds.
12	4	...	...	29.30	56.5	96	.436	...	Nb., Cu.-Nb.	7	b c q	N.	5	Confused	2	Confused	4	8 30 Clouded over; dull misty weather.
	8	...	...	29.30	57	87	.406	...	St., Cu.-St.	5	b c	N.	6	N.	4	N.	4	Noon. Passing showers up till 11-30 a.m. Sunshine through clouds. Blue sky and passing Cu. clouds from noon.
	Noon	44 57 1/2	142 13	29.26	57.1	86	.405	Cl., Cl.-St.	St.	4	b c z	N.	6	N.	4	N.	4	2 0 Cloudless sky; wind freshening.
	4	...	...	29.24	57	87	.406	Cl.-St.	Cu.-St., St.	10	oc	N.	6	N.	4	N.	5	4 0 St. low round horizon. Cloudy and clear alternatively. Wind increasing and veering.
	8	...	...	29.26	55	93	.404	...	Cu.-Nb., Nb.	5	b c p	N.	5	Confused	2	N.	4	Midnight. Water phosphorescent.
	Midnight	...	...	29.22	55	93	.404	...	Nb., Cu.-Nb.	6	b c p	N.N.E.	4	N.N.E.	1	N. by E.	3	1 30-2 30 Several heavy rain squalls.

Table XII.—SECOND ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. March 13	4	...	...	29-16	54	95	-398	...	Nb., St.	8	bce	N.N.E.	4	N.N.E.	2	N.	3	4 0 No rain during watch. Very damp atmosphere.
	8	...	...	29-12	55.7	93	-415	...	Nb., Cu.-Nb.	10	oce	N.E. by N.	3	N.N.E.	1	Confused	3	8 0 Very damp misty weather with fog banks hanging round horizon.
	Noon	44 35	144 32	29-17	54	91	-378	...	Nb., Cu.-Nb. Cu.	10	ocp	N.W. by W.	6	N.W.	3	N.W. by N.	3	10 0 Sky clearing and wind veering into N.W. and freshening.
	4	...	...	29-24	55.4	79	-347	...	Cu.-Nb.	4	bce	W.N.W.	6	W.N.W.	2	W.N.W.	4	11 15 Clouding over with passing showers.
	8	...	...	29-36	55	74	-321	...	Nb., Cu.-Nb.	6	bcp	N.W. by N.	6	W.N.W.	2	W.N.W.	3	12 30 Sky clearing again.
	Midnight	...	...	29-39	54	80	-334	...	St., Nb.	3	bce	N.	4	N.	1	W.	1	4 0 Fine and clear throughout.
	4	...	...	29-32	54.1	73	-304	...	Cu., St.	5	bce	Var.	1	...	...	...	...	10 20 Passing rain squalls.
	8	By bearings	...	29-32	54	...	-294	...	St., Cu.-Nb.	9	ocrp	W.	2	...	...	S.	1	2 30 Wind freshening from S.S.W. and heavy rain clouds working up from S.W.
	Noon	43 32	147 9	29-26	57.5	78	-370	...	Nb., Cu.-Nb. Cu.	1	b	W.S.W.	2	...	...	...	...	4 0 Heavy passing storm clouds with frequent rain.
	4	...	...	29-23	51.2	97	-364	...	Cu.-Nb.	4	bclq	W.N.W.	4	...	...	...	...	Aurora faintly visible to S.
8	...	...	29-28	54	65	-271	...	St.	1	b	N.W.	3	...	...	...	...	Midnight. Wind squally. Lightning to E.	
Midnight	...	...	29-27	52.5	73	-288	...											
15	Approaching Iron Pot Light House.	...	...	29-26	50.2	76	-275	...										1 0 Wind moderating. Passing Cu.-Nb. clouds with lightning to E. up till 3 a.m. Afterwards blue sky.
																		7 0 a.m. Fast to Princess Wharf, Hobart.

Table XIII.—THIRD ANTARCTIC VOYAGE.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount. 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913.																		
November																		
19	4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	8	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Noon	Iron Pot		29.91	63.4	51	.289	...	Cu.	4	b c	W.S.W.	3	...	...	...	...	
	4	Light House,		29.90	59.4	68	.345	...	Cl.	4	b c	W.	3	...	...	S.W.	1	
	8	S. 40° E., 2½ m.		...	55	80	.348	...	Cl.	4	b c	W.S.W.	3	...	...	S.W.	2	
	Mid-night.	...	...	...	53.7	83	.335	...	St.	1	b	W.	3	...	...	S.W.	3	
20	4	...	...	...	53.1	85	.346	...	St.	1	b	N.W. by W.	3	N.W.	1	W.S.W.	3	
	8	...	...	...	55	80	.348	...	Cu.-St.	1	b	N.W.	4	N.W.	2	W.S.W.	4	
	Noon	44 54	140 47	29.53*	54.2	79	.331	...	St., Cu.-St.	10	c	N.W. by N.	4	N.W. by N.	3	W.	4	
	4	...	...	29.37	53	86	.347	...	St., Nb.	10	o r	N.E.	3	Confused	2	W.S.W.	3	
	8	...	...	29.19	51	100	.373	...	Nb.	10	o r	E.	3	Confused	1	W.S.W.	2	
	Mid-night.	...	...	29.04	53.2	95	.383	...	Nb.	10	o r	N. by E.	4	Confused	2	Confused	2	
21	4	...	...	28.96	48	85	.284	...	Cu.-Nb.	7	b c	W.N.W.	7	W.N.W.	3	W.N.W.	2	
	8	...	...	29.03	50	76	.270	...	Cl. Cu., Cu.-Nb.	5	b c	W.N.W.	6	W.N.W.	4	W.N.W.	4	
	Noon	47 6	147 16	28.98	51.2	72	.271	...	Cu.	4	b c	W. by N.	6	W.	4	W.	4	
	4	...	...	28.99	50.6	74	.275	...	Cl.-Cu., Cl.	6	b c	W. by N.	4	W. by N.	3	W. by N.	4	
	8	...	...	28.99	51	72	.269	...	Cu.-Nb.	3	b c	W.N.W.	4	W.N.W.	1	W. by N.	4	
	Mid-night.	...	...	28.96	48	80	.267	...	Small Cu.	2	b c	N.	3	Confused	2	W.	4	
22	4	...	...	28.93	49	78	.270	...	Cl.-St., Cl.	5	b c	N.N.E.	4	N.	1	W.	4	
	8	...	...	28.93	49.6	81	.288	...	Cl.-St., Cl.	5	b c	N.E. by E.	3	Confused, N.	2	W. & N.	3	
	Noon	49 9	148 1	28.96	50	78	.282	...	Cl.	1	b	N.E. by E.	3	N.E.	1	N.W.	2	
	4	...	...	29.05	50.2	85	.305	...	Cl.	3	b c	S.	3	S.	1	N.W.	2	
	8	...	...	29.15	44.5	80	.233	...	Cl.-St. Nb., Cu.-Nb.	10	o c	S.	3	S.	1	Confused	2	
	Mid-night.	...	...	29.23	44	75	.217	...	Nb., St.	10	o c w	S.	3	S.	1	S.W.	2	

\* Mercurial barometer out of order. Ship's aneroid used until 17th December, 1913, and readings corrected from comparisons.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. November 23	4	...	...	29-27	40.5	86	-218	...	Nb., St.	10	o c w q	S.	3	S.	1	S.W.	3	4 0 Overcast. Atmosphere very damp.
	8	...	...	29-33	40.3	84	-205	...	Nb., St.	10	o c	S. by W.	3	S.	1	Confused	3	
	Noon	50 25	148 2	29-39	42.5	79	-214	...	St.	10	o c	S.	2	S.	1	Confused	3	Noon. Blue sky visible low on horizon to S.S.W.
	4	...	...	29-39	44.8	66	-195	...	Cu.-Nb. Cu.-Nb.	10	o c	S.	1	...	...	Confused	3	1 0 Sky breaking all over. 3 0 Clouded over again.
	8	...	...	29-41	41	74	-189	...	Cu.-Nb.	6	b c	Var.	1	...	...	Confused	2	8 0 Water slightly phosphorescent.
	Mid-night.	...	...	29-41	41.5	70	-182	...	Cu.-Nb., St.	9	c	N.E.	2	...	...	Confused	2	11 30 Wind steady into N.E. Midnight. Stars visible in places.
24	4	...	...	29-39	40.5	86	-218	...	Cu.-Nb., St.	10	o c	Calm	0	...	...	Confused	2	Calm throughout with occasional light E. airs.
	8	...	...	29-42	47	62	-201	...	Cu.-Nb.	9	c	S.	1	...	...	Confused	2	4 0 Heavy cloud banks about. Blue sky in places.
	Noon	52 18	148 10	29-40	48	63	-211	...	Cu., Cu.-Nb.	7	b c	S.E.	1	...	...	Confused	1	8 0 Same weather conditions throughout. Considerable refraction.
	4	...	...	29-39	45	76	-227	...	Cu.	4	b c	W.	2	...	...	Confused	1	Noon. Fine and clear throughout.
	8	...	...	29-36	41.2	76	-203	...	Cu.-Nb.	9	c	Calm	0	...	...	Confused	1	3 0 Wind steady into W. 5 0 Clouding over. Swell coming up from S.W.
	Mid-night.	...	...	29-26	44	75	-217	...	Cu.-Nb.	10	c w	Var.	2	...	...	W.	2	Midnight. Light rain at times during watch. Clouds breaking, stars visible in places. Heavy rain clouds.
25	4	...	...	29-17	41.5	78	-204	...	Cu., Cu.-Nb.	5	b c	N.N.E.	3	N.N.E.	1	W.	2	12 15 Wind steady into N.N.E. Sky clearing. Aurora visible to S.
	8	...	...	29-12	41.2	80	-208	...	Cl., Cl.-Cu.	5	b c p	E.N.E.	3	E.N.E.	1	Confused, W.	2	4 0 Swell coming up from W. every now and then. Fine weather with passing clouds throughout. Breeze making.
	Noon	54 31	148 18	29-10	42	79	-209	...	Cu.-Nb., Cu.	7	b c	E. by N.	3	E. by N.	1	W.	2	6 0 Wind backing. Occasional light showers during 4-8 watch. Wind backing throughout afternoon.
	4	...	...	29-08	42.1	86	-231	...	Cl.-St.	10	c m	S.E.	4	S.E.	2	S.E.	1	3 45 Misty rain squalls. 4 0 Sunshine through clouds.
	8	...	...	29-13	40	91	-224	...	Nb.	10	o m r	E.S.E.	5	E.S.E.	2	E.S.E.	2	7 0 Steady rain set in.
	Mid-night.	...	...	29-17	38.7	100	-234	...	Nb.	10	o m r	E.S.E.	4	E.S.E.	2	E.S.E.	2	Midnight. Continuous rain and light mist throughout.
26	4	...	...	29-21	33.5	90	-213	...	Nb.	10	o d	E.S.E.	4	E.S.E.	2	E.S.E.	2	Continuous rain taking off at daylight.
	8	...	...	29-27	39	84	-199	...	Cu.-Nb.	10	o c	S.E. by S.	3	S.E.	1	N.W.	2	4 0 Light drizzling rain. 5 0 Weather clearing up.
	Noon	54 35	151 4	29-33	39	82	-195	...	Cu.-St.	10	c	S.E. by S.	4	S.E. by S.	1	Confused	2	8 45 Clouds breaking in places.
	4	...	...	29-37	33.5	85	-200	...	Nb., Cu.-Nb.	10	o c p	S.S.W.	3	Confused	1	S.S.E.	2	Noon. Fine and cloudy throughout.
	8	...	...	29-40	33	86	-196	...	Nb., Cu.-Nb.	7	b c	S.W.	4	S.W.	1	Confused	2	4 0 Light passing showers since 2 p.m. Wind backing throughout watch.
	Mid-night.	...	...	29-40	36.5	95	-204	...	Cu.-Nb.	10	o c	S.W. by S.	4	S.W.	1	Confused	2	10 40 Clouded over. Stars visible in places. Water temperatures very erratic.



Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.				
1913. December																			
2	4	At Macquarie Island.		29-69	36.8	73	-161	...	St.	10	o	S.	1	...	...	Confused	1	4 0	Overcast throughout.
	8	"		29-73	38	72	-164	...	Nb., St., Cu.-St.	10	oc	Calm	0	...	...	Confused	1		
	Noon	"		29-71	44	66	-189	...	Cl.	8	bc	Calm	0	...	...	N.W.	1		
	4	"		29-73	40	80	-198	...	Cu.-St.	10	oc	W.N.W.	1	...	...	N.W.	1	10 20	Sky clearing a little. Stars visible.
	8	"		29-74	39.4	87	-210	...	Nb., St.	10	oc	N.	1	...	...	N.W.	1	11 30	Overcast with mist over hill tops.
	Mid- night.	"		29-72	40.5	95	-240	...	Nb., St.	10	om	N.N.W.	2	...	...	N.W.	1		
3	4	"		29-71	41.5	95	-250	...	Nb.	10	om r	N.N.W.	2	...	...	N.N.W.	1	2 30	Mist thickening. Occasional rain.
	8	"		29-72	42	95	-255	...	Nb.	10	om r	W.N.W.	3	...	...	N.W.	1	4 0	Light misty rain. Thick weather.
	Noon	"		29-71	45	90	-266	...	Cu., St.	9	bc	W.	2	...	...	W.	2	8 30	Mist lifting a little.
	4	"		29-69	44	94	-268	Cl.-Cu., Cl.-St.	St., Cu.	10	c	N.	2	...	...	Confused	3	Noon.	Heavy bank of Cu. clouds over land.
	8	"		29-70	45.4	89	-269	...	Cu.-Nb., Cu.-St.	10	oc	N.	3	...	...	N.E.	2	2 0	Sky clearing; sun shining out. Passing Cl.-Cu. clouds.
	Mid- night.	"		29-69	45	84	-250	...	Nb.	10	or	N.W. by N.	4	...	...	N.E.	2	3 0	Lightly overcast. Swell which during afternoon had been moderate from W. becoming confused as S. end of island is reached.
4	4	"		29-65	43.8	85	-243	...	Nb.	10	o q m r	N.N.E.	4	N.N.E.	1	N.E.	2	8 0	Mist over hill tops. Ship at Lusitania Bay.
	8	"		29-65	45.2	94	-284	...	Nb.	10	o m q	N.N.W.	4	...	...	N.E.	1	9 0	Wind veering. Occasional rain drops.
	Noon	"		29-65	48.5	86	-294	...	Cu., St.	9	c b m q	N.N.W.	2	...	...	N.E.	1	Midnight.	Light drops of rain.
	4	"		29-63	45	84	-250	...	Cu.	3	bc q	N.W.	4	N.W.	1	N.E.	1	3 15	Light misty rain set in.
	8	"		29-59	40	92	-285	...	St., Cu.-Nb.	10	oc m	N.N.W.	4	N.N.W.	1	N.E.	1	5 0	Mist increasing.
	Mid- night.	"		29-51	43.5	96	-270	...	Nb.	10	o m q d	N.N.E.	4	N.N.E.	1	N.E. by N.	1	8 0	Thick mist; land 1/4 mile distant invisible. Sun faintly showing through mist.
5	4	"		29-43	44	97	-277	...	Nb.	10	o m q r	N.E. by N.	5	N.E.	2	N.E. by N.	1	10 0	Mist lifting.
	8	"		29-33	44.4	97	-282	...	Nb.	10	o m q r	N.N.E.	6	N.N.E.	2	N.N.E.	2	Noon.	Sunshine through clouds; patches of blue sky. Thick mist over hill tops. Heavy mist hanging over hill tops all afternoon.
	Noon	"		29-35	45	96	-287	...	Nb., St.	10	o m q d	N.	5	N.	2	N.E.	2	4 0	Clear blue sky with banks of Cu. round horizon. Clear weather round horizon.
	4	"		29-33	44	97	-277	...	Nb., Cu.-St.	10	oc m	N.W.	1	...	...	N.E.	2	9 0	Breeze unsteady and squally.
	8	Departed from Macquarie Island.		29-35	44	92	-264	Cl.-Cu.	...	2	bc z	N.E.	2	...	...	Confused	4	10 0	Mist settling down.
	Mid- night.	"		29-36	45	92	-274	...	...	...	b z e	N.N.E.	4	N.N.E.	1	Confused	4	11 0	Breeze backed to N.N.E. Light misty rain throughout.
		"																4 0	Mist at times clearing off a little. Wind very squally.
		"																8 0	Rain heavier and mist lighter.
		"																10 30	Wind moderating and veering a little; heavier rain taking off.
		"																Noon.	Spitting rain.
		"																1 0	Wind moderating rapidly.
		"																4 0	Proceeded to sea.
		"																8 0	Horizon hazy. Mist over land.
		"																9 0	Breeze freshening. Swell very confused. Cloudless sky throughout watch.
		"																Midnight.	Stars of greatest magnitude only visible. Sky clouding over at daylight.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.			
1913. December 6	4	...	...	29.29	45	92	-274	...	Cu., Cu.-Nb., St.	10	cz	N.N.E.	5	N.N.E.	3	Confused	4	4 0 Heavy clouds low round E. horizon.
	8	...	...	29.27	44	96	-276	...	Cu.-Nb., St.	9	cz	N.	5	N.	3	N. by W.	5	8 0 Haze round horizon.
	Noon	55 55	157 48	29.26	43.7	94	-268	...	Cu., Cu.-Nb.	8	bcp	N.N.W.	6	N.N.W.	4	N.N.W.	5	Noon. Occasional light rain squalls since 10 a.m. 1 0 Breeze moderating and swell becoming confused; coming in from N.N.W. and W.N.W.
	4	...	...	29.27	44.1	92	-265	Cl., Cl.-Cu.	...	2	bc	N. by W.	5	Confused	3	Confused	4	5 0 Ship experiencing easterly set over last 15 hours.
	8	...	...	29.32	39	91	-215	...	Nb., Cu.-St.	10	ocp	W.N.W.	5	Confused	2	Confused	3	8 0 Occasional light showers. Wind veered at 7 p.m.
	Mid- night.	...	...	29.39	39	91	-215	...	Nb., St.	10	ocp	W.N.W.	4	W.N.W.	2	Confused	3	Midnight. Showery throughout. Very damp at- mosphere.
	4	...	...	29.42	38.7	90	-213	...	Nb., St.	10	ocp	N.W.	5	N.W.	2	Confused	3	1 30 Long swell from W. by S. Breeze dying down and freshening again at 2:30 a.m.
	8	...	...	29.50	37	90	-198	...	Nb., Cu.-St.	10	ocp	N.W.	4	N.W.	2	Confused	3	5 0 Heavy rain squall and afterwards occasional light snow.
	Noon	58 6	155 55	29.54	37.8	92	-209	...	Nb., Cu.-Nb.	10	oc	N.W.	4	N.W.	3	N.W. by W.	4	8 0 Water temperature verified.
	4	...	...	29.55	38	100	-206	Cl.	Cu., Cu.-Nb.	5	bcp	W.N.W.	4	W.N.W.	3	W.N.W.	5	Noon. Cloudy weather throughout. Swell mak- ing.
	8	...	...	29.61	36	90	-190	...	Nb., Cu.-St.	10	oc	W. by N.	5	W. by N.	2	W.N.W.	5	2 0 Sky clearing. Occasional rain squalls.
	Mid- night.	...	...	29.62	36	90	-190	...	Nb., St.	10	oc	W. by N.	5	W. by N.	2	W.N.W.	5	Midnight. Rolling heavily.
	4	...	...	29.63	34.6	96	-191	...	St., Nb.	10	oc	W. by N.	5	W. by N.	2	W.N.W.	6	4 0 Overcast throughout watch. Clouds breaking to W. at 4 a.m.
	8	...	...	29.64	38.5	76	-178	Cl., Cl.-Cu.	Cu.-St.	7	bc	N.W.	3	W.N.W.	1	W.N.W.	5	8 0 Wind moderating throughout watch. Cu. moving slowly from W.
	Noon	50 29	154 14	29.63	37.5	91	-204	...	Nb., St.	10	ocr	N.N.E.	3	N.N.E.	1	N.W. by W.	4	9 30 Wind veering. Noon. Sun just visible through clouds. Light misty rain.
	4	...	...	29.59	37	98	-214	...	Nb.	10	or	N.E.	5	N.E.	2	N.N.W.	4	3 0 Very light rain.
	8	...	...	29.51	37.2	98	-217	...	Nb.	10	orm	N.E.	6	N.E.	3	N.E.	4	4 0 Continuous light rain throughout.
	Mid- night.	...	...	29.39	38	98	-223	...	Nb.	10	om	N.E.	6	N.E.	4	N.E.	4	9 0 Nb. and Fr.-Nb. moving fast from N. 10 15 Rain taking off.
	4	...	...	29.30	38.4	96	-223	...	Nb.	10	mr	N.N.E.	6	N.N.E.	4	N.N.E.	5	11 0 Thick mist.
	8	...	...	29.22	36	100	-211	...	Nb.	10	omr	N.	6/7	N.	4	N.N.E.	5	4 0 Thick mist throughout, with light misty rain. 5 0 Mist at its thickest and then started to take off.
	Noon	61 55	151 41	29.23	35	100	-203	...	St.	10	oc	N. by W.	6	Confused	3	N.	5	8 0 Light misty rain. 9 0 Nimbus; evenly overcast. Raining. 9 50 Rain taking off and sun showing up at intervals through clouds.
	4	...	...	29.30	34.2	98	-192	...	St.	10	m	N.N.W.	6	N.N.W.	4	N. by W.	5	12 15 Blue Sky. Fine dense fog descending. 1 0 Thick mist. 3 0 Fog persisting.
	8	...	...	29.31	35	100	-203	...	St.	10	ocm	N.	6	N.N.W.	3	N. by W.	4	4 0 Thick damp mist, with sun faintly visible at intervals.
	Mid- night.	...	...	29.32	33.5	98	-187	...	St.	10	om	N.	5	N.	3	N. by W.	5	7 0 Passed several small pieces of drift ice. Mist rising. 8 0 Light mist. 10 0-10 30 Passed through thick fog bank. Midnight. Misty round horizon.

METEOROLOGY.



Table XIII.—THIRD ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1913, December																		
10	4	...	...	29-38	33	100	-187	...	St.	10	c	N.	4	N.	3	N. by W.	5	2 30 Sky clearing.
	8	...	...	29-41	33	100	-187	...	St.	10	om	N.	4	N.	3	N. by W.	5	5 0 Heavy clouds working up.
	Noon	63 52	150 0	29-42	32.5	100	-184	...	Nb., St.	10	oc	N.	4	N.	3	N. by W.	4	6 0 Heavy snow up till 7-30.
	4	...	...	29-43	32.2	98	-178	...	Nb., St.	10	osm	N.N.E.	4	N.N.E.	2	N. by E.	4	8 0 Misty weather. Icebergs about.
	8	...	...	29-46	34	89	-174	...	Nb.	10	oms	N.N.E.	4	N.N.E.	2	N. by E.	3	Noon. Snowing lightly. Passing occasional bergs and pieces of drift ice. Continuous snow throughout afternoon (heavy at times).
	Mid-night.	...	...	29-45	33.3	97	-183	...	Nb.	10	oms	N.N.E.	4	N.N.E.	1	N. by E.	3	4 0 Misty weather. Passing occasional ice.
11	4	...	...	29-41	31.2	100	-174	...	Nb.	10	omsq	N.E.	3	...	...	N.N.E.	3	8 0 Passing drift ice.
	8	...	...	29-41	31.7	95	-166	...	Nb.	10	ompq	N.N.E.	4	...	...	N.N.E.	2	Midnight. Thick mist and very frequent snow throughout.
	Noon	64 56	147 8 [D.R.]	29-35	31.8	100	-179	...	Nb.	10	om	N.E.	3	...	...	...	...	1 0 Thick drift ice.
	4	...	...	29-35	31.5	95	-167	...	St., Nb.	10	oc	E.N.E.	2	...	...	...	...	2 0 Met line of pack ice.
	8	...	...	29-38	32.7	85	-158	...	St., Nb.	10	ocs	N.	2	...	...	...	...	4 0 Thick mist and snow throughout. Wind squally.
	Mid-night.	...	...	29-37	30	100	-166	...	Cu.-St., Nb.	10	ocp	E.	2	...	...	...	...	8 0 Passing snow squalls. Mist not so thick.
12	4	...	...	29-38	29.4	100	-162	...	St., Nb., Cu.-St.	10	oc	S.E.	3	...	...	...	...	Noon. Working through loose pack to S.S.W. Heavy snow and thick mist up till 2:30 p.m., when sky started to brighten to N.
	8	...	...	29-43	31	89	-154	...	St., Nb.	10	oc	S.S.E.	3	...	...	...	...	4 0 Sun dimly showing up at intervals. Very dark to S.
	Noon	66 7 [D.R.]	145 28 [D.R.]	29-45	28.7	98	-154	Cl.-St.	Cu., Nb.	10	os	S.S.E.	5	S.S.E.	1	...	...	8 0 Light snow but clear weather.
	4	...	...	29-51	29.4	86	-138	...	Nb., St.	10	c	S.S.E.	5	S.S.E.	1	S.S.E.	1	9 0 Very dense St.-Cu. and festooned Cu. (in S.) moving very slowly from W.
	8	...	...	29-54	31.3	81	-141	Cl.	Cu.-St.	1	b	S.S.E.	1	...	...	...	...	Midnight. Occasional light snow. Ice blink to S.S.E.
	Mid-night.	...	...	29-56	28	83	-126	Cl.	St.	1	b	S.S.E.	2	...	...	S.S.E.	1	4 0 Clear weather throughout.
13	4	...	...	29-57	28.3	74	-114	Cl.	St.	1	b	S. by E.	4 or 5	S. by E.	1	...	...	9 0 Very light star-shaped snow crystals and ice spiculae falling.
	8	...	...	29-61	32.1	50	-090	Cl.	St.	1	bq	S.E.	4	...	...	...	...	10 0 Weather thickening; light snow.
	Noon	...	...	29-61	34	61	-119	...	St.	1	bq	S.E.	4	...	...	...	...	11 0 Wind freshening.
	4	...	...	29-62	32.5	84	-155	...	...	...	b	Var.	1	...	...	...	...	11 30 Reached open water.
	8	...	...	29-63	35	62	-126	...	...	...	b	Var.	1	...	...	...	...	Noon. Drift ice again. Mam.-Cu. in S.W.; Cl.-St. plentiful in S.
	Mid-night.	...	...	29-61	25	71	-096	...	St.	...	bq	S.E. by E.	6	S.E. by E.	1	...	...	1 0 Snow taking off and weather clearing.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1913. December																		
14	4	Anchorage, Commonwealth Bay.		29-60	21.5	79	.092	...	St.	...	bq	S.E.	8	S.E.	2	...	4 0 Hard squalls. Bank of St. on E. horizon.	
	8	"		29-62	25	75	.101	...	St., Cu.-St.	1	bq	S.E.	8	S.E.	2	...	8 0 Squalls less fierce, St. and Cu.-St. low on E. horizon.	
	Noon	"		29-61	30.8	70	.120	...	St., Cu.	1	bq	S.E. by E.	5	S.E. by E.	1	...	9 0 Wind rapidly moderating.	
	4	"		29-59	34	72	.129	A.-Cu.	...	6	bc	S.E. by E.	2	...	...	...	Noon. Bank of clouds still on N. and E. horizons.	
	8	"		29-59	32	...	...	A.-Cu.	Nb.	7	bc	S.E.	3	...	...	...	3 15 Clouds working up from S.E.	
	Mid-night.	"		29-55	23	...	...	...	St.	1	bq	S.E.	7	S.E.	1	...	4 30-7 30 Calm, when wind came out light from S.E.	
15	4	"		29-51	22.7	...	...	...	St.	1	bq	S.E. by S.	9	S.E.	2	...	8 0 Dark clouds on E. horizon. A.-Cu. overhead and clear sky to S.W. and W.	
	8	"		29-49	26.2	...	...	...	...	...	bq	S.E.	8	S.E.	3	...	8 45 Clouds clearing off again. Wind freshening throughout.	
	Noon	"		29-48	31.8	...	...	...	Cu.	1	bq	S.E. by S	7 or 8	S.E.	2	...	Midnight. Bank of clouds round horizon from N.W. through N. to E.	
	4	"		29-43	32	...	...	...	...	...	bq	S.E.	6 or 7	S.E.	2	...	4 0 Very fierce squalls.	
	8	"		29-41	29.2	...	...	A.-Cu.	Fr.-Cu.	...	bq	S.E. by E.	3	...	...	...	5 30 Squalls of less duration.	
	Mid-night.	"		29-41	26.7	...	...	A.-Cu.	St.-Cu.	6	bcq	S.E.	3	...	...	...	6 0 Vessel dragged anchor in very hard squall.	
16	4	"		29-46	27	...	...	A.-Cu.	Cu.-St.	10	ocq	S.E.	5	S.E.	1	...	8 0 Same weather conditions.	
	8	"		29-49	30.2	...	...	A.-Cu.	Cu.-St.	10	ocq	S.E.	5	S.E.	1	...	3 0 Wind moderating.	
	Noon	"		29-49	33	...	...	A.-Cu.	Cu.	4	bc	S.E.	2	...	...	...	5 0 Wind rapidly moderating.	
	4	"		29-47	39.4	...	...	...	St.	...	b	S.E.	1	...	...	...	7 0 Gentle breeze; cloudless sky.	
	8	"		29-47	34	...	...	...	...	...	b	E.S.E.	1	...	...	...	9 0 Freshened up to strong breeze. Clouds gathering. A.-Cu. moving slowly from N.E.; Fr.-Cu. fairly fast from S.S.E.	
	Mid-night.	"		29-40	27	...	...	...	...	...	bq	S.S.E.	5	S.S.E.	1	...	11 0 Wind falling light.	
17	4	"		29-37	24	...	...	...	Cu.	...	bq	S.S.E.	8	S.S.E.	2	...	3 0 Wind freshening slightly.	
	8	"		29-41*	28.2	...	...	...	St.	...	bq	S.S.E.	7	S.S.E.	2	...	4 0 Slightly squally.	
	Noon	"		29-35	33.0	...	...	...	Cu.-St.	...	b	N.W.	2	...	...	...	Wind dropping throughout forenoon.	
	4	"		29-34	38.6	...	...	...	Cu.	...	b	Calm	0	...	...	...	11 30 Wind light.	
	8	"		29-22	38	...	...	...	Cu.	...	b	Calm	0	...	...	...	Compass error uncertain. 16° E. found on ship's head N.E. Wind probably S.S.E. over last three days.	
	Mid-night.	"		29-16	27.5	...	...	...	Cu.-St.	...	bq	S.E. by S.	5	S.E. by S.	1	...	8 0-10 15 Calm, when puffs of wind started to come from S.E.	

\* Mercurial barometer obtained from Main Base.

ZOTIFUXX METEOROLOGY: ANTARCTICA

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.				
1913. December 18	4	Anchorage, Com- monwealth Bay.		29-17	22-8	...	...	...	Cu.-St.	...	b	S.S.E.	6	S.S.E.	1	...	4 0	Bank of Cu.-St. round N. and E. horizons.	
	8	"	"	29-19	26-5	...	...	...	Cu.-St.	...	b	S.S.E.	5 or 6	S.S.E.	1	...	9 0	Wind rapidly moderating.	
	Noon	"	"	29-19	35-2	...	...	...	...	...	b	Calm	0	...	...	...	10 0	Light wind.	
	4	"	"	29-15	38	...	...	...	Cu., Cu.-St.	...	b	Calm	0	...	...	...	11 0	Calm.	
	8	"	"	29-14	38	...	...	...	Cu., Cu.-St.	...	b	Calm	0	...	...	...	4 0	Small Cu. clouds hanging over land. Cu.-St. in N.E. horizon.	
	Mid- night.	"	"	29-12	26	...	...	...	St.	...	b	S.S.E.	1	...	...	...	8 0	Clouds in same position. Slight swell settling into bay. St. over western point.	
	19	4	"	"	29-12	26	...	...	...	Ci.-Cu., A.-St.	...	b	S.E.	3	...	Confused	1	10 0	Sky clear. Sky nearly cloudless all day.
		8	"	"	29-19	32-1	...	...	...	Cu.-St., Cu.	2	b	E.S.E.	1	...	Confused	1	5 30	Breeze dropping.
		Noon	"	"	29-23	32	...	...	...	Cu.-Nb., Cu.-St.	9	c	E.	3	...	Confused	1	6 0	Passing Cu. cloud bank.
		4	"	"	29-25	30-5	...	...	...	Cu.-Nb., Cu.-St.	10	o	S.E.	3	...	...	...	8 0	Clouds banked up on N. horizon.
8		"	"	29-24	28	...	...	...	Nb.	10	o c q s	S.E.	6	S.E.	1	...	8 0-10 0	Cu. clouds working back from N. Clouded right over by 9 a.m. except for blue sky to S. over land.	
Mid- night.		"	"	29-21	24-3	...	...	...	Nb.	10	o q s	S.E. by S.	7	S.E. by S.	2	...	9 0	Heavy leaden sky. St.-Cu. moving very slowly from S.E.	
20		4	"	"	29-17	26	...	...	...	Nb., St.	10	o c q	S.E. by S.	8	S.E. by S.	2	...	12 45	Clouds gradually working back to W. leaving wisps of cirrus in blue sky.
		8	"	"	29-19	27-7	...	...	...	Cu.-St., St., Nb.	10	o c q p	S.E. by S.	7	S.E. by S.	2	...	1 30	Wind freshening a little from E. Heavy dark clouds for about 15 degrees above sea horizon.
		Noon	"	"	29-14	30-5	...	...	...	Cu.-St., St.	10	o q	S.E. by S.	8	S.E. by S.	2	...	2 0	Sunshine through Ci.-St. clouds. Blue sky still over land to S.
		4	"	"	29-17	31-3	...	...	...	Ci.-Cu., A.-Cu., St.	9	c q	S.E. by S.	6	S.E. by S.	1	Confused	4 0	Overcast all over; wind backing into S.E. Clouds stationary.
	8	"	"	29-16	31	...	...	...	Ci., Cu.-St., Cu.-Nb.	7	b c q	S.E. by S.	5	S.E. by S.	1	Confused	4 30	Wind freshening and getting squally. Breeze freshening rapidly.	
	Mid- night.	"	"	29-20	30	...	...	...	Ci., A.-Cu.	6	b c q	S.E. by S.	4	S.E. by S.	1	Confused	5 30	Breeze freshening rapidly. Driving snow set in.	

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.		
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.				
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance 0-10.					
1913. December 21	4	Anchorage, Com- monwealth Bay,		29-24	28	...	...	Cl.	St.	8	b c	E.	2	...	...	Confused	1	3 15	Breeze light from E.	
	8	"	"	29-31	33	...	...	Cl.	...	10	c	Var.	2	...	...	Confused	1	8 0	Sunshine through clouds.	
	Noon	"	"	29-27	35.6	...	...	Cl.	...	10	c	N.	3	...	...	Confused	1	12 0	Cl.-St. plentiful, moving from S.W. by W.	
	4	"	"	29-28	35	...	...	Cl.	Fr.-Cu.	10	c	S.E.	1	...	...	...	...	3 0	Cl.-St. moving from W.S.W. slowly.	
	8	"	"	29-27	32.4	...	...	Cl.	...	10	c	E.N.E.	1	...	...	...	...	6 0	St.-Cu. moving from S.E.	
	Mid- night.	"	"	29-24	30	...	...	Cl.-St.	Cu.-St., St.	10	c	Var.	1	...	...	...	...	9 0	Cu. moving from S.E.	
																		0-Midnight.	Heavier clouds gathering.	
22	4	"	"	29-24	27.5	...	...	Cl.-St.	St.	9	c	S.E. by S.	3	...	...	...	...	7 0	Weather becoming a little squally.	
	8	"	"	29-21	30.3	...	...	Cl.-Cu., Cl.-St.	Nb., St., Cu.-St.	10	c q	S.E. by S.	4	...	...	...	...	10 0	Wind dying away.	
	Noon	"	"	29-25	39.1	63	-150	Cl.-Cu.	Cu.-St.	9	c	Calm	0	...	...	...	...	1 0	Sky clearing.	
	4	"	"	29-27	32.5	84	-155	Cl.-Cu.	Cu.-St.	1	b	W.N.W.	3	...	...	...	...	3 0	Cloudless.	
	8	"	"	29-36	33.8	88	-172	...	Cu., Cu.-Nb.	3	b c	N.E.	1	...	...	...	...	8 0	Cu. over land to S. Heavy Cu.-Nb. to E. Passing Cu. clouds from S.E.	
	Mid- night.	"	"	29-38	31.3	87	-154	...	Cu., Cu.-Nb.	8	b c	E.	1	...	...	...	...	Midnight.	Very black clouds to S.E. gradually working over sky.	
23	4	"	"	29-45	30	95	-157	...	Cu.-Nb.	10	o c s	Calm	0	...	...	...	...	1 30	Very light snow falling, continuing up till 4 a.m.	
	8	"	"	29-51	31.2	66	-116	...	Cu.-Nb., Cu.-St.	10	c	S.E. by S.	3	...	...	...	...	6 0	South-easterly breeze making.	
	Noon	"	"	29-52	34.5	61	-123	...	Cu.-Nb., Nb.	10	o c q	E.	4	...	...	...	...	9 0	Heavy leaden sky.	
	4	"	"	29-50	30	89	-148	...	Nb.	10	o q s	S.E. by S.	5	S.E. by S.	1	...	...	Noon.	Rather squally. Overcast.	
	8	"	"	29-48	31.5	79	-139	...	Nb.	10	o q p	S.E.	6	S.E.	1	...	...	1 30	Wind rising and light snow set in.	
	Mid- night.	"	"	29-43	31.5	84	-148	...	Nb.	10	o c p q	S.E.	7	S.E.	1	...	...	3 0	Snow heavier.	
																		4 0	Wind increasing. Continuous snow, land near base being nearly invisible at times.	
	4	"	"	29-50	30	89	-148	...	Nb.	10	o q s	S.E. by S.	5	S.E. by S.	1	...	...	5 0	Moderate gale, squally, light snow.	
	8	"	"	29-48	31.5	79	-139	...	Nb.	10	o q p	S.E.	6	S.E.	1	...	...	8 0	Occasional snow.	
	Mid- night.	"	"	29-43	31.5	84	-148	...	Nb.	10	o c p q	S.E.	7	S.E.	1	...	...	9 0	Snowing and blowing a gale.	
24	4	"	"	29-28	31.5	84	-148	...	Nb.	10	o q	S.E.	9	S.E.	2	...	...	1 30	Wind freshening rapidly. Thick snow drift over land.	
	8	"	"	29-10	30.2	95	-158	...	Nb.	10	o q p	S.E.	10	S.E.	3	...	...	4 0	Squalls of great violence.	
	Noon	"	"	28-81	29	...	...	...	Nb.	10	o q p	S.E.	12	S.E.	4	...	...	6 30	Wind still freshening. Land becoming entirely invisible with driving spray and snow drift. Passing snow squalls.	
	4	Departed Com- monwealth Bay.		28-81	30	100	-166	...	Nb.	10	o q p	E.	10	E.	4	E.	5	...	8 0	Squalls of terrific violence. Land in- visible.
	8	"	"	28-85	31.7	92	-165	...	Nb.	10	o q p	E.S.E.	7	Confused	4	Confused, S.E.	6	...	9 30	Storm force averaging about 70 miles per hour. Squalls of hurricane force.
	Mid- night.	"	"	28-92	32.5	94	-174	...	Nb., St.	10	o c q	E.S.E.	6	Confused	3	Confused	5	...	8 0	Heavy confused sea.
																		8 30	Drift lessening over land.	
																		9 0	Land visible. Wind moderating.	
																		Midnight.	No snow since 9-30 p.m.	

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1913. December 25	4	...	...	28.88	33	89	.168	...	Nb., Cu.-Nb., St.	10	o q	E.S.E.	7	Confused	5	Confused, E.S.E.	5	2 0 Wind freshening a little and more squally. 4 0 St. to windward. Thick drift over land.
	8	...	...	28.81	31.8	92	.163	...	Nb.	10	o c q s	S.E.	7	S.E.	4	S.E.	3	5 30 Snow set in.
	Noon	66 43 [D.R.]	143 24 [D.R.]	28.78	31.5	100	.173	...	Nb.	10	o q s m	E.S.E.	7	E.S.E.	4	E.S.E.	3	10 15 Thick weather again with continuous snow.
	4	...	...	28.76	31	100	.173	...	Nb.	10	o q s m	E.S.E.	7	E.S.E.	4	E.S.E.	4	4 0 Thick weather with continuous snow throughout watch.
	8	...	...	28.77	31	100	.173	...	Nb.	10	o m s	E.S.E.	4	...	1	E.S.E.	2	6 0 Wind moderating rapidly. 8 0 Continuous thick weather and heavy snow.
	Mid-night.	...	...	28.83	30	100	.166	...	Nb.	10	o m s	E. by S.	3	...	...	E.S.E.	1	
26	4	...	...	28.90	30	100	.166	...	Nb.	10	o m s	E.S.E.	3	...	...	E.S.E.	1	1 30 Weather clearing a little. Snow not so heavy. 4 0 Light snow, heavy at times. Drift ice to E. and N.
	8	...	...	29.00	31	100	.173	...	Nb.	10	o m s	S.E. by S.	4	...	...	...	...	8 15 Got under way at slow speed to S.E. 9 0 Weather getting very thick.
	Noon	66 44 [D.R.]	144 31 [D.R.]	29.04	31	100	.173	...	Nb.	10	o m s	S.E. by S.	4	S.E. by S.	1	N.W.	1	9 10 Stopped. Noon. Snow throughout watch clearing off a little at times.
	4	...	...	29.06	31.5	100	.177	...	Nb.	10	o	E.S.E.	5	E.S.E.	3	Confused	1	1 15 Wind freshening; snow easing off and weather clearing. 4 0 Clear weather.
	8	...	...	29.06	31.8	100	.179	...	Nb.	10	o m	E.S.E.	6	E.S.E.	2	E.S.E.	2	
	Mid-night.	...	...	29.06	31.8	100	.179	...	Nb.	10	o m p	E.S.E.	5	E.S.E.	2	E.S.E.	2	Midnight. Making E., trying to pick up barrier throughout.
27	4	...	...	29.04	31.8	100	.179	...	Nb.	10	o m s q	E.	7	E.S.E.	3	E.S.E.	1	2 0 Wind freshening a little. 4 0 Thick weather, squally snow and sleet throughout.
	8	...	...	29.09	32	100	.180	...	Nb.	10	o m s	S.E. by E.	5	...	...	E.S.E.	1	4 30 Under lee of barrier. Keeping in touch with barrier.
	Noon	67 0	145 24 [D.R.]	29.08	31.5	100	.177	...	Nb.	10	o m s	S.E. by E.	4	S.E. by E.	1	...	...	Noon. Thick mist and heavy snow throughout watch.
	4	...	...	29.10	31.8	97	.173	...	Nb.	10	o p	S.E.	4	S.E.	1	...	...	1 0 Weather clearing up at intervals; sky brighter, passing snow squalls and mists.
	8	...	...	29.12	32	100	.180	Cl.-St.	Cu.-Nb., Cu.-St., St.	10	o c	S.E.	4	...	...	...	...	3 0 Stopped to N.E. by pack joining barrier face; turned ship round and made back S.W. 4 0 Clear weather; no snow since 2:30. 6 0 Very clear; distant land plainly visible.
	Mid-night.	...	...	29.14	32	84	.152	A.-St.	Nb., St.	10	o c	S.E.	4	...	...	...	...	Midnight. Fine and clear weather throughout watch.

AUSTRALASIAN ANTARCTIC EXPEDITION.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1913. December 28	4	...	...	29-13	31.3	89	-156	A.-St.	St., Cu.-St.	10	o c	S.E. by S	4	...	...	...	4 0	Fine and clear weather throughout watch.	
	8	...	...	29-16	30	97	-163	Cl.-St.	Cu.-St., St.	10	o c	S.E.	5	...	...	...	4 30	Breeze freshening.	
	Noon	66 55	145 21 [D.B.]	29-13	30.2	92	-155	...	Cu.-Nb., Cu.-St.	10	o c	E.S.E.	5	...	...	...	8 30	Lightly overcast. Sun visible through clouds.	
	4	...	...	29-12	30.5	91	-154	...	Cu.-Nb.	10	o c	S.E. by E.	4	...	...	...	Noon.	Overcast throughout. Sun faintly visible at times. St.-Cu. has slow movement from S.E.	
	8	...	...	29-10	30	94	-157	Cl.-St., Cl.-Cu.	Cu.-Nb.	10	o c	S.E.	4	...	...	...	3 0	Fr.-Cu. moving slowly from S.E.	
	Mid-night.	...	...	29-07	30	89	-140	...	St., Cu.-Nb., Cu.-St.	10	o c	S.E.	4	...	...	...	4 0	Heavily overcast; sun invisible throughout.	
29	4	...	...	29-07	29	91	-146	...	Cu.-St.	10	o c	S.E.	4	S.E.	1	...	5 30	Sun showing up at intervals.	
	8	...	...	29-06	30	85	-140	Cl.-Cu.	Cu.-St.	10	o c	S.E. by S.	4	...	...	...	6 0	Fr.-Cu. slowly moving from S.E. and Cl. very slowly from N.	
	Noon	66 51	145 35	29-06	30.4	75	-127	Cl.-Cu.	Cu.-St.	10	c	S.E.	3	...	...	...	9 0	Clouds darkening.	
	4	...	...	29-06	29.9	87	-144	Cl.	Cu., Cu.-Nb.	5	b c	S.E. by E.	3	...	...	...	4 0	Barrier distant about 7 miles to windward.	
	8	...	...	29-11	29.7	92	-152	Cl., A.-Cu.	...	10	c	S. by W.	3	...	...	...	6 15	Got under way towards barrier.	
	Mid-night.	...	...	29-13	29.3	88	-141	Cl., Cl.-St.	...	4	b c	W.N.W.	1	...	...	...	8 0	Sun visible at intervals through clouds.	
30	4	...	...	29-17	29	83	-132	Cl., Cl.-St.	...	6	b c	S.W.	3	...	...	...	12 0	St.-Cu. moving slowly from S.W.	
	8	...	...	29-26	29	89	-141	Cl., Cl.-St.	...	1	b	S.W. by S.	4	...	...	...	1 0	Sky clearing.	
	Noon	66 54	143 51	29-31	28.5	75	-117	...	St.	1	b	S.S.E.	3	...	...	...	3 0	St.-Cu. moving slowly from S.W.	
	4	...	...	29-34	32	80	-144	Cl.	...	2	b	Calm	0	...	...	...	4 0	Wind slightly puffy.	
	8	...	...	29-36	32	79	-142	...	...	0	b	W. by S.	2	...	...	...	6 0	A lower division of Cl.-St. is moving fairly fast from N.W. A.-Cu. moving from W.N.W.	
	Mid-night.	...	...	29-37	28	83	-126	...	St.	0	b	S.S.E.	5	S.S.E.	1	...	9 0	Wind dying away. Cl.-St. moving slowly from W.	
31	4	...	...	29-32	26	73	-103	...	...	...	b	S.S.E.	7	S.S.E.	3	...	10 30	Crossing centre of Commonwealth Bay; wind freshening from S.S.E. Compass very erratic.	
	8	...	...	29-27	29.8	71	-118	...	...	...	b	S.S.E.	7	S.S.E.	2	...	Midnight.	Cloudless sky throughout.	
	Noon	66 46	141 41	29-20	32	79	-142	...	...	...	b q	S.S.E.	7	S.S.E.	3	...			
	4	...	...	29-16	33	80	-149	...	...	...	b	S.E. by E.	4	S.E., Confused.	1	S.E.	1	Noon.	Slightly squally.
	8	...	...	29-10	-31.8	-88	-158	...	...	...	b	S.E. by E.	4	S.E., Confused.	1	S.E.	1	2 0	Wind moderating.
	Mid-night.	...	...	29-05	30	86	-142	...	...	...	b	S.E.	6	S.E.	2	S.E.	2	3 0	Rapidly moderating.
																		5 0	Gentle breeze.
																		11 0	Wind rapidly increasing.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1914. January																			
1	4	...	...	29-02	29	90	-142	...	...	0	b	E.S.E.	7	E.S.E.	3	E.S.E.	3	4 0	Passing numbers of bergs throughout watch.
	8	...	...	29-02	27.3	97	-143	...	Cu.-Nb., Cu.-St.	10	o c q	E.S.E.	8	E.S.E.	4	E.S.E.	4	6 15	Sky becoming overcast by heavy clouds from windward.
	Noon	65 43	140 19	29-01	28	98	-150	...	St.-Cu., Cu.-Nb.	10	o c	E.S.E.	7	E.S.E.	4	E.S.E.	5	11 50	Line of blue sky to windward.
																		Noon.	Sun occasionally visible through breaks in clouds. The St.-Cu. moving slowly from S.S.W.
	4	...	...	29-01	29	95	-151	...	Mam.-Cu.	8	b c	E. by S.	6	Confused	3	E.	5	1 0	Heavier clouds passing away to leeward; afterwards passing banks of Cu. clouds, with patches of blue sky.
	8	...	...	29-02	30	95	-157	...	Cu.	8	b c	S.	4	Confused	1	E.	4	2 0	Breeze moderating.
	Mid-night.	...	...	29-02	30	98	-163	...	Cu., St.	...	b	S.	3	...	...	Confused	4	3 0	Cu. moving from S.
2	4	...	...	29-02	31.2	95	-165	...	St., Cu.	0	b	S.	2	...	...	S.S.E., Confused.	4	4 0	St. low to S. Bank of Cu. on N.E. horizon.
	8	...	...	29-02	33.8	85	-166	Ci.	...	0	b	S.E. by S.	3	...	...	S.S.E., Confused.	3	8 0	Land visible to S.
	Noon	65 50	137 30	29-02	32	90	-163	...	...	0	b	S.E.	1	...	...	N.E.	1	11 0	Came up with pack ice; half speed N.
	4	...	...	28-99	37	78	-171	...	...	0	b	Calm	0	...	...	N.E.	2	4 0	Making course to clear pack ice to N.W.
	8	...	...	28-95	32	97	-174	...	Cu.-St.	0	b	S.W.	3	...	...	Confused	1	8 0	Skirting pack ice.
	Mid-night.	...	...	28-93	27	100	-147	...	A.-St.	0	b	W.	3	...	...	Confused	1	Midnight.	A great deal of refraction on S. horizon with mirage effects.
3	4	...	...	28-93	28	92	-138	...	...	0	b	W. by N.	3	...	...	Confused	2	4 0	Following trend of pack ice.
	8	...	...	28-95	30	89	-148	Ci.-St.	Cu.	0	b	W. by N.	3	...	...	Confused	1	8 0	Passing through areas of freezing pancake ice.
	Noon	64 39	134 46	28-98	32.3	92	-167	Ci.-St.	...	0	b	W.S.W.	3	...	...	Confused	1	8 0	Skirting pack ice throughout.
	4	...	...	29-00	30.5	96	-162	Ci., Ci.-St.	St.	2	b	W.S.W.	3	...	...	...	...	4 0	Pack edging ship away to N.
	8	...	...	29-03	30.4	96	-161	Ci., Ci.	St.	5	b	W.S.W.	3	...	...	...	...	4 0	Ci. and St. clouds working up from S.E. Ship skirting pack ice throughout.
	Mid-night.	...	...	29-04	29.5	94	-154	Ci.-St.	Nb.	2	b d	W.S.W.	3	...	...	...	...	8 0	Cloudy to S.E., which cleared off at sunset; making way through brash ice up till 10 p.m.
4	4	...	...	29-09	30.5	97	-163	...	Cu.-Nb.	2	b	W.S.W.	2	...	...	...	...	Midnight.	Heavy black Nb. clouds on S. horizon. Atmosphere very damp at midnight.
	8	...	...	29-12	32.4	83	-153	...	Cu., Cu.-St.	4	b c	W.S.W.	1	...	...	...	...	3 0	Sun rising over cloud bank to S.E.
	Noon	64 18	132 24	29-19	39	46	-109	Ci.-St.	St.	2	b	Calm	0	...	...	...	...	4 0	Heavy cloud bank of Cu.-Nb. from W.S.W. to E. from horizon to altitude of 7°.
	4	...	...	29-24	39.2	62	-148	Ci.-St., Ci.	St.	7	b c	E.	1	...	...	...	...	8 0	In loose pack ice. Cloudy to S.E.
	8	...	...	29-27	35	80	-161	Ci.-St., Ci.	St., A.-St.	10	b c	E.	2	...	...	...	...	10 0	Pack heavier.
	Mid-night.	...	...	29-28	34	80	-155	...	Nb.	10	o	E.N.E.	3	...	...	N.	1	Noon.	Clouds all round horizon. Ship in pack ice.
																		1 0	Ci. clouds spreading across sky from N.E. horizon.
																		2 0	Clear of pack. Perfectly smooth sea. Mirage effects round horizon.
																		3 0	Sky almost covered by bands of Ci.-St. moving from N.W.
																		8 0	Weather becoming overcast.
																		8 40	Halo round sun.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1914.																		
January																		
5	4	...	...	29-30	31	98	-170	Cl.-St.	Nb., St.	10	o c s m	E.	4	E.	1	N.	1	1 0 Light snow and weather thickening slightly. 3 0 Sky lightening. 3 30 Sun showing up through clouds. Very clear halo round it. 3 50 Came up with heavy pack ice. 4 0 Lightly overcast.
	8	...	...	29-31	32	96	-172	...	Nb., St.	10	o c s	E.	4	E.	1	...	...	8 0 Following course of pack throughout.
	Noon	64 10	130 4	29-31	33	93	-176	...	St.	10	o c	E.	3	...	...	N.E.	1	Noon. Sun faint through clouds at times. 3 0 Sky clearing.
	4	...	...	29-28	33	95	-178	Cl.-St., Cl., Cl.-Cu.	St.	7	b c	E.S.E.	3	...	...	N.E.	1	
	8	...	...	29-24	31	95	-164	A.-Cu., Cl.	St., Cu.-St.	10	c	S.E.	3	...	...	E.N.E.	1	9 0 A.-Cu. Moving very slowly from S. 10 0 Clouds getting heavier. 11 50 Came up with heavy pack ice.
	Mid-night.	...	...	29-22	29-5	97	-157	...	Cu.-St.	10	o c w	S.E.	2	...	...	...	...	Midnight. Angry red sky to S. 12 30 Making way N. at full speed to clear pack ice.
6	4	...	...	29-19	30-5	96	-160	...	Cu., Cu.-St., Nb., Cu.-St.	9	b c	E.S.E.	3	...	...	N.N.E.	1	2 30 Clouds lightening. 4 0 Sun showing up over cloud banks to S.E.
	8	...	...	29-19	32-3	81	-148	Cl.	Cu.-St.	7	b c	S.E.	3/4	...	...	N.N.E.	1	8 0 Keeping along edge of pack ice to W. 9 0 Noah's Ark formation. Cl.-St. in E. to W. formation. Very slow movement from S.
	Noon	64 34	127 8	29-18	32-4	87	-160	...	Cu.-St.	10	o c	E.	4	E.	1	N.E.	1	11 0 Sky clouding over. Noon. Sunshine through clouds. 12 15 Snowflakes falling.
	4	...	...	29-19	33-8	84	-161	...	St., Nb.	10	o m s	E.S.E.	4	E.S.E.	1	N.E.	1	12 45 Light snow; weather thickening. 4 0 Continuous light snow, heavy at times. Sunshine through clouds.
	8	...	...	29-20	31-3	97	-169	...	Cu.-Nb.	10	o m s	S.E. by S.	4	...	...	E.S.E.	1	8 30 Weather clearer.
	Mid-night.	...	...	29-23	31-2	98	-171	...	Nb., St.	10	o c	S.E. by E.	3	...	...	E.	1	3 0 Wind freshening a little.
7	4	...	...	29-25	31	95	-164	...	Cu.-Nb.	10	o c	E.	4	E.	1	E.	1	4 0 Clear weather but heavily overcast throughout.
	8	...	...	29-27	31-3	97	-169	...	St., Cu.-Nb.	10	o c	S.E. by E.	4	...	...	E.	1	8 0 Same weather conditions throughout. 8 15 Got under way to W.
	Noon	64 34 [D.R.]	125 55 [D.R.]	29-29	32	89	-161	...	Cu.-Nb.	10	o c	E. by S.	4	E. by S.	1	E.N.E.	1	Noon. Overcast throughout. Skirting pack ice. 1 0 A few snowflakes falling.
	4	...	...	29-30	37	86	-187	...	Cu.-Nb.	10	o c	E.	3	...	...	E.N.E.	1	5 0 Entered pack ice; heading S.W., towards immense iceberg.
	8	...	...	29-30	32-5	87	-161	...	Cu.-Nb.	10	o c	S.E. by E.	3	...	...	...	...	8 0 Heading out of pack. 9 30 Light snow. Light mists at times.
	Mid-night.	...	...	29-30	30-4	96	-161	...	Nb., Cu.-Nb.	10	o c p m	E.S.E.	3	...	...	E.	1	Midnight. Passing light snow. Heavily overcast. Damp weather. Mists at times. Atmosphere very damp.



Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1914. January 8	4	...	...	29-28	30-2	98	-164	...	Nb.	10	o	E. by S.	4	E.	1	E.	1	4 0 Heavily overcast, but clear weather throughout.
	8	...	...	29-32	30-5	97	-163	...	Nb.	10	o m s	E. by S.	4	E.	1	E.	1	4 30 Snow set in. Weather thickening.
	Noon	65 2	123 12	29-37	30	100	-166	...	Cu.-Nb., Nb.	10	o m c s	E. by N.	3	...	...	...	...	6 30 Thick weather.
	4	...	...	29-40	30-4	97	-163	...	Nb.	10	o m c s	E.	3	...	...	...	...	8 0 Sun showing up through clouds. Weather clearing a little.
	8	...	...	29-42	30	100	-166	...	St., Nb.	10	o m c s	E.S.E.	4	...	...	N.E.	1	Noon. In loose pack ice. Sunshine through clouds throughout.
	Mid-night.	...	...	29-44	30	98	-163	...	Cu.-Nb., St.	10	o c p	S.E. by E.	3	...	...	N.E.	1	4 0 Lightly overcast. Continuous light snow with sunshine through clouds throughout.
	4	...	...	29-44	30	100	-166	...	Cu.-Nb.	10	o c p m	E. by N.	3	...	...	...	...	8 5 Sky clearing and snow taking off. Cl. and Cu. revealed.
	8	...	...	29-47	30-5	95	-160	...	Cu.-Nb., St.	10	o c p	E. by N.	5	E.	1	...	...	9 30 Clouded over again.
	Noon	65 30	120 40	29-47	31-1	91	-158	Cl.-St.	...	10	o c	E.	5	E.	1	E.N.E.	1	Midnight. Frequent light snow and passing mists. Pack ice lying to S.E.
	4	...	...	29-46	30	93	-158	...	Cu.-Nb.	10	o c	E.	6	E.	2	E.N.E.	2	4 0 Passing snow squalls and thick weather.
	8	...	...	29-46	31-5	91	-161	...	Nb.	10	e m p	E.S.E.	5	E.	1	E.	2	6 0 Wind freshening.
	Mid-night.	...	...	29-46	31	97	-167	...	Nb.	10	o m s	E.S.E.	4	E.	1	E.	2	8 0 Occasional snow squalls. Lightly overcast.
	4	...	...	29-45	31-5	94	-167	...	Nb.	10	o	E.S.E.	3	E.S.E.	1	E.	1	8 30 Sun showing up.
	8	...	...	29-45	31-5	94	-167	...	Nb.	10	o p	E.S.E.	3	...	...	E.	1	9 0 Wind freshening. Cu. moving slowly from E.
	Noon	64 34	117 1	29-44	31-8	92	-163	A.	St., Cu.-St.	9	b c	E.S.E.	3	...	...	...	...	10 0 Weather clearing up.
	4	...	...	29-42	32	90	-164	...	St., Cu.-Nb.	10	o c	Var.	1	...	...	E.N.E.	1	Noon. Continuous sunshine through clouds.
	8	...	...	29-43	30	91	-151	A.-Cu.	Cu.-Nb., St.	10	o c	S.W.	3	...	...	E.N.E.	1	1 0 Sky clearing; passing Cl. and Cl.-Cu. clouds.
	Mid-night.	...	...	29-44	29	100	-159	A.-Cu., A.-St.	Cu.-St.	6	b c	W.S.W.	3	...	...	...	...	2 30 Clouded over.
	4	...	...	29-41	30-8	70	-123	Cl.-Cu.	Cu.-St., St.	3	b c	W.S.W.	3	...	...	...	...	5 30 Snow squalls set in with passing thick mists.
	8	...	...	29-40	34-4	71	-142	...	Cu.-St.	1	b	S.W. by W.	2	...	...	...	...	8 0 Keeping in touch with line of pack ice.
	Noon	64 50½	113 16	29-37	31-8	81	-144	...	Cu.-St.	0	b	W.	5	W.	1	...	...	11 0 Set in heavy snow with continuous thick mist. Breeze moderating throughout.
	4	...	...	29-37	32-3	86	-157	...	Cu.-Nb., Cu.	7	b c	W.	4	W.	1	W.	1	1 45 Wind dying away.
	8	...	...	29-37	31	84	-146	Cl.	Cu.-Nb., St.	6	b c	W. by S.	3	...	...	...	...	2 0 Weather clearing. Snow taking off.
	Mid-night.	...	...	29-36	28	95	-146	...	Cu.-Nb., St.	10	o c	S.W. by W.	3	...	...	W.	1	4 0 Heavily overcast, but clear.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.			
1914. January 12	4	...	...	29-35	28	88	-135	...	Cu.-Nb.	10	o c	S.E. by E.	2	...	...	...	4 0	Heavily overcast weather throughout.
	8	...	...	29-29	31.1	87	-152	...	Cu.-Nb., St.	10	o c	N.E.	4	...	...	...	5 0	Breeze freshening and still veering.
	Noon	64 37	108 50	29-25	31.2	89	-153	...	Cu.-Nb.	10	o c	E.	5	E.	1	Confused	1	Noon. Sun showing up faintly at rare intervals. 1 0 Wind freshening; sea rising. Heavy clouds working up from windward. 1 30 Weather thickening. 3 0 Sky lightening again and clear weather. 4 0 Keeping along from point to point of pack ice.
	4	...	...	29-19	31.5	92	-164	...	Cu.-Nb., Cu.-St.	10	o c	E.	7	E.	3	Confused, E.	3	8 0 Light snow.
	8	...	...	29-08	31.9	96	-172	...	Nb.	10	o m s	E.	7	E.	4	Confused, E.	5	8 0 Light snow.
	Mid- night.	...	...	29-02	32.3	99	-180	...	Nb.	10	o m s	E.	8	E.	4	Confused, E.	5	Midnight. Frequent snow squalls and thick weather at times.
13	4	...	...	29-04	32	100	-180	...	Nb.	10	o m s	E.	8	E.	5	Confused, E.N.E.	6	4 0 Continuous thick weather and snow. Clearing up a little at rare intervals.
	8	...	...	29-07	32	97	-174	...	Nb.	10	o m s	E.	7	E.	5	Confused, E.N.E.	5	8 0 Sea moderating a little.
	Noon	64 14	104 35	29-11	32	100	-180	...	Nb., Cu.-Nb.	10	o m c s	E.	8	E., Confused.	6	Confused.	7	Noon. Continuous light snow; heavy at times. Sun faintly visible at times through clouds.
	4	...	...	29-14	31	100	-173	...	Nb.	10	o m s	E. by S.	7	E. by S.	5	E. by S.	6	4 0 Continuous snow and thick mist throughout watch. Clearing off at 4 p.m. Sunshine through clouds throughout.
	8	...	...	29-21	30.5	100	-170	...	Cu.-Nb., St.	10	o m p	E. by S.	6	E. by S.	3	E. by S.	5	5 0 Clear weather; ice blink to S.W. 5 45 Weather thickening again. 8 0 Passing snow squalls and thick weather. 9 0 St. moving fast from S.E. 10 0 Wind and sea moderating. E. swell still holding.
	Mid- night.	...	...	29-24	30.6	97	-164	...	Nb.	10	o m p	E.S.E.	4	E.S.E.	1	E.	4	Midnight. Snow since 11 p.m.
14	4	...	...	29-33	33.1	79	-148	...	Nb.	10	o c m	S.E.	3	Confused	1	E.	2	2 0 Clouds breaking. Passing roll of Cu. with blue sky visible overhead between layers. Heavy Nb. hanging round horizon. 2 30 Wind backing. 3 0 Overcast again.
	8	...	...	29-38	32.8	82	-151	...	Nb.-St.	10	o c m	E.S.E.	1	...	...	E.	1	4 0 Dull misty weather. Pack ice very heavy. 8 0 Slightly misty. Light very bad for seeing ice. 9 0 A.-St. moving from N. by E.
	Noon	63 15	101 42	29-42	32.1	96	-173	A.-St.	Nb., St.	10	o c m	E.S.E.	2	...	...	E.	1	Noon. Fog banks about; sunshine through clouds. A.-St. moving slowly from N.E. 1 0 Sky clearing to N. 2 30 Blue sky with passing Cu.-St. clouds. 4 0 Mist hanging round horizon.
	4	...	...	29-42	33.8	82	-157	Cl.-Cu.	Cu.-St.	7	b c m	E.	1	...	...	...	...	8 0 Hazy round horizon.
	8	...	...	29-37	31	100	-173	A.-Cu., A.-St.	Cu.-St.	8	b c z	N.	2	...	...	...	...	9 0 St.-Cu. moving past from N.N.E. A.-Cu. in S.W. and W.
	Mid- night.	...	...	29-29	31	97	-167	...	St.	2	b c	N.E.	3 or 4	N.E.	1	...	...	10 30 Sky clearing. First and second magnitude stars visible. 1 30 Sky clouding over and wind freshening. 2 45 Sun showing above horizon for a few minutes before rising behind clouds.

METEOROLOGY.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
				Direction from—	Dis- turbance, 0-10.						Direction from—			Dis- turbance, 0-10.					
1914. January																			
15	4	...	...	29-22	31-9	89	-161	...	Cu.-St.	10	o c	E. by N.	5	Confused	2	...	...	4 0	Great deal of drifting ice and bergs about.
	8	...	...	29-13	32	89	-161	...	St., Cu.-St., Cu.-Nb., Nb., Cu.-Nb.	10	o c	N.E. by E.	5	N.E. by E.	2	N.E.	1	8 0	Sun frequently visible through clouds.
	Noon	62 46	98 56	29-09	32	85	-153	...	Nb., Cu.-Nb., Cu.-Nb.	10	o c m p	E. by N.	5	E. by N.	Confused, N.E.	1	Noon.	Frequent light snow squalls with passing mists. Sun occasionally visible through clouds.	
	4	...	...	29-10	34	87	-171	...	Nb., Cu.-Nb.	10	o c m p	E.N.E.	5	E.N.E.	2	E.N.E.	1	3 30-3 45	Heavy snow squalls.
	8	...	...	29-10	34-8	89	-179	...	Nb., Cu.-Nb., Cu.-St., Fr.-Cu. St.	10	o c m p	N.E.	4	N.E.	1	E.N.E.	1	4 0	Sun occasionally visible.
	Mid- night.	...	...	29-08	33	89	-168	...	Fr.-Cu. St.	10	o c	E.N.E.	3	...	...	E.N.E.	1	5 15-6 15	Heavy snow and thick weather.
	Mid- night.	...	...	29-08	33	89	-168	...	Fr.-Cu. St.	10	o c	E.N.E.	3	...	...	E.N.E.	1	8 0	Sun occasionally visible. Passing snow squalls.
16	4	...	...	29-08	30-8	97	-166	...	Nb.	10	o m s	E.N.E.	4	E.N.E.	1	E.N.E.	1	Midnight.	Fr.-Cu. moving slowly from N.E. No snow since 9 p.m. Overcast throughout.
	8	...	...	29-09	32	89	-161	...	...	...	m s	N.N.W.	1	...	...	...	3 0	Wind freshening.	
	Noon	62 59	95 47	29-14	36	86	-181	...	Cu.-Nb., Cu.-St., Cu., Cu.-Nb., Cu.-St.	10	o c	Calm	0	...	...	...	4 0	Continuous snow and thick weather since 2 a.m.	
	4	...	...	29-20	36-1	86	-181	...	Cu.-Nb., Cu.-St., Cu.-Nb., Cu.-St.	8	b c	Calm	0	...	...	...	4 30	Wind dropping rapidly.	
	8	...	...	29-24	35	90	-182	A.-Cu., A.-St.	St., Nb.	10	o c	N.N.W.	1	...	...	...	5 0	Thick fog, light snow at intervals.	
	Mid- night.	...	...	29-31	32	98	-177	...	Nb., Cu.-Nb., Cu.-St.	7	b c m w	N.W. by N.	1	...	...	...	8 30	Mist lifting a little.	
	Mid- night.	...	...	29-31	32	98	-177	...	Nb., Cu.-Nb., Cu.-St.	7	b c m w	N.W. by N.	1	...	...	...	10 30	Entered pack ice. Clear weather since 9-30 a.m.	
17	4	...	...	29-34	32-1	99	-179	...	Nb., Cu.-Nb., Cu.-Nb., Cu.-St., Cu.-St.	10	o c m	N.W.	1	...	...	...	Noon.	Sunshine through clouds.	
	8	...	...	29-34	33-5	94	-181	A.-Cu.	...	10	o c	N. by W.	3	...	...	...	4 0	Fine weather throughout. Lightly over- cast up till 3 p.m.	
	Noon	62 21	95 9	29-37	34	90	-176	A.-Cu.	...	10	o c	N.N.W.	3	...	...	...	6 0	Mackerel sky, movement very slow from S.E.	
	4	...	...	29-34	35	90	-182	...	Cu., Cu.-Nb., Cu.-St., Cu.-St.	8	b c z	N.W. by N.	4	N.W.	1	N.W.	1	9 0	Mackerel sky in N.W. A.-St. bank in S. and S.E.
	8	...	...	29-30	34	96	-187	...	Cu., Cu.-Nb., Cu.-St., Cu.-St.	10	o c	N. by W.	2	...	...	N.W.	1	10 30	Cleared pack ice; sky clearing. Stars of greater magnitude visible.
	Mid- night.	...	...	29-22	32	100	-180	...	Nb., St.	10	o c z	N.N.W.	2	...	...	N.W.	1	Midnight.	Very bad light. Thick Nb. patches round horizon. Numbers of bergs and a lot of scattered ice about.
	Mid- night.	...	...	29-22	32	100	-180	...	Nb., St.	10	o c z	N.N.W.	2	...	...	N.W.	1	1 30	Overcast and mist thickening slightly.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1914. January 18	4	...	...	29-15	31	98	-170	...	Nb., St.-Cu.	10	o c m	E.	2	...	...	N.W., Confused.	1	3 45 Overcast throughout. Mist settling down.	
	8	...	...	29-05	31.3	97	-169	...	Nb., St., St.-Cu.	10	o c m	E.S.E.	5	...	...	N.W., Confused.	1	4 0 Damp atmosphere. Misty weather. Pack ice to S. 5 0 Weather clearing a little. 8 0 Much clearer. Skirting pack ice. 9 0 Clear weather. Overcast throughout watch. Dense St.-Cu. moving fairly fast from S.E. 11 30 Sky lightening. Sun faintly visible at intervals. Wind freshening steadily throughout afternoon.	
	Noon	63 40	92 59	29-00	31	98	-170	...	Cu.-St., Cu.-Nb.	10	o c	S.E.	4	...	...	W.N.W.	1	Noon. St.-Cu. moving fast from S. by E.	
	4	...	...	28-95	29.8	92	-150	...	Cu.-Nb. Cu.-Nb.	10	o c v q	S.E.	5 or 6	S.E.	1	Confused	1	3 0 Wind squally. Overcast throughout. 4 0 Very clear. 5 30 Sky breaking. 5 45 Sun shining.	
	8	...	...	28-98	27.5	88	-132	Cl.	Cu.	9	c	S.E. by S.	6	S.E.	1	Confused	1	8 0 Blue sky in patches. 11 0-11 30 Making way S. through scattered pack ice.	
	Mid-night	...	...	29-02	26.5	86	-123	...	Cu., A.-St.	4	b c	S.E. by E.	5	...	...	W.N.W.	1	Midnight. Clear weather throughout, with blue sky and passing Cu. clouds.	
	4	...	...	29-06	25.8	...	...	...	Cu.-St.	10	c q	S.E.	4	...	...	N.W.	1	1 0 Dark clouds of St. on horizon, and gradually gathering overhead. 2 0 Clouded over.	
	8	...	...	29-15	29	77	-123	...	Cu.-Nb., Cu.-St.	10	c q	S.E.	4	...	...	N.W.	1	4 0 Blue sky visible between clouds. 8 0 Clear but cloudy weather throughout.	
	Noon	64 59	90 8	29-21	29	87	-138	...	Cu.-St., Cu.-Nb.	10	c	E.	4	...	...	N.W.	1	Noon. Cloudy weather throughout morning, with sun frequently visible. Passing a lot of drift ice. Cu. moving slowly from E.S.E.	
	4	...	...	29-26	30.1	82	-139	Cl.	Cu., Cu.-St.	7	b c	E.S.E.	3	...	...	N.W.	1	0 30 Sky clearing. 1 0 Blue sky passing Cl. and Cu. clouds. Breeze moderating.	
8	...	...	29-28	30.1	87	-145	...	Cu.-Nb., St.	10	o c	E.	3	...	...	N.N.W.	1	3 0 Sky clouding over again slightly. 4 30 Sky clouded over. 6 0 Cu. moving from S.E.		
Mid-night	...	...	29-33	31	85	-147	...	Cu.-Nb., St.	10	o c	E. by N.	4	E. by N.	1	Confused	1	8 0 Making way through broken pack ice. Midnight. Overcast throughout. Strong blink to S. over land.		
20	4	...	...	29-36	31	92	-160	...	Nb.	10	o c p	E. by N.	5	E. by N.	1	E. by N.	1	12 30 Sharp snow squall.	
	8	...	...	29-36	31	89	-154	...	Nb., St.	10	o c	E. by N.	4	E. by N.	1	E. by N.	1	1 30 Mass of bergs to S. 2 0 Wind freshening.	
	Noon	65 47	90 39	29-34	32.3	76	-139	...	Nb.-St., Cu.-St.	10	o c	E. by N.	5	E. by N.	1	E. by N.	2	2 30 Freshening snow squalls. 4 0 Weather misty at times. 8 0 No snow or thick weather since 5 a.m.	
	4	...	...	29-31	32	77	-139	...	Cu.-St.	10	o c	E. by S.	3	E.	1	E.	1	10 0 Clouds lightening. Noon. Lightly overcast; sun visible through clouds. Masses of Cu. moving from E.	
	8	...	...	29-25	30	78	-130	...	Cu.-St.	2	b c	E.	3	...	...	...	...	2 0 Breeze rapidly moderating. 3 0 St.-Cu. moving slowly from E.	
	Mid-night	...	...	29-22	28	81	-124	...	Nb.-St., Cu., A.-St.	2	b c	E.	3	...	...	...	...	4 0 Lightly overcast. Sunshine through clouds. Very clear weather. 6 0 Clouds disappearing. 8 0 Approaching island.	
																			11 0 Heavy cloud bank to S.E. (nimbus).

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1914.	January																1 0 Heavy clouds working up from S.E.	
																	1 45 Few snowflakes falling.	
																	2 0 Breeze freshening slightly.	
																	2 15 Overcast with Cu.-Nb. clouds.	
																	2 30 Passing snow squalls.	
21	4	...	...	29-20	29	92	-147	...	Cu.-Nb.	10	o c p q	E.S.E.	4	E.S.E.	1	E.S.E.	1	4 0 Wind slightly squally.
	8	...	...	29-18	31	87	-151	...	St.	10	o c	S.S.E.	3	...	...	...	...	8 0 Lightly overcast. No snow since 5 a.m.
	Noon	65 46	92 13	29-17	30.8	83	-142	...	Nb.-Cu. Cu.-St.	9	b c	S.E.	3 or 4	S.E.	1	...	...	8 30 Sky breaking up.
	4	...	...	29-20	30.5	86	-145	...	Nb.-St.	10	o c	E.	4	E.	1	E.	1	Noon. Sunshine through clouds throughout.
	8	...	...	29-25	30	86	-142	...	Cu.-St. Nb., St.	10	o c	E.	4	...	...	...	...	1 0 Overcast.
	Mid-night.	...	...	29-26	28	94	-132	...	Nb.-St.	10	o c	S.E. by E.	2	...	...	...	...	4 0 Standing in towards land which is about 25 miles distant to S.
22	4	...	...	29-29	24	94	-127	...	Nb.-St.	10	o c	E.S.E.	3	...	...	...	...	8 0 Heavy clouds to N. Breeze falling rapidly.
	8	...	...	29-31	25.5	69	-095	...	Nb.-St.	10	o c	S.E. by E.	3	...	...	...	...	1 0 A little misty at times with occasional light falls of sago snow.
	Noon	66 23.5 [D.R.]	92 27	29-32	26.2	86	-122	...	Cu.-Nb.	10	o m	E. by N.	3	...	...	...	...	2 15 Sun visible for a few minutes, rising over land.
	4	...	...	29-30	29	78	-125	...	St.	10	o c	E. by N.	3	...	...	...	...	4 0 Clear weather heavily overcast throughout. Floe ice breaking up all the time and drifting N.
	8	...	...	29-26	28.5	82	-129	...	Cu.-St.	10	o c	E.N.E.	5	E.N.E.	1	E.N.E.	1	Noon. Passing mist. Cu. moving from N. by E.
	Mid-night.	...	...	29-24	28.5	94	-147	...	St. Cu.-Nb.	10	o c	E.N.E.	6	E.N.E.	2	E.N.E.	3	2 15 Left floe ice and stood N.
23	4	...	...	29-20	27	96	-141	...	Cu.-Nb., Nb.-St.	10	o c q	E. by N.	8	E. by N.	4	E. by N.	4	4 0 Sun visible through clouds at times.
	8	...	...	29-21	25	94	-127	...	Cu.	10	c q	E.	9	E.	5	E. by N.	5	6 0 Wind freshening.
	Noon	66 4	93 33	29-17	25.5	94	-129	...	Cu.-St. Cu.-Nd.	10	o c q	E.	9	E.	5	E. by N.	5	11 0 Wind freshening.
	4	...	...	29-10	28	94	-144	...	Nb.	10	o m s q	E.	9	Confused	4	E.	3	2 0 Wind and sea rapidly increasing.
	8	...	...	29-11	27.6	100	-151	...	Nb.	10	o m s q	E.	9	Confused	4	E.	4	4 0 Overcast throughout. Squally.
	Mid-night.	...	...	29-07	26	100	-141	...	Cu., Nb.	10	o c m q	E.	10	Confused	4	E.	4	7 30 Sky breaking. Sun visible.
24	4	...	...	29-02	26.5	100	-144	...	Nb.	10	o m s q	E.	10	E.	4	E.	4	8 0 Sunshine through clouds.
	8	...	...	29-01	27	94	-138	...	Nb.	10	o m s q	E.	9	E.	5	E.	5	Noon. Same weather conditions. Sunshine through clouds throughout.
	Noon	66 8	93 27 [D.R.]	28-98	27.4	99	-148	...	Nb.	10	o m s q	E.S.E.	9	E.S.E.	4	E.S.E.	4	2 0 Snow and thick weather setting in.
	4	...	...	28-98	28.5	99	-154	...	Nb.	10	o m s q	E.S.E.	10	E.S.E.	5	E.S.E.	5	4 0 Sea broken up by numbers of bergs. Driving snow and sleet.
	8	...	...	28-99	28	100	-153	...	Nb.	10	o m s q	E.	10	E.	5	E.	5	8 0 Hard squalls. Continuous mist.
	Mid-night.	...	...	29-02	26.2	98	-139	...	St., Nb.	10	o m s q	E.	9	E.	3	E.	2	8 0 Sea rapidly moderating.
																		9 30 Squalls of hurricane force. Slight lulls between squalls.
																		11 0 Made barrier. Snow and mist clearing off and sky lightening towards mid-night.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.				
1914. January 25	4	...	...	29-03	26	98	·138	Cl.-St., Cl.-Cu.	St., Cu.	8	b c q m	E.	7/8	E.	3	E.	2	Sky clearing throughout and wind moderating towards 4 a.m.	
	8	...	...	29-01	27-2	98	·145	Cl.-St., Cl.-Cu., A.-Cu.	St.	8	b c q	E.	8	E.	3	E.	2	4 0 Very thick snow drift over barrier.	
	Noon	66 1	94 22	29-01	29	98	·156	...	Cu.-Nb.	10	o c q m p	E.	8	E.	3	E.	2	8 0 Same weather conditions. Sun visible throughout watch.	
	4	...	...	29-01	30	95	·157	...	Cu.-Nb.	10	o c q m	E.	9	E.	3	E.	2	9 0 Cl.-Cu. moving fast from the E.	
	8	...	...	29-08	28-7	100	·157	...	Nb.	10	o c m q	E.	9	E.	3	E.	2	10 40 Clouded over. Light snow at intervals.	
	Mid- night.	...	...	29-11	28-3	100	·155	...	Cl.-Nb.	10	o c m q	E.	7	E.	1	Confused	2	Noon. Sun occasionally visible between rapidly passing clouds. Wind increasing during afternoon. Clouds passing very fast. Frequent sunshine through clouds up till 3-45, when weather thickened.	
																			5 30 Snow and thick weather.
																			6 0 Very thick.
																			9 30 Wind moderating a little and weather clearing.
																			Midnight. Wind moderating, less drift over barrier.
26	4	...	...	29-15	29	100	·159	...	Cu.-Nb., Nb.-St.	10	o c q	E. by S.	6 or 7	E.	2	E.	2	12 30 Snow taking off.	
	8	...	...	29-14	28-8	97	·152	...	Cu.-Nb., Nb.-St.	10	o c q	E. by S.	7	E.	2	E.	2	1 0 Clear weather. Land visible to S. and W.	
	Noon	66 0	94 22	29-16	31-5	96	·169	...	Cu., Cu.-Nb.	8	b c q s m	E.S.E.	7	E.	2	E.	2	4 0 Occasional light driving snow. Wind freshening towards 8 a.m.	
	4	...	...	29-20	32-2	97	·175	Cl.-St., Cl.-Cu.	St., Cu., Cu.-Nb.	8	b c q	E.S.E.	6	E.	2	Confused	1	Sunshine through clouds.	
	8	...	...	29-20	31-3	92	·162	...	Cu.-St., Cu.-Nb.	8	b c	E.S.E.	3	...	...	...	...	9 0 Blue sky and passing Cu. clouds.	
	Mid- night.	...	...	29-20	29-8	91	·150	...	Cu.-Nb., Nb.-St.	7	b c	E.S.E.	2	...	...	...	...	11 0 Light snow and weather thickening a little.	
																			12 30 Clear weather. Very little drift over barrier.
																			3 0 Fleecy St.-Cu. moving fairly fast from E.S.E.
																			3 30 Heavy clouds clearing off to W. Wind moderating.
																			4 0 Fine, clear weather.
27	4	...	...	29-19	27-5	94	·141	...	Cu.-Nb., Cu.-St.	10	o c	S.E. by E.	3	...	...	...	...	6 0 Wind rapidly moderating.	
	8	...	...	29-20	30-3	88	·148	...	Cu.-Nb., Cu.-St.	10	o c	S.E. by E.	3	...	...	...	...	8 0 Streak of clear sky to S.	
	Noon	66 8	94 20 [D.R.]	29-17	32	89	·161	A.-Cu., Cl.-St.	Cu., Cu.-St.	6	b c	E.S.E.	3	...	...	...	...	1 0 Breeze freshening slightly.	
	4	...	...	29-17	30-1	85	·180	A.-Cu.	St.	9	b c	Calm	0	...	...	...	...	3 0 Clouded over.	
	8	...	...	29-22	33	95	·178	...	Cu.-St.	10	c	E.	2	...	...	...	...	4 0 Clear weather throughout.	
	Mid- night.	...	...	29-26	32	89	·161	...	Cu.-St., Nb.-St.	10	o c w	E.	2	...	...	...	...	8 0 Lightly overcast. Cloudy weather throughout.	
																			9 45 Sky clearing.
																			Noon. Very clear weather. A.-Cu. moving slowly from S.E. Fleecy St.-Cu moving slowly from E.
																			2 0 Calm.
																			3 0 Clouding over lightly.
																		4 0 Making E. by N. (T.). Clear weather.	
																		5 0 Clouded over.	
																		6 0 Fr.-Cu. moving slowly from E.	
																		8 0 Lightly overcast.	
																		9 0-10 45 Very light snow.	
																		11 20-4 0 Light mist.	
																		Midnight. Air very damp.	

METEOROLOGY.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1914. January 28	4	...	...	29-31	31.2	97	-167	...	Cu.-St., Cu.-Nb.	10	o c	E.	2	...	...	1 0 Snow flakes falling; heavily overcast. 2 0 Light snow and slightly misty. 3 0 Clouds lightening. 4 0 Lightly overcast. Light snowflakes falling. 5 0-5 30 Sun visible through clouds. 5 30 Heavily overcast. Misty weather with light snow. 9 0 Misty weather at times. Snow taking off.		
	8	...	...	29-34	31	100	-173	...	Cu.-St., Nb., Cu.-Nb. St.	10	o c m s	E.	3	...	...	9 0 Misty weather at times. Snow taking off.		
	Noon	65 18	95 20 [D.R.]	29-40	32	93	-169	...	...	10	o m	N.	1	...	...	Noon. Thick weather, fairly clear round horizon in places. Sun faintly visible.		
	4	...	...	29-47	32.5	93	-171	...	Cu.-Nb., Nb.-St.	10	o c	E.N.E.	3	...	...	1 0 Very thick. Blue sky overhead, with passing Cu. clouds. 3 0 Mist cleared off. Sky overcast. 4 0 Heavily overcast, but clear weather. 5 0-6 0 Sky lighter.		
	8	...	...	29-58	31.3	97	-169	...	Nb.	10	o m p	E.N.E.	3	...	...	8 0 Frequent light snow.		
	Mid-night.	...	...	29-52	31.4	97	-170	...	Nb.	10	o m p	E.N.E.	3/4	...	...	Midnight. Heavily overcast.		
	29	4	...	...	29-52	30.9	100	-172	...	St., Nb., Nb.-St. Nb.	10	o p	E.N.E.	3	...	...	12 30-3 30 Continuous snow and thick weather.	
		8	...	...	29-50	31	100	-173	...	...	10	o m s	E.	3	...	...	4 0 Fairly clear weather. Lightly overcast. Clouds lightening. 8 0 Frequent light snow and passing thick weather.	
		Noon	65 5	96 8	29-47	31.5	97	-170	...	Cu.-Nb.	10	o	E. by N.	3	...	...	Noon. Snow up till 10 a.m. Heavy clouds. Sun faintly visible.	
		4	...	...	29-42	31.5	100	-177	...	Nb.	10	o m s	E.N.E.	3 or 4	E.N.E.	2	2 0 Light snow and weather thickening. 2 45 Heavy snow, with very large flakes. 3 0 Wind freshening a little. 4 0 Snow and thick weather. Mist lifting at intervals. 5 0 Snow and mist taking off. Clouds breaking. 5 30 Sun visible through breaks in clouds. 9 0 Heavy overcast. 9 10 Light snow and mist.	
		8	...	...	29-37	31.3	97	-169	A.-Cu.	Cu.-Nb., St.	8	b c	E.	3 or 4	...	...	1 0 Snow taking off and weather clearing.	
		Mid-night.	...	...	29-32	31	95	-160	...	Nb.	10	o m s	E.	3 or 4	...	...	4 0 Clear weather; no snow since 1 a.m. Heavily overcast throughout. Wind slightly squally.	
30		4	...	...	29-27	29.6	99	-162	...	Nb.-St.	10	o q	E. by S.	3 or 4	...	...	8 30 Sky breaking up. Sun showing; passing Cu. clouds. 9 15 Left ice floe.	
		8	...	...	29-25	31.2	87	-152	...	Nb.-St.	10	o c	E. by S.	3 or 4	...	...	Noon. Fine, clear weather. Drift over barrier Fleecy St.-Cu. moving fairly fast from E.	
		Noon	64 53	95 59 [D.E.]	29-24	31.5	92	-164	Cl.-St.	St., Cu.	8	b c	E. by S.	4	...	Confused	1	1 0 Wind freshening slightly. Clouding over lightly with Cl. clouds. 4 0 Layer of Cl.-Cu. overhead. Line of blue sky nearer horizon. Making way through masses of bergs. 3 0 St.-Cu. moving fairly fast from E. 4 30 Heavily overcast. 5 15 Suddenly cleared again. 6 0 Cu. moving fast from S.E. by E. 9 0 Cu. moving fast from S.E. 10 0-11 15 Clouded over and cleared again.
		4	...	...	29-19	32	88	-159	Cl.-Cu.	St.	7	b c	E.S.E.	4	E.S.E.	1	...	Midnight. Numbers of stars visible.
		8	...	...	29-16	29.8	100	-175	...	Cu.-St.	1	b	S.E.	4	...	Confused	1	
		Mid-night.	...	...	29-13	27	96	-141	...	Cu.-Nb.	4	b c	S.E. by E.	3	...	...	...	

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent- age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis- turbance, 0-10.	Direction from—	Dis- turbance, 0-10.	
1914.																		
January																		
31	4	...	...	29-13	20.5	94	-104	...	Cu.-St., St.	8	b c	S.E.	1	...	...	...	...	1 0 Wind dying away. 4 0 Clear sky at times.
	8	...	...	29-14	28.7	69	-110	...	St.	10	o c	S.S.E.	1	...	...	...	...	8 0 Cloudy throughout. 9 30 Sky clearing.
	Noon	64 40	97 22	29-16	35.6	72	-151	A.-Cu.	St.	8	b c	S.E.	1.	...	...	...	...	Noon. Sunshine through clouds.
	4	...	...	29-25	31.5	83	-148	A.-Cu.	St., Cu.-St.	10	c	E.S.E.	2	...	...	...	...	4 0 Sunshine through clouds throughout. 6 0 Heavily overcast.
	8	...	...	29-32	30.7	92	-168	...	Nb.	10	o m s	E.S.E.	3	...	...	...	...	6 10 Light snow and mist. 9 0 Snow and mist taking off.
	Mid- night.	...	...	29-38	32	93	-169	...	Cu.-Nb., Nb.-St.	10	o	E.	3 or 4	...	...	...	...	Midnight. Heavily overcast throughout. 1 30 Fine snow and mist.
February																		
1	4	...	...	29-44	31.2	98	-171	...	Cu.-Nb.	10	o c p q	E. by S.	4	E. by S.	1	...	...	4 0 Heavily overcast throughout, passing light mists and fine light snow. Damp atmosphere. Wind slightly squally.
	8	...	...	29-49	32	92	-167	...	Cu.-Nb.	10	o c	S.E. by E.	4	E.S.E.	1	...	...	8 0 Overcast throughout.
	Noon	64 26	97 45 [D.R.]	29-49	33.5	92	-178	...	Cu.-Nb.	10	o c	E.S.E.	4	E.S.E.	1	...	...	10 15 Sun occasionally visible through clouds.
	4	...	...	29-48	33	96	-179	...	St., Nb.-St.	10	o c	S.E. by E.	4	S.E. by E.	1	...	...	4 0 Cloudy and overcast throughout, with sun visible at intervals.
	8	...	...	29-45	29	100	-159	...	...	...	m	S.S.E.	3	...	...	...	...	7 0 Weather thickening. 8 0 Thick mist.
	Mid- night.	...	...	29-38	30.3	97	-162	Cl., Cl.-St.	...	2	b c	S.W. by S.	3	...	...	S.W.	1	10 30 Mist very thick; wind backing into S.W. 11 10 Mist clearing off. 11 30 Stars visible. 11 45 Clear weather, with blue sky and passing Cl. clouds spreading out from S.W. horizon.
2	4	...	...	29-35	30.5	94	-160	Cl., Cl.-St.	...	4	b c	S.W. by S.	4	S.W. by S.	1	...	...	Midnight. Noah's Ark from S.E. to N.W.
	8	...	...	29-32	31.7	82	-146	Cl.-Cu., Cl.-St., Cl.	...	10	b c	S.W. by S.	5	S.W. by S.	1	Confused	1	4 0 Wind freshening slightly during watch. Clear throughout.
	Noon	63 56	96 40	29-33	31.7	92	-165	Cl., Cl.-St.	...	3	b c	S.S.W.	4 or 5	S.	1	Confused	1	8 0 Same weather conditions throughout. 8 30 Headed away N.W. at full speed to clear pack ice.
	4	...	...	29-34	32.5	94	-174	A.-Cu., Cl.-St.	...	10	o c	S.W.	4	S.W.	1	...	...	Noon. Making to N.W. through scattered drift ice.
	8	...	...	29-37	32.2	98	-178	...	Nb.	10	o m s	S.E. by S.	4	...	...	...	...	3 0 A.-Cu. moving fairly fast from S.E. Cl. moving from between N. and W.
	Mid- night.	...	...	29-44	31.3	97	-169	...	Nb.	10	o m p	S.E.	3	...	...	...	...	4 0 Lightly overcast. Sunshine throughout. 6 0 Set in thick weather with snow.



Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
February 3	4	...	...	29.48	30.9	96	.165	...	Nb.	10	o s m	S.E.	2	...	...	...	3 0 Thick weather taking off. 4 0 Fairly clear weather. Light snow falling.	
	8	...	...	29.51	32.8	97	.180	...	Nb.	10	o m	S.E.	2	...	...	...	8 0 Making way through pack ice towards N.W. point of barrier. Mist lifting a little at times.	
	Noon	63 54 [D.R.]	96 35 [D.R.]	29.54	33.2	98	.185	...	Nb.-St.	10	o m	S.E.	3	...	...	...	11 45 Reached open water. Noon. Weather clearing at times.	
	4	...	...	29.53	35	98	.198	Cl.-St., Cl.	...	2	b c	S.	2	...	...	...	1 0 Wind backed into S. Sunshine through Cu.-St. clouds; blue sky visible in places. 2 30 Sky clearing. Passing Cl.-Cu. clouds. Magnificent sunset.	
	8	...	...	29.55	32.3	97	.176	Cl.-Cu., Cl.-St.	...	3	b c	S.	3	...	...	...		
	Mid-night.	...	...	29.59	31.2	92	.162	Cl.-Cu., A.-Cu., A.-St.	Cu.-St.	10	b c w	S.S.W.	3	...	...	...	11 0 Aurora visible. Midnight Light dew. One or two stars visible in places through breaks in clouds.	
	4	4	...	...	29.62	31.5	94	.167	...	Mam.-Cu.	10	b c	S.W.	2	...	...	...	3 0 Gorgeous sunrise. 4 0 Blue sky visible between clouds. Sun rising behind cloud bank.
	8	...	...	29.65	29	98	.156	...	Nb.	10	o c	S.W.	3	...	...	S.W.	1	5 0 Sky gradually becoming overcast. 9 0 Light snow and weather thickening a little.
	Noon	64 41	93 59	29.68	29	96	.159	...	Nb.-St.	10	o c p	W.S.W.	3 or 4	...	...	...	Noon. Frequent light snow; clear weather; sun showed up through clouds.	
	4	...	...	29.68	31.5	92	.164	...	Cu., St.-Cu., Cu.-Nb.	8	b c	S.W.	2	...	...	...	1 0 Sky getting lighter. Sun through clouds. 2 30 Sky breaking, passing Cu. and Cu.-St. clouds. Blue sky in places.	
8	...	...	29.27	29.4	96	.154	...	...	10	o c	W.S.W.	2	...	...	S.W.	1	3 0 Fleecy St.-Cu. moving fast from S.W. 9 0 Fog banks about.	
Mid-night.	...	...	29.64	28.2	98	.151	...	Nb.-St.	10	o c	W. by N.	2	...	...	...	2 0 Breeze freshening. Skirting scattered pack throughout. Clouds lightening towards 4 a.m. Overcast and cloudy throughout.		
5	4	...	...	29.59	27	100	.147	...	Cu.-St., Nb.-St.	10	o c	W.S.W.	3 or 4	W.S.W.	1	...	5 30 Weather thickening.	
	8	...	...	29.53	28	93	.144	...	Mam.-Cu., St., Nb.-St.	10	o c	S.W.	3	...	...	...	6 45 Weather clearing again.	
	Noon	65 45	91 43	29.49	29.6	83	.136	...	Nb.-St.	10	o c z	W.S.W.	1	...	...	...		
	4	...	...	29.47	29.2	99	.159	...	Cu.-Nb., Nb.-St.	10	o c z	Calm	0	...	...	...	1 0 Flat calm. Ship drifting slightly E. 4 0 Mist over Drygalski Is. 5 0 Full ahead through drift ice.	
	8	...	...	29.40	27.5	94	.141	...	Mam.-Cu., Nb.-St.	10	o c	Calm	0	...	...	...	8 0 Ice getting heavier.	
	Mid-night.	...	...	29.39	28.5	75	.117	...	Nb.	10	o c	Calm.	0	...	...	...	11 0 Clouds darkening.	

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1914. February 6	4	...	...	29-40	26	95	-134	...	Cu.-Nb.	10	oc	S.E.	1	...	...	...	1 0 Light airs from S.E.	
	8	...	...	29-42	27.3	84	-125	...	Cu.-St., Nb.	10	oc	E.	1	...	...	...	4 0 Heavily overcast throughout.	
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Overcast throughout.	
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 0 Clouds lightening.	
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 45 Sun showing up. Blue sky in places.	
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11 30 Sky cleared altogether; leaving bank of St. round horizon.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noon. Fleecy St.-Cu. moving slowly from S.E.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 0 Faint confused swell.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2 30 Open water observed to N.; N.W. swell increasing.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Cloudless blue sky throughout.
7	8	...	...	29-49	33.3	86	-164	...	...	0	b	W.	1	...	...	N.W.	1	6 0 Clear of all pack.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 30 Light breeze from S.W. Cu. moving very slowly from W.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9 10 Clouding over.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10 0 Stars visible at times through breaks in clouds.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Midnight. A few bergs visible round horizon. Occasional patches of blue sky visible during watch.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Passing occasional bergs.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 40 Light snow for few minutes.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9 15 Breeze backed to N.E. and veered again at 10 a.m.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noon. Occasional very light snow and passing mists. Frequent sunshine through clouds. Black clouds on N. horizon; a few bergs.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1 0 Overcast.
8	4	...	...	29-45	34	99	-193	...	Cu.-Nb.	10	oc p	W.	3	...	...	W.N.W.	2	4 0 Frequent light snow. Sun occasionally visible through clouds after 3 p.m.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	7 0 Light passing mists.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11 0 Wind freshening and becoming squally.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Midnight. Stars faintly visible through breaks in clouds at times.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Patches of blue sky visible at times. Frequent mist and passing misty rain. Clearing at times. Passing occasional icebergs.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8 0 Passing mists and snow squalls with longer intervals of clear weather. Cu. moving fairly fast from W.S.W.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Noon. Passing snow squalls and mists. A good many bergs about. Sun frequently visible through clouds.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12 30 Wind backing.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4 0 Cloudy but clear weather throughout afternoon. No snow since noon. Clouds lightening towards 4 p.m. with occasional glimpses of sun.
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5 0 Wind backing.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.		
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.			
1914. February	9																	
	4	...	...	29-54	35-2	98	-200	...	Nb.-St.	10	o c m	N.N.W.	5	N.N.W.	2	W., Confused.	1	4 0 Slight mist. Damp atmosphere. Num- bers of bergs.
	8	...	...	29-50	36-5	98	-210	...	Nb.	10	o c m p	N.N.W.	5	N.N.W.	2	N.W.	2	8 0 Mist gradually thickening. Occasional misty rain.
	Noon	59 35 [D.R.]	91 58 [D.R.]	29-45	36-7	98	-212	...	...	...	m o	N.	4	N.	1	Confused	1	9 0 Mist thickening. 10 30 Breeze backed. Mist thickening. Sun faintly visible for about 3 minutes.
	4	...	...	29-39	37	98	-214	...	Nb.	10	o m	N. by W.	5	N.	2	N.N.W.	2	Noon. Thick very wet mist. One or two bergs. 1 0 Mist taking off a little.
	8	...	...	29-31	36-8	98	-213	...	Nb.	10	o m	N. by E.	5	N.	1	N.N.W.	2	2 0 Sky lightening. 2 30 Sun faintly visible for a few minutes. 3 0-3 15 Mist cleared off.
	Mid- night.	...	...	29-18	36-5	98	-210	...	Nb.	10	o m r	N.E. by N.	6	Confused	2	N. by E.	2	4 0 Very damp misty weather. Passing scattered icebergs.
	4	...	...	29-01	36-4	96	-205	...	Nb.	10	o m r	N.E. by E.	6 or 7	N.E., Confused.	2	N.E.	3	4 30 Mist very thick. 8 30 Steady rain set in.
	8	...	...	28-83	34-2	98	-192	...	Cu.-Nb.	10	o m q	N. by E.	7	N.E., Confused.	3	N.N.E.	4	4 0 Continuous rain throughout. Scattered bergs.
	Noon	58 56	93 15	28-83	36-1	94	-199	...	Cu., Cu.-Nb.	8	b c q	N.N.W.	7	N.E., Confused.	3	N., Confused.	4	7 0 Sky breaking; rain taking off and sun visible at times.
	4	...	...	28-85	36	90	-190	...	Cu.-Nb.	10	o c q p	N.W.	7	N.E., Confused.	4	N. by W.	4	9 0 Wind veering. 10 0 Mist taking off.
	8	...	...	28-80	36	85	-179	...	Cu.-Nb.	10	c q	N.W.	4 or 5	N.W.	2	N.N.W.	4	10 45 Clouds breaking; sunshine and blue sky at intervals.
	Mid- night.	...	...	28-92	36	94	-198	...	Cu.-Nb.	10	o c	N.N.W.	4	N.N.W.	1	N.N.W.	3	Noon. Fleecy Cu. moving fast from N.N.W. 2 0 Clouded over.
	4	...	...	28-95	36	90	-190	...	Cu.-Nb.	10	o c p	N.W. by N.	3	...	...	N.W.	4	4 0 Occasional rain squalls. Fleecy. Cu. moving fast from N.W. by N.
	8	...	...	28-96	37	95	-208	A.-Cu.	Cu.-St.	10	b c	Var.	2	...	...	N.W.	3	6 0 Wind moderating rapidly. Wind un- steady between N.W. and N.N.W. Brighter stars occasionally visible through clouds.
	Noon	57 40	95 16	28-97	38-5	94	-217	...	Cu.-St.	10	o c	Var.	1	...	...	N.W.	3	4 0 Light rain at intervals. Breaks in clouds in places. Several bergs visible round horizon.
	4	...	...	28-99	37-6	89	-201	...	Cu.-Nb., Cu.-St.	10	c	S.S.W.	3	...	...	Confused, W.	3	8 0 Blue sky between breaks in clouds.
	8	...	...	28-99	36	95	-200	...	St.	10	o c	W.S.W.	3	...	...	Confused	2	Noon. Lightly overcast, with sun visible through clouds. Several bergs in sight. St.-Cu. moving slowly from W.
	Mid- night.	...	...	28-99	36-3	97	-207	...	Nb.-St.	10	o c	W.S.W.	4	W.S.W.	1	Confused	2	1 0 Wind steadying into S.W. 3 0 Twenty-four bergs visible. 4 0 Lightly overcast weather with sun visible through clouds. Heavier clouds work- ing up from the S.
																		6 0 Heavy clouds. 9 0 St.-Cu. moving from W. by S. Midnight. Seven bergs passed during watch.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.	
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.			
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.				
1914 February 12	4	...	...	29-02	36.8	92	-200	...	Cu.-Nb.	10	oc	S.W.	5	S.W.	2	Confused	2	2 0 Breeze freshening. One berg passed during watch.	
	8	...	...	29-04	36	93	-196	...	Cu., Cu.-Nb.	8	bc	S.W.	6	S.W.	2	Confused	3	8 0 No ice seen during watch. 8 30 Sharp sleet squall.	
	Noon	55 9	95 58	29-08	37.1	91	-201	...	Cu., Cu.-Nb.	9	bc	S.W. by W.	6	Confused, S.W.	3	Confused, W.S.W.	3	9 0 Fleecy Cu. moving fairly fast from S.W. Noon. Rapidly passing clouds. No ice seen during watch.	
	4	...	...	29-06	37.2	98	-217	...	Cu.-Nb.	8	bcpq	W. by S.	6	Confused W.S.W.	3	W.	4	1 0 Passing rain squalls. 2 0 Westerly swell making. 3 0 Fleecy Cu. moving fairly fast from W.S.W.	
	8	...	...	29-06	37	90	-198	...	Cu.-Nb.	10	ocpq	W.	6	Confused	3	W.	5	4 0 Frequent rain squalls.	
	Mid-night.	...	...	28-97	36.3	97	-207	...	Nb.	10	opq	N.W.	6	Confused	3	W.	5	10-30 Breeze backing and becoming very squally.	
	13	4	...	...	28-84	36.5	100	-215	...	Nb.	10	opqm	N.W. by N.	7	N.W.	4	Confused	4	Midnight. Lulls between squalls. Frequent misty rain and sharp rain squalls at intervals. 4 0 Very squally, almost continuous misty rain, with sharp rain squalls at intervals.
	8	...	...	28-81	38.3	87	-202	...	Nb., Cu., Cu.-Nb.	6	bcpq	W.N.W.	7 or 8	W.N.W.	4	W., Confused.	5	4-30 Wind veering. 6 0 Clouds breaking. 8 0 Heavy hail and rain squalls at intervals. 9 0 Fleecy Cu. moving fast from W.N.W.	
	Noon	53 5	98 44	28-80	38	92	-211	Cl.-Cu.	Cu., Cu.-Nb.	5	bcpq	W.N.W.	8	W.N.W.	5	W.N.W.	6	2 0 Gale moderating slightly. 3 0 Wind veering.	
	4	...	...	28-86	38.1	92	-212	A.-Cu.	Cu.-Nb., Cu.	8	bcpq	W. by S.	8, 7	W., Confused.	5	W.	6	4 0 Hail and rain squalls at intervals.	
	8	...	...	28-95	38.5	88	-207	...	Cu.-Nb.	10	ocpq	S.W. by W.	7	W., Confused.	4	W.S.W.	7	8 0 Same weather conditions throughout. 9 0 Cu. moving fast from W.S.W.	
	Mid-night.	...	...	29-08	37	90	-198	Cl., A.-Cu.	Cu.-Nb.	6	bcpq	W.S.W.	7	W., Confused.	5	W.S.W.	7	11 0 Wind backed a point. Midnight. Squalls less frequent.	
14	4	...	...	29-15	37.1	91	-201	...	Cu., Cu.-Nb.	5	bcpq	W.S.W.	7 or 8	W.S.W.	5	W.S.W.	7	4 0 Frequent hail and rain squalls.	
8	...	...	29-29	36.3	97	-206	...	Cu., Cu.-Nb.	6	bcpq	W.S.W.	8	W.S.W.	6	W.S.W.	7	8 0 Same conditions throughout. 9 0 Cu. moving fairly fast from W.S.W.		
Noon	51 25	103 35	29-34	39.5	85	-204	...	Cu., Cu.-Nb.	7	bcpq	W. by S.	7	W.S.W.	6	W.S.W.	7	Noon. Frequent hail and rain squalls of shorter duration. 1 0 Wind moderating and squalls less frequent.		
4	...	...	29-36	38.1	87	-196	...	Cu., Cu.-St., Cu.-Nb.	5	bcpq	W.	6	Confused	5	W.	6	3 0 Cu. moving from W. 4 0 Occasional hail squalls.		
8	...	...	29-40	39.3	83	-201	...	Cu., Cu.-Nb.	5	bcpq	W.	6	Confused	4	W.	6	9 30 Aurora faintly visible to S.E. Cu. moving fast from W.		
Mid-night.	...	...	29-41	39.1	85	-204	Cl.	Cu.	4	bc	W.	5 or 6	W., Confused.	3	W.	6	10 45 Light rain squall. Midnight. Wind and sea slowly moderating.		

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.		
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Waves.		Swell.				
												Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.					
1914. February 15	4	...	...	29.41	39	86	205	Cl.	Cu.-Nb., Cu.	4	bc	W. by S.	5	Confused, W.	3	W.	5	4 0	Passing cloud banks at intervals. Wind unsteady.	
	8	...	...	29.43	39.2	89	213	...	Cu.-Nb., Cu.	4	bcp	W. by S.	5	Confused, W.	3	W.	4	4 15	Sharp hail squall.	
	Noon	49 48	107 6	29.48	41.9	80	212	Cl.-Cu.	Cu.-Nb., Cu.	8	bcpq	W.S.W.	5 or 4	W.S.W.	3	W.S.W.	4	8 0	Occasional hail squalls.	
	4	...	...	29.55	40.8	85	216	...	Cu., Cu.-Nb.	8	bcpq	S.S.W.	5 or 6	Confused	3	Confused, S.W.	5	9 12	Cu. moving fairly fast from S.W.	
	8	...	...	29.64	37	93	204	...	Nb., Cu.-Nb.	10	ocpq	S.S.W.	6	Confused	3	Confused, S.W.	4	Noon.	Wind slightly squally. Frequent rain squalls.	
	Mid-night.	...	...	29.62	40	82	202	...	Nb.-St., Cu.-St.	10	ocpq	W. by S.	6	Confused	3	W.S.W.	5	2 0	Wind veered into S.S.W. and freshening.	
16	4	...	...	29.47	40	100	246	...	Nb., Cu.-Nb., Nb.-St., Cu.-Nb.	10	ocpq	W.N.W.	7	Confused	4	W.S.W.	6	4 0	Cloudy weather throughout afternoon. Frequent rain.	
	8	...	...	29.43	44	94	271	...	Cu.-Nb.	10	ocpq	W.N.W.	8	Confused	4	W., Confused.	9	8 0	Cloudy and overcast throughout. Cu. moving fairly fast from S.W.	
	Noon	48 54	110 9	29.45	44.5	89	259	...	Cu.-Nb.	10	cpq	W.S.W.	8	W., Confused, S.W., Confused.	5	W., Confused, S.W., Confused.	7	10 30	Wind backed into W.S.W. Frereshening. Moon visible through clouds at times.	
	4	...	...	29.51	45.6	80	243	...	Cu., Cu.-Nb.	8	bcpq	S.W. by W.	8	Confused, S.W., Confused.	6	Confused, S.W., Confused.	7	1 0	Wind backing and freshening.	
	8	...	...	29.66	45	70	211	...	Cu.-Nb.	10	ocpq	S.W.	7	S.W.	4	Confused, S.W., Confused.	6	4 0	Very squally with very frequent rain. Very hard squalls.	
	Mid-night.	...	...	29.76	45	76	217	...	Cu.-Nb.	10	ocpq	W.S.W.	6	Confused	3	Confused, S.W., Confused.	6	8 0	Overcast throughout. Cu. moving fairly fast from W.S.W.	
17	4	...	...	29.82	45.5	79	240	...	Cu., Cu.-Nb., St.-Cu., Cu.-Nb.	9	bc	W.S.W.	6	W.S.W.	3	W.S.W.	6	10 30	Clouds breaking up.	
	8	...	...	29.85	46	88	274	...	...	10	oc	W.S.W.	6	W.S.W.	3	W.S.W.	5	4 0	Breeze steady throughout with no rain during watch.	
	Noon	46 8	113 44	29.84	48	91	307	...	Cu.-St., Cu.-Nb., Nb.-St.	10	ocq	N.W.	6	Confused	4	W., Confused, W.	5	9 0	Sunshine; clouds breaking up. Wind backing a little. Cu. moving fast from N.W.	
	4	...	...	29.85	49.3	96	338	...	...	10	ocqz	W.N.W.	6	Confused	4	Confused, W.	5	10 0	Wind backing into N.W.	
	8	...	...	29.91	49.3	97	343	...	Nb.	10	omp	W.S.W.	5	Confused	3	W.S.W.	4	Noon.	Wind squally and freshening.	
	Mid-night.	...	...	29.94	49.5	98	340	...	Nb.-St.	10	ocm	S.W.	3 or 4	S.W.	2	W.S.W.	4	4 0	Overcast throughout. Damp atmosphere. Slightly misty.	
18	4	...	...	29.97	48.3	96	325	...	Nb., Nb.-St.	10	ocmp	S. by E.	3 or 4	Confused	2	Confused	4	8 0	Frequent misty rain.	
	8	...	...	30.06	47	92	207	...	Cu., Cu.-Nb.	10	oc	S.E. by S.	5	Confused	2	S.S.W.	3	10 40	Wind veering into S.W.	
	Noon	44 19	117 0	30.07	48.1	85	285	...	Cu., Cu.-Nb., Cu.-St.	9	bc	S.E. by S.	5	S.E.	3	S. by W.	4	Midnight.	Misty round horizon. Overcast throughout.	
	4	...	...	30.10	48	79	261	...	...	10	c	S.E.	4	S.E.	2	S.	3	12 15	Wind falling light.	
	8	...	...	30.14	48.5	78	265	...	Nb.-St., Cu.-St., Cu.-St., Cu.-St., Nb.-St.	6	bc	S.E. by E.	3	E.S.E.	1	S.	2	1 30	Breeze veering into S. and freshening.	
	Mid-night.	...	...	30.11	48	78	250	...	...	7	bc	E., Var.	1	...	...	S.E.	2	4 0	Occasional light misty rain. Slightly misty and overcast weather.	
																		6 0	Wind veering into S.E. Clouds lightening.	
																		8 0	Sunshine through clouds frequently.	
																		9 0	Clouds breaking. Wind steady throughout watch. Cu. moving from S.E. slowly.	
																		3 0	Cu. moving slowly from S.E.	
																		4 0	Frequent sunshine through clouds.	
																		6 0	Wind veering. St.-Cu. moving slowly from E. by S.	
																			Midnight.	Breeze unsteady throughout, and falling light at 11:30 p.m.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.

METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA."

AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-cent-age.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1914. February																		
19	4	...	...	30.09	47.3	75	.244	...	Cu.-St., Cu.	10	c	E.N.E.	1	...	...	S.W., Confused.	3	1 0 Calm. 3 0 Light E.N.E. airs. 4 0 Blue sky visible at times. 6 0 Breeze veered into N.N.W.
	8	...	...	30.04	48.1	79	.262	...	Cl., Cl.-Cu.	7	b c	N.W. by N.	3	...	...	S.W., Confused.	3	9 0 St.-Cu. moving fast from N.W. 10 0 Breeze freshening.
	Noon	43 6	119 31	29.94	50.5	82	.306	...	Cu.	7	b c	N.W. by N.	5	N.W.	2	Confused	2	Noon. Fleecy Cu. moving fast from N.W.
	4	...	...	29.88	51.8	87	.336	...	Nb.-St., Cu.-St.	10	o c	N.W. by W.	6	N.W.	3	W.	3	3 0 Breeze freshening; sky clouding over. 4 0 Sun occasionally visible through clouds. 6 30 Sky clearing. Cu. moving fast from N.W.
	8	...	...	29.82	53	92	.369	...	Cu.-Nb.	3	b c w	N.W. by W.	6	N.W.	3	W.	3	8 0 Heavy dew. 8 50 Light misty shower and sky clouded over.
	Mid-night.	...	...	29.75	54	87	.361	...	Nb.	10	o c m	N.W. by W.	5 or 6	N.W. by W.	3	W.N.W.	3	Midnight. Breeze unsteady. 3 0 Light misty rain.
20	4	...	...	29.69	53	100	.402	...	Nb.	10	o r	W.N.W.	5	W.N.W.	2	W.	2	4 0 Heavily overcast throughout. Frequent misty rain.
	8	...	...	29.76	50	100	.360	...	Nb.	10	o m r	S.S.W.	5	Confused	2	Confused, W.S.W.	3	6 0 Wind shifted into S.W. by W. Continuous rain set in. 8 0 Continuous rain. 10 30 Continuous mist and rain took off. Passing showers up till noon, when sun showed up with blue sky and Cu. clouds to windward.
	Noon	41 32	122 39	29.80	50	95	.342	...	Nb., Cu.-Nb., Cu.	9	b c p	S.S.W.	6	S.S.W.	2	S.W.	3	Noon. Fr.-Cu. and St. moving fast from S.S.W. 12 15 Blue sky with passing Cu. clouds.
	4	...	...	29.81	52.3	78	.305	...	Cu.	4	b c	S. by W.	5	S.S.W.	3	S.W.	4	4 0 Fine weather throughout watch. 4 30 Sharp rain squall. Fr.-Cu. moving fairly fast from S.W.
	8	...	...	29.86	52	73	.281	...	Cu.-Nb.	2	b c p	S. by W.	5	S. by W.	3	S.W.	4	8 0 Passing rain squalls.
	Mid-night.	...	...	29.88	51	72	.269	...	Cu., Cu.-Nb.	3	b c p q	S.W. by W.	4 or 5	Confused	2	S.W.	3	Midnight. Breeze squally with passing rain.
21	4	...	...	29.91	51	72	.269	...	Cu.-Nb., Cu.	4	b c p q	W.S.W.	4	S.W.	2	S.W.	3	4 0 Breeze unsteady. Very occasional squalls with rain. 5 0 Breeze freshening.
	8	...	...	29.96	52.8	70	.279	...	Cu.	3	b c	W.S.W.	5	W.S.W.	3	S.W. by W.	3	9 0 Cu. and Fr.-Cu. moving fairly fast from W. 10 0 Breeze backing and freshening.
	Noon	40 4	125 51	29.99	55	76	.329	...	Cu.	5	b c	W.	6	W., Confused.	3	W., Confused.	3	
	4	...	...	29.96	56.7	76	.359	...	Cl.	5	b c	W.N.W.	6	W., Confused.	3	W.	3	
	8	...	...	29.97	58	73	.375	...	Cu.-Nb.	10	o c	W.N.W.	6	W. by N.	4	W.	3	
	Mid-night.	...	...	29.96	59	79	.394	...	Cu.-Nb.	8	b c p q	W.	6	W. by N.	4	W.	4	11 0 Breeze veering a little. Midnight. Frequent rain. Wind squally.

METEOROLOGICAL.

Table XIII.—THIRD ANTARCTIC VOYAGE—continued.  
 METEOROLOGICAL LOG KEPT ON BOARD S.Y. "AURORA." AUSTRALASIAN ANTARCTIC EXPEDITION, 1911-14.

Date.		Position.		Air Pressure in inches corrected and reduced.	Air Temperature in deg. F.	Humidity.		Clouds.			Weather.	Wind.		Sea Surface.				Remarks.
Day.	Hour.	S. Lat. deg. min.	E. Long. deg. min.			Per-centage.	Vapour Pressure.	Upper.	Lower.	Amount, 0-10.		Direction from True.	Force, 0-12.	Direction from—	Dis-turbance, 0-10.	Direction from—	Dis-turbance, 0-10.	
1914. February 22	4	...	...	29.93	56.5	85	-.389	...	Nb.,	5	b c p q	W. by S.	6	W.	4	W.	5	2 0 Sea making.
	8	...	...	30.03	59.7	72	-.370	...	Cu.-Nb., Cu., Cu.-Nb.	7	b c p q	W.S.W.	6	W.	5	W.	5	4 0 Breeze unsteady and very squally. Rain at intervals.
	Noon	38 33	129 20	30.05	60.5	78	-.402	...	Cu.	6	b c p q	S.W. by W.	6	W.S.W.	4	W.S.W.	5	8 0 Wind much steadier. Rain squalls less frequent.
	4	...	...	30.11	63.7	69	-.409	Cl.-St.	Cu.	4	b c	S.W. by S.	3	Confused, S.W.	2	Confused, S.W.	4	9 0 Cu. and Fr.-Cu. moving slowly from S.W. Noon. Fine weather throughout. Very occasional rain squalls.
	8	...	...	30.20	59	76	-.379	...	Cu.	0	b	S.W. by S.	4	Confused, S.W.	2	Confused, S.W.	4	1 0 Wind moderating rapidly.
23	Mid-night	...	...	30.24	60.5	73	-.388	...	Cu.-Nb.	10	c	S.W.	2	Confused, S.W.	1	Confused, S.W.	3	4 0 No rain during watch.
	4	...	...	30.26	60.8	76	-.405	...	Cu.-Nb.	7	b c	W.S.W.	1	...	...	S.W.	4	5 0 Breeze freshening again; Cu. and Fr.-Cu. moving slowly from W.S.W.
	8	...	...	30.34	61.9	75	-.411	A.-Cu.	Cu.-Nb.	9	b c	W.S.W.	1	...	...	S.W.	3	9 0 Wind dying away.
	Noon	37 13	132 10	30.37	62.6	69	-.407	...	Cu.-St.	10	c	W.	3	W.S.W., Confused, S.W.	2	S.W.	3	4 0 Light airs from W.S.W. throughout watch.
	4	...	...	30.37	62.9	72	-.415	...	Cu.-St.	10	o c	W.	3	W.S.W., Confused, S.W.	2	S.W. by W.	4	9 0 Cu. and Fr.-Cu. moving slowly from W. Noon. Blue sky round horizon to N. Breeze freshening.
	8	...	...	30.39	64.9	70	-.428	...	Cu.-St.	10	o c	S.W.	4	W.S.W., Confused, S.W.	1	S.W. by W.	3	3 0 General movement from W. of Cu. Noon. Cloudy weather throughout afternoon. Heavy clouds gradually working up from W. Sun clouded over at 3-30 p.m.
24	Mid-night	...	...	30.37	64.9	68	-.419	...	Nb.-St.	10	o c	S.W.	3	...	...	S.W. by W.	3	11 0 Clouds getting darker.
	4	...	...	30.37	63.7	73	-.429	...	Nb.-St., Cu.-St., Cu.-Nb., Cu.	10	o c	S.S.W.	3	...	...	S.W. by S.	3	4 0 Stars occasionally visible in places.
	8	...	...	30.42	62.4	82	-.461	...	Cu.-Nb., Cu.	9	b c	S.	3	S.S.W.	1	S.S.W.	3	8 0 Damp air.
	Noon	35 55	134 18	30.44	62.9	83	-.477	...	Cu., Nb., St.	8	b c p	S. by W.	3	...	...	S.S.W.	3	11 30 Passing misty rain showers.
	4	...	...	30.40	61.5	91	-.497	...	Nb., Cu.-Nb., Cu.	8	b c p	S.W. by S.	3	S.W.	1	S.W.	3	1 0 Breeze freshening from S.S.W.
	8	...	...	30.42	63.4	80	-.470	...	Cu., Cu.-Nb., Cu.-Nb.	10	o c p q	S.S.E.	5	S.S.E.	2	S.	3	4 0 Passing misty rain.
25	Mid-night	...	...	30.38	63.4	86	-.502	...	Cu.-Nb.	10	o c p q	S.S.E.	4	S.S.E.	1	S.	3	5 30 Clouding over; wind shifted into S.S.E.
	4	...	...	30.36	61.9	88	-.490	...	Nb.-St., Cu.-Nb.	4	b c q	S.S.E.	3	...	...	S.	4	8 0 Slightly squally.
	8	...	...	30.37	63.9	75	-.441	...	Cu., Cu.-Nb.	10	o c p	S.E. by S.	4	S.S.E.	1	S.	3	11 30 Set in showery.
	Noon	35 44	135 58	30.36	65.9	73	-.469	...	Cu.-Nb., Cu.	8	b c	S.E.	4	S.E.	2	S.	2	4 30 Clouded over.
	4	...	...	30.28	64.9	78	-.482	A.-Cu.	...	7	b c	S.E.	5	S.E.	3	S.E.	1	8 0 Occasional showers.
	8	...	...	30.29	62.9	78	-.446	...	Cu.	1	b	S.E.	5 or 6	S.E.	2	S.E.	1	9 30 Clouds breaking up.
26	Mid-night	...	...	30.24	63.9	86	-.499	...	...	0	b	S.E.	5 or 6	S.E.	2	S.E.	2	10 30 Althrop Is. abeam.
	4	...	...	30.20	64.1	88	-.526	...	Cu.	1	b	S.E.	5	S.E.	2	S.E.	2	
	8	...	...	30.40	...	...	...	...	...	...	...	...	...	...	...	...	...	9 50 Troubridge Light House abeam, distance 3 miles.
	Noon	35 3	138 4	30.17	71.9	70	-.551	...	...	...	b z	S.E.	3	S.E.	1	...	3 0 Slightly hazy round horizon. Approaching Port Adelaide.	

## PART III.

## SLEDGE JOURNEY WEATHER RECORDS.

## INTRODUCTORY REMARKS.

By D. MAWSON.

In the case of every sledge journey one member of each party was detailed to keep a daily register of the meteorological conditions encountered. As frequently, several parties were in the field at once, spaced at considerable distances apart, a comparison of the weather conditions recorded, taken in conjunction with the Winter-Quarter data, supplies a really valuable insight into the regional weather conditions and assists in evaluating the true significance of the records of the base stations. Hence the sledge journey registers of the more important journeys are here reproduced for comparative analysis.

The data herewith submitted includes that of three sledge journeys from "The Grottoes," Queen Mary Land, and of seven sledge journeys from Winter-Quarters, Cape Denison.

The barometer readings on sledge journeys were, of course, all aneroid readings. In some cases these are included for individual comparison. In some cases hypsometric determinations were made periodically as a check on the aneroid. The aneroid readings, however, were recorded chiefly as a means of ascertaining the height above sea-level of the successive locations occupied by the sledge parties. Thus on account of their limited usefulness, the aneroid readings have been omitted from those records connected with expeditions from the Cape Denison Station. They have been retained in the registers submitted from the Queen Mary Land Base, on account of the fact that sledge parties from that Western Base did not, as a rule, travel in really bad weather and consequently frequently spent considerable periods of time weather-bound in the one spot. At such fixed camps the barometric fluctuations have real meteorological significance.

In order to make full use of these sledge journey records, it is necessary to know not only the geographic locations of the observer on each occasion of entry, but, where the route has been other than on sea ice (at sea-level), the altitude above sea-level is also required. As a rule, in these tables neither the altitude nor the geographic position is mentioned. It is intended that the reader should make reference to the extended charts to accompany Vol. I of Series A of these reports, wherein detailed plots of the tracks of sledge parties will appear. In the meantime, the general directions of the chief sledge parties from the Cape Denison Base appear in Fig. 5 herewith; and the same information relative to expeditions in Queen Mary Land is given in Fig. 1 of this volume. Pending the appearance of Vol. I, Series A, further details are available in the maps which have appeared in the popular story of the Expedition's work.\*

\* "The Home of the Blizzard" published in London in 2 vols. by W. Heinemann. Small edition published by Messrs. Hodder & Stoughton.



The hour of the day, appearing in these registers, refers to the Local Mean Time of the Base Station from which the parties respectively set out; Cape Denison in the one case and "The Grottoes" in the other. In most cases, as in my own register of the Far Eastern Sledge Journey, the loggings are allocated to the nearest half-hour. The temperature is usually stated to the nearest degree Fahrenheit and it is understood to be positive unless preceded by a negative sign. The velocity and direction of the wind is stated, and amplifying details in this regard appear from time to time as occasional entries under "Remarks," where the direction of sastrugi is often noted supplying valuable information as to the direction of the prevailing winds.

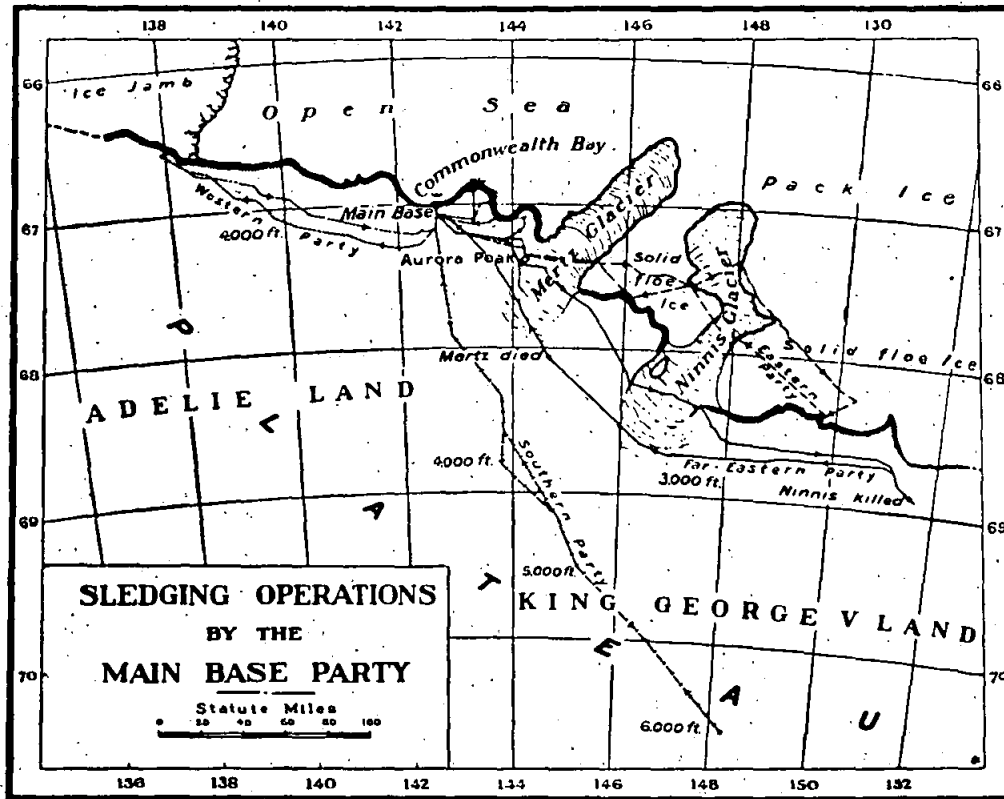


Fig. 5—Map indicating the tracks of the three principal sledge journeys from the Main Antarctic Base at Cape Denison.

Table XIV.

REGISTER OF THE WESTERN RECONNAISSANCE PARTY FROM WINTER-  
QUARTERS, CAPE DENISON.(September 13th, 1912, to September 26th, 1912.) Recorder: *C. T. Madigan.*

September.

- 13th Travelling between 5½ miles S. (1,500 ft. elevation) and 8½ miles S. (1,715 ft.) of Winter Quarters. Clear and sunny. Wind blowing about 65 m.p.h. At 1:45 p.m. arrived at 8½ miles S. of Winter Quarters, where elevation of 1,715 ft. above sea level. Temperature at 1:45 p.m. was -14° F.
- 14th Sledging due west over the plateau, arriving 14 m. out from W.Q. by noon. Clear and sunny. Wind about 25 m.p.h. until 11:30 p.m. when it rose to 50 m.p.h. and remained steady rest of day. Temperature at 7 a.m., -17.8° F. at elevation of about 1,800 ft.
- 15th At 8 a.m. temperature -23° F. (elevation about 2,000 ft.); wind 75 m.p.h.; clear, no drift. Continuing sledging to the west. At noon, when 22½ miles from Winter Quarters, at elevation of about 2,500 ft., wind blowing from the S. at 70 m.p.h. Light surface drift commenced at 11 a.m. obscuring the horizon, but increased during afternoon when only possible to see 200 yards.
- 16th At 25 miles from the hut and about 2,700 ft. elevation, the temperature at 8 a.m. was -20° F. There was light drift which, however, decreased and ceased at noon. Sledging to west.
- 17th 8:30 a.m. at 31½ miles from W.Q. and elevation of 3,089 ft., temperature -26° F. Wind averaged about 55 m.p.h. during the day. Surface drift obscured horizon in the morning and light drift continued during whole day. Sledging to west.
- 18th At 8 a.m. temperature of -35° F. at elevation of 3,300 ft., 41 miles from W.Q. Surface drift continued all day. Sledging to west.
- 19th 8 a.m. at 45 miles from W.Q. and elevation of 3,331 ft., temperature -24° F. At 9 a.m. same camp, temperature -19.5° F. Light surface drift this morning, clear at noon. Ci. and Ci.-St. cloud radiant from N.W. to S.E. Reached point 50 m. W. of W.Q.
- 20th Held up in camp at 50 miles from Q.W. Elevation 3,522 ft. Dense drift all day with wind about 80 m.p.h.
- 21st At the 50-mile camp. The temperature at 8 a.m. -17° F. Wind about 60 m.p.h. Surface drift. Sky almost clear of cloud. Sunny. Return journey commenced.
- 22nd Sledging back to the east. Temperature at 6:30 a.m., -13° F. at elevation about 3,300 ft. Ci.-St. radiant, trending E. and W. Early in the morning A.-Cu. also, but cleared away later. At 3 p.m. temperature -4.2° F. at elevation of 3,200 ft. Ci.-St. now very faintly seen.
- 23rd Temperature at 9 a.m., 11.2° F. at elevation of 3,100 ft. A Ci.-St. radiant observed in western sky trending from the W. In the north St.-Cu. Sunny. No drift. Wind 65 m.p.h. At noon wind increased to 75 m.p.h. falling to 40 m.p.h. suddenly at sunset.
- 24th Temperature at 8:30 a.m. was -8.2° F. (elevation about 2,800 ft.). Wind 35 m.p.h. but increased at noon to 70 m.p.h. and at 5 p.m. wind 40 m.p.h. Camped at 32 miles from the 50-mile depot. Elevation about 2,500 ft.
- 25th At 3 a.m. wind blowing a hurricane, about 85 m.p.h. Temperature at 8 a.m. -1° F. (2,200 ft. elevation). At noon the wind 75 m.p.h. but calming during the afternoon to 50 m.p.h. and further to almost calm by 9 p.m. Arrived at Aladdin's Cave 5½ miles S. of W.Q. at sundown.
- 26th At Aladdin's Cave in morning, the sky clear and sunny. Calm but wind arose at noon. Completed journey to W.Q. by 3 p.m.

After comparison of data secured on this journey with corresponding observations at W.Q., Cape Denison, Madigan reports that the temperatures recorded on the plateau at elevations of about 3,000 ft. average 14° below those of W.Q.

Table XV.

## REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

(November 8th, 1912, to January 16, 1913.) Recorder: *A. L. McLean.*

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 8	16	4	50	S.S.E.	Overcast .....	Moderate drift.
	20-30	-3	50	S.S.E.	Overcast .....	Moderate drift.
9	7	-11	55	S.S.E.	Radiant N.W. to S.E. of Ci.-St. ....	Moderate drift. Sun halo 40° diam. in afternoon.
	10	-3	55	S.S.E.	Radiant N.W. to S.E. of Ci.-St. ....	Moderate drift. Sun halo 40° diam. in afternoon.
	12	-3	55	S.S.E.	Radiant N.W. to S.E. of Ci.-St. ....	Moderate drift. Sun halo 40° diam. in afternoon.
	18	-4	55	S.S.E.	Radiant N.W. to S.E. of Ci.-St. ....	Moderate drift. Sun halo 40° diam. in afternoon.
10	6	-6	30	S.S.E.	St.-Cu. and Cu. low in N., otherwise clear.	Min. therm. -12. Light drift.
	13	3	30	S.S.E.	St.-Cu. and Cu. low in N., otherwise clear.	Drift light to nil.
	20	-4	Calm.	...	St.-Cu. and Cu. low in N., otherwise clear.	Drift cleared.
11	6	-6	45	S.S.E.	Ci.-Cu. in N. extending E. and W. 50° altitude with low Stratus.	Min. therm. -11*. No drift.
	14	4	45	S.S.E.	Complete pall of A.-St. formed N. over sea.	Drift cloud in S.
	20	5	50	S.S.E.	Overcast .....	Moderate drift. Aner. bar. 27-51.
12	16	12	55	S.S.E.	Overcast .....	Thick drift.
	18	11	30	S.S.E.	Overcast with A.-St., Nb. in N. ....	Drift ceased.
13	9-30	15	45	S.S.E.	Overcast with Nb. ....	Moderate drift.
	20-30	11	30	S.S.E.	Dense St.-Cu. all along S. horizon, changing to Ci.-Cu. converging in E.S.E. Ci.-St. in N. with striations.	Moderate drift tending to increase.
14	11-30	11	60	S.S.E.	Ci. from E. through N. to N.W., altitude 15°; clear otherwise.	Dense to moderate drift. Min. therm. 2
	15	14	60	S.S.E.	Ci. from E. through N. to N.W., altitude 15°; clear otherwise.	Dense to moderate drift. Min. therm. 2.
	22	...	60	S.S.E.	Ci. radiant N.N.W. to S.S.E. covering sky; clear in S.	Moderate drift. Aner. bar. 26-7.
15	8	-1	70	S.S.E.	Low Cu. in N. ....	Moderate drift.
	10-30	2	70	S.S.E.	Cu. in N; Ci.-Cu. low in N.W. ....	Moderate drift. Aner. bar. 26-35.
	20	-1	60	S.S.E.	St. in N. and N.W. ....	Light drift. Aner. bar. 26-3.
16	6	-6	35	S.S.E.	Bank of St. and Ci.-St. N.N.E. through N. to N.N.W.	No drift. Min. therm. -12.
	11	-2	30	S.S.E.	Sky clear except for "whaleback" Ci. and Ci.-St. from N. to W., with St. below and Fr.-Cu.	.....
	14	2	25	S.S.E.	Streaks of Ci. have radiated from N.W. across zenith to S.E. in a few hours.	Aner. bar. 25-975. Sky rapidly becom- ing overcast.
	19	1	10	S.S.E.	Cu.-Nb. bank formed in S.E.; within 15 minutes sky overcast.	Aner. bar. 25-85. Light snow fell at 22 hours.
	17	8	5	15	S.S.E.	Uniform pall of St. ....
17	11-30	9	15	S.S.E.	Sky has broken into St.-Cu. Clear in S. Bank of St. N.E. through N. to N.W.; "water sky."	Min. therm. -3.
	16	10	15	S.S.E.	St. in N. edged by Cu. Clear in S. ....	.....
	20	4	20	S.S.E.	A.-Cu. covering sky except in S. ....	Light surface drift.

\* Note that minimum thermometer readings are for the previous night camp.

Table XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 18	6	5	10	S.S.E.	A.-Cu. clearing from S.E.; St. in N. ...	No drift. Min. therm. —8. Aner. bar. 26-15.
	13	16	10	W.	A.-Cu. bank has risen to zenith from N., extending from W. to E.; movement W. to E. Cu. bank low in N.	Aner. bar. 26-67.
	20-30	9	10	W.	Lofty Ci. moving N. to S. Bank of Ci-Cu. in S.W., moving W. to E. St. in N.	.....
19	8	12	5	S.	Radiant of Ci. and Ci.-St. in W. covering sky towards E. and N.	Min. therm. —2. Aner. bar. 27-275.
	11	16	10	W.	Ci. and Ci.-St. arching through zenith from W. to E. filling N. sky. Fog bank over sea.	Fog bank moved over land and obscured horizon on all sides. Laminae of snow deposited in rosettes and fern fronds during the fog on sledge-mast and stays.
	19-30	12	...	...	Clear sky; low St. in N. ....	Calm.
20	7-30	9	50	S. by W.	Clear, except Fr.-Cu. in N.W. ....	Min. therm. —1. Sastrugi S. by W. to N. by E. Light surface drift.
	14	15	45	S. by W.	Clear; Cu. clumps in N.E. ....	Aner. bar. 27-075.
	19	11	25	S. by W.	Clear sky .....	Surface drift. Aner. bar. 27-05.
21	7-30	7	10	S. by W.	Clear; low St. in N. ....	Min. therm. zero. Aner. bar. 27-075.
	12	12	10	S. by W.	Clear; low St. in N. ....	Aner. bar. 27-05.
	17	11	25	S. by W.	Clear sky .....	Aner. bar. 27-03. Light drift at times.
22	6-30	8	5	S. by W.	Clear except low Cu. and St. in N. ....	Min. therm. —2. Aner. bar. 27-15.
	16-30	18	30	S.E.	At 14 hours S.E. sky banked with Nb. and rapidly sky became overcast.	Aner. bar. 27-32. Light snow and drift. By 20 hours sky clear.
23	8	9	35	S. by W.	Clear; St. in N.E., low.....	Aner. bar. 27-21. Min. therm. 2. Light drift.
	13	18	30	S. by W.	Linear St. due E. Ci. in S.W. ....	Aner. bar. 27-1.
	20	22	10	S. by W.	Radiant of Ci. and Ci.-St. extending across zenith from S.W. to N.E.	Aner. bar. 27-00. No drift.
24	9	22	30	S. by W.	Ci. and Ci.-Cu. in S.W.; Ci.-St. in N.E.	Min. therm. 7. Aner. bar. 29-10. Light drift.
	13	29	15	S. by W.	Ci. and Ci.-St. covering sky. Ci. and Ci.-St. in zenith extending towards W.	Aner. bar. 29-15. Sun halo about 40° diameter seen in afternoon.
	19	22	20	S. by W.		
25	9	18	40	S. by W.	Half sky to N. covered with St. Ci.-Cu. and Ci.-St. in open sky to S. St. is moving S.E. to N.W.	Aner. bar. 29-13. Light drift. Ci.-Cu. moving W. to E.
	12	28	...	...	Fine Ci.-Cu. tract in S. St. and St.-Cu. in N.	No drift.
	19	24	...	...	A.-Cu. around zenith .....	Calm since noon.
26	11	23	15	S. by W.	Uniform pall of St. Clear rim due S....	Min. therm. 15. Aner. bar. 29-20.
	16	30	15	S. by W.	St. has broken into St.-Cu. Clear low in N.E. and S.W.	Aner. bar. 29-23.
	21	15	10	S. by W.	Sky clear, except for St.-Cu. in E., N.E. and S.	Sastrugi S. by W. to N. by E. Aner. bar. 29-30.
27	10	22	5	S. by W.	Clear sky .....	Aner. bar. 29-29. Min. therm. 2.
	13	26	5	S. by W.	.....	Aner. bar. 29-37.
	20	24	5	S. by W.	Little Ci. in W. and Nb. near horizon...	Aner. bar. 29-61.
28	7	23	35	S. by W.	Even pall of St. Clear rim S.E. and S.	Min. therm. 12. Aner. bar. 29-79. No drift.
	14	25	15	S.E.	Even pall of St. Clear rim S.E. and S.	Aner. bar. 29-75. Fine "water sky" in N. Light snow.
	19-30	26	10	S.E.	Uniform St. with defined bands in places.	Aner. bar. 29-68.

Table XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November.						
29	7-30	24	...	...	Ci., Ci.-St. and A.-Cu. fringing horizon	Min. therm. 19. Aner. bar. 29-67. Dead calm.
	12	27	10	S.E.	Sky clear, except for isolated A.-St. in S.E. and St. in N.	Sastrugi S.E. to N.W. No drift. Aner. bar. 29-685.
	19	25	25	S.E.	Little Ci. crossed from W. to E. during afternoon. Clear sky.	Aner. bar. 29-67. Light drift.
30	8	22	40	S.E.	Isolated Ci. high in W. and N.E.	Min. therm. 15. Aner. bar. 29-13. Light drift.
	14	27	35	S.E.	Ci. patch in N.W.	Aner. bar. 29-48.
	20	23	35	S.E.	Ci.-St. arching from W. to N.E.	Aner. bar. 29-45. Light drift.
December.						
1	6	18	10	S.E.	Overcast with A.-Cu. moving W. to E. Upper Ci. and Ci.-St. visible. Cu. rolls low in N.	Min. therm. 11. Aner. bar. 29-53. No drift.
	13	27	10	S.E.	Low Nb. driving from S.E. Over-spreading sky.	Aner. bar. 29-60. No drift.
	20	21	10	S.E.	Nb. is moving S.E. to N.W. Lofty Ci. visible.	Aner. bar. 29-58.
2	7-30	20	...	...	Uniform Nb., except for clear rim low in S.	Min. therm. 14. Aner. bar. 29-68. Light snow (6-rayed snow crystals).
	13-30	25	...	...	Nb. with defined St. bands	Aner. bar. 29-68.
	19	22	5	S.E.	Nb. with defined St. bands	Aner. bar. 29-49.
3	6	14	5	N.W.	Dense fog enveloping the landscape	Deposit of snow in laminae and fronds on sledge stays. Min. therm. 4. Aner. bar. 29-43.
	12	18	5	N.W.	Fog has cleared; low St. in N.	Aner. bar. 29-37.
	18-30	23	...	...	Sky clear except for Fr.-Cu. and St. in N.	Aner. bar. 29-47. Dead calm.
4	7	17	10	S.E.	Foggy St. round horizon N.E. through S. to S.W.	Aner. bar. 29-27. Min. therm. 9.
	14	26	10	S.E.	St.-Cu. overcasting sky	Aner. bar. 29-29.
	19	30	5	S.S.E.	Overcast with Nb. Cu. rolls in N.E.	Aner. bar. 29-33.
5	6	17	5	S.S.E.	St.-Cu. travelling up from S.E. over whole sky.	Min. therm. 18. Aner. bar. 29-29.
	13	30	30	S.S.E.	A.-Cu. over whole sky travelling N.N.W.	Aner. bar. 29-33.
	18-30	22	30	S.S.E.	A.-Cu. round horizon. Ci. in S. Scud travelling rapidly with wind. Otherwise clear.	Aner. bar. 29-24. Light drift.
6	9	26	35	S.S.E.	Overcast with dense Nb.	Aner. bar. 29-22. Moderate drift.
	19-30	25	40	S.E.	Overcast with dense Nb.	Dense drift. Aner. bar. 29-14.
7	18-30	26	35	S.E.	Thick Nb. with dense snow, falling	Min. therm. 9. Aner. bar. 28-98. Wind veered during blizzard from S.S.E. to S.E.
8	9	32	30	E.	Surroundings enveloped in fog	Min. therm. 25. Aner. bar. 29-00.
	18	31	30	E.	Driving fog	No drift. Aner. bar. 29-24. Wind veered again to E.
9	10	32	25	S.E.	Overcast with St.	Min. therm. 13. Aner. bar. 29-40.
	17	30	25	S.E.	Overcast with St. Clear rim in S.	Light surface drift, disappearing. Aner. bar. 29-51.
10	8	26	25	S.E.	Uniform St. with clear sky, low in S.	Min. therm. 19. Aner. bar. 29-56. Light drift.
	12-30	29	15	S.E.	Upper Ci.-St. with lower St. from N.E. through N. to N.N.W., altitude 3°.	Aner. bar. 29-58. Sky cleared in morning. No drift.
	19-30	27	10	S.E.	Ci. radiant N.W. to S.E., seen during afternoon replaced by bank of St.-Cu. from E. overcasting sky.	Aner. bar. 29-60. Parhelion seen at 23-30 hours low in S.W. horizon.
11	6-30	18	5	W.	Wisps of Ci. over whole sky. St. in N.	Min. therm. 15. Aner. bar. 29-71.
	13	31	5	S.E.	Ci. and Ci.-St. in zenith and fringing the horizon. St.-Cu. in N.E.	Aner. bar. 29-65.
	19-30	16	...	...	Ci. radiant due W. Movement W. to E.	Aner. bar. 29-43. Dead calm.

TABLE XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 12	7	7	5	W.	Light Ci. and Ci.-St. in zenith and S.W. St. in N.	Min. therm. 1. Aner. bar. 29-28.
	14	28	...	...	Ci. radiant W. to E. St. low in N. ...	Aner. bar. 29-20. Dead calm.
	19	16	...	...	Ci. radiant W. to E. Movement W. to E.	Aner. bar. 29-29. Dead calm.
13	19	19	40	S.E.	Sky overcast with uniform St. Clear low in S.W.	Aner. bar. 29-08. Sky overcast during day. Fine "water sky" in N. Snow and drift commenced at 5 hours.
14	6	19	10	S.E.	Still overcast with St. and Nb. ....	Aner. bar. 29-04. Light snow falling.
	14	25	10	S.E.	St.-Cu. formation appeared moving from S.E. Clear S.E. through S. to S.W.	Aner. bar. 29-02. Snow ceased.
	20-30	16	...	...	Heavy Nb. from E. has covered whole sky except strip in W.	Aner. bar. 29-025. Calm.
15	6	17	10	E.S.E.	Long curving bank of St.-Cu. from E.S.E. through N. to S.W.; altitude 60° Ci.-Cu. lofty, observed moving W. to E.	Aner. bar. 29-05.
	14	30	10	E.S.E.	Almost completely overcast with St.-Cu.	Aner. bar. 29-04.
	19-30	21	...	...	Still overcast with St.-Cu. Clear rim all round horizon except in N.	Aner. bar. 29-02. Calm.
16	7-30	22	...	...	Uniform pall of St. Clear low in S. ....	Min. therm. 21. Aner. bar. 29-06. Calm.
	12-30	27	5	N.W.	Pall of St. A few clumps of Fr.-Cu. in N.W.	Aner. bar. 29-08.
	18-30	23	5	N.E.	Cloud not so uniform. St.-Cu. formation in N.E.	Aner. bar. 29-09. Light snow at times.
17	7	20	5	E.S.E.	Overcast with Nb. ....	Min. therm. 20. Aner. bar. 29-07. Light snow.
	13	24	5	E.S.E.	Overcast with St.-Cu. formation in N.W.	Aner. bar. 29-05.
	19-30	20	5	E.S.E.	Conditions same; a few rifts in W. sky	Aner. bar. 29-03.
18	5-30	20	10	E.S.E.	Overcast with St. St.-Cu. in E.S.E. ...	Min. therm. 12. Aner. bar. 29-015. Light surface drift.
	13	30	5	E.S.E.	St.-Cu. overspreading sky. Movement W.N.W. to E.S.E.	Aner. bar. 29-02.
	19-30	22	...	...	Conditions same .....	Aner. bar. 29-04. Calm. Sastrugi align from E. 40° S. with intersecting ones from due E.
19	6-30	21	5	E.S.E.	Overcast with Nb. moving E.S.E. to W.N.W.	Min. therm. 18. Aner. bar. 29-08. Light sago snow at intervals.
	12-30	23	5	E.S.E.	Overcast with Nb. moving E.S.E. to W.N.W.	Aner. bar. 29-11. Sago snow at times.
	20	12	...	...	Sky has cleared except for St.-Cu. in N.E., and A.-Cu. in E.	Aner. bar. 29-14. Dead calm.
20	6-30	13	...	...	Sky clear except for low St. in E. ....	Min. therm. 9. Aner. bar. 29-23. Calm.
	11-30	28	...	...	Clear except for low St. in E. ....	Aner. bar. 29-28. Calm.
	19	23	...	...	Sky perfectly clear .....	Aner. bar. 29-29.
21	6	14	5	S.E.	Sky clear .....	Min. therm. 9. Aner. bar. 29-38.
	13	25	...	...	Sky clear .....	Aner. bar. 29-40. Calm.
	19	18	2	S.E.	Clear except for St. low in N. ....	Aner. bar. 29-41.
22	9-30	23	35	S.E.	Sky overcast with St.; a few rifts in S.W.	Aner. bar. 29-07. Light surface drift.

TABLE XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 22	12-30	28	25	S.E.	Heavy Nb. from S.E. Overcast completely.	Aner. bar. 29-04. Horizon foggy and obscured; sago snow falling.
	19	25	30	S.E.	Densely overcast with Nb. ....	Aner. bar. 29-01. Light sago snow.
23	9	29	15	S.E.	St. has replaced Nb. all over sky .....	Min. therm. 22. Aner. bar. 29-09. Surface drift.
	12-30	32	15	S.E.	St. has replaced Nb. all over sky .....	Aner. bar. 29-10. Light drift. Sastrugi S.E. to N.W.
	19	27	15	S.E.	St. has replaced Nb. all over sky .....	Aner. bar. 29-025. Six-rayed snow crystals fell during afternoon, some $\frac{3}{8}$ inch in diameter.
24	8	27	30	S.E.	Sky apparently clear through moderate drift.	Min. therm. 21. Aner. bar. 28-98. Moderate drift.
	12-30	30	30	S.E.	Sun gleaming through drift all morning	Aner. bar. 28-99. Drift becoming lighter. Light snow (six-rayed crystals).
	20	19	...	...	Sky clear except for Ci. moving W.S.W. to E.N.E. Bank of St.-Cu. in E.	Aner. bar. 28-96.
25	9	23	5	W.	Sky enveloped in a Ci. radiant trending N.W. to S.E. Ci.-St. bands well marked through zenith to S.E.	Aner. bar. 29-08. Min. therm. 14.
	13	28	5	W.	"Noah's Ark" of Ci. from N.W. to S.E.	Aner. bar. 28-91.
	19	17	25	S.W.	"Water sky" in N. with St. bank. Clear .....	Aner. bar. 28-84.
26	9	20	10	S.W.	Low bank of Ci.-St. in N.W.; otherwise clear.	Min. therm. 5. Aner. bar. 28-91.
	11	23	10	S.W.	Ci. radiant from N.W. during morning. Trend is towards S.E.	Aner. bar. 28-88.
	19	20	10	S.E.	Sky clearing. Ci.-St. in S.W. and Ci. wisps in N.E.	Aner. bar. 28-85. Wind veered from S.W. to S.E. Light surface drift.
27	5-30	16	25	S.E.	Radiant of Ci.-St. and Ci. in N.W.....	Min. therm. 4. Aner. bar. 28-71. Light drift.
	12-30	27	20	S.E.	A few scattered Ci. patches.....	Aner. bar. 28-74. Light drift.
	18	20	2	S.E.	Ci.-St. in patches due W., otherwise clear.	Aner. bar. 29-54. No drift. Sastrugi S.E. to N.W.
28	6-30	16	5	S.E.	A.-Cu., Ci. and Ci.-St. all round horizon; St. in N.	Min. therm. 12. Aner. bar. 28-65.
	13-30	26	25	S.E.	Scattered Ci.-Cu., Ci.-St. and Ci. over sky. Low St. in N.E.	Aner. bar. 28-91. Light surface drift.
	19-30	19	10	S.E.	Scattered wisps of Ci. preceded by fine Ci. radiant from N.W.	Aner. bar. 28-97. No drift.
29	7	16	5	S. by E.	Ci.-St. banding half sky towards S.W....	Min. therm. 10. Aner. bar. 29-02.
	13-30	28	...	...	Ci.-St. has covered whole sky .....	Aner. bar. 29-03. Dead calm.
	20-30	25	...	...	A few rifts in a sky covered with Ci.-St.	Aner. bar. 28-85.
30	8	26	20	S.E.	Radiant of Ci. and Ci.-St. from N.W. arching across zenith to S.E.	Min. therm. 19. Aner. bar. 28-78. No drift.
	14-30	29	5	N.W.	Radiant of Ci. and Ci.-St. from N.W. arching across zenith to S.E.	Aner. bar. 28-75.
	19-30	26	...	...	Striated Ci. radiant N.W. to S.E. ....	Aner. bar. 28-76. Dead calm.
31	6	24	25	S.E.	Completely overcast, upper layer of A.-Cu. moving W. to E., lower layer of St. moving S.E. to N.W. rapidly.	Min. therm. 16. Aner. bar. 29-01. A few flakes of snow.
	12-30	25	25	S.E.	Thickly overcast with Nb.....	Aner. bar. 29-09. Fine sago snow falling.
	18	27	10	S.E.	Overcast with defined St.; clear low in S.S.E.	Aner. bar. 29-15. Snow ceased.

TABLE XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January. 1	6-30	26	15	S.S.E.	Overcast with St., St.-Cu. in zenith.....	Min. therm. 22. Aner. bar. 29-18.
	11-30	31	20	S.E.	Still overcast with St. ....	Aner. bar. 29-14.
	19-30	28	10	S.E.	Sky clearing from S.E. Scud moving rapidly with wind.	Aner. bar. 29-02. Intermittent sunshine.
2	9-30	27	20	S.S.E.	Sky overcast with Nb. ....	Min. therm. 23. Aner. bar. 28-85. Light snow.
	12-30	29	35	S.E.	Lightly overcast with Nb., sun showing at times.	Aner. bar. 28-82. Light snow.
3	21	25	...	...	Lofty Ci. which can be seen indistinctly through St.-Cu. moving S.E. to N.W.	Min. therm. 23. Aner. bar. 28-87. Blizzard raged through night and calmed down during day.
4	8-30	28	5	S.E.	Uniform St. covering sky. St.-Cu in S.E. with clear rift.	Min. therm. 17. Aner. bar. 28-85.
	13	30	5	S.E.	St.-Cu. overspreading sky; clear arch of blue sky in S.E. Cloud movement S.E. to N.W.	Aner. bar. 28-78.
	19-30	22	2	S.E.	St.-Cu. seen N.E. through N. to N.W., with "water sky."	Aner. bar. 28-74.
5	8-30	25	5	S.E.	Overcast with dense Nb. ....	Min. therm. 12. Aner. bar. 28-84. Light snow.
	18-30	26	5	S.E.	St. replaces Nb., clear low in S.....	Aner. bar. 28-78.
6	5	19	5	S. by W.	Completely overcast with St. ....	Min. therm. 12. Aner. bar. 28-88.
	12	33	5	S. by W.	Upper Ci. stratum moving N.W. to S.E.; lower light Nb. moving S. by W. to N. by E.	Aner. bar. 28-88.
	17	32	5	S. by W.	Overcast with St., St.-Cu. formation in N.W.	Aner. bar. 28-89.
7	8-30	27	10	S. by W.	Uniform pall of St. ....	Min. therm. 11. Aner. bar. 28-95. Light snow (six-rayed crystals).
	14-30	32	5	S.E.	Sky shows St.-Cu. formation. Sun disc occasionally seen.	Aner. bar. 28-95.
	19	26	5	S.E.	Complete pall of St.-Cu.....	Aner. bar. 28-97.
8	12-30	31	2	S.E.	Overcast with St. ....	Aner. bar. 28-89.
	22	25	25	S.E.	Heavy low Nb. ....	Aner. bar. 28-78. Snow falling (six-rayed crystals).
9	13	...	25	S.E.	Thickly overcast with Nb.....	Aner. bar. 28-13. Moderate snow.
	16-30	25	25	S.E.	Thickly overcast with Nb.....	Aner. bar. 28-05. Air thickly charged with snow.
10	...	...	...	...	Blizzard with dense drift continued all morning till 16 hours.	By 18 hours the sky had completely cleared.
11	4	...	10	S.E.	Sky completely clear .....	Light surface drift.
	7	...	10	W.	Sky became overcast with foggy St. moving W. to E.	No drift.
	24	...	...	...	Sky cleared during morning .....	Dead calm.
12	3-30	...	20	S.E.	At 2:30 St.-Cu. appeared in S.E. and rapidly with a rising wind overspread the sky. At present sky is covered with a dense St.	.....
13	16	...	50	S.E.	All night blizzard raged with dense drift	At present wind is moderating and drift is light. Sastrugi S.E. to N.W.
14	5	23	10	S.E.	Low bank of St. in N., otherwise clear.	Aner. bar. 29-16.



TABLE XV—continued.

REGISTER OF THE EAST COAST PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.																					
			Miles per hour.	Direction.																							
January. 14	12-30	28	30	S.S.E.	Overcast with St., clear low in S..... Fine Ci. tract, showing reticulate and fishbone appearance, movement N.W. to S.E. Intermittent low scud from S.S.E.	Aner. bar. 26-98. Light surface drift. Aner. bar. 26-70.																					
	20	24	40	S.S.E.			15	6	14	15	S.S.E.	Patch of A-Cu. in S.W. Hurrying scud and N. banks from S.S.E., moving to N.N.W.	Min. therm 9. Aner. bar. 26-65. Light drift. Sastrugi S.S.E. to N.N.W. Aner. bar. 26-68. Aner. bar. 26-75. No drift.	13	23	15	S.S.E.	Sky overcast with A-Cu. St. bank and bands in N.E.	20	20	25	S.S.E.	Sky overcast with A-Cu. mingled with St.	16	7	22	25
15	6	14	15	S.S.E.	Patch of A-Cu. in S.W. Hurrying scud and N. banks from S.S.E., moving to N.N.W.	Min. therm 9. Aner. bar. 26-65. Light drift. Sastrugi S.S.E. to N.N.W. Aner. bar. 26-68. Aner. bar. 26-75. No drift.																					
	13	23	15	S.S.E.	Sky overcast with A-Cu. St. bank and bands in N.E.																						
	20	20	25	S.S.E.	Sky overcast with A-Cu. mingled with St.																						
16	7	22	25	S.E.	A-Cu. in irregular patches interspersed with St. Large bank of St. due N.	Min. therm. 16. Aner. bar. 26-82. Light surface drift.																					

Table XVI.

REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

(November 17th, 1912, to February 8th, 1913.) Recorder: *D. Mawson.*

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November.						
17	17	8	10	S.	In the morning overcast with St.-Cu. travelling to E. Cleared by 20 hours.	Very light snow in the morning with light drift. Clearing by 10 hours.
18	7-30	6	5	S.	St.-Cu. bank up to 2° above N. horizon extending E. and W.	Sastrugi here trend N. and S.
	12	16	5	S.	St.-Cu. on N. horizon. A.-Cu. travelling from W. to E. rising from N. horizon, reaching zenith 14 hr. 30 min.	.....
	15	15	5	S.	St.-Cu. on N. horizon. A.-Cu. extending to within 35° of the S. horizon.	.....
	20	5	Calm.	...	A.-Cu. becoming less dense	.....
19	9	13	5	W.	Sky covered with patches of light Ci.	.....
	12	18	Calm.	...	Bank of stratus above N.N.W. horizon.	Two sets of sastrugi directed (a) N. and S.; (b) N.E. and S.W.
	14	17	Calm.	...	Bank St. low down between N.N.W. and N.E.	Two sets of sastrugi directed (a) N. and S.; (b) N.E. and S.W.
	21	8	15	S.W.	Sky clear	Two sets of sastrugi directed (a) N. and S.; (b) N.E. and S.W.
20	7	...	40	S.S.W.	Sky clear	Much drift commencing midnight.
	13	21	15	S.S.W.	Sky clear	Drift almost abated.
	20-30	12	5	S.S.W.	Sky clear	.....
21	10	14	20	S.S.W.	Sky clear	A little low drift.
	12-30	19	15	S.S.W.	Bank of St. up to 3° above N. horizon	.....
	21	10	5	S.	Sky clear	.....
22	7	12	10	S.	Sky clear except few bars Ci.-St. 10° up in S. trending approx. E. and W.	Sastrugi trend general S.W. direction.
	13	27	10	S.E.	After 10 hours St. clouds formed to S. and S.E. spreading to W.N.W.	A few flakes of snow fell at 13 hours.
	16	18	10	S.E.	St. and St.-Cu. between the zenith and N. horizon, travelling to the N. A.-Cu. to within 5° of the S. and S.E. horizon.	Snowing on the highlands to E. between 14 and 16 hours.
	21	15	5	S.E.	Sky almost clear. A few bars of Ci.-St. on N.E. horizon trending N.E. and S.W.	.....
23	8	...	25	S.E.	Sky practically clear	Light drift.
	12	30	25	S.S.E.	Sky practically clear	Drift abated.
	16-30	25	20	S.E.	A well defined Ci.-St. radiant converging at both extremities and trending N. 35° E. has developed since 12 hours and is gradually spreading to the W. Scattered bars of Ci.-St. trending E. and W.	A large halo round the sun.
	22	23	35	S.E.	Nb. over highlands to E. Sky almost completely overcast with A.-St.	Light drift.
24	9	18	25	S.E. by S.	Overcast with A.-St. except low in S. and S.E. Commencing to clear.	Light drift. A little snow fell in night.
	13	23	15	S.S.E.	Some Ci. also clearing	Sastrugi trend S.S.E.
	22	10	40	S. by E.	Sky clear in E. Much Ci.-St. in W. converging in radiant to the W.	Light drift. Sastrugi S. by E.
25	9-30	15	40	S. by E.	St. low in N. Much Ci. exhibiting an ill-defined N.E. to S.W. arrangement.	Low drift.
	17	16	10	S. by E.	St.-Cu. forming near the horizon from E. through N. to N.W. An isolated patch of St. 20° up in S.S.W. The Ci. has mostly cleared away.	The wind fell after 15 hours.
	21-30	15	15	S.S.E.	Completely overcast with St.-Cu. except for a clear line along S. horizon. Cloud travelling from E. to W.	Enveloped in fog from 17 to 18 hours Dense Cu. and St.-Cu. have come from E.
26	8-30	15	15	S.S.E.	Sky completely overcast with St.	Occasional flakes of snow falling.
	13	19	15	S.S.E.	Completely overcast with St.	.....
	17	20	10	S.S.E.	The pall of cloud becomes thinner	Calm at 22 hours. Cloud began to lift from S. horizon at 23 hours.

Table XVI—continued.

## REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 27	8	15	20	S.S.W.	Sky practically clear .....	.....
	12	22	35	S.S.W.	Sky clear .....	Low drift.
	16-30	19	25	S. by W.	Sky clear .....	Low drift. Wind increases at 21 hour to 35 miles; at 23 hours to 45 miles.
28	9	19	15	S. by W.	A.-St. followed by St. comes overhead leaving patches of clear sky to S. of zenith.	Wind 65 miles between 1 and 3 hours. Light airs between 7 and 8 hours.
	12	23	10	S.S.E.	Clouds increasing. St. completely ob- scuring sky by 13 hr. 30 min.	A little snow falling at 14 hours.
	22	20	15	S.S.E.	St. retired to the E. at 17 hours but followed by A.-Cu. advancing from W.	A general clearance commenced at 20 hr. 45 min.
29	7-30	19	20	S. by E.	Sky clear .....	Light drift.
	12	25	10	S.	Sky clear except for little A.-Cu. ranged roughly along in an E. and W. direc- tion in zenith.	Drift subsided.
	16	25	30	S.	Clear sky except a few wisps of Ci. near the W. by N. horizon.	Light drift.
	22	17	50	S. by E.	Sky clear .....	Much drift. The wind increased con- siderably after 17 hours.
30	8-30	20	50	S. by E.	Sky clear .....	Much drift.

A series of whirlwinds with calm intervals between struck the tent at 1 hour, coming from an E. to S.E. direction followed by a southerly wind of 75 miles per hour lasting for a short time, giving place to a lighter wind of 45 miles per hour towards the mid-morning. Again increasing to 60 miles at 10 hours. At 15 hours it suddenly calmed around the tent and whirlies swept past in quick succession. Thus the lower glacier was seen to be dotted with numberless snow whirlies 300 ft. to 400 ft. in height and several hundred yards in diameter stalking about in different directions. During the whole of this whirli display on the lower glacier the high wind and thick drift did not cease on the highlands to the S.

December. 1	23	17	10	S.S.E.	At 19 hours faint Ci.-St. bars in the N.W. By midnight the Ci.-St. had risen to 15° up between W.N.W. and N.E.	.....
	9-30	23	5	S.	A.-St. from N. horizon to zenith and scattered masses to the S.	.....
	14	34	Calm.	...	A.-St. travelling from the S.E., abundant in the N. and N.W. These arranged in S.E. to N.W. bars and frayed below by S.S.E. wind. Ci.-Cu. and Ci.-St. above showing streaking from the S.W.	.....
	19	24	10	S.	A fine Ci.-Cu. and Ci.-St. radiant con- verging both in E. and W., best defined N. of zenith. Cloud move- ment from W. to E.	Long shadows seen in the sky to E., evidently cloud shadows.
	2	1	13	20	S.S.E.	Ci.-Cu. now clearing, remaining only in W. and N.
2	10	23	15	S.S.E.	Bars of A.-St. across the sky from near zenith towards N. horizon. The bars crossed by stripes trending N.N.W. to S.S.E.	.....
	13	28	Calm.	...	A few bars of Ci.-St. to W. and a bank of lower cloud near the N. horizon.	.....
	18	27	Calm.	...	A few wisps of Ci. in N.W. ....	Temp. in instrument box 70. Sastrugi approx. N. and S.
	24	5	10	S.	Clear sky .....	Quarter sun's disc above S. horizon.
	3	10	23	10	S.	Clear sky .....

Table XVI—continued.

REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 3	16	17	6	E.	At noon a fog began to form and rise in columns at points on the low ice plain to the N. and also over the rocky outcrops to the E. (apparently moist air rising and cooled above). These increased in volume and drifted rapidly to the W. and at 15 hours began to veil the sun as dense St.-Nb. By 16 hours the sky almost completely overcast.	.....
	19	13	10	S.E.	The sky appears to be clearing on the N.E. horizon.	.....
	23	12	15	S.E.	Sky overcast .....	Occasional flakes of snow have fallen since 19 hours.
4	10	12	12	S.S.E.	St.-Cu. to N. of zenith and a solid bank of Nb. on N. horizon. Ci.-Cu. N. of zenith.	.....
	13-30	28	Calm.	...	Cumulus and St.-Cu. have spread from E. and S.E. This merges into St.-Nb. in N.E. Ci.-Cu. especially in N. and N.E.	.....
	17	20	8	S.E.	Sky completely overcast with St. and St.-Nb. travelling from a general E. direction.	.....
	22	15	15	S.E.	Sky overcast .....	.....
5	8-30	17	20	S.E.	Sky much occupied by Cu.-Nb. ....	Light low drift.
	13	22	25	E.S.E.	Overcast .....	Showers of snow commenced at 10 hours and drift thickened.
	17-30	15	35	E.S.E.	Overcast .....	Snow falling. Sastrugi S.E. to N.W.
	21	13	35	S.E.	Overcast with St.-Nb. ....	Snow falling. Thick drift.
6	During the night and morning the wind continued steady at between 40 and 45 miles per hour. After 18 hours it increased to 55 miles per hour and became more gusty. The temperature at 18 hours 14° F. Snow falling and very thick drift.					
7	The wind reached about 70 miles per hour during the night, then became more gusty and fell to 30 miles per hour during the forenoon to again increase after noon. Temperature at 18 hours 20° F. Continuous drift, overcast sky and falling snow.					
8	The wind reached 70 miles per hour during the night, moderating in the day. Temperature at 19 hour 19° F. Sky overcast, falling snow and dense drift.					
9	8	17	25	S.E. by S.	Much Ci. in the sky .....	Low drift.
	12-30	23	15	S.S.E.	Sky cleared partly during the morning but much Ci. remains scattered over the whole sky, though clearer in S.	A large halo around the sun.
	17	20	20	S.S.E.	Ci.-St. radiant from the N.W., slowly receding to the N.W.	Low drift.
	21	13	20	S.S.E.	A little Ci., especially in the N.W. ....	A little low drift.
10	10	16	15	S.S.E.	A few fragments of cirrus low in the N.W.	Light low drift.
	15	20	10	S.S.E.	A few wisps of cirrus near the N.W. horizon.	Newly fallen snow drifting along the ground.
	19	17	15	S.E. by S.	Sky almost clear, a little Ci. on N.W. horizon.	.....
	24	10	25	S. by E.	Sky clear except little Ci. in the N.W....	Low drift.
11	12	17	30	S.S.E.	Ci. across the N. sky in an E. and W. direction. Striped below in a N.N.W. direction.	Considerable low drift.

TABLE XVI—continued.

## REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 11	17	18	25	S.S.E.	Clouds working up, now extending from the E. across the zenith to the W. by S. The upper E. and W. alignment becoming obliterated and a streaky N.N.W. to S.S.E. (plateau wind) direction becoming pronounced.	Low drift. Wind falling from 35 miles at 15 hours to 15 miles at 18 hours.
	24	11	25	S.S.E.	Ci. especially in the N.W. ....	Low drift.
12	10	17	20	S.S.E.	A little Ci. high in the N. and W. ....	Low drift.
	12	18	15	S.S.E.	A little Ci. in N. and N.W. ....	Low drift.
	15	17	5	S.S.E.	A bank of stratus over the sea on the N.E. horizon. A little Ci. 10° up between N. and N.W.	.....
	18-30	20	Calm.	...	A bank of St. on the E. and N. horizon. Ci. bars forming a radiant in the W., trending W. by S. and E. by N. streaked in an E.S.E. and W.N.W. direction, also in a N. and S. direction.	.....
	24	4	Calm.	...	At 21 hours a fog suddenly formed blotting out the Ci. radiant, clearing at 24 hours and revealing masses of low St.-Cu. hurrying to the W., above the Ci. appeared streaked in an E.S.E. and W.N.W. direction.	.....
13	10	29	Calm.	...	Completely overcast with St. ....	.....
	16	23	10	E.S.E.	Most of sky occupied by St. A considerable amount of Ci. above.	Sky began to clear at 14-30 hours.
	19	15	5	E.S.E.	Rolls of fracto-nimbus over the sea, low in the E. and N. A.-St. and A.-Cu. mostly in the E., N. and N.W. A little Ci.-St. streaked in an E.S.E. and W.N.W. direction.	.....
	24	2	5	S.	A fracto-nimbus roll over the sea to N. and N.E. A.-St. and St.-Cu. over most of the sky to the E., N. and N.W. Ci. in patches, mostly to the N.W.	.....
14	9	15	10	E.S.E.	Sky for the most part clear. Dark Cu. rolls on the N. horizon. A little A.-St. especially near the N. horizon.	.....
	12	21	10	E.S.E.	St.-Cu. near the N. horizon .....	.....
	21	10	5	E.S.E.	Sky clear except St.-Cu. up to 12° above the N. horizon between E.N.E. and W.	.....
15	3	3	15	S.S.E.	Sky clear except for a bank of St.-Cu. along the N. horizon.	.....
	9-30	21	10	S.S.E.	Sky clear except for St.-Cu. low on the horizon between N.E. and N.W.	.....
	16-30	30	Calm.	...	Sky clear except bank of St.-Cu. low on N.W. to N.E. horizon.	A very sultry day.
	18-30	21	Calm.	...	Sky clear but for a little A.-Cu. over the sea. At 22 hours the A.-Cu. extended rapidly to the S. and by midnight had obscured the sky almost to the S. horizon.	.....
16	6	9	15	E.S.E.	Overcast .....	Delicate snow crystals began to fall at 3 hours and continued.
	18	17	Calm.	...	Overcast .....	Very light snow falling.
17	2	...	5	S.	Overcast .....	Snowing.
	19	12	10	S.E.	Sky overcast except along the S. and W. horizons. Towards early morning the sky became more overcast in the S. and lifted somewhat on the N. horizon.	Towards morning a breeze of 15 miles from the S.E. Occasional falling snow-flakes.

TABLE XVI—continued.

REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 18	8	9	20	S.S.E.	Sky overcast .....	
	19	14	15	S.E.	Sky overcast with Cu.-Nb. ....	Occasional flakes of snow falling. Wind stronger during the day.
19	2	12	5	E.S.E.	Sky began to clear but again obscured by Cu.-Nb. travelling rapidly from E. to W.	Occasional flakes of snow falling.
	14	20	15	E.	Commencing to clear on the S. and S.W. horizons.	Calm at 17 hours. Clouds breaking all over.
	20	9	Calm.	...	Sky clear except faint stratus on E. to N. horizon.	
20	4	-1	5	S.E.	Sky clear .....	
	12	21	5	S.E.	Sky clear .....	
	22	3	15	S.S.E.	Sky clear .....	The breeze increased at midnight reaching 30 miles per hour and continuing with low drift throughout the night.
21	10	12	25	S.S.E.	Sky clear .....	Low drift.
	23	0	25	S.S.E.	A Ci.-St. radiant commencing in W.N.W. chiefly developed in N.	The wind reached a maximum of 40 miles per hour during the day, fell towards evening but again increased towards midnight. Low drift.
22	6-30	4	40	S.S.E.	The Ci.-St. radiant now covered the whole sky almost obscuring the sun.	Much drift.
	20	10	15	S.S.E.	Almost completely overcast .....	A little snow falling.
23	17	21	5	S.S.E.	Sky completely overcast except a line on the S. horizon.	Abandoned thermometers and other instruments.
24	8	...	10	E.	Sky overcast but rapidly clearing .....	Snow falling: Sun begins to gleam.
	7	...	Calm.	...	.....	Bright sun.
	24	...	20	S.S.E.	.....	Low drift.

- December.
- 25 The S.S.E. wind increased to 30 m. with light drift, dying away in the late afternoon and increasing after 20 h. Much Ci. over the whole sky, especially in the N., dispersing as the day advanced.
  - 26 At midnight a S.S.E. wind of 25 m. increasing at 3 h. to 35 m. with considerable low drift. The wind fell somewhat in the early evening. Sky clear except for a little Ci. on the N. horizon. At 23-30 h. wind 30 m. with low drift.
  - 27 The wind continued at 30 m. with light drift and veered more to the E. coming from S. 30° E. A Ci.-St. radiant developing from the N.W. during the early morning hours and extending to the S.
  - 28 Wind 25 m. to 30 m. per hour from the S.E. by S., falling off towards noon. Low drift. At 5 h. a Ci. radiant from the N. appeared, soon followed by an A.-St. radiant from the N.W. which latter, however, lasted only half an hour. By 8 h. irregular patches of Ci. alone remained and exhibited a streaking in a S.E. and N.W. direction.
  - 29 Wind 25 m. to 30 m. from the S.E. by S. at midnight, increasing to 35 m. between 4 h. and 6 h., afterwards decreasing. Continuous low drift. Ci. clouds scattered in irregular patches over most of the sky. An A.-St. radiant from the N. by W. A few Ci. bars trending from the N.W.
  - 30 At midnight a 10 m.p.h. wind from due S. gradually increasing and swinging more to the E. Between 4 h. and 6 h. it blew 35 m. to 45 m. per hour from the E.S.E. Considerable drift. The soft, recently formed, summer sastrugi of deposition are now seen trending S.E. by S. superimposed on the old hard sastrugi of erosion, sculptured during the winter, which trend nearly due S. The wind and drift continued during the afternoon and evening. The sky became overcast at 22 h. with falling snow.
  - 31 Sky overcast: Light snow falling. Wind decreasing to calm in the evening. The sun appeared for a couple of hours before midnight.
- January.
- 1 Light E. airs during the early morning. Overcast. Snow falling.
  - 2 Continuous wind of 25 m. to 35 m. per hour from the S.S.E. Sky completely overcast. Falling snow. Considerable drift.
  - 3 Conditions similar to those of the 2nd inst. but improving towards the evening.

TABLE XVI—continued.

## REGISTER OF THE FAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

## January.

- 4 Weather better during the day but became overcast and snowing towards midnight.
- 5 Overcast, a little snow falling in the early morning. Wind of 20 m. to 30 m. per hour, as usual, in the early morning hours reaching 40 m. at 6 h. and decreasing to 20 m. at 9 h. The sun appeared fitfully during the early afternoon. The sky cleared rapidly at 16 h.
- 6 Sky overcast, becoming denser at 15 h. The sun gleamed for a while in the early morning. A light breeze from the S. E. by S.
- 7 Sky overcast. Sun gleaming. A light breeze from the S.E. by S.
- 8 Sky overcast. Sun gleaming during the earlier part of the day. Light snow falling in the evening. Calm during the day; light S.E. by S. airs in the evening.
- 9 A continuous high wind from the S.S.E. all day, ranging from 40 m. to 50 m. per hour. Sky overcast. Sun gleaming for a short while in the early morning. Thick drift.
- 10 A continuous high wind until 14 h., when it degenerated to a light breeze. Sky overcast until 14 h., when a general clearance set in. Drifting.
- 11 Sun shining and almost calm; light airs from the S.
- 12 Overcast and snowing. Wind 40 m. to 45 m. per hour. Sun gleaming at intervals during the afternoon. Drift.
- 13 Overcast and snowing with considerable drift. The wind began to fall off about 9 h. The sun appeared at midday and a beautiful calm afternoon followed.
- 14 A S.E. wind of 35 m. to 40 m. per hour at 11 h., gradually calming at noon. In the evening the wind again rose. At 22 h. blowing 25 m. to 30 m. from the S.E.
- 15 Overcast sky with sun occasionally gleaming. A light breeze during the morning from a N.W. direction. Quite calm in the evening. Light snow falling at 18 h.; heavy snow at 22 h.
- 16 Snowing heavily at 2 h. but rapidly clearing as the morning advanced; again becoming overcast and snowing before noon. A heavy snow shower at 14-30 h. The day commenced calm at midnight. Puffs from the S.W. at 5 h. A light breeze from the S.E. at 7 h. and onwards. Sun gleaming at intervals during the afternoon.
- 17 Overcast. Light snow falling in the early morning, abating as the day advanced. Calm during the morning and the afternoon. A breeze from the S.W. in the evening reaching 25 m. per hour.
- 18 The wind fell off as the morning advanced. The sky completely overcast all day. The winds here are apparently deflected by the glacier valley.
- 19 A S.W. wind reaching 30 m. per hour in the early morning hours, but falling off at 9 h. The sky cleared and a bright sunny day followed.
- 20 During the early morning hours the sky became completely overcast. A light S.W. wind continued during the morning, becoming stronger in the afternoon.
- 21 A W. breeze until 11 h., then calm until 18 h., when the westerly again commenced. The sky remained for the most part clear. A few wisps of Ci. to the N.W., also a canopy of St.-Cu. developed *in situ* to the S. and E. over the depressed area of the glacier valley.
- 22 The usual westerly wind and drift in the early morning, falling off by 10 h. A.-Cu. canopied the highlands to the N.W. and A.-St. worked up along the coastal margin to the N.E.
- 23 Sky obscured by a pall of St.-Nb. Snowing heavily after 8 h. A 25 m. S.S.W. wind, swinging round to 15 m. S.S.E. as the day advanced.
- 24 Sky completely overcast with stratus hurrying to the N.W. Snow commenced to fall during the middle of the morning and continued all day. A light S.S.E. wind prevailed during the early morning, giving place to a stronger southerly about noon, reaching a velocity of 40 m. per hour. Thick drift.
- 25 Completely overcast, heavy coarse "sago" snow falling all day. Wind from the S.S.W. reaching 60 m. per hour in the morning then swinging to the S. After a squally interval between 17 h. and 18-30 h. it blew from the S.S.E. Thick drift.
- 26 A continuous high wind blowing from the S. at 60 m. per hour in the early morning, but falling off to 30 m. per hour at noon, when it also veered to the S.E. Sky completely overcast. Coarse "sago" snow falling all day. Thick drift.
- 27 The wind continued moderating somewhat after noon. Sky obscured. "Sago" snow continues to fall but in less quantity.
- 28 Sky obscured and snow falling until late in the morning, when a general clearance took place. The wind fell off in the morning and became almost calm in the evening.
- 29 A southerly wind reaching 45 m. per hour blowing all day. Moderate light drift.
- 30 A strong southerly wind with much drift during the early part of the day, falling off as the day advanced, and becoming calm in the early evening. The wind again commenced at 20 h. accompanied by a little drift.
- 31 The wind died away by the late afternoon when a period of almost calm intervened before the usual evening wind set in.

## February.

- 1 The night wind calmed by 15 h. when a wind of 15 m. per hour only remained. After 18 h. it increased rapidly and drift commenced.
- 2, 3, 4, 5, 6, 7, 8—At Aladdin's Cave, 1,500 feet above Winter Quarters and 5½ miles south. The general conditions were heavy wind and thick drift. Snow falling for a large part of the time.

Table XVII.

REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

(November 8th, 1912, to November 27th, 1912.) Recorder: A. J. Hodgeman.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Clouds.	Remarks.
			Miles per hour.	Direction.		
November. 8	16	4	50	S.S.E.	Bars Cu. near N. to N.E. horizon with few patches Fr.-Cu. above. (Cloud 0.)	Light surface drift. Sunshine.
	20	-3	50	S.S.E.	Clouds as at 16 h. with Ci.-St. horizon to 7° alt. N.W. (Cloud 0.)	Moderate surface drift. Sunshine.
9	...	...	...	...	.....	2-30 h. wind increased since 21-30 h. (8th) and gusty.
	7	-10	55	S.S.E.	Ci.-St. radiant, N.W. to S.E. (Cloud 9.)	Wind gusty. (2-30 h. to 7 h. wind same.) Moderate drift. Sunshine.
	10	-3	55	S.S.E.	Clouds as at 7 h. ....	Wind, drift and sun as at 7 h. Solar halo, approx. 46° diam.
	12	-2	55	S.S.E.	Clouds as at 10 h. ....	Wind, drift, sun and halo as at 10 h.
	18	-3	50	S.S.E.	Ci.-St. low down W. and S.E., and St.-Cu. near horizon N. to N.E. (Cloud 0.)	Light to moderate intermittent drift. Sunshine.
10	...	...	...	...	.....	Min. therm. -12.
	6	-6	35	S.S.E.	St.-Cu. and Cu. near horizon N. to N.E. (Cloud 0.)	Light surface drift. Sunshine.
	11-30	1	35	S.S.E.	St.-Cu. and Cu. near horizon N.W. through N. to N.E. (Cloud 0.)	Drift and sun as at 6 h.
	13	2	35	S.S.E.	Clouds as at 11-30 h. with patches Fr.-Cu. above. (Cloud 0.)	Drift and sun as at 6 h.
	14	...	...	...	.....	S.S.E. wind 10 m.p.h.
	15	3	15	S.S.E.	Clouds as at 13 h. ....	Drift and sun as at 6 h.
	17	2	10	S.S.E.	Clouds as at 13 h. ....	No drift. Sunshine.
	18	1	5	S.S.E.	Clouds as at 13 h. ....	No drift. Sunshine.
	20	-5	Calm.	...	St.-Cu. and Cu. near horizon N.W. to N.E. with patches Fr.-Cu. above in N. (Cloud 0.)	No drift. Sunshine.
	21	-7	10	S.S.E.	St.-Cu. W. through N. to E.N.E. to 4° alt. and Fr.-Cu. near horizon N.W. (Cloud 0.)	No drift. Sunshine.
11	22	...	25	S.S.E.	Clouds as at 21 h. ....	Light surface drift. Sunshine.
	...	...	...	...	.....	Min. temp. -11.
	6-30	-4	50	S.S.E.	Ci.-Cu. radiant, extending E. and W., with bank Cu. low down in N. horizon. (Cloud 6.)	S.S.E. wind 70 m.p.h. with moderate drift. No drift.
	9	0	50	S.S.E.	Sky overcast with light A.-St. (Cloud 10.)	No drift.
	11	0	50	S.S.E.	Overcast as at 9 h., but slightly denser. (Cloud 10.)	Intermittent surface drift.
	13	4	40	S.S.E.	Overcast as at 11 h. ....	Drift as at 11 h.
	14	5	20	S.S.E.	Complete dense pall of A.-St. over sea N. in curving lines. (Cloud 10.)	Commenced snowing. Drift cloud in S.
	18-30	4	30	S.S.E.	Clouds as at 14 h. ....	Snowing.
	20	5	45	S.S.E.	Clouds as at 14 h. ....	Moderate drift and snowing.
	21	...	...	...	.....	S.S.E. wind 50 m.p.h. and gusty. Aner. bar. 27-51.
12	...	...	...	...	.....	21 h. (11th) to 7-30 h. S.S.E. wind about 50 m.p.h. and drifting. Snow 6 in. deep on surface.
	7-30	3	50	S.S.E.	Completely overcast with A.-St., Nb. in N. (Cloud 10.)	Moderate drift which continued during the day.
	16	12	45	S.S.E.	Clouds as at 7-30 h. ....	Moderate drift. Wind gusty.
	18	11	30	S.S.E.	Even pall of A.-St., "water sky" in N. (Cloud 10.)	Light surface drift.
	20	10	35	S.S.E.	Clouds as at 18 h. ....	Drift ceased for several minutes. Wind gusty.



Table XVII—continued.

## REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 13	...	...	...	...	.....	20-30 h. (12th) to 8 h. S.S.E. wind (average 40 m.p.h.) with gusts to 60 m.p.h. and lulls. Moderate intermittent drift.
	8	15	35	S.S.E.	Overcast with Nb. St.-Cu. low down in N.E. (Cloud 10.)	Moderate drift. Wind gusty with lulls.
	11	19	35	S.S.E.	Clouds as at 8 h. with patches of scud near N. to N.E. horizon. (Cloud 10.)	Moderate intermittent drift. Wind as at 8 h.
	14	21	30	S.S.E.	Sky covered at zenith with masses of Cu. moving W. to E. St.-Cu. up to 10° alt. W. through S. to E.N.E. Patches of Fr.-Cu. 6° alt. N.W. through N. to N.E. Clear patch of sky low down N.E. (Cloud 9.)	Light intermittent drift. Wind gusty with lulls. Sun gleaming.
	18-30	14	30	S.S.E.	St.-Cu. extending E. through S. to W. and N.E. to N.W. up to alts. 4°. Scattered Ci. above the St.-Cu. in S., and in N. Very faint Ci. lines in N.W., extending near zenith and crossed by Nb. and St. lines. Fleecy Ci. in E. 20° alt. (Cloud 1.)	Light surface drift. Wind gusty. Sunshine since 15 h.
	19-30	...	30	S.S.E.	Heavy St.-Cu. in S. Ci. and Ci.-St. covering N. sky and radiating from N. Sky clear at zenith and to the S. St.-Cu. in N.W. with Ci.-Cu. above. (Cloud 3.)	Light surface drift. Snow 6 inches deep on surface. Wind gusty. Sunshine.
	20-30	10	30	S.S.E.	St.-Cu. in S. as at 19-30 h. changing into Ci.-Cu. in E.S.E. Ci.-St. covering N. sky with Nb. and St. striations. (Cloud 3.)	Wind and drift as at 19-30 h.
14	...	...	...	...	.....	During the night wind increased with violent gusts (average 70 m.p.h.). Min. temp. 2.
	9-30	9	60	S.S.E.	Ci.-St. lines trending N.W. and S.E., faint at zenith and densest N.E. Low down S. sky obscured by drift. (Cloud 5.)	Moderate surface drift. Wind gusty. Sunshine all morning.
	11-30	11	60	S.S.E.	Clouds as at 9-30 h. ....	Drift, wind and sun as at 9-30 h.
	15	14	55	S.S.E.	Sky clear except bars Ci.-St. trending N.W. and S.E., dense N. sky. (Cloud 5.)	Moderate surface drift. Sunshine.
	18	5	55	S.S.E.	Sky partly covered with Ci.-St. radiant, trending N.N.W. and S.S.E., dense around horizon. (Cloud 7.)	Moderate surface drift. Wind slightly gusty. Sunshine through clouds.
	20	4	60	S.S.E.	Clouds as at 18 h. ....	Drift and sunshine as at 18 h.
	22	...	60	S.S.E.	Clouds as at 18 h. ....	Drift as at 18 h. Aner. bar. 26.70.
15	...	...	...	...	.....	During the night S.S.E. wind increased (average 75-80 m.p.h.) with violent gusts and moderate surface drift.
	7	-1	75	S.S.E.	Ci.-St. radiant extending N.N.W. to S.S.E., dense around horizon. (Cloud 9.)	Moderate surface drift. Wind gusty. Sunshine.
	8	-1	75	S.S.E.	Ci. radiant extending N.N.W. to S.S.E. (Cloud 9.)	Drift and sunshine as at 7 h.
	10-30	2	75	S.S.E.	Ci. radiant as at 8 h. with a little Ci.-Cu. in N.W. (Cloud 9.)	Drift and sunshine as at 7 h. Aner. bar. 26.35.
	15	5	60	S.S.E.	.....	Light intermittent surface drift. Wind gusty. Sunshine.
	18	3	40	S.S.E.	Ci.-St. radiant, extending N. by W. to S. by E., in E. fleecy with cross lines trending E. by N. and W. by S. Patch Ci.-Cu. low down W.N.W. and bar Cu. near horizon N.E. (Cloud 7.)	Surface drift ceased (a little during gusts). Sunshine.

Table XVII—continued.

REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 15	20	...	...	...	.....	Aner. bar. 26-30.
	21	-4	40	S.S.E.	Patches St.-Cu. low down N.W. and S.E. Ci.-St. near horizon N.E. through E. to S.E., a patch in S. and along W. to S.W. horizon. (Cloud 0.)	Very light surface drift. Sunset.
16	...	...	...	...	.....	During the night S.S.E. wind (average 35 m.p.h.), gusty with lulls. Min. temp. -13.
	6	-6	35	S.S.E.	Bank of St.-Cu. up to 7° alt. N.E. through N. to N.W., with patches Ci. above, W.N.W. to N.W. and N. (Cloud 1.)	No drift. Sunshine.
	8-30	-3	35	S.S.E.	Clouds as at 6 h. ....	No drift. Sunshine.
	12	0	30	S.S.E.	St.-Cu. to 5° alt. W.N.W. to E.N.E. Bar Cu. N. to S.E. 4° alt. Ci. above the St.-Cu. extending E. to W. up to 15° alt. (Cloud 0.)	No drift. Sunshine.
	14	...	...	...	.....	Aner. bar. 25-975.
	14-30	2	10	S.S.E.	St.-Cu. heavier along W.N.W. through N. to S.E. horizon. Ci. (since 12 h.) in all directions, with whisps in N.W., now forming a radiant practically covering sky N.W. to S.E. (Cloud 5.)	Calms at intervals. No drift. Sunshine.
	18	1	Calm.	...	Ci.-St. radiant in lines N. and S. St.-Cu. W.N.W. through N. to E. horizon. F.-Cu. low down E. (Cloud 5.)	No drift. Sunshine.
	19	...	...	...	.....	Aner. bar. 25-85.
19-30	0	Calm.	...	Ci.-St. radiant as at 18 h. Sky overcast lower, with Nb. (cloud 10) moving rapidly to W.	No drift.	
17	21	1	5	S.S.E.	Clouds as at 19-30 h. ....	No drift. At 22 h. light snow fell. During night wind S.S.E. (5-10 m.p.h.).
	8	5	10	S.S.E.	Overcast N. (Cloud 10.) ....	Light drift. Sunshine. Min. temp. -3.
	12	12	10	S.S.E.	Clear sky S.E. horizon. Overcast N. Cu.-Nb. around horizon. "Water sky" N. (Cloud 9.)	No drift. Sun obscured.
	15	9	10	S.S.E.	Clouds as at 12 h. ....	No drift. Sun obscured.
	16	...	10	S.S.E.	Nb. changing to A.-Cu. moving N.W. to S.E. Sky clearing E. to S.S.E. hor.	No drift. Sun obscured.
	18-30	4	10	S.S.E.	Sky clearer; clouds as at 16 h. (Cloud 8.)	No drift. Sun obscured.
	20	2	10	S.S.E.	Sky still clearing. Clear E.N.E. through E. to S. to 5° alt. A.-Cu. moving N.W. to S.E. (Cloud 7.)	No drift. Sun obscured.
18	...	...	...	...	.....	During night S.S.E. wind (average 10 miles per hour).
	3-30	...	...	...	A.-Cu. in patches over sky. (Cloud 3.)	Sunshine. Min. temp. -9.
	6	...	...	...	.....	Aner. bar. 26-15.
	6-30	6	15	S.S.E.	Fr.-Cu. W.N.W. through N. to E.N.E. near horizon. (Cloud 0.)	No drift. Sunshine.
	9	11	15	W.	St.-Cu. and Fr.-Cu. up to 5° alt. E. through N. to W. (Cloud 0.)	No drift. Sunshine.
	13	16	15	W.	Ci.-Cu. has risen to zenith from the N.W. St.-Cu. bank low in N. (Cloud 2.)	Aner. bar. 26-67. No drift. Sunshine.
	15	...	Calm to 5.	W.	Sky covered with Ci.-Cu. radiating from W. by N. to zenith. (Cloud 8.)	No drift. Sun gleaming since 13-30 h.
	16	17	Calm to 5.	W.	Clouds as at 15 h. ....	No drift. Sun gleaming.
17	...	...	...	.....	Sky clearing in W. Clear E. to S.W. through S. horizon.	

Table XVII—continued.

## REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November 18	18	15	Calm to 5.	W.	Ci.-Cu. radiant extending W. by N. to E. by S., faint at zenith and towards S., moving W. by N. to E. by S. Clear sky E. through S. to S.W. hor. (Cloud 8.)	No drift. Sun shining since 16-30 h.
	21-30	7	Calm to 5.	W.	Clouds as at 18 h. ....	No drift. Sun setting. Calm to light airs during night.
19	7	13	Calm.	...	Ci. radiant extending N.W. to S.E. (faint at zenith). Few scattered patches of Ci. around horizon. (Cloud 5.)	Sunshine.
	10	15	5	N.N.W.	Sky covered with Ci. (radiant cleared except at zenith, very faint N.W. and S.E.). Nb. and St. cross lines at zenith; rest of Ci. in all directions. Motion N. by W. to S. by E. Bank of misty cloud along N. by W. through N. to E.N.E., appears to be moving N.W. to S.E. (Cloud 5.)	Sunshine.
	11	...	5	N.W.	Ci. at zenith, motion as at 10 h. The low misty cloud (noted 10 h.) moving rapidly N.W. to S.E. and now near zenith, and by 11-30 h. the sky covered.	Sunshine.
	13	22	5	N.W.	Clouds as at 11-30 h. ....	Sun gleaming.
	15	21	Calm.	...	Ci.-St. in N.W. to 40° alt., main trend in lines N. and S. Bank of Cu. W. by S. through S. to E.N.E. to 5° alt. The Cu. lowering since 14 h. (Cloud 1.)	.....
	18-30	14	Calm.	...	Cu. on horizon N.W. through N. to E. (Cloud 0.)	.....
	21 22	5 ...	5 ...	S.W. ...	Sky Clear.....	..... Light gusts, 25 m.p.h. During the night a small amount of drift with light breezes.
20	9	...	50	S. by W.	.....	Heavy local drift.
	10-30	16	25	S. by W.	Low Fr.-Cu. extending from 30° alt. N.W. through zenith to 30° alt. S.E., moving in all directions, generally S.S.E. (Cloud )	Wind from all directions generally S.S.E. Light drift S.S.E. through N. to N.W. on ridge (distance 5 miles). Heavy local drift ceased.
	11-30	...	5	S. by W.	.....	Light drift on ridge as at 10-30 h.
	...	...	...	...	.....	Between 11-30 h. and 14 h. S. by W. wind, gusty (average 40 m.p.h.) with light to heavy surface drift; cloud (Fr.-Cu.) cleared generally to N.W.
	14	16	35	S. by W.	Patch Fr.-Cu. 30° alt. N.W. (Cloud 0.)	Moderate surface drift.
	17	15	60	S. by W.	.....	Moderate and heavy surface drift during the afternoon.
	19	...	...	...	.....	S. by W. wind, 40 m.p.h.
	20	...	...	...	.....	S. by W. wind, 30 m.p.h.
21	...	...	...	.....	S. by W. wind, 20 m.p.h.	
21-30	5	20	S. by W.	Ci.-St. up to 5° alt. W. to N. since 18-30 h. (Cloud 0.)	Very light surface drift.	
22	...	...	...	.....	Sunshine all day. Southerly light airs with light surface drift. During night southerly light airs.	
21	6	6	Light airs	S.	Few patches gauzy Ci. in zenith and N. sky, Ci. wisps in S. in lines N. and S. In zenith trending S.W. and N.E. Ci. moving S.W. to N.E. Bank of St. up to 3° alt. W. through N. to E.N.E. (Cloud 1.)	No drift.

Table XVII—continued.

REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.	
			Miles per hour.	Direction.			
November. 21	8	...	...	...	.....	Ci. cleared.	
	10	16	15	S.	Bank of St. up to 4° alt. N.W. through N. to E. (Cloud 0.)	No drift.	
	12	18	30	S.	Bank of St. as at 10 h. Patches of scud N. (Cloud 0.)	No drift.	
	14	16	40	S.	Bank of St. cleared. Patch of Cu. near horizon N. by W. (Cloud 0.)	Light surface drift. Wind gusty.	
	18	19	35	S.	Patches of Fr.-Cu. near horizon N. (Cloud 0.)	During afternoon St. Wind gusty, 35-40 m.p.h., intermittent light surface drift. Fr.-Cu. near horizon N. (Cloud 0.)	
	20	14	35	S.	Clouds as at 18 h. ....	Wind and drift as at 18 h. Sunshine all day.	
	22	...	...	...	.....	S. wind 50-55 m.p.h. with surface drift since 20-30 h.	
	22	3	...	...	...	.....	S. wind 15 m.p.h.
		8	20	15	S.	Bar of Cu. low down N. horizon. Patches Ci.-St. near horizon S. (Cloud 0.)	No drift.
		10	23	Calm.	...	Patches Fr.-Cu. forming in W., trending S.W. and N.E., and patch low down N.E. Cu. as at 8 h. (Cloud 1.)	.....
10-30		...	...	...	.....	Light N. wind. Clouds generally moving to the S.	
11-30		...	...	...	.....	The low Fr.-Cu. cleared. Patches Ci.-St. on horizon W., and Cu. bar N. as at 8 h. (Cloud 0.) Light N. airs.	
13		27	20	S.	Overcast with A.-St. except clear sky to alt. 10° N. and in S.W. (Cloud 9.)	No drift.	
15		24	25	S.	Overcast with Nb. (Cloud 10.)	Light drift commenced. Sun obscured (shining until 2 h.).	
16-30		...	...	...	.....	S.S.E. wind 35 m.p.h., heavy drift. Nb. moving rapidly S.S.E. to N.N.W. Sun gleaming.	
18		22	20	S.S.E.	Patches St.-Cu. N.W. and N.E. (the N.E. patch trending S.S.E. and N.N.W., moving S.S.E. to N.N.W.), and up to 10° alt. S. to N.N.W. (Cloud 1.)	Light surface drift. Sunshine.	
21		14	25	S.S.E.	St. N. horizon. (Cloud 0.)	Moderate surface drift.	
22	...	...	...	.....	Conditions as at 21 h.		
23	...	...	...	...	.....	Between 2 h. and 7 h. southerly wind 70 m.p.h. and abated a little. Heavy surface drift during high wind, after 7 h. lightened.	
	12	20	40	S.	Sky obscured by drift	Moderate to heavy drift. Sunshine.	
	14	...	...	...	.....	Drift ceased.	
	15	25	30	S.	Patch Ci.-St. up to 10° alt. S. to E., trending N.E. and S.W. and rising, and patch 40° alt. N. (Cloud 0.)	Wind gusty. No drift. Sunshine.	
	16-30	...	...	...	.....	Calm. (Wind abating since 15 h.).	
	18	24	Calm.	...	Ci. radiant in lines N.E. to S.W. Clear up to 10° alt. N.W. (Cloud 4.) Spreading from S.E. to N.W. since 15 h.	No drift. Sunshine.	
	19	...	...	...	.....	Light airs from E. and N.E. Ci. gauzy at zenith.	
	20	...	...	...	.....	Calm.	

Table XVII—continued.

## REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 23	21	17	20	S.	Ci. radiant over sky, N.E. to S.W., moving N.E. to S.W., heavy round horizon. Lower cloud Cu.-Nb., 45° alt. E. to N. (Cloud 6.)	Little surface drift.
	22	...	...	...	.....	Wind and drift as at 21 h. During the night southerly wind increased (55-60 m.p.h.) with drift.
24	...	...	...	...	.....	Wind abating during morning.
	12	22	30	S.	Ci. over sky in all directions, in E. trending N. and S. (Cloud 4.)	Light surface drift. Sunshine.
	14-30	23	40	S.	Clouds as at 12 h. ....	Light intermittent drift. Sunshine.
	17-30	18	40	S.	Clouds as at 12 h. ....	Drift and sun as at 14-30 h.
	19	...	45	S.	Clouds as at 12 h. ....	Intermittent surface drift. Sunshine.
	21	12	40	S.	Ci. over sky, in S.E. trending N.E. and S.W., dense in N.W. Bar of Cu. near N.E. horizon. (Cloud 5.)	Drift and sun as at 19 h.
						During night southerly wind 35 m.p.h. very light surface drift.
25	9-30	16	30	S.	Bar of Cu. N. to E.N.E.; 2° alt. A.-Cu. over sky, moving to S.S.E. Clear sky on S.S.E. horizon. (Cloud 9.)	Very light surface drift. Sun gleaming. (Little surface drift during morning.)
	12-30	17	25	S.	A.-Cu. as at 9-30 h., motion to E.S.E. Clear sky up to 5° alt. S.E. (Cloud 9.)	Sunshine at intervals. No drift.
	14	...	...	...	.....	Clouds as at 12-30 h. with clear sky S.E. near zenith; motion to E.S.E. (Cloud 9.) Sun and drift as at 12-30 h.
	16	21	20	S.	Clouds as at 12-30 h. stratified round horizon. Motion to E.S.E.	No drift. Sun gleaming.
	18	18	10	S.	Overcast A.-St., stratified round horizon. Heavy bank N.E. to E. near horizon. Few patches Fr.-Cu. N.W. through N. to E. (Cloud 9.) Clear sky E. to S. horizon.	No drift. Sun obscured.
	21	15	Light airs.	S.	Overcast with A.-St.; dense, stratified around horizon; clear patch E. to S. over plateau. Fr.-Cu. patch N.W. 15° alt. Bank of St.-Cu. on horizon N. to E. St.-Cu. E. to S.W., near horizon.	No drift. Sun obscured since 18 h.
						During night S. wind increased to 25 m.p.h. with surface drift.
26	...	...	...	...	.....	Between 2 h. and 8 h. S. wind 25 m.p.h.
	8	15	25	S.	Overcast with A.-St. Clear patch on horizon S. to S.W. Stratified on N. horizon. (Cloud 9.)	No drift.
	10	20	25	S.	Sky covered with A.-Cu. moving from N. Clear W.N.W. to S.E. up to alt. 30°. Densest E. to S. Stratified horizon W.N.W. to E. Clear S.W. to W.N.W. up to 10° alt. (Cloud 9.)	No drift.
	12-30	23	10	S.	Completely covered, heavy A.-Cu. Clear patches on N. horizon. (Cloud 9.)	Sun gleaming. Wind steadily abating since 10 h. No drift.
	15	26	10	S.	Clouds as at 12-30 h. ....	Sun gleaming. No drift.
	16-30	...	Light airs.	S.	A.-Cu. with lower series of Fr.-Cu., zenith to N.W., moving from S. to N.	Bright sun since 15 h. No-drift.
	17-30	...	...	...	Clouds in N., formed radiant, cleared by 18 h.	Bright sunshine.

Table XVII—continued.

REGISTER OF THE NEAR EAST PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.	
			Miles per hour.	Direction.			
November. 26.	18	21	Light airs.	S.	A.-Cu. from N. horizon up to 30° alt. and S. hor. up to 10°. Patch of Ci. high up N.E. (Cloud 2.)	Bright sun since 15 h.  During afternoon calm to light S. airs. No drift.	
	19	...	...	...	Since 18 h. clouds in N. rising and forming radiant in N. to 10° S. of zenith, extending E. to W. Bank of St.-Cu. in S.W. and heavy bank near N.E. horizon. (Cloud 4.)	.....	
	21	...	...	...	Cleared in zenith. Ci. formed high in N. to N.E., moving from N.W.	.....	
	22	...	...	20	S.	.....	Bright sun during afternoon.
	22-30	15	...	20	S.	.....	Light airs since 18 h. .....
	27	3-30	...	40	S.	.....	No drift.
	10-30	22	40	S.	Few patches of Ci.-St. N.W. to N.E. (Cloud 1.)	Since-22-30 h. (26th) wind increased to 75 m.p.h. and gradually abated. No drift.	

Table XVIII.

REGISTER OF THE NEAR EAST COAST SURVEY PARTY FROM WINTER QUARTERS,  
CAPE DENISON.(December 9th, 1912, to January 5th, 1913.) Recorder: *C. T. Laseron.*

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 9	23	19	35	S.	A bank of Nb. extended from the N. round through the W. to the S. about 7° up. A heavy patch of Cu.-Nb. in S.E. Ci.-St. above the Nb. in the N.	Moderate surface drift; 5½-mile cave.
10	18	22.2	...	...	.....	5½-mile cave.
	21-30	18.3	30	S.	Ci. over most of sky. Cu.-Nb. on northern horizon.	Light surface drift.
11	7	16	40	S.S.E.	Ci. over whole sky and irregular. St.-Cu. on N. horizon 1° up. Ci. radiant N.E. and S.W., moving S.W. St.-Cu. bank has now risen to 3° along the N. horizon.	5½-mile cave.
	10-40	21.4	...	...		
	11:30	...	...	...	Ci. radiant moved S. .... Ci. on N. horizon S.E. and S.W., 4° up. St.-Cu. on N. horizon extending from N.W. to E., 7° up. Remainder of sky clear. Wind about 25 S.S.E.	Light surface drift.
	14	23	25	S.S.E.		
	16	23	...	...		
	18-30	20.4	20	S.		
	20-15	18	...	...	Bank of Ci. just visible in S. Also few wisps of Ci. in south.	14-mile camp.
12	7-30	14.2	25	S.	Southern sky clear. Ci. over N. half sky, trending S.E. and N.W. Patch of A.-Cu. in N.E. to E. Bank of St.-Cu. on N. horizon 2° up.	14-mile camp. Light surface drift from S.S.E.
	9-40	...	...	...	Ci. radiant E. to W. A.-Cu. in N.E. ....	.....
	11	20.1	30	S.S.E.	Ci. visible on S. horizon. St.-Cu. coming up from N.E. reaching zenith, moving S.W.	Very light surface drift.
	12	21.2	30	S.S.E.	Sky clear with exception of Ci.-St. low on S. horizon and bank of St.-Cu. in N. 12° up.	Light surface drift.
	15	20.8	...	...	Ci. bank just visible on S.E. horizon. Bank of St.-Cu. in N. sky receded to 6° up. Ci. in N. and zenith forming a N. and S. radiant.	.....
	16-25	20.8	20	S.S.E.	Northern half sky covered with Ci. radiant moving E.S.E.	No drift.
13	18	18.8	30	S.S.E.	Sky clear in S. Rest of sky covered with Ci. radiant presented a conf. appearance but some wisps appear to travel south.	Light surface drift. At the 24-mile camp.
	20-25	16	30	S.E.	Bank of St. on N. horizon. Ci. radiant over whole sky, pointing E.N.E.	24-mile camp. Light surface drift.
	8-30	16.2	40	S.S.E.	Sky obscured .....	24-mile camp. Heavy drift.
14	18	22	30	S.S.E.	Sky obscured .....	24-mile camp. Heavy drift.
	8-10	13	15	S.S.E.	Bank of Cu. on E. and N. horizons, very low. Rest of sky clear with exception of wisps Ci. on N. half.	24-mile camp. Light drift (surface).
	9-55	15.2	20	S.S.E.	Bank of Cu. on N. horizon from N.W. to E. very low. A few wisps of Ci. in zenith.	Light surface drift.
	12	20.6	15-20	S.S.E.	Belt of Cu. very low on horizon, stretching from N. to E. Patch of Ci. in W.	Light surface drift.

Table XVIII—continued.

REGISTER OF THE NEAR EAST COAST SURVEY PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 14	14-50	19.4	Calm.	...	A few wisps of Ci. in W. and N.W. Bank of Cu. very low on horizon. N.W. to E. sky, otherwise clear.	.....
	16-30	24	Calm.	...	Sky clear with exception of bank of St.-Cu. very low on horizon, stretching E. to W. Patch of Ci.-St. in W. 1° above horizon.	.....
	21-15	9	Light airs.	S.	Sky clear with exception of bank St.-Cu. on horizon as at 16-30 h.	Nunatak camp.
15	9-30	16	Light airs.	S.	Sky clear except for Cu. bank in N. hor.	Nunatak camp.
	14-30	17	10	...	Sky clear except for Cu. bank in N. ....	Bright sun.
	18	15.6	Light airs.	S.	Patch of Ci.-St. about 8° up in N. ....	.....
	20-40	11.2	...	...	Sky clear except for bank of Cu. about 1° up from N. to E. Few wisps of Ci.-St. in N.	Camp 10 miles N. of Nunatak.
16	8-30	15.4	...	...	Sky clear except for bank of Cu. low in N. from E. to W. Patch of Ci.-St. in W. about 4° up.	10 miles N. of Nunatak.
	14	23	Light wind.	S.	Ci.-St. up to 12° from S. to N.W. Fr.-Cu. on N.W. to W. horizon and also in N.E.	.....
	16	25.2	...	...	Ci.-St. from N.W. across sky to S. 25° up. Fr.-Cu. on horizon from E. to W. through N.	Camp on coast due N. of Nunatak.
	18-50	24.2	Light airs.	S.	Sky clear except for patch of Fr.-Cu. in W. 6° up. Similar patch in E. Ci.-St. low on N. horizon with Cu. showing beneath.	.....
	20	17.8	Light airs.	S.	Sky clear with exception of bank of Fr.- Cu. in N.W. about 4° up and similar patch in N., same elevation.	.....
17	8	24.2	Light breeze.	S.	Radiant of A.-Cu. from E. to W., and travelling W. Eastern half of sky clear.	Camp on coast due N. of Nunatak.
	11-55	29	Calm.	...	Ci.-Cu. in zenith and St. travelling E. Faint Ci.-St. radiant above, running E. and W. Heavy Cu. from N. to S.E. about 10° above horizon.	.....
	17-20	...	Light breeze.	S.	Few patches of Ci.-St. in N., N.W. and N.E. Bank of Cu. just visible on N. horizon.	.....
	21	22.5	Light airs.	S.	Bank of Ci.-St. on N. horizon from N.E. to N.W. about 4° up. Few wisps of Ci.-St. low in W.	.....
18	8	19.2	30	S.S.E.	Sky clear except for Ci. on N. horizon up to 10°.	Light surface drift.
	12	25.4	20	S.E.	Sky mostly clear. Patch of Fr.-Cu. in W. about 3° up. Bank of Cu. from N. to E. low down on horizon. Patch of Ci.-St. in N. and bank of same in N.E.	.....
	19	...	Light breeze.	S.	Sky clear except for belt of Fr.-Cu. in N.E. about 15° up.	.....
	21	16.8	...	...	Sky almost clear. Belt of Fr.-Cu. in N.E. receded and just visible above horizon.	Camp 3 miles W. of previous camp.
	24	12.1	25	S.	Sky clear except for patch of Cu. low in N.E.	Very light surface drift.
19	11-30	24	Light breeze.	W.	Belt of Fr.-Cu. low on N.E. horizon. Sky otherwise clear.	.....



Table XVIII—continued.

REGISTER OF THE NEAR EAST COAST SURVEY PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 19	12	...	...	...	Clouds same .....	.....
	13-50	...	...	...	Sky clear except for patches of Fr.-Cu. on N. horizon.	.....
	16-40	...	...	...	Clouds same .....	.....
	20-30	...	...	...	Sky clear .....	.....
	21-30	17.8	Light wind.	S.	Sky clear .....	Same camp as on Dec. 18.
20	8-30	24	Light breeze.	S.	Belt of Fr.-Cu. on N. horizon W to N.E. Sky otherwise clear.	.....
	10-20	...	...	...	Radiant A.-Cu. from W. extending nearly to E. horizon. Clouds moving W. to E. Same bank of Fr.-Cu. on N. horizon.	.....
	12-20	25.5	Light airs.	N.	A.-Cu. radiant nearly gone. Few pat- ches scattered over S. half sky. Bank of Cu. in N. low on horizon. Patch of Ci.-St. in N.E. about 5° up.	.....
	14-45	27.2	Light airs.	N.	Sky clear except for bank of Cu. low on N.W. horizon and faint Ci.-St. low on N.E. horizon.	.....
	17-15	...	...	...	Sky clear except for low Cu. bank on N.W. horizon.	.....
	21-5	11.2	20	S.S.E.	Sky clear except for a faint bank of Cu. on N.W. horizon and a higher layer of Ci.-St. extending from N.E. to N.W.	Camp 3 miles E. of first camp on coast. Light surface drift.
21	9	24.5	20	S.S.E.	Sky clear with exception of bank of St.-Cu. on N. horizon up to 8°, ex- tending from W. to E.	.....
	11-50	...	10-15	S.S.E.	Southern sky clear. A.-Cu. in N. 45° up, moving E. Much heavier towards N. horizon. Bank extends from E. to W.	.....
	12-50	25.5	...	...	A.-Cu. in prev. obs. is nearly evaporated. Bank of St.-Cu. on N. horizon about 5° up, extending from E. to W.	Wind increasing. Low surface drift.
	19	20.1	40	S.E.	Cross radiants of Ci. near zenith. N.N.W.-S.S.E. and E.S.E.-W.N.W. Former is the lower and is moving E. The second (higher) to S.	Surface drift. Camp 2½ miles further East than that of the 20th.
22	11	20	50	S.S.E.	Sky overcast .....	Moderate to thick drift.
	12	...	...	...	Conditions as at 11 h. ....	.....
	17	24	...	...	Conditions same .....	.....
23	9-30	25	30	S.S.E.	A.-Cu. radiant in zenith from N. St.-Cu. on S. and E. horizons. Clear sky Light drift above. Nb. to N.W.	Same camp as 22nd.
	14 20	25.8 24.7	35 20-30	S.S.E. ...	Sky heavily overcast with nimbus .....	Light drift. Snowing in east. Thick drift.
24	11	25.8	20-30	...	Sky overcast .....	Drift moderate. Snowing in near vic- inity.
	17	27.4	10	...	Sky overcast .....	A little surface drift.
	23	29	Light airs.	S.	Sky overcast with Nb. in W. and N. Broken in zenith, showing Ci.-Cu. radiant from E.N.E.	Same camp as 23rd. Snowing lightly.
25	11	27.2	10	S.E.	Sky overcast with Nb.: clear on E. horizon and S.E.	Snowing out to sea. Light surface drift. Occasional flakes of snow falling.
	17	...	...	...	Between 14 h. and 17 h. sky rapidly cleared from S., clouds moving to N. At 17 h. sky is clear with exception of faint belt of Ci.-St. low on N. horizon.	Same camp as 24th.

Table XVIII—continued.

REGISTER OF THE NEAR EAST COAST SURVEY PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.	
			Miles per hour.	Direction.			
December. 25	19	22	30	S.S.E.	Conditions as at 17 h. ....	Light surface drift.	
	20	19.8	...	...	Conditions as at 19 h. ....		
26	9	24	40-50	S.S.E.	Sky overcast .....	Surface drift.	
	16	24.1	50	S.S.E.	.....	Moderate surface drift.	
	18	23.2	...	...	Conditions same .....	Same camp as 25th.	
27	12	24	50	S.S.E.	Ci. scattered over whole sky .....	Same camp as 26th. Light surface drift.	
	14-30	26.5	30	S.S.E.	Isolated patches of Ci. over whole sky .....		
	18	26.4	15-20	S.S.E.	Patches of Ci. over whole sky moving N.N.W. ....	No drift.	
	22-30	...	...	...	Strong Ci. radiant from N.N.W. ....		
	23-30	21.6	25	S.S.E.	Clouds same as at 22-30 h. ....		
28	8-40	23	25	S.S.E.	A.-Cu. radiant from S.W. Clouds mov- ing N.E. ....	Camp near Loc. D.	
	14-30	24.8	20	S.S.E.	Strong Ci. radiant from W. ....		
	15-30	...	...	...	Heavy bank of Cu.-Nb. on N. horizon about 6° up. Ci. in W. and N., also from S. to E. Zenith clear. ....	Camp near Loc. E. and F.	
	18-30	23.8	20-25	S.S.E.	Cu.-Nb. in N. as at 15-30 h. Ci. St. in W. up about 25°. Ci. in zenith moving E. to W. ....		
29	12-45	18.5	20	S.S.E.	Ci.-St. in zenith and S. St. in west .....	Camp near Loc. E. and F.	
	10-20	24.1	...	...	Ci. radiant from N. ....		
	18	24.2	15	S.W.	Strong Ci. radiant from N.N.E. ....	.....	
	21-30	21.7	Calm.	...	Clouds as at 6 p.m. ....		
30	6	19.5	Light airs.	S.	Ci. radiant from N. ....	Camp near Loc. E. and F.	
	13-30	28.8	Calm.	...	Ci. radiant from N. ....		
	17-30	25.5	Light breeze.	W.	Ci. radiant from N., lines showing flexing in places to E. ....	Camp 5 miles W. of previous camp, Loc. E. and F.	
	19-50	17	Calm.	...	Ci. radiant from N. Ci. showing above		
31	7	...	Light breeze.	S.	Sky overcast but clear on E. horizon...	Camp 5 miles W. of Loc. E. and F.	
	9	...	...	...	Sky clear except for A.-Cu. radiant from S. ....		
	10	19.8	30	...	Bank of St.-Cu. in N. about 3° up. Ci.-St. in N.W. about 4° up from horizon. A.-Cu. radiant as at 9 h. ....	Wind increasing. Light surface drift.	
	11	...	...	...	A.-Cu. scattered over whole sky, moving rapidly to N.N.W. Ci.-St. in N. about 5° up. ....		
	13	21	30	S.S.E.	Overcast .....		Snowing. Camp 7 miles W. of Loc. E. and F. Snowing.
19	19.8	Light breeze.	S.	Overcast .....			
1913. January.	1	10-15	21.2	25	S.S.E.	Sky overcast.....	Camp 7 miles W. of Loc. E. and F. Snowing.
		18-30	20.5	...	...	Sky overcast .....	
		19-30	...	...	.....	Snowing. Snowing heavily. Drift very thick.	
2	10	...	30	S.S.E.	.....	Same camp. Snowing and thick drift.	
	17	21.5	25	...	Sky obscured by thick drift .....		
3	10	24	15-20	S.S.E.	Sky heavily overcast .....	Same camp. Snowing.	
	17	24	15-20	...	Sky more broken. Ci. radiant E. to W. showing above Nb. ....		

Table XVIII—continued.

REGISTER OF THE NEAR EAST COAST SURVEY PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 4	6-30	...	15	S.	Sky clear in zenith. Fr.-Cu. in N.W. just above horizon. Cu. in S. about 60° up. Ci.-St. on S. and N. horizon. St. on E. horizon.	Camp 7 miles W. of Loc. E.
	11	21	25	S.	Sky overcast with A.-Cu. moving W....	Light surface drift.
	14	23	...	...	A.-Cu. over N. half sky. S. part clear. Strong "water sky" in N.	Light surface drift.
	16-20	19-1	...	...	A.-Cu. covering most of sky. Clouds travelling west.	.....
	19-30	15-2	20	S.	Heavy bank of St.-Cu. on N. horizon, stretching from W. to S.E. about 6° up. Few patches of A.-Cu. in zenith.	Camp 5 miles due W. of Nunatak.
5	6-30	14-7	25	...	Sky overcast .....	5 miles due W. of Nunatak. Light surface drift.
	11	19-2	35	...	.....	Moderate drift. Foggy with a little snow.
	13-30	...	...	...	.....	Wind increasing.

Table XIX.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

(November 10th, 1912, to January 10th, 1913.) Recorder: *R. Bage.*

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 10	14	8	35	S. by E.	Clear except for a little Cu., 1° alt. ....	.....
	16	5	35	S. by E.	Clear, a little St.-Cu., low in N. ....	.....
	18	4	15	S. by E.	Light Ci.-St., low in N. ....	.....
	20	-1	10	S. by E.	Clear, band of Ci.-Cu. in N. ....	Prismatic sunset.
	22	-6	10	S. by E.	Clear, band of Ci.-Cu. in N. ....	.....
11	9-30	1	55	S. by E.	Sky overcast with St. ....	Light surface drift.
	13-30	6	55	S. by E.	Even pall of St., changing to St.-Nb. ....	Snow began to fall at 15 hrs. Drift heavy.
	21-30	2	55	S. by E.	Dense Nb. ....	Heavy drift. Wind 60-75 miles per hour through night.
12	13-30	10	55	S. by E.	Completely overcast ....	Heavy drift.
	18	10	55	S. by E.	Completely overcast ....	Drift lighter.
	20	9	45	S. by E.	Overcast, but lighter to the S. ....	Drift moderate to light.
13	8	13	35	S. by E.	Uniform St. through which sun is just visible.	Sastrugi S. by E.
	10-30	14	35	S. by E.	Pall of St. ....	Light drift.
	16	...	25	S. by E.	A.-Cu. observed in the zenith, moving N.	Wind reached 70 m.p.h. during night, heavy drift.
14	18	...	75	S. by E.	"Noah's Ark"; Ci. N.W. to S.E. ....	Light drift. Wind reached 70 m.p.h. during night with heavy drift.
	15	...	75	S. by E.	Sky clear, except Ci.-St. in E., alt. 20°, trending N. and S.	Wind reached 85 m.p.h. during night with heavy drift.
15	21	-10	65	S. by E.	Sky clear, except wisp of Ci.-St. to E....	Light drift. Fine prismatic sunset.
	16	8-30	...	60	S. by E.	Sky clear ....
12-30		...	...	...	Sky clear, except for St. low in N., and Ci. above it up to 8°.	Wind falling.
16		...	...	...	Whirl of Ci. in N.W. extended to full radiant N.W. to S.E.	At 18 h. Cu.-Nb. from S. covered the radiant.
19-30		-1	10	S.E.	Overcast with Nb. ....	Light snow falling
20		...	15	S.E.	Overcast with Nb. ....	Light sago snow.
17	21	-2	...	...	Overcast with Nb. ....	Snow ceased. Dead calm.
	7-30	0	25	S. by E.	Complete pall of St. ....	Light drift. Min. therm. -6.
	9-30	4	25	S. by E.	St. shows patches of St.-Cu. ....	Drift diminishing.
	12	4	25	S. by E.	Even pall of St. ....	.....
	14	6	...	...	Clouds breaking to S.E. ....	Drift almost ceased.
	16	4	...	...	Clear in S., otherwise overcast with St.	Light surface drift.
	18	1	15	S. by E.	St.-Cu. rolling towards N. Clear in S.E. up to 20°.	Light surface drift.
	20	-4	15	S. by E.	A.-Cu., light in zenith, heavier to N., clear in S.	Light surface drift.
18	7	-4	8	S. by E.	Bank of St.-Cu., altit. 2°, from W. through N. to N.E. Cu. low in N.W.	No drift.
	10	1	8	S. by E.	Clear except for St.-Cu. at 2° alt. in N.	No drift.
	12	9	8	S. by E.	Clear, except for St.-Cu. at 4° alt. in N.	.....
	16	10	...	...	A.-Cu. from N.W. has steadily advanced to S.E., covering all but a space 10° alt. in S.	Occasional sunshine.
	18	3	...	...	A.-Cu. has largely evaporated; striations N. to S.; moving bodily to S.E.	No drift.
	20	-2	5	S. by E.	A.-Cu. has come up in a long radiant from W., extending S.E.	Sastrugi 5° E. of S.

TABLE XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 18	21-30	-5	5	S. by E.	Sky overcast with A.-Cu., dense over W. half. E. and S. horizon clear up to 5°. A little Ci. visible through A.-Cu. in N.E.	No drift. Light breeze at intervals during day.
19	7-30	0	15	W. by N.	Ci.-Cu. from zenith to E. ....	Min. therm. -11.
	10	7	...	...	Ci.-Cu. overspreading sky, striated in all directions. Movement apparently to N. by E.	At 10:30 hours Ci.-Cu. became much thinner. Calm.
	14	14	...	...	Clear; flecks of Ci.-Cu. in N. and E. ....	Numerous sastrugi, crossing W.N.W.
	16-30	10	2	W.	Clear .....	Numerous small sastrugi working more to W. and S.W.
	18-30	0	2	N.	Clear .....	.....
	20-30	0	15	S.W.	Clear .....	Wind later increased in gusts to 35 m.p.h. Main sastrugi S. by E., smaller ones cross from W.N.W. round to W.S.W.
20	8	11	30	S.W.	Clear .....	Min. therm. -8°.
	10-30	12	30	S.W.	Bank of Ci.-St. to N.W., otherwise clear	No drift.
	12	12	35	S.S.W.	Clear .....	.....
	16	13	15	S.S.W.	Clear .....	.....
	18	12	5	S.S.W.	Clear .....	} From 60-mile camp only one set of sastrugi bearing S. by E.
	20-30	10	15	S.S.W.	Clear, except a wisp of Ci.-Cu. to N.W.	
21	9	5	30	S.S.W.	Clear .....	Light drift.
	10-30	8	35	S.S.W.	Clear .....	Light drift.
	14	11	35	S.S.W.	Clear .....	Light drift.
	19	6	35	S.S.W.	Clear .....	A few small sastrugi bearing S.S.W. crossing the main ones from S. by E.
22	9	...	30	S.S.E.	St.-Cu. approaching from S. ....	Min. therm. -5°.
	10	18	30	S.S.E.	Sky overcast with Cu.-Nb., but clear low in S.	} Fragment of solar halo just discernible, showing prismatic colour. Radius 22°. Light snow falling.
	16	...	25	S.S.W.	Sky rapidly clearing .....	
	19	10	35	S. by E.	Sky clear, except St. at 10° alt. in N.E.	Light surface drift.
	21	7	40	S. by E.	Sky clear .....	Moderate drift.
23	9	...	65	S. by E.	.....	Moderate drift.
	15	16	60	S. by E.	Broken "Noah's Ark" of Ci. extending W.S.W. through N. to E.N.E. Wisps of Ci. over the S. sky.	Wind is becoming more gusty.
	19	...	50	S. by E.	Sky has become veiled with St.-Cu., more especially in W.	Light drift.
	20-30	14	55	S. by E.	St.-Cu. overspreads sky, but clear in W. and N.	Light drift.
24	8-30	12	50	S. by E.	Sky lightly overcast with St.-Cu. which is rapidly passing N. Clear in S.	Moderate surface drift. Min. therm. -6°.
	11	...	50	S. by E.	Bank of A.-Cu. covering N. sky to within 10° of horizon. Clear in S. except for wisps of Ci.	Moderate surface drift. Sastrugi trending S.
	12-30	18	50	S. by E.	Sky more or less covered with A.-St. ....	Moderate surface drift.
	14	19	45	S. by E.	Sky overcast with A.-St. ....	Light surface drift.
	16-30	17	45	S. by E.	Sky overcast with A.-St. ....	Solar halo 50° in diam., prismatic red inside.
	19	...	50	S. by E.	Sky overcast with A.-St. ....	Solar halo partly visible.
	22-30	7	70	S. by E.	Ci. radiant E. and W. across sky. Light pall of A.-St.	Prismatic sunset.
25	11-30	12	65	S. by E.	Several radiants of Ci. all trending E. and W., more or less covering sky.	Min. therm. + 3°.
	13	16	60	S. by E.	Sky clear with a few wisps of Ci., and bank of Ci.-St., alt. 4°, from W. through N. to N.E.	Light surface drift.

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
November. 25	16-30	16	55	S. by E.	St.-Cu. from S. now extends to the zenith. Movement towards N.W.	Light surface drift.
	18	14	20	S. by E.	St.-Cu. is evaporating. Bars of Ci.-St. trending E. and W. can be seen through St.-Cu.	A few flakes of sago snow fell.
	20	14	20	S. by E.	St.-Cu. has again arisen from S.E. covering sky except to 1° alt. N. and S.	At 22 hours wind freshened to 45 m.p.h.
	22-30	9	50	S. by E.	Overcast with St.-Cu., clear up to 5° in S.	At 24 hours sky cleared, St.-Cu. breaking into bars running E. and W.
26	11-30	20	35	S. by E.	Overcast evenly with St.-Cu.	.....
	12-30	17	20	S. by E.	St.-Cu. lighter towards S.W.	Sastrugi S. by sun compass.
	14-30	17	20	S. by E.	St.-Cu. thinning out. In zenith movement E.N.E.	.....
	17	13	15	S. by E.	St.-Cu. clearing steadily from S.	Sun shining.
	18-30	11	15	S. by E.	Clear, except for St. in S.E.	.....
	20-30	5	15	S. by E.	Clear, except for St. bars in E. and N.W. 2° up.	Undercut sastrugi well marked.
	24	-1	30	S. by E.	Clear, except for St. bars in E. and N.W. 2° up.	Wind rising.
27	12	11	60	S. by E.	Sky clear	Min. therm. -6. Wind decreasing.
	13-30	14	55	S. by E.	Clear, except for bar of St., 1° up in N.W.	Light surface drift.
	16	13	55	S. by E.	Clear	Light surface drift.
	20	10	45	S. by E.	Clear, except for Ci.-St., 8° up in N. and W.	Light surface drift. Wind increasing.
28	13	14	50	S. by E.	Overcast with St.-Cu.	Min. therm. +1. Blowing all night and morning.
	15	12	50	S. by E.	St.-Cu. lightening. Ci. radiant visible trending E. and W.	.....
	17	13	40	S. by E.	St.-Cu. dense again	.....
	18-30	12	40	S. by E.	Cloud lightening to S., S.W. and in zenith.	.....
	20-30	11	30	S. by E.	Pall of St.-Cu. broken to S.E.	.....
29	9	18	45	S. by E.	Clear	.....
	13	16	40	S. by E.	Clear, except for Ci. wisps rising from N.W., and light St. on N.W. and E. horizons.	Min. therm. 5°.
	15-30	16	50	S. by E.	Clear, except a bar of Ci.-St. in N.W. up 5°.	.....
	17	15	50	S.5°E.	Clear, except Ci.-St. 5° up in N.	.....
	19	12	40	S.5°E.	Clear	.....
	23	5	50	S. by E.	Sky clear	.....
30	11-30	15	50	S. by E.	Sky clear	.....
	14	16	50	S. by E.	Clear, except for bar of Ci.-St. 3° up to N.N.E. Wisps of Ci. in N.W.	.....
	16-30	13	50	S. by E.	Bar of Ci.-St. 3° up N.W.; Ci. wisps to W.N.W.	.....
	19	10	55	S. by E.	Cloud as at 16-30 h.	.....
	23	3	55	S. by E.	Clear, except for bank of St.-Cu. rising in W., and Nb. to N.E. 10° up.	Sastrugi S. by E.
December. 1	11-30	15	45	S. by E.	Clear overhead, heavy St.-Cu. 40° up in N., lighter in S.E. and W., and to 50° up in S.	Min. therm. -1°.
	13	....	....	....	Several banks of Ci.-St. in S., from E.S.E. to W.S.W., up to 10°. Otherwise sky is veiled with Ci. and Ci.-Cu. travelling N.	.....
	15-30	15	....	....	Bands of Ci.-St. 30° up in S. trending E. and W. Ci.-Cu. in zenith and to N. horizon moving E. by N.	At 16 hours Ci. and Ci.-Cu. radiant up to 60° in S.W. "Noah's Ark" of Ci.-Cu. trending E. and W. moving W. to E.

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks
			Miles per hour.	Direction.		
December. 1	17	13	15	S. by E.	Sky as 15-30 h., with less Ci.-Cu. ....	.....
	18-30	12	15	S. by E.	Ci.-Cu. arc from W. to E. ....	Sun gleaming.
	21-30	3	20	S. by E.	Radiants cleared from S., now 20° up in N.	"Noah's Ark" of Ci.-Cu. pronounced at 19-30 h.
	23-30	-1	25	S. by E.	Radiant 20° up in N. ....	.....
2	11	12	30	S. by E.	Clear, except for light bank of Ci.-Cu. 10° up in N.	Min. therm. -3.
	13	13	30	S. by E.	As at 11 hours. ....	.....
	15	10	20	S. by E.	Clear, Ci.-Cu. 6° up in N. ....	.....
	18	9	5	S. by E.	Clear, Ci.-Cu. 3° up in N. ....	.....
	20-30	2	...	...	Clear ....	.....
	21-30	-1	25	S. by E.	Clear ....	.....
3	11	12	25	S. by E.	Clear ....	Min. therm. -1.
	16	15	...	...	Clear, except for patches of A.-Cu. working from S. to N.W.	.....
	18	7	10	S. by E.	Clear, except bank of St. $\frac{1}{2}$ ° up E., and Cu. $\frac{1}{2}$ ° up S.W.	.....
	20	3	10	S. by E.	Bank of St. $1\frac{1}{2}$ ° up N.E. through E. to S.E. ....	.....
	22-30	-3	15	S. by E.	As above with bar of Ci.-St. 2° up S.E. to S.	Sastrugi S. by E.
4	11	12	25	S. by E.	St.-Cu. overspreads sky except for 15° up in N.	.....
	13	15	25	S. by E.	St.-Cu. coming up from S.E. to N.W., fringe of clear sky round horizon except in S.E.	.....
	15-30	12	25	S. by E.	St.-Cu. has worked off to N.W. ....	Sastrugi S. by E.; very much wind eroded.
	18	10	10	S. by E.	Clear ....	.....
	20-30	4	10	S. by E.	Clear, except for Ci.-St. bars 10° up in E., working from S.E.	.....
	23	-4	20	S. by E.	Light flecks of Ci. round horizon within 10°; Ci.-Cu. from S. overhead; Cu. bank just showing in E.	.....
5	10-30	10	20	S. by E.	Ci.-St. all round horizon, 4° up, except in N.; Ci. wisps 10° up in S.	.....
	13	10	15	S. by E.	St.-Cu. fringing horizon; Ci.-Cu. patches 30° up E., moving N.	.....
	15-30	10	15	S. by E.	Heavy bank of St.-Cu. up 18°, N.W. through N. to S.E. Lighter bank St. to N.W. 6° up, otherwise clear.	.....
	17	9	15	S. by E.	As above ....	.....
	18	8	15	S. by E.	St.-Cu. fringing horizon, otherwise clear.	.....
	19	5	10	S. by E.	Cu. moved up rapidly from S.E., worked to S.W., and is now only 3° up. Light Nb. followed and now covers N.E. half of sky.	Minute snow grains falling.
	22-30	2	2	S. by E.	Cu.-Nb. from S.E. through zenith to N.W. Ci. radiant 50° up in E from S.E. to N.E.; Nb. bank 8° up in N.	Light snow falling.
	6	11	12	25	S. 35°E.	Overcast with St., some Cu. showing in zenith.
13	13	30	S. 35°E.	Even pall of St.-Nb. ....	Moderate drift.	
15-30	11	30	S. 35°E.	Even pall of St.-Nb. ....	Sun just visible.	
19	6	30	S. 35°E.	Pall heavier ....	Moderate drift.	
21	4	30	S. 35°E.	Overcast with St.-Nb. ....	Light drift and snow.	
7	10-20	13	20	S. 35°E.	Overcast with St.-Nb. ....	Min. therm. 4. A little snow at 11-30.
	14-30	17	30	S. 35°E.	Heavy Nb. ....	.....
	17	16	30	S. 35°E.	Sky broke in S.E., showing clear space up to 4°.	.....

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 7	18	...	35	S.35°E.	Sky clearer. showing Ci. radiant N.W. to S.E.	Light drift.
	19	10	40	S.20°E.	Heavy St.-Cu. again from S.E.	Moderate drift.
	21	9	40	S.20°E.	Overcast St.-Cu.; light in S.	Wind rising.
8	11-30	15	35	S.40°E.	Overcast and obscured by drift	Min. therm. +6. Moderate drift.
	14-40	14	35	S.40°E.	Overcast and obscured by drift	Small crystals of snow falling.
	18-30	14	40	S.45°E.	Overcast and obscured	Snow falling; drift heavier.
	21	11	30	S.45°E.	Overcast and obscured	Snowing heavily.
	23	10	30	S.45°E.	Sky lighter in S.E.	Still snowing.
9	6-30	11	30	S.30°E.	Completely overcast	Sun almost visible. Drift light.
	7-30	12	30	S.30°E.	Nb. clearing from S.E. Trace of Ci. radiant from S.E. to N.W.	Light drift.
	10-40	9	40	S.30°E.	Nb. has again covered sky, except in S. and E.S.E. low on horizon.	Light drift.
	16	19	40	S.S.E.	Heavy Ci.-St. up to 30° all round horizon, hazy overhead. Break of blue in E. and S.E.	Moderate drift.
	20	5	55	S.S.E.	Sky more or less covered with Ci.-St. trending N.W. to S.E. Ci.-St. in S. up 20° trending E. and W.	New sastrugi S.S.E. Drift increasing.
10	13-30	9	40	S. by E.	Sky clear, except for Ci.-St., 2° up in W.	Moderate drift.
	15-30	8	30	S. by E.	Sky clear, except for Ci.-St., 2° up in W.	Moderate drift.
	17	6	25	S. by E.	Sky clear, except for Ci.-St., 2° up in W.	Moderate drift.
	18-50	5	20	S. by E.	Sky clear, except for Ci.-St., 2° up in W.	Light surface drift.
	21-30	-1	15	S. by E.	A few Ci. wisps up to 20°, in S.E., W. and N.	Fresh sastrugi, S.10°E.
	23-30	5	20	S. by E.	As at 21-30 hours	Fresh sastrugi, S.10°E.
11	11-30	8	20	S. by E.	Clear; a few scattered wisps of Ci.	Min. therm. -7. Light surface drift.
	13-30	11	25	S. by E.	Whole sky covered by Ci. radiant N.W. to S.E.	Min. therm. -7. Light surface drift.
	15-30	10	25	S. by E.	Whole sky covered by Ci. radiant N.W. to S.E.	Min. therm. -7. Light surface drift.
	18-30	6	25	S. by E.	Whole sky covered by Ci. radiant N.W. to S.E.	Min. therm. -7. Light surface drift.
	20-30	0	15	S. by E.	Radiants now trend E. and W.	.....
	23-0	-4	30	S. by E.	Ci.-St. bar to S.; flecks of Ci. all over sky.	Moderate surface drift.
12	10	3	30	S. by E.	Clear, except Ci. wisps S. and W.; Ci.-St. bank N.W. through N. to N.N.E.; bar of Ci.-St. 4° up N.W.	Light surface drift.
	12	6	30	S. by E.	Sky same as at 10 hours, also a Ci. radiant N. of zenith, trending E. and W., Nb. and St. striations.	Light surface drift
	14	8	25	S. by E.	Overhead Ci. radiant evaporating. Bar Ci.-St. 3° up, W., N. and N.E.	Light surface drift.
	17	8	20	S. by E.	Ci.-St. in N. up 6°	.....
	18-30	5	20	S. by E.	Ci. in N. 15° up	.....
	21	-1	15	S.15°E.	Ci. radiant filling N. sky up to 45° showing striations N. and S., N.W. and S.E.	.....
	23-30	-7	20	S.15°E.	Wisps of Ci. 10° up S.W.	Bank of Ci. 3° up N.W. to N.E. through N.
13	10-30	7	15	S.15°E.	"Noah's Ark" of Ci. more or less covering sky; trend is from E.S.E. to W.N.W.	Light surface drift. Min. therm. -7°
	15	9	15	S.15°E.	"Noah's Ark" of Ci. more or less covering sky; trend is from E.S.E. to W.N.W.	Light surface drift.



Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 13	18	+7	15	S.15°E.	Ci. "Noah's Ark" still same, moving E.S.E.	Light surface drift.
	20	1	20	S. by E.	Sky clear, except light banks of Ci., trending N.W. to E.S.E.	.....
	22	-3	20	S. by E.	Clear; wisps of Ci. N.W. and S.E.	.....
	23	-5	30	S. by E.	Clear	Light surface drift.
14	11	7	30	S. by E.	Clear	Light surface drift.
	13	7	30	S. by E.	Clear	Light surface drift.
	15	9	20	S. by E.	Clear	Light surface drift.
	17-30	7	20	S. by E.	Clear	Light surface drift.
	19	5	20	S. by E.	Clear	Light surface drift.
	21	-1	15	S. by E.	Clear	Light surface drift.
	23	-6	15	S. by E.	Clear	Light surface drift.
	24	-9	20	S. by E.	Clear	Light surface drift.
15	10	0	30	S. by E.	Clear	Light surface drift.
	12	2	35	S. by E.	Clear	Min. therm. -11.
	14	2	30	S. by E.	Clear	Moderate surface drift.
	17	1	30	S. by E.	Clear; a few wisps of Ci. in S. up to zenith.	Moderate surface drift.
	18-30	0	20	S. by E.	Clear	Light surface drift.
	23-30	-12	15	S. by E.	Clear, except bars of Ci.-St. 10° up from S.E. through S. to S.W. Trend is E. and W., rising for last 2 hours.	Light surface drift.
16	11	6	20	S. by E.	Clear	Min. therm. -15°. No drift.
	13	8	10	S. by E.	Clear, except for wisps of Ci. up 10° in S., trending E. and W.	.....
	15	5	10	S. by E.	Clear, except Ci.-St. 12° up in S., trending E. and W., falling to horizon in S.W.	.....
	17-30	3	10	S. by E.	Clear, except Ci.-St. bar 10° up in S.	At 19-30 h. two wisps of drift observed N.45°E. blew away to N.
	18-30	1	2	S. by E.	Clear	.....
	20-30	-4	2	S. by E.	Ci. radiant trending E. and W. has risen to 20° in S.; Nb. and St. striations.	No drift.
	22-30	-13	2	S. by E.	Ci.-St. radiants up to zenith, more or less covering whole S. sky. Below them fleecy Ci.-Cu. moving N. and showing Nb. and St. striations.	No drift.
	23-30	-15	2	S. by E.	Radiants breaking up, Ci.-Cu. has disappeared.	.....
17	11	1	15	S. by E.	Clear, with bars of Ci.-St. 4° up in N.E.	Min. therm. -20°. No drift.
	15-30	3	10	S. by E.	Clear, except light broken bar of Ci.-Cu. W. to N.W., 2° up. Heavy bank St.-Cu. 2° up in S.E. and rising.	For past hour A.-Cu. patches have been forming overhead moving N.N.W. and evaporating.
	17	...	...	...	St.-Cu. rose rapidly from S.E. to N.W., breaking up.	.....
	18	3	20	S.	Almost overcast with Cu.-Nb. moving rapidly N.W.	Light snow falling. Light surface drift.
	20	3	2	S. by E.	Sky has cleared leaving some light Cu. from S. to W., and heavy bar of St.-Cu. to N.	.....
	22	-10	2	S. by E.	St.-Cu. to S.E. has increased in density sending out light patches to N.W. and moving bodily N.	.....
	24-30	-18	2	S. by E.	Clear, except heavy bar of St.-Cu. to E., and Ci.-St. bands up to 6° S.S.W.	St.-Cu. has worked to N. and W., and now shows 20° up in N. Light fleecy A.-Cu. in S. up to zenith moving N.W. rapidly.

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 18	13-30	3	15	S.S.E.	Clear, except St.-Cu. just above S.W. and N.E. horizons.	.....
	16	1	15	S.S.E.	Clear, except St.-Cu. just above S.W. and N.E. horizons.	Light surface drift.
	17-30	0	10	S.S.E.	Clear, except St.-Cu. just above S.W. and N.E. horizons.	No drift.
	19	-3	2	S.S.E.	St.-Cu. bank from N. through E. to S.E.	.....
	21-30	-10	2	S.S.E.	St.-Cu. bank from N. through E. to S.E.	.....
	23	-15	2	S.S.E.	St.-Cu. bank from N. through E. to S.E.	.....
19	10	2	2	S.	St.-Cu. bar low in N.E., otherwise clear	Min. therm. -19°.
	11-30	3	2	S.	St.-Cu. bar low in N.E., otherwise clear	.....
	14-30	5	...	...	Bank of St.-Cu. low, N.E. through E. to S.E.; otherwise clear.	Calm.
	17	0	...	...	St.-Cu. now N. to S.E., 5° up; otherwise clear.	Calm.
	19	-2	...	...	St.-Cu. now N. to S.E., 5° up; otherwise clear.	Calm.
	21	-4	...	...	St.-Cu. has moved from S.E. to N.W., and now covers the sky in broken patches. Heavy in S.E.	Calm.
	22-30	-5	...	...	Overcast with rifts in places. Clear low in N.W., breaking in S.E.	Sastrugi trend S. by E. and S.30°E. Calm.
20	9-30	-6	30	S. by E.	Clear .....	Light surface drift.
	11-30	-2	15	S. by E.	Clear .....	Light surface drift.
	14	0	15	S. by E.	Light bar of Ci.-St. low in S.E. Clear...	Min. therm. -11°. No drift.
	15-30	1	10	S. by E.	Clear .....	.....
	19	-3	10	S. by E.	Bar Ci.-St. low in N.E. ....	.....
	21-30	-10	10	S. by E.	Clear .....	Sastrugi S.E. and S. by E.
	23	-15	10	S. by E.	Clear .....	Sastrugi S.E. and S. by E.
21	9-30	-3	15	S. by E.	Clear .....	Min. therm. -21°.
	12-30	2	15	S. by E.	Clear .....	.....
	15	0	15	S. by E.	Clear .....	.....
	17-30	-5	15	S. by E.	Clear .....	.....
	19-30	-16	8	S. by E.	Clear .....	.....
22	7-30	-10	20	S. by E.	Clear in S. Ci. radiant in N. trending N.W. to S.E. Light in zenith.	Min. therm. -25°.
	12-30	1	20	S.S.E.	Radiant invading sky in S. ....	.....
	14	2	20	S.S.E.	Sky overspread with Ci. radiant .....	Light surface drift.
	15-30	0	20	S.S.E.	Radiant breaking up; at present "Noah's Ark" trending W.N.W. and E.S.E.	Light surface drift.
	17-30	0	20	S.S.E.	Radiant less marked .....	.....
	20	-7	10	S.S.E.	Radiant less marked .....	.....
23	6-30	-12	30	S.S.E.	Clear .....	Light surface drift.
	9	-5	25	S. by E.	Ci. bands 2° up in E., otherwise clear...	Mod. surface drift. Min. therm. -17°.
	12	2	25	S. by E.	Clear .....	Mod. surface drift. Min. therm. -17°.
	16	3	20	S.S.E.	Bar of St. 1/4° up in N. ....	Light surface drift.
	18	1	10	S.S.E.	Bar of St. 1/4° up in N. ....	.....
	20-30	-7	10	S.S.E.	Ci.-St. radiant in form of an arc from N.W. to E.	.....
24	6-30	-8	15	S. by E.	Ci.-St. overspreads sky radiating N.W. to S.E.	Min. therm. -12°. Light surface drift.
	7-30	0	15	S. by E.	Sky veiled with Ci.-St. ....	Solar halo 50° diam.
	8-30	-3	15	S. by E.	Ci.-St. radiant faint; trend N.W. to S.E.	.....
	13	4	15	S. by E.	Ci.-St. same as before with striae in N.W. crossing main trend at right angles.	.....
	14	3	15	S. by E.	Ci.-St. radiant fainter, no cross striae...	.....
	18	-3	10	S. by E.	Radiant fading .....	.....

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December.						
24	20-30	-8	6	S. by E.	Radiant very faint and broken.....	.....
25	9	-10	10	S. by E.	Clear, except a bank of Ci.-St. 4° up in N.	.....
	12	-1	15	S. by W.	Bar of Ci.-St. 2° up N.E., otherwise clear	.....
	14	1	25	S.S.W.	Clear .....	.....
	16-30	2	20	S.	Clear .....	Light surface drift.
	19	-1	20	S.	Clear .....	Light surface drift.
	21	-6	20	S.	Clear .....	Light surface drift.
26	8	-5	35	S.	Clear .....	Light surface drift. Min. therm. -11°.
	10	0	25	S.	Low St. in N., otherwise clear .....	Light surface drift.
	12	4	30	S.	Ci.-St. bank 3° up in N. ....	Light surface drift.
	17	6	20	S.	Ci.-St. has risen to 8° .....	.....
	19	3	20	S.	Ci.-St. from N.E. to N.W. 4° up .....	.....
	21-30	-1	20	S.	Ci.-St. 6° up in N., otherwise clear .....	.....
	22	-9	20	S.	Ci.-St. 6° up in N., otherwise clear .....	No drift.
27	9-30	2	35	S.	Heavy bar of Ci.-St. N.W. through N. to N.E., otherwise clear.	Light surface drift. Min. therm. -10°.
	11	5	35	S.	Bar of Ci.-St. 5° up in N. ....	Light surface drift.
	14	6	35	S.S.E.	Band Ci.-St. 6° up from W. through N. to N.E.	Light surface drift.
	17-30	4	30	S.S.E.	Bar of Ci.-St. E. to W. Broken Ci. more or less over the whole sky.	Light surface drift.
	20-30	-1	30	S.S.E.	Banks of Ci.-St. 6° up above N. and S. horizons.	Light surface drift.
	22	-4	30	S.S.E.	Banks of Ci.-St. 6° up above N. and S. horizons.	Light surface drift.
	23	-6	25	S.S.E.	Clear, except Ci.-St. in S., E. and N., 4° up.	Light surface drift.
28	11	1	40	S.S.E.	Clear, except Ci. from S.W. through N. to N.E. up 8°; light bar of Ci. near zenith trending E. and W.	Min. therm. -11°.
	13	5	40	S.S.E.	Clear, except Ci. from S.W. through N. to N.E. up 8°; light bar of Ci. near zenith trending E. and W.	Light surface drift.
	16	4	40	S.S.E.	Sky more or less covered with wisps of Ci. trending E. and W., and heavier near horizon.	Light surface drift.
	17	4	35	S. by E.	Sky same but clearer in the zenith.....	Light surface drift.
	19	2	35	S. by E.	Still clearer in zenith .....	Light surface drift.
	21	-2	30	S. by E.	Northern half of sky covered with faint Ci. radiant, trending E.N.E. and W.S.W. Southern half clear.	Light surface drift.
	23-30	-6	40	S. by E.	Clear, except for light broken Ci.-St. from S. through W. to N.	Light surface drift.
29	3-30	-8	30	S.S.E.	Sky more or less covered with a very light Ci.-St. trending E. and W.	.....
	5-30	-5	30	S.S.E.	Sky more or less covered with a very light Ci.-St. trending E. and W.	.....
	7-30	0	30	S.S.E.	Sky more or less covered with a very light Ci.-St. trending E. and W.	.....
	11-30	7	45	S.S.E.	Sky more or less covered with a very light Ci.-St. trending E. and W.	.....
30	7-30	0	30	S.S.E.	Ci. radiant overspreading sky, trending N.W. to S.E.	Light surface drift.
	11	9	30	S.S.E.	Radiant has swung round and points N.N.W. to S.S.E.	Light surface drift.
	13	11	30	S.S.E.	Radiant same only heavier .....	At 14 hours solar halo 50° in diameter.
	15	10	30	S.S.E.	Radiant same only heavier .....	Light surface drift.
	17-30	2	25	S.S.E.	Radiant unaltered .....	Drift ceased.

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 30	19	9	25	S.S.E.	Radiant more distorted in appearance...	.....
	20	...	25	S.S.F.	Radiant continues, but large area of sky round zenith covered with A.-Cu. which has formed since 19-15 hrs., and travelling S.S.E.	.....
	22	2	20	S.S.E.	Sky more or less veiled with Ci. and Ci.-Cu. A.-Cu. 45° up N.E.; sky very confused.	No drift.
31	10	6	10	(S.S.E. to S.E.).	Sky overcast with even pall of Nb., lightest in S.	Min. therm. -4. Light snow falling.
	13-30	12	10	S.E.	A.-Cu. overhead, with St.-Cu. in S.E. 3° up.	.....
	18	15	10	S.S.E.	Overcast with even pall of Nb. ....	.....
	21	7	10	S.S.F.	Overcast with St.-Cu. ....	.....
	22-30	0	15	S. by E.	Sky very confused and wild— veiled with A.-Cu. and Ci. Ci. is moving to E.	Sastrugi S.40°E. and S.20°E.
1913. January. 1	9-30	15	15	S.S.E.	Overcast with Nb. ....	.....
	12	16	20	(S.S.E. to S.E.).	Overcast with Nb. ....	.....
	14-30	18	15	S.E.	Overcast with Nb. ....	Light snow.
	18-30	16	15	S.E.	Nb. gradually dispersing. A.-Cu. show- ing above, travelling S.	During evening Nb. cleared and A.-Cu. radiant formed trending N.W. and S.E., N. and S. striations. Light surface drift.
	23	11	25	S.E.	Nb. in N. to zenith, and Cu. in S. to zenith.	
2	11	17	20	S.S.E.	Overcast with Nb. ....	Min. therm. + 9.
	14-30	19	20	S.S.E.	Overcast with light Nb. ....	Light snow.
	17	20	20	S.S.E.	Heavily overcast with Nb. ....	Light snow.
	19	18	20	S.S.E.	Heavily overcast with Nb. ....	Light snow.
	22	16	20	S.S.F.	Heavily overcast with Nb. ....	Snowing moderately.
3	10	18	25	S.S.E.	Sky overcast with Nb. ....	Min. therm. + 13. Light snow and drift.
	12	19	25	S.S.E.	Nb. is lighter	Light surface drift.
	15-30	20	15	S.40°E.	Nb. is now breaking up. Ci. radiant E. and W. visible. Clear in S.	Solar halo 50° in diam., red inside, blue outside.
	17-30	20	10	S.40°E.	Nb. is now breaking up. Ci. radiant E. and W. visible. Clear in S., but Nb. is a receding bank in N.	.....
	19-30	14	2	S.40°E.	Radiant of Ci. E. and W.; Nb. to N. and N.W.	.....
23-30	7	20	S. by E.	Ci.-St. radiant W.N.W. and E.S.E., with Nb. and St. striae. Heavy Cu. in N.	Moderate surface drift.	
4	11	14	35	S. by E.	Sky clear	Min. therm. + 1.
	13-30	14	20	S. by E.	Sky clear	Light surface drift.
	18	15	20	S. by E.	Sky clear	Light surface drift.
	19-30	12	20	S. by E.	Sky clear	Light surface drift.
	22	5	20	S. by E.	Sky clear	Light surface drift.
5	9	15	25	S. by E.	Sky becoming overcast with Cu.-Nb. approaching from S.	Min. therm. + 3.
	10-30	18	25	S. by E.	Overcast with Nb. ....	Snow (feather crystals) falling. Ligh surface drift.
	13-30	18	20	S.30°E.	Nb. travelling N. swiftly	.....
	19	13	10	S.30°E.	Clear, except Ci.-St. radiant in N.W. up 20°.	.....
	21	6	10	S.30°E.	Radiant of Ci.-St. from N.W. passing through zenith to S.E. Cu. bank stretching E. and W., 15° up in N. St.-Cu. on N.E., S.E. and S.W. hori- zons.	.....

Table XIX—continued.

REGISTER OF THE SOUTHERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January.						
6.	1	...	25	S.30°E.	A.-Cu. covering whole of sky except around the horizons, moving N.W.	Min. therm. + 5.
	12	20	20	S.S.E.	Overcast with A.-Cu. moving N.W. to S.E.	.....
	15	20	15	S.S.E.	Overcast with light Nb., sun just visible.	Small crystals of snow falling.
	24	...	10	S.S.E.	Uniform pall of Nb. ....	Snow falling steadily.

## January.

- 7 All day there has been a uniform pall of Nb., light wind, and a steady light snow-fall.
- 8 At 1 h. the clouds broke, and the sky became nearly clear. At 4-30 hrs. it clouded over rapidly from the S.E. During the whole day it was overcast, with fogs at times. The wind freshened up to 40 miles per hour by 12 hours.
- 9 Heavy blizzard, wind 60 miles per hour all day. About 21 hours the wind began to slacken.
- 10 Almost clear in the morning.

Table XX.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

(December 3rd, 1912, to January 17th, 1913.) Recorder: A. J. Hodgeman.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December 3	24	7	15	S.	Sky clear, except patch of Ci.-St. on N.W. horizon (afternoon and evening). (Cloud 0.)	23 h. aner. bar. 27.45. 15:30 h. to 21 h. calm. Bright sunshine. No drift.
4	...	...	...	...	.....	Midnight to 4 h. wind increased, 4 h. to 7 h. (40 m.p.h.) decreased. Bright sunshine. No drift.
	9-30	18	25	S.	Sky clear, Cu. on horizon N.N.E. through E. to S.S.E. (Cloud 0.)	Aner. bar. 27.41. Sun shining.
	10	...	...	...	.....	.....
	12-30	21	15	S.	Sky clear, Cu. on horizon N. to E. (Cloud 0.)	.....
	15	...	...	...	Few patches of scud S.W., 10° alt. (Cloud 0.)	.....
	20	18	Calm.	..	Sky clear except Cu. on N. to E. horizon. (Cloud 0.)	Aner. bar. 27.13: Calm 14 h. to 20 h. Wind constant (20 m.p.h. S.) 20 h. to 8 h. (5th).
5	8	13	25	S.	Sky clear, except Cu. on W.N.W. to E.N.E. horizon and E.S.E. to S.W. horizon. Patches of Cu.-St. S.E., 5° alt. (Cloud 0.)	Aner. bar. 27.09. Sun shining. No drift.
	9-30	18	25	S.	Clouds as at 8 h. with additional Ci.-St., faint S.W. (Cloud 1.)	Sunshine. No drift.
	12	...	25	S.	Sky clear, except Cu. on W.N.W. to E.N.E. horizon and patches of Ci.-St. on S. to W. horizon. (Cloud 1.)	Sun shining. No drift.
	14	...	...	...	Clouds as at 12 h. with Cu. on S. to S.W. horizon. (Cloud 1.)	Two sets of sastrugi, directions (a) N. and S. (old); (b) N. by W. and S. by E. (new).
	15-30	...	30	S.	Sky clear, except Cu. on W.N.W. to E.N.E. horizon and S.W. horizon. Ci.-St. extending S.W. horizon to 40° alt. N.W., moving S.W. to N.E. (Cloud 1.)	Sun shining. No drift.
	17-30	...	...	...	.....	Very light surface drift commenced.
	18	16	30	S.	Cu.-W.N.W. to E.N.E. Since 15-30 h. a higher bank of Cu. has been forming and now extends in patches N.E. to N.W. Ci.-St. (observed 15-30 h.) moving bodily to N. (S.W. extremity now at W.). Cu. has been rising in S. to S.W. and now misty, and a lower filmy cloud (scud) rising and moving rapidly S.E. to N.W. (Cloud 2.)	Very light surface drift.
	18-30	...	...	...	.....	Very light surface drift ceased.
	22	15	15	S.	Heavy Cu. on W.N.W. to E.N.E. hor. St.-Cu. on E. to S.W. horizon to 20° alt., and a few patches of scud moving rapidly S.E. to N.W. (Cloud 1.)	Sun shining. No drift. Aner. bar. 26.47 at 23 h.
6	Moderate drift commenced between 24 h. and 3 h. Wind 45 miles per hour, S. between 24 h. and 3 h. 9-30 h. aner. bar. 26.41. 3 h. to 21 h. Drift heavier, wind increased (average 55 m.p.h.), S. Gusts to 70 m.p.h., with lulls. Sun gleaming.					
	21	14	60	S.	Sky obscured .....	Sun gleaming. Heavy drift.
	21-30	...	...	...	.....	Aner. bar. 26.26.
	23	...	60	S.	Sky obscured .....	Sun gleaming. Heavy drift.
7	24 h. to 17 h. Wind 55 m.p.h., S. gusts to 70 m.p.h. with lulls. During night and morning heavy drift; afternoon moderated slightly.					
	11	...	...	...	.....	Aner. bar. 26.31.

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 7	18-30	20	25	S.	Sky overcast with A.-St. "Water sky" N. to N.E. horizon. (Cloud 9.)	Wind with intermittent lulls. Sun obscured by clouds. Light drift. Aner. bar. 26-27.
						Between 18-30 h. and 22 h. S. wind gradually increased with moderate drift. Between 22 h. and 4-30 h. (8th) wind 50 m.p.h. average (southerly).
8	4-30	...	55	S.	.....	Moderate drift.
	11	...	30	S.	Sky obscured .....	Moderate drift.
	12	...	...	...	.....	Aner. bar. 26-20.
	14-30	21	15	S.	Sky obscured by drift .....	Moderate drift.
	16-30	...	15	E. by S.	.....	Heavy snowfall.
	18	23	...	...	.....	.....
	19	...	40	E. by S.	Sky overcast with heavy nimbus (Cloud 10) moving S.E. to N.W.	Sun gleaming for few minutes. Heavy snowfall.
	23	19	25	S. by E.	Sky obscured by snowfall .....	Between 19 h. and 23 h. wind 40 m.p.h. from E. by S.
	24	...	...	...	.....	Snowing. Conditions as at 23 h.
9						Midnight to 22 h. S. by E. wind ranging between 40 and 60 m.p.h. (average 50 m.p.h.). Heavy drift. Sun shining for few hours during morning, for the remainder of day obscured. Sky obscured by drift. 2 h., 26-12; 15 h., 26-22; 21-30 h., 26-22 (Aner. bar. readings).
10						22 h. (9th) to 2 h.—S. by E. wind (average 50 miles per hour). 2 h. to 3 h.—S. by E. wind 75 to 80 miles per hour. 3 h. to 15 h.—S. by E. wind ranging between 40 and 60 miles per hour (average 50 miles per hour). 15 h. to 19-30 h.—S. by E. wind, gusty, 25 to 30 miles per hour. Heavy drift throughout night and until 15 h., and then moderate surface drift. Sun shining practically all day. 18-30 h. Aner. bar. 26-29.
	19-30	....	25	S. by E.	.....	Wind with intermittent lulls of 10 miles per hour. Sun shining. Light sur- face drift.
	21	9	20	S. by E.	Sky covered with Ci. in all directions. Ci.-St. on horizon. Bar of Cu. extend- ing N. to E. 5° alt. Clear patches of sky N. to N.E. (Cloud 5.)	Sun shining. Light surface drift.
						21 h. to 21-30 h.—Light breezes from S. by E. with light surface drift. 21-30 h. to 22 h.—Light breezes from E.S.E. to E. with light surface drift. 22 h. to 24 h.—Wind from S. by E. 40 miles per hour, with moderate surface drift.
	24	6	40	S. by E.	Flocculent Ci. in zenith; Ci.-St. around horizon, dense in S.E. Main direction of Ci. E. and W. Cu. low down on N. to E. horizon. (Cloud 4.)	Moderate surface drift. Sun shining all evening.
11	1-30	5	40	S. by E.	Clouds as at 24 h. ....	Surface drift and sun as at 24 h.
	5	...	65	S. by E.	.....	Moderate surface drift.
	11	...	40	S. by E.	.....	Light surface drift.
	20	16	30	S. by E.	Patch of St. 3° alt. N. to E.N.E. and Ci.-St. 3° alt. S.S.E. to S.S.W. (Cloud 0.)	Light surface drift. Wind gusty with lulls.
	23-30	...	...	...	.....	Aner. bar. 25-83.
	24	...	40	S. by E.	Clouds as at 20 h. ....	Light surface drift. Sun shining.
12						Between 24 h. and 3 h. S. by E. wind increased to 75 miles per hour, and 3 h. to 6 h. gusty and calming, and between 6 h. and 15 h. gusty 40 miles per-hour S. by E. Light to moderate surface drift.
	12	...	...	...	.....	Aner. bar. 25-68.

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 12	15	14	40	S. by E.	Heavy A.-Cu. extending E. through N. to W. horizon 20° alt. N. Fragments of Ci.-St. in S., main trend E.S.E. and W.N.W. Bank of Ci.-St. S.E. to S.W. horizon. (Cloud 2.)	Light surface drift.
	18	12	30	S. by E.	A well defined Ci.-St. radiant, extending W.N.W. horizon to within 30° of E.S.E. horizon with cross lines N.N.E. and S.S.W. Since 15 h. the radiant has been moving or forming from W.N.W. to E.S.E. A lower fleecy Ci. in zenith. Bank of St. extending W.N.W. to E.N.E. horizon. (Cloud 5.)	Light surface drift. Sun shining all day.
	20	...	25	S. by E.	Ci.-St. becoming denser and changing to A.-St. trending W.N.W. to E.S.E. Clear from horizon to 30° alt. S. sky. "Water sky" on N. horizon. (Cloud 7.)	Light surface drift. Sun gleaming since 6 h.
	21	10	30	S. by E.	Sky becoming densely overcast with A.-St. to within 30° alt. on S. horizon. Clear sky below, S.E. to S.W. horizon. "Water sky" on N. horizon. (Cloud 8.)	Light surface drift. Sun shining.
	23	...	20	S. by E.	.....	High surface drift. Sun shining all evening. Snowing low down N.W.
	24	7	20	S. by E.	Sky overcast with A.-St. to within 30° alt. on S.W. to S.E. horizon (denser than at 21 h.). Clear sky below. "Water sky" on N. horizon. (Cloud 9.)	Light surface drift. Apparently snowing S. Sun shining all evening.
13	1	...	25	S. by E.	Sky as at 24th .....	Two sets of sastrugi, directions (a) N. and S. (old); (b) N. by W. and S. by E. (new). Drift and sun as at 24 h.
	4-30	...	...	...	.....	Aner. bar. 25-31. During day and until 21-30 h. S. by E. wind, gusty (average 45 m.p.h.) with moderate surface drift.
	21-30	13	25	S. by E.	.....	Light surface drift. Sun shining since 19-30 h. Wind gusty.
14	3	...	...	...	.....	Aner. bar. 25-31.
	Between 21-30 h. (13th) and 12 h. S. by E. wind 30 to 40 m.p.h. with light to moderate surface drift. Sun gleaming all morning.					
	Between 12 h. and 15 h. wind S. by E. 25 m.p.h. abating and slightly gusty. Intermittent light to moderate surface drift. Sun shining.					
15	16	17	20	S. by E.	Clear sky except Ci.-St. on S.S.E. hor. to 20° alt. Bank of St. on N. horizon. (Cloud 1.)	Surface drift ceased. Sun shining.
	24 h.—Wind, clouds and sun same since 16 h.					
	2-30 h.—Aner. bar. 25-24. 5 h.—Wind, clouds and sun same since 16 h.					
15	6	...	60	S. by E.	.....	Moderate surface drift.
	10	...	40	S. by E.	.....	Light drift. Wind abating.
	14	14	35	S. by E.	.....	Light drift. Sun shining.
	14-30	...	...	...	.....	Aner. bar. 25-26.
	18	17	20	S. by E.	Sky clear, except patch of Ci.-St. N. by W. (Cloud 1.)	Very little surface drift since 14 h. Sun shining.
	18-30	...	...	...	.....	Drift ceased.
	21	5	15	S. by E.	Sky clear, except patches of Ci.-St. N. by W. to N. Bar of Cu. near N. by W. horizon. (Cloud 1.)	No drift. Sun shining.
	24	1	15	S. by E.	Clouds as at 21 h. with an additional band of Ci.-St. low down W. to S.W. (Cloud 1.)	No drift. Sun shining.



Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 16	3	1	25	S. by E.	Sky clear, except Cu. near N. by E. to N.E. horizon. (Cloud 1.) (1 h. Ci.-St. cleared).	Two sets of sastrugi, directions (a) N. and S. approx. (old); (b) N.30°W. and S.30°E. (new). No drift. Sun shining.
	6	5	25	S. by E.	Sky clear.....	No drift. Sun shining.
	6-30	...	...	...	...	Aner. bar. 25-39.
Between 6 h. and 14-30 h.—S. by E. wind 15 to 20 m.p.h. with very little surface drift.						
	14-30	13	Light airs.	S. by E.	Ci.-St. low down N.E. to S.E., and S.W. to W.N.W. (radiating from S.). (Cloud 1.)	Aner. bar. 25-42. No drift. Sun shining.
	18	11	5	S. by E.	Patches of Ci.-St. in S.E. and S. by W. to N.W. (radiating from S.). (Cloud 1.)	No drift. Sun shining.
	21	2	Calm to light airs.	S.	Patches of flocculent Ci. on W.N.W. to E.S.E. horizon to 30° alt. Ci.-St. on W.N.W. horizon. Patches of Cu. on N. and N.N.E. horizon. (Cloud 2.)	No drift. Sun shining.
	24	2	Light airs.	S. by E.	A few patches of Ci.-St. on W.N.W. horizon through S. to S.S.E. horizon. Cu. roll near N. to E., heavy in E.N.E. (Cloud 1.)	No drift. Sun shining.
17	2	...	15	S. by E.	Clouds as at 24 h. with Ci.-St. in zenith, trending E.N.E. and W.S.W. (Cloud 2.)	Little light surface drift. Sun shining.
	3	-3	15	S. by E.	Clouds as at 2 h. except the Ci.-St. in zenith (at 2 h.) been moving bodily S. and now at 45° alt. S. sky. Patch of Cu. on S.E. horizon. (Cloud 2.)	No drift. Sun shining.
	6	2	20	S. by E.	Patches of Ci.-St. S.E. to S.W. and in N.W. St. low down on W. horizon. (Cloud 1.)	No drift. Sun shining.
Between 6 h. and 15-30 h.—S. by E. constant, 10 to 15 m.p.h. No drift; sunshine.						
	15-30	13	15	S. by E.	Ci.-St. wisps near S.E. through S. to S.W. horizon. St. low down W. through N. to N.E. (Cloud 1.)	No drift. Sun shining.
	17-30	...	...	...	.....	Aner. bar. 25-52.
	18	11	Light airs.	S. by E.	The St. (15-30 h.) changed to A.-Cu. extending W.N.W. to N.E. through N. and risen to 5° alt. with a few patches of Ci.-Cu. above. Fragments of Ci.-St. near S.E. to S.W. horizon. (Cloud 1.)	No drift. Sun shining.
	21	5	Calm to light airs.	S. by E.	St.-Cu. (arch) extending to horizon N.N.E. to W.N.W. 5° alt. N. St.-Cu. on horizon S.S.W. Few fragments of Ci.-St. (arch) extending S.S.E. to S.W. horizon, alt. 45° S. with cross lines of Nb. and St. Main trend of all clouds E. and W. (Cloud 2.)	No drift. Sun shining. A shadow extending S.W. to W.N.W. in the clear sky from a Ci.-St. bar S. by W. to S.W.
	24	-2	25	S. by E.	The St.-Cu. of 21 h. has risen. Patch of Ci.-Cu. on horizon S.W. to W. Ci.-St. on E. horizon. (Cloud 1.)	Very light surface drift. Wind freshened since 23 h.
18	3	-1	25	S. by E.	St.-Cu. extending E.N.E. to W.N.W. horizon to 5° alt. N. A few patches of Ci.-St. on S.E. to S.W. horizon to alt. 40° S. (Cloud 1.)	Very light surface drift. Sun shining.
	4-30	...	...	...	.....	Aner. bar. 25-85.
Between 3 h. and 13 h. S. by E. wind constant, 25 m.p.h. with light surface drift.						

TABLE XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS, CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.	
			Miles per hour.	Direction.			
December. 18	14	...	...	...	.....	Light surface drift ceased.	
	20-30	...	...	...	.....	Aner. bar. 25-88.	
	21	7	Calm to light airs.	S. to W.	Clouds as at 18 h. ....	No drift. Sun shining.	
	24	0	10	S. by E.	St. low down, extending N.E. to N.W. through N. A few patches of Ci.-St. near horizon N. to W. (Cloud 1.)	Very light intermittent surface drift. Sun shining.	
19	2	...	...	...	.....	Aner. bar. 26-17.	
	3	1	25	S. by E.	St. as at 24 h. Ci.-St. in N. (Cloud 1.)	Surface drift and sun as at 24 h.	
	10	...	40	S. by E.	.....	Wind slightly gusty, increased gradually since 3 h. Light surface drift ceased 6 h. Sun shining since 3 h.	
	14	19	10	S. by E.	St. on horizon N. by W. through N. to E.N.E. horizon. (Cloud 1.)	No drift. Sun shining.	
	15	...	...	...	.....	Aner. bar. 26-21.	
	17	17	Light airs.	S. by E.	Clouds as at 14 h. ....	No drift. Sun shining.	
	18-30	16	Calm to light airs.	S. by E.	Clouds as at 14 h. ....	No drift. Sun shining. Aner. bar. 26-28.	
	20-30	8	Calm to light airs.	S. by E.	Clouds as at 14 h. with Ci.-St. near S.W. horizon. (Cloud 1.)	No drift. Sun shining.	
	23	2	20	S. by E.	Clouds as at 20-30 h. ....	Very light surface drift. Sun shining.	
	20	5	6	40	S. by E.	Clouds as at 20-30 h. (19th) ....	Wind increasing since 23 h. Light surface drift, drifting same since 23 h. Sun shining.
18		18	15	S. by E.	St.-Cu. on N. horizon and a bank of Cu. low down N. to N.E. (Cloud 1.)	Wind abating since 6 h. Light surface drift ceased about 12 h. Sun shining all day.	
21		9	20	S. by E.	Clouds as at 18 h. ....	Very light surface drift. Sun shining. 20 h.—Aner. bar. 27-16.	
24		6	25	S.S.E.	Clouds as at 18 h. ....	Drift as at 21 h.	
21		3	5	40	S.S.E.	St.-Cu. low down N. by E. to E.N.E. and E. by S. near horizon. (Cloud 1.)	Moderate surface drift. Sun shining.
21	6	7	40	S.S.E.	Clouds as at 3 h. with Ci.-St. in N.W. (Cloud 1.)	1-30 h. wind same with moderate surface drift. Drift as at 3 h. Sun shining.	
	<p>At 7 h. S.S.E. wind, 30 m.p.h., with moderate drift.                      10 h.—Aner. bar. 26-80.                      21 h.—Aner. bar. 26-50.                      Between 7 h. and 22 h. S. by E. wind (average 65 m.p.h.), with heavy drift.</p>						
22	<p>At 8 h. sky and sun obscured by heavy drift. S. by E. wind since 22 h. 65 m.p.h.                      At 10 h. sky, sun and drift as at 8 h. S. by E. wind 60 m.p.h.                      At 20 h. temp 15. Since 10 h. wind and drift same as at 10 h. Sky overcast with nimbus. (Cloud 10.)                      24 h.—Aner. bar. 26-47.</p>						
	<p>Between 2-30 h. and 22 h. S. by E. wind, 50 m.p.h., with heavy drift.                      23-30 h.—Aner. bar. 26-33.</p>						
24	<p>Between 24 h. (23rd) and 2 h. S. by E. wind, 75 m.p.h., with heavy drift.                      6 h.—Aner. bar. 26-36.                      8 h.—Sky and sun obscured by heavy drift. S. by E. wind, 35 m.p.h. abating since 2 h.                      21 h.—Aner. bar. 26-54.                      22 h.—Conditions as at 8 h. (Continued same during the day.)</p>						
	25	8	...	30	S. by E.	A patch of St.-Cu. in E. (Cloud 1.).....	Aner. bar. 26-62. Moderate drift. Sun shining.
		12	...	15	S. by E.	Clouds as at 8 h. ....	At 6 h. conditions as at 22 h. (24th). Light surface drift. Sun shining.

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
December. 25	15	20	20	S. by E.	St. near N. to E. horizon. "Water sky" E. (Cloud 1.)	Light surface drift. Sun shining.
	18	18	Light airs.	S. by E.	Clouds as at 15 h. ....	Light intermittent surface drift. (16 h. and 17 h. S. by E. wind, 25 m.p.h.). Sun shining.
	22-30	...	40	S. by E.	St. (arc) N. by W. horizon through N. to E. horizon and a patch of Ci.-St. in W.S.W. (Cloud 1.) (Clouds same since 19 h.)	Moderate surface drift. Sun shining.  At 19 h. S. by E. wind 20 m.p.h., with light surface drift, increased to 40 m.p.h. by 21 h. with moderate surface drift.
	24	8	15	S. by E.	Clouds as at 22-30 h., except the Ci.-St. moved to the S.	Light surface drift. Sun shining.
26	<p>0-30 h.—Aner. bar. 26-98. 12 h.—S.S.E. wind, 25 m.p.h. with light surface drift and sun shining. Between 24 h. (25th) and 12 h. wind S. by E. (approx.), average 45 m.p.h. with heavy gusts. At 19 h. the S.S.E. wind increased to 40 m.p.h. with light to moderate surface drift. 19-30 h.—Aner. bar. 26-60. At 22 h. S.S.E. wind still increased to 50 m.p.h. with moderate surface drift, and at 24 h. 70 m.p.h., with heavy surface drift. Sun shining all day.</p>					
27	12	22	45	S.E.	Sky covered with Ci. A heavy bank S.W. through W. to N. (At 40° alt. N.N.W. the Ci. wisps are in two directions, crossing at right angles, the lines at 45° to the horizon.) Heavy bank of Cu. near N. to N.E. horizon. (Cloud 6.)	Sun shining during morning. 2-30 h.—Aner. bar. 26-53. Wind 45 m.p.h. (gusty with occasional lulls), with moderate surface drift. 8-30 h.—Wind and drift as at 2-30 h. Sun shining.
	<p>16-30 h.—Aner. bar. 26-54. Between 12 h. and 22 h. S.E. wind, 45 m.p.h. with moderate surface drift. At 24 h. wind increased to 70 m.p.h.; drift as at 22 h. ...</p>					
28	...	...	...	...	.....	24 h. (27th) to 2 h. S.E. wind 70 m.p.h., with moderate surface drift. 2 h. to 9 h. S.E. wind (average 50 m.p.h.) with moderate drift.
	9	...	50	S.E.	Sky overcast with St.-Nb., except a few clear patches round horizon. "Water sky" in the W. (Cloud 9.)	Aner. bar. 26-61. Moderate drift.
	16	18	60	S.E.	Clouds as at 9 h. (Same during the day.)	Moderate drift (since 9 h.). 11 h. to 13 h. S.E. wind 70 m.p.h. and by 15 h. 50 m.p.h.
	20	11	50	S.E.	Clouds as at 9 h., except for a few clear patches of sky at zenith since 18 h. (Cloud 9.)	Light drift since 19 h.
	23	...	50	S.E.	Clouds as at 20 h. ....	Light drift. 24 h. S.E. wind, 60 m.p.h.
29	...	...	...	...	.....	1 h.—Conditions as at 24 h. 8 h.—S.E. wind, 30 m.p.h. (abating since 1 h.). Moderate surface drift. Sun shining.
	12	21	20	S.E.	Sky covered with Ci.-Cu. (Cloud 5.) ...	9 h.—Aner. bar. 26-74. Wind gusts to 30 m.p.h. Intermittent light surface drift. Sun gleaming.
	16	20	15	S.E.	Sky covered with A.-St. radiant, ex- tending N. by E. and S. by W. Appearance of St.-Cu. low down in the W. Bar of Cu. near horizon N.W. through N. to N.E. Clear patches of sky near horizon (mainly E. and W.) (Cloud 5.)	Intermittent light surface drift. Sun shining since 12 h. Coloured halo 46° diameter (measured by sextant). Wind gusty with occasional lulls.

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.	
			Miles per hour.	Direction.			
December. 29	18	16	5	S.E.	Sky covered with Ci.-Cu. radiant, extending N. and S. (Two cross bars 40° alt. in E. sky, running N.W. and S.E.) Cu., and St.-Cu. as at 16 h. (Cloud 5.)	Light intermittent surface drift. Sun shining. Halo as at 16 h.	
	21	12	10	S.E.	Clouds as at 18 h., except the Ci.-Cu. is gauzy near zenith. In the N.E., at 40° alt. the Nb. and St. radiant is crossed with lines in E. and W. direction. Sky clearer at zenith: (Cloud 4.)	Light intermittent surface drift.	
	24	12	30	S.E.	Sky covered with Ci.-Cu. gauzy in zenith. (Cloud 7.)	At 20-30 h. the wind freshened to 10 m.p.h. Sun shining occasionally.	
	30	...	...	...	.....	24 h. (29th) to 10 h. S.E. wind ranging between 10 and 40 m.p.h. (average 25 m.p.h.) with surface drift. 2 h.—Aner. bar. 26-30. 10 h.—S.E. wind 15 m.p.h., with intermittent surface drift.	
	13-30	24	10	S.E.	A well defined gauzy Ci.-Cu. radiant, extending N. to S. horizon and 20° E. and W. of zenith. Dense in E. (Cloud 2.)	No drift.	
	18	21	5	S.E.	Clear sky from 30° to 60° alts. W., extending near N. and S. horizon, rest of sky covered with the Nb. and St. radiant. (Cloud 6.)	No drift. Sun shining.	
	23	12	15	S.E.	Ci.-Cu. radiant extending S. by W. and N. by E. (Cloud 3.)	22 h.—Aner. bar. 26-28. No drift. Sun setting.	
	31	1-30	8	20	S.E.	Clouds as at 23 h. ....	Very little surface drift. Between 1-30 h. and 10-30 h. S.E. wind, averaged 20 m.p.h.
	10-30	...	10	S.E.	Sky overcast with A.-St. "Water sky" N.W. through N. to N.E. (Cloud 10.)	No drift.	
	14	18	Calm to 5.	S.E.	Sky overcast with Nb. "Water sky" as at 10-30 h. (Cloud 10.)	13 h.—Aner. bar. 26-64. A few flakes of snow falling. Sun obscured by clouds.	
31	18	20	10	S.E.	Sky completely overcast with Nb. (Cloud 10.)	A few snowflakes falling, $\frac{3}{8}$ in. to $\frac{1}{4}$ in. in diam. and a little sago snow. Sun obscured by clouds. 22 h.—Since 18 h. wind 5 m.p.h. S.E., with a few snowflakes falling.	
	23	16	25	S.E.	Sky densely overcast with Nb. "Water sky" N.E. through N. to N.W. horizon. (Cloud 10.)	Heavy snowfall. Sun obscured the whole day.	
1913. January.	1	1 h.—Aner. bar. 26-64. Between 4 h. and 18 h.—S.E. wind, 30 m.p.h., with very heavy snowfall obscuring sky. 14 h.—Sago snow falling. 18 h.—Temp. 20. Between 18 h. and 24 h.—S. E. wind, 40 m.p.h., with light snowfall. Sky overcast with Nb. (Cloud 10.) Sun obscured the whole day.					

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January.						
2						1-30 h.—Aner. bar. 26-42. Between 24 h. (1st) and 12 h.—S.E. wind, 40 m.p.h., with intermittent lulls. Light snowfall. Sky overcast with Nb. (Cloud 10.) Sun obscured by clouds. 19 h.—Aner. bar. 26-39. 22 h.—Temp. 20. Wind and snowfall as at 12 h. Sky overcast with Nb., but clearer round horizon. Sun gleaming during afternoon. 24 h.—Conditions as at 22 h.
3						7 h.—Sago snow falling. 12 h.—Heavy drift. Sky appears clearer. S.E. wind since 24 h. (2nd), 40 m.p.h. 17-30 h.—Aner. bar. 26-57. 24 h.—Moderate drift. Sky clearing. S.E. wind puffy with light gusts (average since 12 h. 25 m.p.h.). Sun shining since 22 h.
4	...	...	...	...	.....	6h.—S.S.E. wind since 24 h. (3rd) 50 m.p.h. with moderate surface drift. S.S.E. wind gusty (average 40 m.p.h.) since 6 h. Moderate surface drift continues as at 6 h. Sun shining. 15-30 h.—Aner. bar. 26-54. Heavy surface drift. Sun shining. 18 h.—Surface drift ceased. No drift. Sun shining. Wind gusty since 20 h. Intermittent very light surface drift.
	13	...	...	...	Sky clear, except for St.-Cu. near horizon E.S.E. through N. to W.N.W. (Cloud 0.)	
	16	19	40	S.S.E.	St.-Cu. 10° alt. E.S.E. through N. to W.N.W. (Cloud 0.)	
	20	16	20	S.S.E.	Clouds as at 16 h. ....	
	24	10	40	S.S.E.	Clouds as at 16 h. ....	
5	1-30	...	30	S.S.E.	Clear sky on S. horizon to 10° alt., extending E. to W.; rest of sky overcast with A.-Cu. at zenith. (Cloud 6.)	Light surface drift. 2 h.—Aner. bar. 26-65. 1-30 h. to 6 h.—S.S.E. wind (average 30 m.p.h.) with light surface drift, then gusty with lulls, and by 8 h. increased to 50 m.p.h. 8 h. to 13 h.—S.S.E. wind (average 30 m.p.h.) with light to heavy surface drift. Sun shining several hours during morning. 13 h.—Sun obscured. Intermittent light surface drift. Sun obscured. Drift and sun as at 15 h. Sun obscured all day until 20 h. Sun shining. Drift as at 15 h. Sun shining since 20 h.
	15	22	20	S.S.E.	Sky covered with dense A.-Cu. (Cloud 8.) Clear patch of sky S.	
	18	21	20	S.S.E.	A.-Cu. clearing, clear patches of sky E. through S. to W. and at zenith. (Cloud 5.)	
	24	8	20	S.S.E.	Sky still clearing. A.-Cu. patches E. and W. sky. St.-Cu. E. through N. to W. 10° alt. N. A bank of Ci.-St. E.S.E. through S. to W.N.W. (Cloud 2.)	
	...	...	...	...	.....	24 h. (5th) to 14 h.—S.S.E. wind (average 15 m.p.h.) with light surface drift. 13 h.—Aner. bar. 26-42. No drift.
	14	22	Light airs.	S.E. by S.	Fr.-Cu. covering sky, moving S.E. to N.W. St.-Cu. on horizon N.E. through N. to N.W. (Cloud 5.)	During the afternoon, above the Fr.-Cu. a Ci.-Cu. radiant formed trending N.N.E. to S.S.W. moving N.N.E. to S.S.W. (Clouds and light airs as at 14 h.).

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January. 6	18	23	Light airs.	S.E. by S.	Cl.-Cu. radiant as above. Fr.-Cu. clearing at zenith and W., dense in the E. (Cloud 6.)	No drift.
	19	...	Light airs.	S.E.	Low Fr.-Cu. moving rapidly from E. to W. Cl.-Cu. clearing. (Cloud 5.)	Sun shining between 1 h. and 19 h.
	20	...	Light airs.	S.E.	Sky becoming densely overcast: (Cloud 7.)	Few 6-rayed snow crystals falling, $\frac{1}{8}$ in. to $\frac{1}{4}$ in. diameter.
	21	...	Light airs.	S.E.	Sky overcast, dense A.-St. "Water sky" N. Clear patch of sky on W. horizon. (Cloud 9.)	Snowfall as at 20 h.
	24	18	Light airs.	S.E.	Sky as at 21 h.	Snowfall ceased at 23 h.
	7	1	...	Light airs.	S.E.	Sky overcast with A.-St. "Water sky" N. Clear patch of sky on S.E. hor. (Cloud 9.)
2		...	...	...	.....	Aner. bar. 26-34.
6		...	Light airs.	S.E.	Sky overcast with A.-St. (Cloud 10.)	Sun obscured.
19		19	15	S.E.	.....	6 h. to 12 h.—S.E. wind 10 m.p.h. 14 h.—Aner. bar. 26-35. 15 h.—S.E. wind 15 m.p.h. Temp. 22°. Sun obscured.
24		16	15	S.E.	Sky overcast with A.-St. (Cloud 10.)	Few snowflakes falling. Sun obscured. 21 h.—Snow falling in N.W. to N.E. Snow falling as at 21 h. Sun obscured.
8		3	...	15	S.E.	Sky as at 24 h.
	12	...	15	S.E.	Sky overcast with A.-St. (lighter than at 3 h.). (Cloud 10.)	4-30 h.—Aner. bar. 26-03. Light drift. Sun gleaming (same since 6 h.).
	15	18	20	S.E.	Sky as at 12 h.	13 h.—Aner. bar. 26-00. Drift and sun as at 12 h.
	18	18	20	S.E.	Sky as at 12 h.	Drift and sun as at 12 h. 20 h.—Sun obscured.
	24	16	20	S.E.	Sky overcast with A.-St. (lighter than at 12 h.). "Water sky" near N.E. horizon. (Cloud 10.)	Light drift (misty since 21 h.). Sun obscured. Aner. bar. 25-92.
	9	3 h.—Wind 60 miles per hour 6 h.—Wind 60 miles per hour 12 h.—Wind 50 miles per hour 18 h.—Wind 40 miles per hour 24 h.—Wind 40 miles per hour 22 h.—Aner. bar. 25-90.				
10	1	...	40	S.	.....	Drift ceased. Sun shining.
	6	...	40	S.	.....	No drift. Sun shining.
	10	...	40	S.	.....	Aner. bar. 25-96. Wind gusty. Moderate surface drift since 6 h.
	13	21	40	S.	Sky covered with A.-Cu., stratified near horizon. Clear sky on horizon. (Cloud 9.)	12 h.—Drift ceased. Sun obscured. No drift. Sun obscured.
	18	21	20	S.	Sky clearing at zenith. A.-Cu. near horizon as at 13 h. (Cloud 7.)	5 h.—Sun shining. No drift. Sun shining.
	21	...	20	S.	Few bars of St.-Cu. low down W. through N. to E. and a wisp in S. (Cloud 0.)	No drift. Sun shining.
	23	9	25	S.	Clouds as at 21 h.	Light surface drift. Sunshine.
	24	...	25	S. by E.	Clouds as at 21 h.	Light surface drift. Sunshine.
11	...	...	...	...	24 h. (10th) to 12 h.—S. by E. wind 20 m.p.h. Sunshine. Light surface drift ceased at 5 h. 12 h.—Aner. bar. 25-12.	

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January. 11	15	22	15	S. by E.	Cu. bar near horizon N.E. through N. to N.W. with Fr.-Cu. above. St.-Cu. along S. horizon. (Cloud 0.)	No drift. Sun shining.
	18	21	5	S. by E.	Clouds as at 15 h., the St.-Cu. moving to S.W.	No drift. Sun shining.
	21	...	10	S. by E.	St.-Cu. on S. horizon cleared, otherwise clouds as at 18 h.	20-30 h.—Aner. bar. 25-98. No drift. Sun shining.
	24	13	40	S. by E.	Bars of Ci.-St. near S.E. horizon. (Cloud 0.)	Light surface drift. Sunshine.
12	...	...	...	...	.....	22-30 h.—Sunset. Aner. bar. 25-98. Light surface drift.
	3	...	40	S. by E.	Clouds as at 24 h. (11th) .....	Three sets of sastrugi. Directions— (1) Old, N. and S.; (2) New, S.E. and N.W. (3) New, E.S.E. and W.N.W. 1 h.—Sunshine.
	12	...	40	S. by E.	Patches of Fr.-Cu. at zenith moving N. (Cloud 0.)	Light surface drift. Sunshine. Aner. bar. 25-84. Moderate surface drift. Sunshine.
	...	...	...	...	.....	Wind between 24 h. (11th) and 12 h. average 30 m.p.h. Between 12 h. and 17 h.—Sky covered with Fr.-Cu. (Cloud 9.) Sunshine occasionally, heavy surface drift. S. by E. wind 50 m.p.h.
	17	...	50	S. by E.	Sky covered with Fr.-Cu. (Cloud 9.)...	Heavy surface drift. Sun obscured.
	21	...	45	S. by E.	.....	Heavy surface drift. Sun obscured.
	24	...	55	S. by E.	Sky appears overcast with Nb. (Cloud 10.)	Heavy drift.
	...	...	...	...	.....	.....
13	4	...	45	S. by E.	.....	Heavy drift. Sun obscured.
	12	...	45	S. by E.	Sky obscured by drift .....	Aner. bar. 25-97. Moderate drift. Sun obscured.
	15	23	40	S. by E.	Sky overcast with Nb.; "water sky" N. (Cloud 10.)	Between 4 h. and 10 h. sun shining for about 2½ hours. Sun obscured. Moderate drift.
	18	...	55	S. by E.	Sky as at 15 h. ....	Break in clouds; sunshine for 15 mins. Moderate drift.
	22	...	...	...	Sky cleared. St. round horizon and patches of Ci.-St. at zenith. (Cloud 1.)	Wind increased since 17 h. 20 h.—Aner. bar. 26-08. Sunshine. Heavy surface drift.
	24	...	35	S. by E.	Sky as at 22 h. ....	Heavy surface drift.
	...	...	...	...	.....	.....
14	12	...	...	...	Few patches of scattered Ci.-Cu. (Cloud 0.)	6 h.—S. by E. wind 60 m.p.h. Sunshine since 1 h. Heavy surface drift since 24 h. (13th).
	14	...	...	...	Clouds as at 12 h. ....	Sunshine and drift as at 12 h. 18-30 h.—Aner. bar. 26-09.
	20	18	50	S. by E.	Ci.-Cu. near horizon S.E. through E. to N., and near zenith in N.W. (Cloud 0.)	Sunshine. Heavy surface drift ceased.
	24	13	55	S. by E.	Ci.-Cu. near horizon S. through E. to N. (Cloud 0.)	21 h.—Intermittent surface drift commenced. 10-30 h.—Sunset. Intermittent surface drift.
	...	...	...	...	.....	.....
15	...	...	...	...	.....	2-30 h.—A heavy patch of Ci.-Cu. S.E. through S. to S.W. near horizon. (Cloud 0.)

Table XX—continued.

REGISTER OF THE WESTERN SLEDGING PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

Date.	Hour.	Temperature (deg. Fah.).	Wind.		Cloud.	Remarks.
			Miles per hour.	Direction.		
January. 15	5	17	55	S.	Ci.-Cu. on horizon N. through S. to W., heavy patches 60° alt. W.N.W., and fleecy patch N.N.W. near zenith. (Cloud 1.)	Sunshine since 1 h. Moderate surface drift since 2 h. Wind gusts to 70 m.p.h.
	6	...	45	S.	Clouds as at 5 h. ....	5-30 h.—Aner. bar. 26.42. <sup>^</sup> Moderate surface drift. Sunshine. Wind gusty.
	7-30	...	25	S.	.....	Occasional sunshine. Intermittent light surface drift.
	10	...	...	...	Sky overcast with A.-St., stratified near horizon W. through N. to E., with a Cu. roll below. (Cloud 10.)	Sun obscured. Intermittent light surface drift.
	12	...	35	S.	Sky as at 10 h. ....	Sun and drift as at 10 h.
	16-30	22	35	S.	Sky as at 10 h. ....	14-30 h.—Aner. bar. 26.30. Sun obscured. Intermittent light surface drift.
	18	...	...	...	Clouds as at 10 h., except clear patches sky in S.E. (Cloud 9.)	Sun and drift as at 16-30 h.
	20-30	20	25	S.	Sky as at 18 h. ....	Sun obscured.
	16	0-30	17	20	S.S.E.	Sky overcast with A.-St., heavy Cu.-Nb. in N. (Cloud 9.)
3		...	30	S.S.E.	Clouds as at 0-30 h. ....	Sun and snowfall as at 0-30 h. Intermittent light surface drift.
12		28	30	S.S.E.	Patches of Ci.-Cu. in all directions, and Fr.-Cu. round horizon. (Cloud 4.)	3 h. to 12 h.—Conditions continue same. Sunshine. Light surface drift.
15		22	25	S.S.E.	Fr.-Cu. at zenith and N. sky. (Cloud 2.)	13-30 h.—Aner. bar. 26.73. Sunshine. Intermittent light surface drift.
16 h. to 17 h.						High drift in the E. Sun obscured.
18		22	25	S.S.E.	Sky overcast with Nb. (Cloud 10.).....	17 h.—Sun obscured. Drift commenced. Sun obscured by clouds. (Gleaming occasionally since 16 h.) Moderate drift.
17	24	19	40	S.S.E.	Sky overcast with Nb. on S. sky; Cu.-Nb. N. (Cloud 10.)	Sun obscured. Heavy drift.
	1	...	40	S.S.E.	Sky as at 24 h. ....	0-30 h.—Aner. bar. 26.90. Sun and drift as at 24 h. (16th).
	8	...	30	S.S.E.	Sky clearer .....	Sunshine. Heavy surface drift.
	14-30	...	30	S.S.E.	Sky as at 8 h. ....	Sun gleaming till 13 h. Moderate drift.
	17	23	30	S.S.E.	Sky clearing in the S., S.E. and N.E.	14-30 h.—Aner. bar. 26.90. Light drift. (Cloud 9.)



Table XXI:

REGISTER OF SUMMER RECONNAISSANCE PARTY FROM WINTER QUARTERS,  
CAPE DENISON.(November 24th, 1913, to December 13th, 1913.) Recorder: *D. Mawson.*

1913.  
November.
- 24 10-15 p.m.—Camped at 1,500 ft. elevation, 5½ miles S. of W.Q. Temp. 6-5° F. Cloud 1. A.-Cu. and Cu. in northern sky. Wind 25 m.p.h. from south.
- 25 4 a.m.—Overcast. Wind 20 m.p.h.  
10-30 a.m.—Temp. 19° F. Overcast. A.-Cu. and Cu. lower in N. The sky cleared somewhat about noon and thereafter spasmodic sunlight.  
1-30 p.m.—At 9 miles S.S.E. of W.Q. at elevation of 1,800 ft. Temp. 16-5° F. Low drift observed immediately ahead up the ice slopes.  
4-15 p.m.—Sky clearing—much sunlight now.  
7-15 p.m.—Camped 12½ miles S.S.E. of W.Q. at elevation of 2,000 ft. Temp. 13° F. Calm to faint northerly airs, the wind having fallen off rapidly after 4 p.m. Cloud 5. A.-Cu. chiefly in a rough N. to S. arrangement. Masses of Cu. lower to N. and a few patches near zenith travelling rapidly to N.W.
- 26 8-0 a.m.—Temp. 12-7° F. Cloud 9. A.-Cu. chiefly and low Cu. in N. Wind 15 m.p.h. from S.S.E.  
9-0 a.m.—Cloud 10. A.-Cu. and Nb. below moving S.E. to N.W. rapidly. Flakes of snow now begin to fall and continue.  
Noon.—At 19 miles S.S.E. of W.Q., elevation 2,200 ft. Temp. 15° F. Some clear patch of sky showing. Light S.E. breeze.  
7-0 p.m.—Camped 25 miles S.E. of W.Q. at 2,100 ft. elevation. Light airs only since noon. Temp. 10° F. Cloud 10. A.-Cu. and Nb. Nb. passing rapidly S.E. to N.W. Through gaps A.-Cu. can be seen practically stationary. Light airs. Snow commences falling again.  
8-30 p.m.—Temp. 10° F. At 8 p.m. the wind rose to 7 m.p.h. from S.E.
- 27 9 a.m.—Temp. 14° F. Cloud 10, Nb. Snowing fairly heavily in early morning hours. Wind 10 m.p.h. from S.E. by E.  
1 p.m.—At 27 miles S.E. of W.Q. at 2,050 ft. elevation. Temp. 15° F. Cloud 10. Nb. with Cu.-Nb. over sea to N. No snow falling. Light S.S.E. breeze.  
8 p.m.—Camped 35 miles S.E. of W.Q. at elevation 1,500 ft. Temp. 15° F. Cloud 9. A.-Cu. chiefly with Cu.-Nb. in patches over sea. Beginning to clear in S. and E. S.E. breeze during afternoon becoming calm at 7 p.m. No drift.
- 28 9-0 a.m.—Temp. 8° F. Cloud 0. A bar of Cu. low in N. Wind 15 m.p.h. from S.S.E. No drift. There was some drifting snow during the night about midnight.  
1 p.m.—At 41 miles S.E. of W.Q. and 2,200 ft. elevation. Temp. 12° F. Sky clear. Light S. by E. breeze which soon after 1 p.m. rose to 20 m.p.h. and continued with light surface drift for several hours.  
10-30 p.m.—Camped on summit of Mt. Murchison (1,860 ft.). Temp. 5° F. Cloud 0. Sun skimming the plateau horizon.
- 29 1 p.m.—Temp. 13° F. Sky quite clear except a bar of cloud over the sea horizon. Wind 35 m.p.h., most of the early morning hours with drift. Now little wind only and little low surface drift.  
9 p.m.—Temp. 12° F. Sky has been practically clear all day. At 9 p.m. a bar of A.-Cu. appears on S.E. horizon. This cloud rising slowly so that by 10 p.m. Cloud 1. The light S. by E. breeze prevailing at 1 p.m. soon after died down to light airs only, then about 6 p.m. to a calm. Calm continued during the evening. Remained in camp at Mt. Murchison.
- 30 9 a.m.—Temp. 12° F. Cloud 2. A.-Cu. working up from the E. especially over the valley of the Mertz Glacier. Calm, having been almost calm all night and no drift.  
1 p.m.—At 7 miles W.N.W. of Mt. Murchison, and 1,500 ft. elevation. Temp. 17° F., Cloud 5. A.-Cu. covering all eastern sky to just past zenith. Wind 8 m.p.h. from S. by W.  
5 p.m.—About 12 miles W.N.W. of Mt. Murchison and 2,100 ft. elevation. Temp. 13-7° F. Cloud 2. A.-Cu. chiefly, moving rapidly to N.W., also low Cu. on N. horizon and a Ci.-St. bar low in N. trending somewhat S. of W. Wind fell off since lunch and is now calm.  
9-30 p.m.—At 16 miles W.N.W. of Mt. Murchison at 2,100 ft. elevation. Temp. 3° F. Sky clearing; Cloud 1. A patch of A.-Cu. in E.N.E. and low bars to E. Pearly iridescence on the clouds near the sun's position. Wind now 15 m.p.h. has been steadily rising. Very little surface drift.
- December.
- 1 10 a.m.—Temp. 18° F. Cloud 7. An. E. to W. Ci.-St. radiant most dense in N. Low in N. there are lower denser clouds. Wind 20 m.p.h. from S. During the night the wind variable up to 35 m.p.h. with light drift.  
4 p.m.—At 20 miles W.N.W. of Mt. Murchison and 2,200 ft. elevation. Temp. 15° F. Cloud 5. Ci.-St. and Ci.-Cu. in form of radiant crossing the zenith. Several bars of lower cloud directed somewhat to N. of N.W. cross the radiant. Wind 15 miles from S.S.E.  
10-30 p.m.—Camped at 26 miles W. of Mt. Murchison. Temp. 7° F. Cloud 10. Stratus and St.-Nb. densest in N. During the afternoon the Ci.-Cu. and Ci.-St. radiant became under-run by Cu. which came from the N.W. This became heavier and darker. Then a dark sheet of cloud at a little lower elevation came from the north ultimately covering all the sky. Wind, 15 miles from S.S.E.
- 2 Noon.—Temp. 9° F. Cloud 10, St.-Nb. Wind blew 40 m.p.h. most of the night accompanied by light drift. Light to moderate drift.  
9 p.m.—Remained in camp. Temp. 5-9°. Cloud 5. Ci. in E. and W. trending mass. St.-Cu. both in S. and N. A.-Cu. in N.W. Wind 40 m.p.h. all day with low drift. Remained in camp all day.
- 3 Wind and drift continued all night and there was some falling snow.  
8 p.m.—Temp. 8-9° F. Sky clear except for a bar of cloud on N. and W. horizons. Wind 35 m.p.h. and surface drift.
- 4 Remained in camp all day. During the night several lulls appeared for a moment as if about to clear up. Wind then increased. Subsequent to 9 a.m. the sun was blotted out but reappeared late in afternoon.  
8 p.m. Temp. 8°. Cloud 7. Ci.-Cu. and A.-St. general. St.-Cu. low in N. horizon. Wind 40 m.p.h. with low drift.

TABLE XXI—continued.

REGISTER OF SUMMER RECONNAISSANCE PARTY FROM WINTER QUARTERS,  
CAPE DENISON.

December.

- 5 The wind rose and Bar. fell. More drift, falling off in afternoon. Remained in camp all day.  
4 p.m.—Temp. 6-8°. Cloud 4. Long. Ci. tails from N.N.W. passing to rather massive Ci.-Cu. in S.E., also St.-Cu. in the N.W. to E. horizon. Southerly wind all day at 50 m.p.h. Low drift.
- 6 Remained in camp all day. Wind high all night, reaching quite 65 m.p.h. Bar. fell until about midnight, afterwards slowly rising.  
Noon.—Wind 45 m.p.h. Sky obscured, air full of fine snow indicating that snow is falling, not merely drifting.  
6 p.m.—Temp. 14-5° F. Cloud 10. Nimbus. Wind 35 miles.  
9-45 p.m.—Cloud 10. Wind 25 m.p.h.
- 7 Still in same camp all day.  
6 a.m.—Wind has now increased to 40 m.p.h. Drift considerable all night.  
7 a.m.—Wind now 45 m.p.h. Thick drift.  
Noon.—Between 9 a.m. and noon wind averaged 35 m.p.h., at noon it was 40 m.p.h. All day the sky continuously overcast with Nb. and snow falling. Moderate drift.  
9 p.m.—Temp. 11° F. Nb. 10. Snowing. Thick drift. Wind 45 m.p.h. or more. Wind has not dropped below 45 m.p.h. all afternoon. The wind has remained constant in direction, namely almost due S. to N.
- 8 Still in same camp until noon. The wind continued all night but became gusty in the morning. The sun gleamed for a long time during the early morning hours but was obscured at 9 a.m. At 11 a.m. sun again gleamed and shortly after the sky cleared rapidly.  
Noon.—Cloud 1. Ci.-St. in W.N.W. Wind 40 m.p.h. Moderate drift. The sledge journey continued.  
7-15 p.m.—At 34 miles W.N.W. of Mt. Murchison and elevation 2,800 ft. Clouds had quickly formed in the afternoon resulting in a Ci.-St. radiant from a point slightly N. of W. to slightly S. of E. These clouds gradually spread to the south. Some St.-Nb. formed at intervals in the N. and zenith. Wind continued. Drift fell off considerably between 6 p.m. and 7 p.m. subsequently increasing.  
8 p.m.—Temp. 12-5° F.  
9 p.m.—Sky now completely overcast. The wind which has continued fairly constant in force has gradually swung around further to the E. It is now coming from the S. by E. Continued sledging on a N.N.W. course.
- 9 Arrived in camp at Cathedral Grotto about 11 miles S. of W.Q. and elevation of about 1,900 ft. at 1 a.m.  
1-30 a.m.—Temp. 12° F. Cloud 10. Ci.-St. and Nb. Wind 60 m.p.h. S. by E. Considerable drift, the particles now larger, indicate falling snow.  
3 a.m.—Cloud 10. Wind gusty, averaging 60 m.p.h.  
9 a.m.—Wind now slackening but has been blowing up to 70 m.p.h. during early morning hours. Much drift.  
1-30 p.m.—Wind puffy, averages 45 m.p.h. Overcast. Drifting. Midnight temp. 19° F. Cloud 10. Nimbus. Snowing. Wind 50 m.p.h. During the afternoon the wind fell off a little but overcast sky and falling snow continued. Have remained all day in camp at Cathedral Grotto.
- 10 Camped all day at Cathedral Grotto. 10-30 p.m. temp. 21° F. Cloud 10. Nimbus. Snow falling. Dense drift. Wind 40 m.p.h. During the earlier part of the day the wind was continuous at 45 to 50 m.p.h. with thick falling snow and drift. During the early morning hours to-day the wind came from a point somewhat E. of S. by E. Since noon the wind has been from somewhat E. of S.S.E.
- 11 Camped all day at Cathedral Grotto.  
8 a.m.—During the early morning hours the wind fell off to about 30 m.p.h. and came from a point slightly S. of S.E. After 6 a.m. the wind increased blowing distinctly faster at 8 a.m., when it swung back to S. by E. The sky remains overcast with Nimbus with falling and drifting snow.  
6 p.m.—Cloud 10. A.-St. and Cu.-Nb. Clouds now clearing. Wind during all the afternoon blew at 45 m.p.h. Drift fell off so that by 6 p.m. only a little drift.  
10 p.m.—Temp. 19° F. Cloud 10. A.-St. and Nb. Wind 50 m.p.h. and moderate drift. The wind had fallen off to 30 m.p.h. at 8 p.m., subsequently increasing.  
Midnight.—Cloud 10. Wind 50 m.p.h.
- 12 Camped at Cathedral Grotto. At 2 a.m. the wind greatly increased to quite 70 m.p.h. and became very gusty. This wind carried on all the remainder of night, falling off only after 10 a.m. This very strong wind again brought up moderate drift which subsided as the day advanced. At 3 a.m. the sun began to gleam and steadily increased in intensity till fully visible at 10 a.m. Continued march to W.Q. later in the day, arriving at Hut at 2-30 a.m. on December 13th.

Table XXII.

**METEOROLOGICAL REGISTER OF THE FIRST SLEDGING JOURNEY FROM  
"THE GROTTOS," QUEEN MARY LAND.**

(March 13th, 1912, to April 5th, 1912.) Recorder: *M. H. Moyes.*

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
March. 13	13	28.95	23	5	S.W.	Sledged 7½ miles E.S.E. from Winter Quarters over almost level to slightly rising surface. Scattered Cu. and St. The "Grottoes" Hut stands 100 feet above sea-level.
	16	28.85	12	5	S.W.	
14	6	28.80	2	2	S.W.	Ci. and St., and also Ci.-Cu. formation early in day and spreading from N. to S. in Noah's Ark formation. Min. -4° F. Sledged 13 miles to south over undulating shelf-ice, in part aground.
	9	28.82	10	5	S.W.	
	12	28.85	22	5	S.W.	
	15	28.87	16	5	S.W.	
	18	28.89	3	5	S.W.	
15	6	28.99	-14	1	S.W.	Clear except for a little Ci.-Cu. and St. Min. -16° F. Sledging south. During afternoon commenced definite slow ascent of ice-covered land at 25 miles from Hut. Evening camp 250 feet above sea-level.
	9	28.97	-2	1	S.W.	
	12	29.05	20	0	C.	
	15	29.18	14	1	S.W.	
	18	28.87	3	2	S.W.	
16	6	28.98	-3	5	S.W.	Scattered Ci. all day. The blizzard on this day was in full force with a clear blue sky, differing from those experienced on the Shackleton Shelf Ice. Min. -7° F. Snowed up in camp all day.
	9	28.92	14	35	S.W.	
	12	28.91	12	28	S.W.	
	15	28.91	7	28	S.W.	
	18	28.92	4	28	S.W.	
17	6	28.84	2	28	S.W.	Scattered Ci. at first, but clear during day. Ci.-St. appeared in evening. Started climbing up land slopes at 2 p.m. Min. -1° F. Sledged south reaching 750 feet above sea-level in evening.
	9	28.82	10	28	S.W.	
	12	28.82	14	21	S.W.	
	15	28.82	14	15	S.W.	
	18	28.22	4	10	S.W.	
18	6	28.24	2	28	S.25°W.	Ci. clouds in morning disappeared later, giving place to St. Min. -3° F. Sledging south up land slopes. Evening camp about 1,350 feet above sea-level.
	9	28.24	10	15	S.25°W.	
	12	27.94	12	10	S.25°W.	
	15	27.86	9	10	S.25°W.	
	18	27.66	4	5	S.25°W.	
19	6	27.57	2	2	S.25°W.	Continuing south. Evening camp about 1,650 feet above sea-level. Heavy Cu. before noon, giving way to St. and Ci. later. Min. -11° F.
	9	27.44	4	2	S.25°W.	
	12	27.46	9	10	S.25°W.	
	15	27.42	14	2	S.25°W.	
	18	27.27	4	10	S.25°W.	
20	6	27.36	-6	5	S.-S.W.	Sledged 9 miles south to elevation of 2,100 feet. Some Cu. early in north spread across to south remaining heavy through day. Parhelion visible. Max. -3° F. Min. -14° F.
	9	27.34	-5	5	S.-S.W.	
	12	27.16	-4	5	S.-S.W.	
	15	27.06	-5	5	S.-S.W.	
	18	27.96	-7	5	S.-S.W.	
21	6	27.06	-9	10	S.W.	Continued to the south, arriving at an elevation of 2,300 feet in the evening, some 50 miles south of W.Q. Ci.-St. changing to Ci. Very cloudy in evening with Ci., Ci.-Cu. and St. Parhelion. Min. -13° F.
	9	27.06	0	15	S.W.	
	12	26.94	7	10	S.W.	
	15	26.86	19	2	S.W.	
	18	27.80	2	10	S.W.	
22	6	26.83	3	10	N.E.	Snow-bound in camp. Thick falling snow throughout. It will be noticed that the snow storms are accompanied by North-east winds. Min. -7° F.
	9	26.82	12.5	15	N.E.	
	12	26.91	17	5	N.E.	
	15	26.92	16.5	2	N.E.	
	18	26.95	7	2	N.E.	
23	6	26.84	4	28	S.E.	Heavy blizzard blowing all day. Min. -8° F. Snow-bound in camp.
	9	26.75	5.5	42	S.E.	
	12	26.66	5	55	S.E.	
	15	26.44	5	59	S.E.	
	18	26.37	7	59	S.E.	

Table XXII—continued.

METEOROLOGICAL REGISTER OF THE FIRST SLEDGING JOURNEY FROM  
"THE GROTTOS," QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles hour.	Direction.	
March. 24	6	26-17	8	59	S.E.	Blizzard ceased with change of wind direction about midday and snow fell with North-east wind. Min. 2° F. Snow-bound in camp.
	9	26-30	18	35	S.E. by E.	
	12	26-65	29	35	N.E.	
	15	26-71	14	10	N.E.	
	18	26-83	.6	5	N.E.	
25	6	27-05	2	2	S.E.	Heavy blizzard followed after snowstorm. Min. -5° F. Snow bound in camp.
	9	26-92	9	21	S.E.	
	12	26-91	9	21	S.E.	
	15	26-83	7	42	S.E.	
26	18	26-80	2	59	S.E.	Drift blowing. Min. -2° F. Snow-bound in camp.
	6	26-50	3	15	S.E.	
	9	26-37	4	10	S.E.	
	12	26-44	4	15	S.E.	
27	15	26-33	7	21	S.E.	Snow falling heavily. Snow was 3 feet deeper than when in thi position six days previously. Min. 2° F. Snow-bound in camp.
	18	26-38	2	28	S.E.	
	6	26-58	13	5	N.E.	
	9	26-50	21	5	N.E.	
	12	26-51	23-5	5	N.E.	
28	15	26-55	23	5	N.E.	Drift cleared away about midday and showed sky covered with Min. 0° F. Still camped in same spot.
	18	26-65	25	2	N.E.	
	6	26-71	6	15	S.E.	
	9	26-80	10	10	S.E.	
	12	26-81	7	5	S.E.	
29	15	26-81	5	10	S.E.	Cloudy with Ci. and Ci.-Cu. Slight drift all day. Min. -20° Depoting provisions and arranging for return journey.
	18	26-81	3	15	S.E.	
	6	26-81	-18	15	S.E.	
	9	26-80	-15	15	S.E.	
	12	26-81	2	15	S.E.	
30	15	26-79	0	15	S.E.	Heavy Cu. most of day with Ci. at times. Min. -7° F. Commenced return journey to W.Q. at noon.
	18	26-79	-4	15	S.E.	
	6	26-80	5	10	S.E.	
	9	26-80	5	10	S.E.	
	12	26-75	3	5	S.E.	
31	15	26-78	3	2	S.E.	Cloudy with Cu. and Ci. Parhelion. Min. -12° F. Held up in camp at about 2,100 feet above sea-level.
	18	26-76	0	5	S.E.	
	6	26-75	-8	15	S.E.	
	9	26-71	-2	15	S.E.	
	12	26-69	0	15	S.E.	
April. 1	15	26-68	0	5	S.E.	Drift all day. Wind changed from S.E. to E. and back to E. about 16-30 h. Min. -4° F. Held up in camp.
	18	26-65	2	15	S.E.	
	6	26-56	7	21	S.E.	
	9	26-56	10	21	E.	
	12	26-58	11	13	E.	
2	15	26-65	13	10	E.	Cu. and St. in the morning, but later Ci.-Cu. and Ci. Parhelion. Descended to about 1,400 feet above sea-level.
	18	26-75	11	10	S.E.	
	6	26-82	2	10	S.E.	
	9	26-94	5	10	S.E.	
	12	27-24	8	10	S.E.	
3	15	27-49	8	2	S.E.	Cu. all day. Sledged down to the lower foothills, camping at an elevation of about 400 feet above sea-level.
	18	27-55	6	6	S.E.	
	6	27-51	-5	3	S.E.	
	9	27-82	-2	3	S.E.	
	12	28-15	6	2	S.E.	
4	15	28-77	6	2	S.E.	Ci. clouds. Parhelion. Sledging north over the shelf-ice.
	18	29-06	5	2	S.E.	
	...	...	...	7	E.	
5	...	...	...	58	E.	Blizzard-bound in camp within 2 miles of W.Q.

Table XXIII.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.(October 30th, 1912, to January 5th, 1913.) Recorder: *F. Wild.*

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.	
				Miles per hour.	Direction.			
October. 30	12	28.62	16.5	2-5	E.S.E.	Ci.-St. 1	Sastrugi var. E.-S.S.E., generally hard, frequent soft patches.	
	15	28.61	21	Calm.	...	Ci.-St. 1	.....	
	18	28.61	5	0-2	W.	Nil.	Bank of Cu. appearing on northern horizon.	
31	6	28.72	-1	0-2	S.	Nil.	.....	
	9	28.71	11	Calm.	...	Nil.	Mirage.	
	12	28.69	18.3	0-2	N.W.	Nil.	Mirage—Summits of mountains.	
	15	28.72	12.5	2-5	W.N.W.	Nil.	.....	
	18	28.76	-2	2	W.N.W.	Nil.	Drift on land from south-east.	
November	1	6	28.79	-13.5	Calm.	...	Ci.-St. 10.	Halo. Mirage.
		9	28.75	9	2-5	E.S.E.	Ci.-St. 10.	Halo. Mirage.
	12	28.75	15	10	E.S.E.	Ci.-St. 10.	Halo. Sastrugi, various from S.E. to E.N.E., but chiefly E.S.E.	
	15	28.68	13.8	10	E.S.E.	Ci.-St. 10.	Halo. Sastrugi, various form, S.E. to E.N.E., but chiefly E.S.E.	
	18	28.67	8.5	2	E.S.E.	St. 8.	Sun just visible; no halo.	
	2	6	28.89	20	Calm.	...	Cu.-St. 10.	.....
		9	28.89	25.5	2	W.	Cu.-St. 10.	Sastrugi trending S.E.
		12	28.91	26	2	W.S.W.	St. 10.	Few snow flakes fell about 11 a.m.
		15	28.93	24.5	2	S.E.	Cu. 9.	.....
		18	29.03	16.5	2-5	E.N.E.	Nb. 10.	Falling snow.
	3	6	29.1	18	15	E.S.E.	St. 10.	Drift on surface.
		9	29.09	21.8	10	S.E. by E.	St. 10	Halo, sun showing through stratus.
		12	29.05	26	2	E.S.E.	St. 10.	Halo, sun showing through stratus.
		15	29.06	20	21-27	S.E.	Ci.-St. 8.	Thick low drift.
		18	29.02	19	7	S.E.	St. 10.	Thick low drift. Camped after 3 p.m.
	4	6	28.90	15.5	27-35	S.E.	St. 10.	Drift.
		9	28.91	21.5	21-42	S.E.	Nb. 10.	Heavy falling snow and drift.
		12	28.92	18.5	35-50	S.E.	Nb. 10.	Heavy falling snow and drift
13		28.92	19.5	35-42	S.E.	Nb.	Heavy falling snow and drift	
18		28.99	18	42-59	S.E. by E.	Nb. 10.	Heavy falling snow and drift } Blizzard all day. Remained in camp.	
5	6	29.30	15	5	E.S.E.	St. 10.	.....	
	9	29.33	23.3	5	E.S.E.	Cu.-St. 10.	Bad light.	
	12	29.41	25.2	21	E.N.E.	Cu.-St. 8.	Low drift.	
	15	29.48	23.8	10	E.N.E.	St. 10.	Surface drift.	
	18	29.53	18.4	Calm.	...	St. 10.	.....	
6	6	29.43	18.2	15	E.N.E.	Cu. 10.	Surface drift.	
	9	29.41	22	10	E.	Cu. 10.	Clouds moving rapidly to E.S.E.	
	12	29.29	22	10	E.	Cu. 10.	Surface drift.	
	15	29.24	20	15	S.E. by E.	Cu. 9.	Clouds moving slowly to S.W.	
	18	29.11	11	0-2	E.	Cu. 5.	.....	
7	6	29.04	15.5	2-27	E.S.E.	Ci.-Cu. 1.	Very gusty through being partly under lee of Nunatak 410 feet high.	
	18	29.19	18	Calm.	...	Ci.-St. thin, Noah's Ark.	Halo and parhelion. Land $\frac{1}{2}$ mile distant.	
8	9	29.43	12	5-50	S.E.	Ci.-St. 1.	Heavy gusts off land since midnight.	
	12	29.47	11.5	35	S.E.	Nil.	Wind now steady. Thick drift; bright sunshine.	
	18	29.49	13.5	42	S.E.	Nil.	Heavy drift. Remained in camp all day.	
9	9	29.50	13.4	42	S.E.	Ci.-St. 6.	Heavy drift. Halo.	
	18	29.43	15	42	S.E.	Ci.-St. 2.	Heavy drift. Remained in camp all day.	

TABLE XXIII—continued.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.
				Miles per hour.	Direction.		
November 10	6	29.29	14	42	S.E.	.....	Wind ceased about noon, and has been very squally since.
	18	29.24	15.5	10-35	S.E.	Ci. 1.	.....
11	9	29.14	11.5	35	S.E.	Nil.	Heavy drift.
	18	29.12	17.2	21	S.E.	Ci.-St. and Ci. 5.	Low drift. Heavy bank of Cu. over eastern horizon. Wind dropped calm for few minutes at 13h. and for half an hour after blew sharp gusts from every direction, then settled S.E. again.
12	6	29.17	20	21	S.E.	Nb. 10.	Falling snow and drift.
	12	29.22	34	10	S.E.	Ci. 1.	Cleared suddenly at 11h.
	15	29.26	33.8	10	S.E.	Ci. 1, Cu. 2.	.....
	18	29.26	29	0-2	S.E.	St. 10.	Clouds came up from E.N.E.
13	6	29.22	22	21	S.E.	Ci.-St. 3.	Drift.
	12	29.23	24.5	35	S.E.	Ci.-St. 2.	Thick low drift.
	18	29.24	25.5	21	S.E.	Cu. 8, Ci.-St. 1.	.....
14	6	29.25	27.5	21	S.E.	St. 10.	.....
	9	29.24	28.5	15	S.E. by E.	St. 10.	.....
	12	29.19	29	27	E.	Nb. 10.	Heavy falling snow.
	15	29.22	29.2	21	E.	Nb. 10.	Heavy falling snow.
	18	29.20	30	10-21	E.	Nb. 10.	Heavy falling snow. Snow melting rapidly on all clothing and gear.
15	6	29.14	27	10	E.S.E.	Nb. 10.	Light falling snow.
	9	29.12	29	2	S.E. by E.	St. 10.	.....
	12	28.95	31	Calm.	...	Cu.-St. 10.	31° is temp. by swing therm. (Therm. on sledge in shade reads 52°.)
	15	28.83	26.8	Calm.	...	Cu.-St. 10.	.....
	18	28.78	20.5	0-2	S.E.	Cu. 8, Ci.-St. 1.	Parhelion.
16	6	28.73	14	15	S.E.	Ci. 1.	Opalescent clouds round sun. Sastrugi S.E.
	9	28.68	19.5	15	S.E. by E.	Nil.	Ci. just above horizon all round.
	12	28.57	25.2	5	S.E.	Nil.	Ci. just above horizon, W.
	15	28.60	25	2	W.	Nil.	.....
	18	28.56	19.2	2	W.	Nil.	At 8-30 temp. 7° and much mirage. Wind 10h. S.E.
17	6	28.65	11.2	10	S.S.E.	Nil.	Low drift. Sastrugi S.S.E.
	9	28.67	16	15	S. by E.	Nil.	Low drift.
	12	28.62	22.22	Calm.	...	Nil.	.....
	15	28.70	22	0-2	N.E.	Nil.	Altering height constantly from 50 to 100 feet.
	18	28.72	14	0-2	W.N.W.	Nil.	.....
18	6	28.91	8	5	S.	Ci. 2.	.....
	9	28.86	13.4	10	S. by E.	Nil.	Ci.-St. low on horizon.
	12	28.85	20.5	5	S.	Cu. 1.	Heavy bank of Cu. rising N.E. to N.W.
	15	28.93	20.8	2	S.E.	Ci.-St. 1, Cu. 4.	Cu. moving W.; Ci. slowly S.E.
	18	28.88	18.5	0-2	N.E.	Cu. 10.	Clouds moving to W.
19	6	29.07	11	15	S.S.E.	St. 10.	.....
	18	29.08	17	2	S.S.E.	Cu. 8.	.....
20	6	29.18	22	10	E.N.E.	Nb. 10.	Falling snow and low drift.
	12	29.22	26.8	15	E.N.E.	Nb. 10.	Falling snow and low drift.
	18	29.24	22.2	21	E.N.E.	Nb. 10.	Falling snow and low drift.
21	6	29.14	26	27	E.	Nb. 10.	Falling snow; thick drift.
	12	29.13	26	35-42	E.	Nb. 10.	Falling snow; thick drift.
	15	29.07	28	27-42	E.	Nb. 10.	Falling snow; thick drift.
	18	29.00	26.3	35-59	E. by S.	Nb. 10.	Falling snow and heavy drift.
22	12	28.95	27	50-75	E.	.....	Wind increased to hurricane force at 21 h. last night and has continued so all night, and now is becoming gusty.
	18	29.07	25.6	42-59	E.	Nb. 10.	Falling snow and very thick drift.

Table XXIII—continued.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.
				Miles per hour.	Direction.		
November							
23	9	29.37	26.9	27	E.	St. 10.	Low drift.
24	6	29.29	26.5	10	E.	Cu. 7.	Moving S.E.
	9	29.32	28.6	5	S.S.E.	Ci.-Cu. 1.	Have descended about 40 feet since 6 h.
	12	29.32	31.5	Calm.	...	Cu.-St. 8.	.....
	15	29.33	31.5	0-2	N.	Cu. 8.	.....
	18	29.36	27	2	S.	Cu. 10.	10 feet above sea-level.
25	6	29.44	26	2	E.	Cu. 9.	10 feet above sea-level.
	9	29.49	28.5	5	E.S.E.	Ci.-Cu. 5; Ci. 1; Ci.-St. 1.	10 feet above sea-level.
	12	29.35	32	15	E.	Cu. 8, Ci.-St. 1.	Opalescent clouds round sun. Now 50 feet above sea-level.
	15	29.40	33.5	0-2	E.	Ci.-St. 1.	.....
	18	29.42	28.2	Calm.	...	Cu. 2; Ci.-St. 1.	10 feet above sea-level.
26	6	29.52	27.3	2-5	E.S.E.	Ci.-St. 1.	.....
	9	29.48	28.5	10	E. by S.	Ci.-Cu. 1.	.....
	12	29.44	31.2	0-2	W.	Ci.-St. 6.	About 20 feet above sea-level. Halo.
	15	29.31	29.2	5	E.S.E.	Ci.-St. 2.	Ascended about 130 feet since 12 h.
	18	29.40	26.6	0-2	S.E.	Ci.-St. 1; Cu. 7.	Moving West.
27	6	29.47	20.2	5	S.E.	Cu. 1.	Moving N.W.
	9	29.34	27.6	5	S.E.	Nil.	.....
	15	29.19	32.2	2	S.E.	Nil.	.....
	18	29.12	26.4	10	S.E.	Ci.-St. 2.	.....
28	6	28.94	28.8	5	S.E.	St. 10.	Snow fell from 7 h. to 10 h.
	12	28.97	42.1	Calm.	...	St. 10.	Swing thermometer in tent, 68.5° F.
	18	29.02	36.5	Calm.	...	St. 10.	.....
29	6	29.06	28.7	0-2	Var.	Nb. 10.	Light snowfall.
	12	29.13	32.1	2-10	N.E.	Nb. 10.	Light snowfall.
	18	29.17	33	10	E.N.E.	Nb. 10.	Heavy snowfall.
30	12	29.24	32.2	5-10	E.	Nb. 10.	Snow falling at intervals all night and morning.
	18	29.22	33.5	5-10	E.	Nb. 10.	Falling snow.
December.							
1	9	29.22	32	5	E.S.E.	St. 10.	.....
	12	29.22	35.7	2	E.S.E.	St. 10.	.....
	18	29.27	33.2	5	E.	Nb. 10.	Falling snow.
2	6	29.46	31.6	5	E.	Nb. 10.	Heavy snow.
	12	29.47	34.8	10	E.N.E.	Nb. 10.	Snow.
	18	29.54	29.3	Calm.	...	St. 10.	18 inches of snow fallen since 27th.
3	6	29.52	20.5	5	E.S.E.	Cu. 9.	Moving south.
	9	29.45	30.3	10	S.S.E.	Ci.-Cu. 6.	.....
	12	29.48	32.2	5	S.S.E.	Ci.-Cu. 5.	.....
	15	29.42	34.7	5	E.N.E.	Cu.-St. 10.	.....
	18	29.47	35.2	Calm.	...	Cu. 5.	Moving south.
4	6	29.35	21.9	10-15	S.S.E.	Cu. 4.	Moving S.E.
	12	29.28	31.1	10	E.S.E.	Cu. 10.	.....
5	...	...	...	...	...	.....	No records. A mild blizzard blowing.
6	12	29.54	35.2	10	E.	Cu. 10.	.....
	18	29.52	33.4	5	E.	Cu. 7.	.....
	6	29.44	21.8	Calm.	...	Nil.	.....
	9	29.40	30.6	0-2	E.	Nil.	.....

Table XXIII—continued.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.
				Miles per hour.	Direction.		
December. 7	12	29.33	30.2	5	E.	Cu. 1.	
	15	29.26	33.5	Calm.	....	Ci.-Cu. 2.	Noah's Ark from north to zenith.
8	Midnight	29.35	17.5	2	E.	Ci.-Cu. 1.	
	3	29.40	16.4	2	S.E.	Ci.-St. 1.	
	6	29.38	21.2	10	E.S.E.	Ci.-St. 1.	
	9	29.45	29.1	10	E.S.E.	Ci.-St. 1.	
9	8	29.41	28.4	5	E.S.E.	Nb. 10.	Falling snow.
	15	29.32	31.8	15	S.E.	Nb. 10.	Falling snow.
10	9	29.31	31.2	5	E.S.E.	Cu. 8.	
	12	29.26	30.5	5	E.S.E.	Cu. 6; Ci.-St. 1.	
	15	29.28	32.8	21	E.S.E.	Cu. 10.	Low drift.
11	9	29.27	30.3	5	S.E.	St. 10.	
	21	29.05	19.6	2	S.	Cu. 5.	
12	Midnight	29.12	21.4	10	S.	Cu. 2.	
	3	29.06	19.8	10	S.	Cu. 10.	Risen probably 60 feet since midnight.
	6	28.98	21.5	10	S.	Nil.	
	18	28.87	28.8	5	W.N.W.	Nil.	
	21	28.80	23.2	10	W. by N.	Nil.	
13	Midnight	28.90	12	5	S.W.	Ci.-Cu. 1.	Heavy bank of Cu. low N.E.-S.
	3	28.94	10.2	5	S.	St.-Cu. 1.	
	6	28.73	12.8	Calm.	....	Cu. 2.	
	18	28.78	27.8	2	S.E.	Nil.	
21	28.87	22.8	Calm.	....	Nil.	Bank of Cu. showing above horizon all round.	
	Midnight	28.82	19.7	Calm.	....	St. 10.	
14	3	28.22	20.8	5	S.E.	St. 10.	Ascended about 600 feet.
	6	28.02	22.5	5	S.E.	St. 10.	Ascended about 200 feet.
	21	27.93	17.3	2	S.E.	Cu. 1.	Moving west.
15	Midnight	27.63	19.1	2	S.E.	St. 10.	Fog from 22:30 h. to 23:30 h.
	3	27.07	14	15	S. by E.	Cu. 8.	Low drift.
	6	26.85	20.3	10	S. by E.	St. 10.	Surface drift.
	9	26.67	22	10	S.	St. 10.	Surface drift.
	21	26.64	13	2	S.	St. 10.	
16	3	26.64	4.1	2	S.	Ci.-Cu. 1.	
	6	26.65	10.2	10	S.	Ci.-Cu. 4.	
	9	26.42	26.1	10	S.E. by S.	Nb. 10.	Falling snow; surface drift.
	21	26.32	4.8	2	S.E.	St. 2.	
17	12	26.34	21.3	10	S.E.	Nb. 10.	Falling snow.
	15	26.38	20.4	2	S.E.	St. 10.	
	18	26.07	12.7	0-2	S.	Cu. 9.	
18	6	26.08	14.9	10	S.E.	St. 10.	
	9	26	20.5	5	S.S.E.	St. 10.	
	12	25.82	16.8	2	E.S.E.	St. 10.	A few snow flakes about 11.
	15	25.77	19.5	5	S.E.	St. 10.	
	18	25.73	13.2	5	S.E.	Nb. 10.	Falling snow.
19	6	25.77	13	10	S.E.	Nb. 8.	Falling snow.
	9	25.76	18.5	5	S.E.	Cu. 7, Nb. 2.	
	12	25.67	14.8	10	S.S.E.	Cu. 6.	Two spots on sun just left of centre.
	15	25.68	13	2	S.S.E.	Cu. 2.	Moving west.
	18	25.73	9.5	2	S. by W.	.....	
20	6	25.88	8	21	S.	St. 10.	Low drift.
	9	25.83	13.1	21	S.	Cu.-St. 8.	Low drift.
	18	25.82	13.8	10	S.	Cu. 5.	



Table XXIII—continued.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.
				Miles per hour.	Direction.		
December. 21	9	25.84	14.2	10	S.	St. 10.	.....
	12	25.79	17	5	S.S.E.	Cu. 8.	Moving N.W.
	18	25.74	12.5	21	S.S.W.	Cu. 1.	Low drift.
22	6	25.60	8.7	21	S.	.....	Drift.
	15	25.52	12.5	21	S.S.E.	Ci.-St. 2.	Drift.
	18	25.56	13.4	5	S.S.E.	Noah's Ark Ci.-St.	Parhelion and two mock suns.
23	9	25.68	14.2	15	S.S.E.	Nb. 10.	Falling snow and low drift.
	12	25.69	17.7	5	S.S.E.	St. 10.	.....
	15	25.66	23.8	5	S.E.	Nb. 10.	Snow falling.
	18	25.80	19.7	Calm.	...	Nb. 10.	Snow falling.
24	9	25.78	21.7	2	E.	Ci. 2, Cu. 3.	.....
	15	25.86	20.3	2	N.E.	Ci. 2, St. 5.	Ice crystals falling all the morning.
	18	26.25	23.4	2	E.N.E.	Ci.-St. 3, St. 2.	.....
25	6	26.39	21.3	15	E. by S.	Cu. 8.	Moving N.W.
	9	26.58	20.5	10	E.S.E.	Cu. 8.	Moving N.W.
	12	27.39	23.8	0-2	N.E.	Cu. 9.	Moving N.W.
	15	27.83	30.8	2	N.N.W.	Cu. 7.	Moving N.W.
	18	28.68	30	...	...	Cu. 3.	Temp. on sledge 78° F.
26	6	28.61	30.6	10	S.E.	Cu. 9.	.....
	9	28.62	30.5	15	E. by S.	Ci. 1, Cu. 1.	Cu. moving rapidly N.W. Ci. moving S.E.; Noah's Ark from E. to W. and moving south.
	12	28.50	32.8	10	E.S.E.	Ci.-St. 4, Cu. 2.	Very fine corona at 11 h. and opalescent colouring several times during morning. Cu. moving N.W.
27	Midnight	28.49	28.7	35	S.S.E.	Ci. 2.	.....
	3	28.48	26.5	27	S.S.E.	Ci. 1.	.....
	6	28.54	23.6	21-35	S.S.E.	Ci. 1.	Drift.
	9	28.53	24.1	21	S. by E.	Nil.	.....
	12	28.60	31.4	10	S. by E.	Nil.	.....
28	Midnight	28.61	23.2	5	S.S.E.	Nil.	.....
	3	28.62	21.5	10	S.	Ci.-St. 2.	.....
	6	28.92	22.3	10-21	S.E. by S.	Nil.	.....
	12	28.97	28.5	10	S.E.	Nil.	.....
29	Midnight	28.99	25.8	10	S.E.	Cu. 10.	.....
	3	28.98	25	5	E.S.E.	Cu. 4, Ci.-St. 4.	Halo.
	6	28.90	25.2	15	E.S.E.	Cu. 2, Fr.-St. 3, Ci.-St. 3.	Parhelion. St. moving rapidly to S.W.; Cu. slowly to north.
30	9	28.81	30.5	Calm.	...	Ci. 1.	.....
	12	28.93	29.7	5	N.W.	Nil.	.....
30	Midnight	28.98	23.8	5	S.E.	St. 2, Cu. 7.	.....
	3	28.96	24.2	5	S.E.	Cu. 9.	.....
	6	29.03	26.4	21	S.S.E.	St. 10.	.....
	9	28.97	27.2	15	S.E. by S.	Cu. 8.	Moving S.W.
31 1913.	...	...	...	...	.....	Wind 42 to 50 miles an hour all day.	
January. 1.	15	28.91	28.8	27	S.E.	Nb. 10.	Falling snow and drift.
	18	28.95	30.7	15	S.E. by S.	Cu. 9.	Drift on ice cap.
2.	3	29.15	21.5	5-10	S.S.E.	Nil.	.....
	6	29.23	19.1	5	E.	Nil.	Low drift on ice cap.
	9	29.08	23.5	Calm.	...	Nil.	.....
	12	29.21	30.5	Calm.	...	Cu. 6.	Moving N.E.
	15	29.22	33.4	10-21	W.N.W.	Nil.	.....

Table XXIII—continued.

REGISTER OF THE EASTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (Deg. Fah.).	Wind.		Cloud.	General.
				Miles per hour.	Direction.		
January. 3	3	29.33	14.3	10	S.E.	Ci.-St. 1.	Drift on ice cap.
	6	29.25	17.6	0-2	W.N.W.	Cu. 7.	Heavy bank of Cu. with straight edge extending N.E.-S.W. Came up rapidly from W.N.W.
	9	29.20	20.5	2-5	W.N.W.	Ci. 7, Cu. 1.	.....
4	12	29.13	26.2	2	W.N.W.	Nil.	.....
	3	29.07	19.8	27-42	S.E.	Nil.	.....
	6	29.04	22.1	35	S.E. by S.	Ci.-St. 1.	Drift.
	9	28.98	28.6	35-42	S.E. by S.	Ci.-St. 2.	.....
	12	28.88	32.3	35	S.E. by E.	Ci.-St. 8.	.....
	15	28.91	32.4	35	S.E.	Ci.-St. 6, Nb. 2.	Parhelion.
5	18	28.97	32.2	21	E.S.E.	Ci.-St. 9.	Parhelion.
	3	29.00	27.6	15	E.S.E.	Ci.-St. 5.	.....
	6	28.99	28.7	15	E.S.E.	Ci.-St. 8.	.....
	9	29.05	31.5	21	E.S.E.	Ci.-St. 5.	.....
	12	28.97	31.5	10	E.S.E.	Ci.-St. 4.	.....
	15	28.92	31.8	27	E.S.E.	Ci.-St. 6.	Noah's Ark W.N.W.-E.S.E.

Table XXIV.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.(November 7th, 1912, to January 21st, 1913.) Recorder: *S. E. Jones.*

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
November. 7	12	29.07	17.4	5	E. by S.	Ci.-St. 10. Halo. Noah's Ark N.W. by W.
	15	29.11	19	2	E.S.E.	Ci.-St. 10.
	18	29.23	12	1	E.S.E.	St. 1, N.E. horizon.
	21	29.29	11	Calm.	...	Cloudless.
8	6	29.46	6	2	E.S.E.	St. 1 on horizon.
	9	29.49	12	5	E.S.E.	Ci.-St. 1, A.-St. 2.
	12	29.46	18	2	E.S.E.	St. 2. Halo.
	15	29.46	18.5	1	E.S.E.	Ci.-Neb. 10. Halo.*
	18	29.26	11	5	E.S.E.	Ci.-St. 8. Halo. Parhelion. Slight drift. Ascending slightly since 15 h.
9	6	29.34	18	15	E.S.E.	Moderate drift.
	9	29.29	15	21	E.S.E.	Ci.-Neb. 10. Halo. Moderate drift.
	12	29.26	17	21	E.S.E.	Ci.-Neb. 8, St. 1 N.E., Ci.-Cu. 1 zenith. Halo. Moderate drift.
	15	29.32	19.5	21	E.S.E.	Ci.-Neb. 8, St. 2 N. and N.E. Halo. Drift.
	18	29.14	19	15	E.S.E.	Ci.-Neb. 8, St. 2 N. and N.E. Halo. Drift. Ascending till noon after which confined to tent.
10	6	29.14	11	21	E.S.E.	St. 2.
	9	29.06	12	5	E.S.E.	Ci. 3.
	12	28.78	20.5	4	E.S.E.	Ci.-St. 4. Halo.
	15	28.41	19	5	E.S.E.	Ci.-St. 7. Halo and Noah's Ark N.W.-S.E.
	18	28.32	13	2	E.S.E.	Ci.-St. 6. Halo and Noah's Ark N.N.W.-S.S.E. Ascending during to-day's march.
11	6	28.38	8	2-10	E.S.E.	Ci.-Cu. 4, zenith.
	9	28.13	11	2-5	E.S.E.	Ci.-St. 8.
	12	28.02	12	2	E.S.E.	Ci. 3, horizon.
	15	27.89	20	2	E.S.E.	Ci. 6, general.
	18	27.88	13.7	5	E.S.E.	Ci.-St. 3, horizon. Ascending during to-day's march.
12	6	27.94	12	15-21	E.S.E.	Considerable drift.
	9	28.01	20.3	5	E.S.E.	St. 1, N.E.-S.E. horizon. Ci.-St. 1, N.W.-S.W. 22° elevation.
	12	28.04	23	2	E.	Ci.-Neb. 11. Appeared as Ci.-Cu. in E. and N., gradually extending to the zenith.
	15	27.95	26.5	5	E. by S.	Ci.-Neb. 11. Sun obscured.
	18	27.91	26.3	Calm.	...	Ci.-Cu. 10. Break to east.
13	6	27.84	19.9	5-10	E.S.E.	2 St. E. and W. horizons.
	9	27.78	23	10-15	E.S.E.	Ci. 3. Ci.-St. 1.
	12	27.73	26	2-5	E.	Ci. 1, S.W.-zenith. Ci.-St. 1, on western horizon.
	15	27.64	26	2-5	E.	Ci.-St. 4. Ci. 2, moving W. to E. Halo. Ci.-Cu. 3.
	18	27.63	23	27-35	E.S.E.	The wind started very suddenly at 16 h. veering from E. to E.S.E. Heavy drift. Ascending during to-day's march.
14	6	27.63	23 in tent.	27	E.S.E.	Sun obscured. Snowing.†
	9	27.63	26 "	21-27	E.S.E.	Sun obscured. Snowing.
	12	27.67	23.1 "	15-21	E. by S.	Sun obscured. Snowing.
	15	27.59	25.8 "	21-27	E. by S.	Sun obscured. Snowing.
	18	27.58	22.4 "	27	E. by S.	Sun obscured. Snowing. Confined to tent all day.
15	6	27.54	18.5 "	15	E.S.E.	Sun obscured. Snowing.
	9	27.58	18.4 "	10	E.S.E.	Sun obscured. Snowing.
	12	27.58	19 "	5	E.S.E.	Sun obscured. Snowing.
	15	27.61	21.3 "	2-5	E.S.E.	Sun obscured. Snowing.
	18	27.57	22.5 "	2	E.S.E.	St. 2. Nebular haze 8. Confined to tent all day.

\* Ci.-Neb. has reference to cirrus haze.

† The temperatures recorded by Dr. Jones in this table are normal shade temperatures except where it is indicated that they refer to the temperature inside the tent. It appears that, when snowbound, they did not go outside the tent to determine the true shade temperature. D.M.

TABLE XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
November. 16.	6	27.43	16.5 in tent	5-10	E.S.E.	Sun obscured.
	9	27.46	15.4 "	5-10	E.S.E.	Sun obscured.
	12	27.43	20.5 "	2	E.S.E.	Ci.-Cu. 3.
	15	27.52	23.6 "	2	W.	Ci. 1, W.-N.W. St. 1, S.
	18	27.50	15 "	2	E.S.E.	Ci. 1. A.-St. 2.
	21	27.49	12.3	2-5	E.S.E.	..... Descending during morning hours.
17	6	27.54	11	10-15	E.S.E.	.....
	9	27.54	13	15	E.S.E.	A.-St. 2. Ci. 1.
	12	27.61	15.1	2	E.S.E.	Ci.-St. 2, W. Ci. 3 in western two quadrants.
	15	27.46	16.9	5-10	E.S.E.	Ci.-St. 5.
	18	27.32	14.5	10-15	E.S.E.	Ci. 2, zenith-S.W.
	21	27.30	10	5	E.S.E.	Ci. 2, zenith. Ascending during march to-day.
18	6	27.38	8	5-10	E.S.E.	A.-St. 2, N. and S.
	9	27.37	12.5	5	E.S.E.	Ci. 1, E. A.-St. 1, N.W. Ci.-St. 2, N.W.
	12	27.37	15	5	E.S.E.	Ci. 4, general. Ci.-Cu. 1, W. horizon.
	15	27.29	12.2	1	E.S.E.	Cu. 1, W. horizon. Ci. 3, general. St. 1, N. horizon.
	18	27.26	7.5	Calm.	...	A.-St. 1, N.W. Ci. 1, S.W.
	21	27.27	10	...	...	Heavy "water sky" to the north. Ascending during to-day's march.
19	6	27.37	7.9	1	E.S.E.	Cu. 1, N.W.-N.E.
	9	27.34	7	5	E.S.E.	Cu. 2, E.-S.W. horizon.
	12	27.41	13	Calm.	...	Cu. 2, E.-S.W. horizon.
	15	27.26	14.5	0-1	E.S.E.	Cu. 2, E.-S.W. horizon.
	18	27.41	6.5	Calm.	...	Cu. 4, all round horizon.
	21	27.43	7	1	E.S.E.	Cu. 5, N.E.-S.E. rising to zenith. Descending during to-day's march.
20	6	27.45	12.5 in tent	5-10	E.S.E.	Sun obscured. Snowing heavily.
	9	27.45	14.5 "	2-5	E.S.E.	Sun obscured. Snowing heavily.
	12	27.46	15.8 "	5-10	E. by S.	Sun obscured. Snowing heavily.
	15	27.46	22.5 "	5-10	E.	Sun obscured. Snowing heavily.
	18	27.47	19 "	5-10	E. by S.	Sun obscured. Snowing heavily. Confined to tent all day.
1	6	27.38	21.5 "	15	E.S.E.	Sun obscured. Snowing. Heavy drift.
	9	27.38	21.5 "	15-21	E.S.E.	Sun obscured. Snowing. Heavy drift.
	12	27.36	23 "	27	E. by S.	Sun obscured. Snowing. Heavy drift.
	15	27.32	17.5 "	27	E. by S.	Sun obscured. Snowing. Heavy drift.
	18	27.24	20.5 "	27-35	...	Sun obscured. Snowing. Heavy drift.
	21	27.20	16.9 "	27	E.S.E.	Sun obscured. Tremendous snowfall. Confined to tent all day.
22	3	27.12	17 "	27-35	E.S.E.	Sun obscured. Snowing heavily.
	6	27.18	18.5 "	27	E.S.E.	Sun obscured. Snowing heavily.
	9	27.20	14.8 "	27	E.S.E.	Sun obscured. Snowing heavily.
	12	27.22	10.9 "	35	E.S.E.	Sun obscured. Snowing heavily.
	15	27.24	16.5 "	27	E.S.E.	Sun obscured. Snowing heavily.
	18	27.29	19.5 "	21-27	E.S.E.	Sun obscured. Snowing heavily.
	21	27.34	15 "	27-35	E.S.E.	Sun obscured. Snowing heavily. Confined to tent all day.
23	6	27.61	16 "	35	E.S.E.	Sun obscured. Snowing heavily.
	9	27.68	18 "	21	E.S.E.	Sun obscured. Snowing heavily.
	12	27.66	19 "	15-21	E.S.E.	Sun obscured. Snowing heavily.
	15	27.70	20 "	15	E.S.E.	Sun obscured. Snowing heavily.
	18	27.71	18.5 "	2-5	E.S.E.	Sun obscured. Confined to tent all day.
24	6	27.61	17	10-15	E.S.E.	Moderate drift.

Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
November. 24	9	27.58	19	10-15	E.S.E.	Moderate drift.
	12	27.54	19	5	E.S.E.	Ci.-Cu. 3, N.E.-S.E.
	15	27.49	23	2	E.S.E.	Ci. 1, N.W. Ci.-Cu. 2, S.W.
	18	27.43	22	1-2	E.S.E.	Ci.-Cu. 8, S.E. and S.W. quadrants, spreading from S.E. to zenith.
	21	27.59	20	Calm.	...	At 15 h. iridescent clouds seen beneath the sun.
25	6	27.67	17.5	1	E.S.E.	Ci.-Cu. 10.
	9	27.74	22.5	5-10	E.S.E.	Ci.-Cu 10, general. Iridescent clouds.
	12	27.55	23.5	2	E. by S.	Ci.-Cu. 11.
	15	27.73	23.8	5	E. by S.	Ci. 2, N.W.-N.E. Cu. 2, N.W. and S.W. "Water sky" to north.
	18	27.97	19.	1	E.S.E.	2 Ci.-St., N. and S.
	21	27.97	18.8	2	S.E.	..... Descending during to-day's march.
26	6	28.02	13.9	2	E.S.E.	Ci.-St. 8.
	9	28.20	21.8	5-10	E.S.E.	Ci.-St. 7. Cu., N.W. over sea sky.
	12	28.60	25	10	E.S.E.	Ci.-St. 6.
	15	28.62	25	5-10	E.S.E.	Ci.-St. 8.
	18	28.64	19	2	E.S.E.	Ci.-St. 6.
	21	28.66	12.5	2	E.S.E.	Ci.-St. 5, arches N.E.-S.W. from zenith to east. Descending during to-day's march.
27	6	28.66	18	5-10	E.S.E.	Sun obscured. Nebular 12. Light snowfall during last night.
	9	28.63	19.8	5	E.S.E.	Sun obscured.
	12	28.61	22.5	5	E.S.E.	Ci.-Cu. 6, N.-W.-S.
	15	29.44	28.3	5.	E.S.E.	Cu. 1, over "water sky." Ci. 1, W. Ci.-St. 1, S.W.
	18	29.30	26.5	5	E.S.E.	.....
	21	29.18	22.2	2	E.S.E.	..... Descending to 15 h., thereafter traversing bay-ice.
28	6	28.99	23.8	Calm.	...	Ci.-St. 9, general.
	9	29.02	26.2	2	E.S.E.	Ci.-St. 9, general. Snowing.
	12	29.11	29	2.	E.S.E.	Ci.-St. 9, general. Snowing.
	15	...	...	.....	.....	Snowing.
	18	29.16	34.5	2	E.S.E.	Clearing. No snow.
	21	29.16	31.5	Calm.	...	Nebular 10. Lifting in the east. All day on bay-ice.
29	6	29.18	30.5	2	E.S.E.	.....
	9	29.15	32.8	2	E.S.E.	Ci.-Cu., E. travelling to S.W.
	12	29.24	37	2	E.S.E.	Nebular, sun quite obscured. Snowing heavily.
	15	29.26	33.5	15-21	E.S.E.	Snowing heavily.
	18	29.27	33	2	E.S.E.	Snowing.
	21	29.26	32	5	E.S.E.	Snowing. All day on bay-ice.
30	6	29.23	32.5	5-10	E.S.E.	Nebular 10.
	9	29.26	34	15	E.S.E.	Nebular 10. Snowing.
	12	29.28	34.5	10	E.S.E.	Nebular 10.
	15	29.27	34.5	15	E.S.E.	Ci.-Cu. 7, moving S.W.
	18	29.26	32.8	15	E.S.E.	Ci.-Cu. 9. Snowing.
	21	29.28	32.8	10	E.S.E.	Light snow falling. All day on bay-ice.
December. 1	6	29.24	32.5	5	E.S.E.	Snowing.
	9	29.26	32.2	5	E.S.E.	Snowing.
	12	29.28	34.5	5	E.S.E.	Snowing.
	15	29.30	36.5	5	E.S.E.	Snowing.
	18	29.33	33	2	E.S.E.	Nebular 8. Cumulus 2, W. All day on bay-ice.
2	9	29.48	31	10	E.S.E.	Snowing. Heavy snow falling during night.
	12	29.53	32.3	5	E.S.E.	Ci.-Cu. 12.
	15	...	...	10	E.S.E.	Nebular 12. Snowing.

Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
December.						
2	18	29.56	33	5	E.S.E.	Nebular 12. Snowing. All day on bay-ice.
3	6	29.64	32	2	E.S.E.	Ci.-Cu. 12. Heavy snowfall during night.
	9	29.63	33	2	E.S.E.	Ci.-Cu. 10. Clearing in E.
	12	29.64	32.8	2	E.S.E.	Ci.-Cu. 2, S.W. Ci.-St. 1, N.E.
	15	28.74	29	2	E.S.E.	Ci.-Cu. 7, W. half of sky.
	18	28.70	20.5	2	S.	Ci.-Cu. 9, general except S.E. quadrant.
	21	28.68	24 in tent.	2	S.	Ci.-Cu. 10, general. Ascending during march to-day after noon.
4	6	28.61	26.5	5	S.	Ci.-St. 6, eastern half of sky. Ci.-Cu. 2, W. 45° elevation.
	9	28.46	26.5	5	S.E.	Ci. 2, zenith. Ci.-Cu. 3; E. and N.
	12	28.14	30	2	E.S.E.	Ci.-Cu. 3, S.E. Ci. 1, zenith.
	15	28.13	30.5	2	E.S.E.	Ci.-Cu. 3, in N., E. and S. to 45°.
	18	28.03	28.5	2	E.S.E.	Cu. 1, E. Ascending all day.
5	6	28.08	26	5	E.S.E.	Nebular 10. Ci.-Cu. 2, E. Snowing during night.
	9	28.11	26.3	5-10	E.	Nebular 12. Snowing heavily.
	12	28.11	31.5	5-10	E.	Nebular 12. Snowing heavily.
	15	28.13	29.5	5	E.	Nebular 12. Snowing heavily.
	18	28.12	26	5	E. by S.	Nebular 12. Snowing heavily.
	21	28.11	25.4	5	E. by S.	Nebular 12. Snowing heavily. Confined to tent all day.
6	6	28.17	25	5	E. by S.	Nebular 12. Snowing.
	9	28.17	29	5	E. by S.	Nebular 12. Snowing.
	12	28.16	27.2	10	E. by S.	Nebular 12. Snowing.
	15	28.14	28.2	5	E. by S.	Nebular 12. Snowing.
	18	28.13	28	10	E. by S.	Nebular 12. Snow ceased.
	21	28.16	28	2	E.S.E.	Nebular 11. Clearing in east. Confined to tent all day.
7	6	28.11	23	2-5	E.S.E.	Cloudless.
	9	28.03	24.4	5	E.S.E.	St. 1, S.W. Cu. 2, over sea.
	12	28.12	27.2	2	E.S.E.	St. 1, S.W. Cu. 2, over sea.
	15	28.09	29.5	5	E.S.E.	St. 1, S.W. Cu. 2, over sea.
	18	27.91	28	5	S. by W.	Cloudless. "Water sky" to N. Low drift.
	21	27.91	27.5	5-10	S. by W.	Cloudless. "Water sky." Ascending most of time to-day.
8	6	28.01	22	15	S. by E.	Cloudless. "Water sky." Heavy wind and-drift all night.
	9	27.97	26.5	15	S.E.	Cloudless. "Water sky."
	12	27.97	25.8	5	S.E. by E.	Cu. 1, E.
	15	27.89	30.5	2	E.N.E.	Cu. 1, over "water sky."
	18	27.68	24	2	E.S.E.	Cu. 1, over "water sky."
	21	27.68	27.5	Calm.	..	..... Confined to tent till noon. Ascending in afternoon.
9	6	27.62	18.5	5	E.S.E.	Ci.-Cu. 11.
	9	27.69	26.4	10-15	E.S.E.	Ci.-Cu. 11.
	12	27.66	30.5	15	E.S.E.	Ci.-Neb. 11. Low drift.
	15	27.67	25	10	E.S.E.	Snowing.
	18	27.68	29.5	5	E.S.E.	Snowing. Descending in morning. Confined to tent after noon.
10	6	27.72	25	15-21	S.E. by S.	Snowing.
	9	27.72	28.8	15	S.E. by E.	Snowing.
	12	27.73	29.6	10	E.S.E.	Ci.-Cu. 12. Drift.
	15	27.75	28.5	10-15	E.S.E.	Ci.-Cu. 12. Drift.
	18	27.76	30	10	E.S.E.	Snowing. Confined to tent.
11	6	27.73	25	5-10	S.E.	Nebular 12. Snowing.

Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM 'THE GROTTOS,'  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
December. 11	9	27.71	25	5-10	E.S.E.	Ci.-Cu. 9.
	12	27.62	26	15-21	E.S.E.	Ci.-Neb. 5. Ci.-Cu. 3, moving rapidly to S.W.
	15	27.46	27	10	E.S.E.	Ci.-Cu. 11.
	18	27.18	24.8	2	E.S.E.	Ci.-Cu. 10. St. 1. Cu. 1, N.W. over water.
	21	27.14	26	2	E.S.E.	Sun obscured. Light snowfall. Confined to tent until 9 h. Ascending subsequently.
12	6	27.09	22.4	2	E.S.E.	Ci.-Cu. 8.
	9	27.12	24.7	5	S.E.	Ci.-Cu. 6, S.W.-S.E. and N.W.
	12	27.18	27.3	2	E.S.E.	Ci.-Cu. 3, W.-S.E. and N.W.
	15	27.29	30	1	N.	Ci.-Cu. 3, W.-S.E. and N.W.
	18	27.32	27.5	1	W.S.W.	Ci.-Cu. 5, S.E., zenith and S.W.
	21	27.26	30 in tent.	...	...	..... Descending to-day.
13	6	27.26	15	5	S.E.	Cu. 2, N.W.-N.-E.
	9	27.34	18.9	10	E.S.E.	Ci.-Cu. 6, general. Rapidly moving N.E.-S.W. Heavy drift.
	12	27.27	23.5	15-21	E.S.E.	Ci.-Neb. 11.
	15	27.26	21.7	10-15	E.S.E.	Sun obscured. Snowing.
	18	27.27	25	5-10	E.S.E.	Sun obscured. Snowing.
	21	27.27	23.3	5-10	E.S.E.	Sun obscured. Snowing. Confined to tent in afternoon.
14	6	27.31	22	10	E.S.E.	Sun obscured. Snowing.
	9	27.32	24	10-15	E.S.E.	Ci.-Neb. 11.
	12	27.30	23.8	10	E.S.E.	Ci.-Neb. 11.
	15	27.32	31.5	10-15	E.S.E.	Sun obscured. Snowing.
	18	27.29	27	10	E.S.E.	Sun obscured. Snowing.
	21	27.31	30.1	5	E.S.E.	Sun obscured. Snowing. Confined to tent in morning.
15	6	27.28	22	2	S.E.	Ci. 6.
	9	27.27	22	2	E.	Ci. 2. Ci.-St. 3, general.
	12	27.32	29.5	2	N.W.	Ci.-St. 2, N.W.
	15	27.25	31	Calm.	...	Ci. 2, N.E.-N.W. Ci.-Cu. 2, N.E. and W.
	18	27.01	24.2	2	W.	Ci. 2, N.W. Cu. 2, W. over edge of ice cap.
	21	27.00	32 in tent.	2	W.	.....
16	6	26.69	19.3	2	S.E.	Ci.-St. 3, S.W.-zenith.
	9	27.01	21	2	S.E.	Ci.-Cu. 7, general. Ci. 2, W. Iridescent clouds.
	12	27.15	28	2	W.	Ci.-Cu. 10.
	15	27.21	25	5	W.	Ci.-Cu. 3, S.W.-E.
	18	27.25	30.7	2	W. by S.	Ci. 2, zenith.
	21	27.26	24.5	2	N.W.	Nebular 11. This was fog clouds carried W. by the westerly wind. Sago-grained snow fell for a few minutes. Ascending in morning. Descending in afternoon.
17	6	27.26	24	2	S.E.	Cu. 3, W.
	9	27.26	25	2	S.E.	A.-St. 1, E.
	12	27.04	29.5	2	W.	Fog Cu. 2, W.-N.W. moving across ice cap to east.
	15	26.88	29.5	2	W.	Fog Cu. 4, W.-N.W. moving across ice cap to east.
	18	26.76	28.5	2	W.	Fog Cu. 1, W.
	21	26.75	22.5	2	S.W.	Fog at 19-30 h. Fog low seen in E. at some 30° of elevation. Ascending all day.
18	6	26.74	8	2	S.	St., S.W.
	9	26.65	12.7	5	S.	St. 3, S.W.
	12	26.60	22.5	2	S.	Ci.-Cu. 2, W. 45°. Heavy layers of frost crystals on snow surface.
	15	26.55	22	2	S.	Ci.-Cu. 4, W.
	18	26.50	23	2	S.	Fog 8, W.-S.E. obscuring sun. Ascending all day.
19	6	26.50	20	2	S.	Ci.-Cu. 11.
	9	26.51	17.3	2	E.S.E.	Ci.-Neb. 12.
	12	26.52	21.4	2	E.S.E.	Ci.-Neb. 12.

Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
December, 19	15	26.56	25	1-2	E.S.E.	Ci.-Neb. 12. Light snowfall.
	18	26.56	27	1	...	Ci.-Cu. 12.
	21	26.57	21	1	...	.....
20	6	26.62	8	5	S.E.	Ci.-Cu. 3, S.W. to zenith.
	9	26.52	12	5-10	S.E.	Ci.-Cu. 9, general.
	12	26.60	21	2	E. by N.	Ci.-Cu. 3, W.-N.-zenith.
	15	26.82	23.5	2	N. by E.	Ci. 4, S.W. to N.E. Halo.
	18	26.83	19.5	2	N.E.	Ci. 2, zenith. Ci.-Cu. 3, S.E.
	21	26.83	15	2	E.S.E.	Cu. 3, E.
21	6	26.82	12	2	S.E. by E.	Ci.-Cu. 9, general.
	9	27.08	18.4	5	S.E. by E.	Ci.-Cu. 9, general. A.-St. 1, S.
	12	27.35	27	5	S.E. by E.	A.-St. 6, general.
	15	27.51	26.5	2	S.E. by E.	Cu. 4, W.-S. Halo.
	18	27.47	21.5	1	...	Ci.-Cu. 3, E.
22	6	27.33	24	10-15	S.E.	Cloudless.
	9	27.28	29	2-5	S.E.	Cloudless.
	12	27.27	24	2	S.E. by E.	Cloudless.
	15	27.26	26	Calm.	...	Cloudless.
	18	27.26	24	Calm.	...	Cloudless.
23	6	27.32	16	10	S.E.	Cloudless.
	9	27.25	18.5	5	S.E.	St. 1, N.W.
	12	27.73	28.6	Calm.	...	St. 1, N.E.
	15	27.91	29.5	Calm.	...	Cu. 1, W.
	18	28.64	29	Calm.	...	Cu. 1, W.
24	6	28.66	23	2	S.E.	Cu. 1, W.
	12	28.57	29	2	E.S.E.	Descending to-day.
	15	28.56	29.5	2	E.S.E.	Ci.-Cu. 11.
	18	28.56	29	Calm.	...	Ci.-Cu. 1, S.W. A.-St. 3, zenith-N.-E.
						Ci.-Cu. 1, S.W. 45° alt. Camped at Gaussberg.
25	9	28.71	25	2	E.S.E.	A.-St. 1, W.
	12	28.75	27	2	E.S.E.	A.-St. 2, W.-N.W.
	15	28.74	27	5	E.S.E.	Ci.-St. 3, W.-N.W.
	18	28.72	27	5	E.S.E.	Ci.-St. 5, zenith. Camped at Gaussberg.
26	9	28.48	30	5-10	S.E.	Ci.-St. 10, general.
	12	28.43	31.5	10-15	S.E.	Ci.-Cu. 6, S.-W., moving rapidly west. Ci.-Neb. 5, N.E. Halo.
	15	27.80	29.5	5-10	E.S.E.	Ci.-Neb. 5, S.W. Ci. 4, S.E.-N.E. Halo.
	18	27.64	28	2	E.S.E.	Ci.-St. 10, general. Halo.
	21	27.54	26	2	E.S.E.	..... Ascending to-day.
27	9	27.58	28	5	S.E.	St. 3, N.W.
	12	26.98	22	15	E.S.E.	Ci. 9, general. Halo.
	15	27.08	23.6	5	E.S.E.	Ci. 5.
	18	26.91	21	5	S.E. by S.	Ci.-St. 1, E.S.E.
	21	26.86	18	5	S.W.	St. 3, S.E. Ascending to-day.
28	9	26.93	10	10-15	S.E. by E.	.....
	12	26.81	19.5	15	S.E. by E.	St. 3, W. Ci. 1, S.E.
	15	26.94	24	5	E.N.E.	Ci.-Neb. 10. Halo.
	18	26.66	21.4	5-10	E. by N.	Ci. 9, moving to south.
	21	26.52	16	5	E.S.E.	Ci. 9, moving to south. Ascending to-day.
29	9	26.70	17	10	E.S.E.	.....
	12	26.75	20	5	E.S.E.	Ci.-Cu. 10.
	15	26.76	25.5	5	E. by N.	Ci.-Cu. 4, moving rapidly to west. Ci. 8, general moving N.E.
	18	26.79	23	5	E. by N.	Ci.-Cu. 10, general moving W.-E. Low fog clouds about 1-2 miles west of camp.



Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
December. 30	9	26.62	19	5	E. by S.	Sun obscured. Heavy snowfall last night.
	12	26.59	21	5	E. by S.	Sun obscured. Snowing steadily. Drift.
	15	26.57	23	2-5	E. by S.	Sun obscured. Snowing steadily.
	18	26.57	23	2	E. by S.	Nebular 12, clearing at zenith. Snowing steadily.
	21	26.57	20	2	S.E.	.....
31	9	26.68	15	10	E.S.E.	Confined to tent.
	12	26.78	22.8	2	E.S.E.	Cloudless. Moderate drift.
	15	26.79	25	Calm.	...	A.-St. 2, N.W. Cu. 1, over sea water N.N.W.
	18	26.67	18	2	E.S.E.	A.-St. 2, N.W. Cu. 1, over sea water N.N.W. Ci.-St. 9, moving from a focus in N.W., across zenith to east in form of arches.
1913. January.	21	26.64	15	5	E.S.E.	.....
1	9	26.44	13	15-21	E.S.E.	Sun obscured. Snowing. Heavy drift.
	12	26.52	19.5	10	E.S.E.	Sun obscured. Snowing. Moderate drift.
	15	26.57	23.5	5	E.S.E.	Sun obscured. Snowing. Moderate drift.
	18	26.66	21	2	N.W.	Ci.-Cu. 9, general break in S.E.
	21	26.70	19	2	S.W.	Ci.-Cu. 6, general.
2	9	26.92	15	2	S.E.	Ci.-Cu. 9, general.
	12	26.77	24.6	Calm.	...	Ci.-Cu. 6, in N.W.-S.W. by S.E. quadrants.
	15	26.78	23	5	W.	Ci.-Cu., 6 in N.W.-S.W. by S.E. quadrants.
	18	26.56	22	2	S.W.	A.-Cu., S.W. Ci. 1, zenith.
	21	26.57	18	2	S.W.	.....
3	9	26.51	14	2-5	S.E.	Ci.-Cu. 7, general.
	12	26.31	20	5	S.E.	A.-St. 1, S. St.-Cu. 1, W. Ci.-St. 2, N. Low drift.
	15	26.23	20.5	10	S.E.	Clouds and drift as at noon.
	18	26.11	17.5	10	S.E.	Ci. 2, N.W. and W. Low drift.
	21	26.07	15	5	S.E.	Low drift.
4	9	25.98	13	15	S.E.	Ci.-Cu. 11. Heavy drift.
	12	25.96	16	15-21	S.E.	Nebular 12 (sun obscured). Drift.
	15	25.96	21	10-15	S.E. by E.	Nebular 12. Snowing. Heavy drift.
	18	26.02	18	10	E.S.E.	Nebular 12. Snowing. Heavy drift.
5	9	26.02	15	10	S.E.	Confined to tent.
	12	25.95	22	10-15	S.E.	Nebular 12. Heavy drift.
	15	25.88	23.5	15	S.E.	Nebular 12. Heavy drift.
	18	25.82	20	10-15	S.E. by E.	Ci.-Cu. 9. Heavy drift.
	21	25.77	17	15	S.E. by E.	Ci.-Cu. 5. Heavy drift. Ci.-Cu. 7. Heavy drift.
6	9	25.72	13	15-21	S.E.	Confined to tent.
	12	25.70	18	21	S.E.	Cloudless. Wind blew from 30 to 35 m.p.h. for a time during the night.
	15	25.76	20	15	S.E.	Cloudless.
	18	25.76	19	21	S.E.	Cloudless.
	21	25.73	15	15	S.E.	Cloudless.
7	9	25.81	16	10	S.E.	Confined to tent. Drift all day.
	12	25.82	17	10	S.E.	Cloudless. Moderate drift.
	15	25.86	18.5	10	S.E.	Cloudless. Moderate drift.
	18	25.82	17	2-5	E.S.E.	St. 1, S.E. Moderate drift.
	21	25.76	14	5	E.S.E.	A.-St. 1, S.W. Low drift. Low drift.
8	9	25.78	15.5	5-10	E.S.E.	St. 1, S.W. Low drift.
	12	25.76	19.5	5-10	S.E.	St. 2 on horizon from N.E.-S.W. Low drift.
	15	25.92	21.5	2-5	S.E.	Ci.-St. 2, E.
	18	25.83	15	Calm.	...	Ci.-St. 2, E.-S. Cu. 1, E.S.E.-S.S.W.
	21	25.85	12	2	S.E.	Cu. 1, E.S.E.-S.S.W.
9	9	26.02	17	2	S.E.	Ci.-Cu. 3, E. Remarkable parhelion at 10-10 h.
	12	25.98	26	5	S.E.	Ci.-Cu. 12 moving rapidly east.
	15	26.05	28	2	S.E.	Ci.-Cu. 11 (clear only in E.).
	18	26.20	21	2	S.E.	Cu. 2, W.
	21	26.13	17	2	S.S.E.	Cloudless.
10	9	26.00	17	10	S.E.	Ci.-St. 5, S.W.-N.E. forming Noah's Ark.
	12	25.95	19.5	5	S.E.	Ci. 4, moving to N.E., N.E. and S.W. quadrants.

Table XXIV—continued.

REGISTER OF THE WESTERN SLEDGE PARTY FROM "THE GROTTOS,"  
QUEEN MARY LAND.

Date.	Hour.	Barometer (Ins. M.).	Thermometer (deg. Fah.).	Wind.		Cloud and Remarks.
				Miles per hour.	Direction.	
January. 10	15	26.06	20	2	E.N.E.	Ci. 4, E. and W. horizon.
	18	26.29	18.5	2	E.N.E.	Cu. 7, N.-E.-S.-S.W. round horizon. Ci. 1, N.E.
	21	26.25	16	2	E.N.E.	Sun obscured.
11	9	26.28	17	2	E.N.E.	Sun obscured. Snowing.
	12	26.27	18.5	2	E.N.E.	Sun obscured. Snowing.
	15	26.23	19.5	2	E.N.E.	Sun obscured. Snowing.
	18	26.22	20.5	2	E.N.E.	Sun obscured. Snowing.
	21	26.20	19	2	E.	.....
12	9	26.28	19	2	E.	Sun obscured. Little snow falling.
	12	26.27	26	5	E.	Sun obscured. Slight drift.
	15	26.28	26	Calm.	...	Sun obscured.
	18	26.27	25	2	E.	Sun obscured. Little snow falling.
	21	26.37	23	2	E.	Sun obscured.
13	9	26.35	24	2	E.N.E.	Confined to tent.
	12	26.33	26.5	2	E.N.E.	Snowing steadily.
	15	26.43	23	2	E.N.E.	Nebular 12. Halo.
	18	26.76	27	Calm.	...	Ci.-Cu. 8, S.-W.-N. A.-St. 3, E. Halo.
	21	26.73	23	2	S.E.	Ci. 6, scattered over sky. A.-St., horizon, W.-N.N.E. Descending to-day.
14	9	26.82	27	5	E.S.E.	Ci.-Cu. 5, N.E. and S.E. quadrants. Ci. 2, zenith.
	12	27.05	35	5	S.E.	Ci.-Cu. 11. Sun obscured. Strong "water sky" to N.
	15	27.14	31.8	5	S.E.	Nebular 12. Sun obscured.
	18	27.34	31	2	S.E.	Nebular 10.
	21	27.35	30	5	S.E.	.....
15	9	27.50	29	5-10	S.E.	Ci.-Cu. 11. Sun obscured.
	12	27.50	29	5-10	S.E.	Nebular 12. Snowing. Drifting.
	15	27.52	30.5	2	S.E.	Nebular 12.
	18	27.50	32	2	S.E.	St. 2, N.W.
16	9	27.50	25	10-15	E.S.E.	Cloudless.
	12	27.66	30	15-21	E.S.E.	Ci. 2, zenith. Moderate drift.
	15	27.68	28	15-21	E.S.E.	Ci. 3, N.W.-W. Moderate drift.
	18	27.68	25	15-21	E.S.E.	Ci. 1, W. Moderate drift.
	21	27.74	22	10-15	E.S.E.	Cloudless.
17	9	27.82	20	2-5	E.S.E.	Cloudless.
	12	27.40	24.8	10-15	E.S.E.	Ci. 4, W.N.W.-S.-S.E. and zenith. Drift.
	15	27.15	22	21-27	E.S.E.	Ci. 4, W.N.W.-S.-S.E. and zenith. Drift.
	18	27.18	23	15	E.S.E.	Ci. 7, N.E.-N.W.-S.W.-zenith. Drift.
	21	27.20	19	15	E.S.E.	Ci. 3, S.W. Drift.
18	9	27.20	15	15-21	E.S.E.	Ci. 1, E.
	12	27.26	25	0-10	E.S.E.	Cu. 3, N.W. "Water sky."
	15	27.80	29	Calm.	...	St. 1, S.E.
	18	27.82	27	Calm.	...	St. 2, E.
	21	27.78	20	2	E.S.E.	.....
19	9	27.77	15	10-21	E.S.E.	Clear sky. Squally. Much drift.
	12	27.77	19.5	10	E.S.E.	A.-St. 2, N.E. Squally. Much drift.
	15	27.80	25	2	E.S.E.	A.-St. 2, N.E. and S.W.
	18	27.72	22	2	E.S.E.	A.-St. 2, S.W.
	21	27.83	16	5-10	E.S.E.	Ci. 8, Noah's Ark S.E.-N.W.
20	9	27.73	16	2-5	E.S.E.	Clear sky.
	12	27.62	23	10	E.S.E.	Clear sky. Ground drift.
	15	27.80	24.5	10-15	E.S.E.	Clear sky. Ground drift.
	18	28.60	28	5	E.S.E.	Clear sky.
	21	29.32	29	5-10	E.S.E.	Clear sky.
21	6	29.41	21.5	2	E.S.E.	A.-St. 1, W.
	9	29.42	26.0	2	E.S.E.	A.-St. 1, W.
	12	29.39	30	Calm.	...	Ci. 1.

## APPENDIX.

## MACQUARIE ISLAND WEATHER.

(From August, 1909, to July 25th, 1910, and January 1st, 1911, to December 12th, 1911.)

DAILY Weather Notes from the log of Otto Bauer's sealing party resident at the Island for much of three years preceding occupation by the A. A. E. Bauer, who was operating at the Island at the time, kindly submitted to Ainsworth, Meteorologist in charge of the Expedition's Macquarie Island Party, all his records for abstraction.

1909.		Oct. 8	Northerly gale; westerly at 4 p.m.
Aug. 9	Strong westerly gale and heavy snow squalls. Island covered with snow.	9	Fine southerly weather.
10	Strong westerly gale.	10	Light N.W. wind.
11	Strong southerly wind.	11	Westerly gale.
12	Strong westerly, decreased at 10 a.m.	12	Westerly wind and rain.
13	Moderate easterly breeze.	13	S.E. wind and heavy snow.
14	Heavy easterly swell on coast.	14	N.E. wind and rain in forenoon; (light), S.E. wind and snow in afternoon.
15	Raining and blowing S.W. in afternoon.	15	N.W. wind but clear; strong N.W. gale during night.
16	Strong S.S.W. wind with snow squalls.	16	Westerly wind—strong, and clear.
17	Strong southerly wind with snow squalls.	17	Strong northerly wind.
18	Strong westerly wind with driving rain.	18	Westerly wind.
19	Light easterly wind.	19	S.W. wind and heavy snow falls.
20	Strong N.W. wind and raining. Very thick weather all day and night.	20	No remark.
21	Strong northerly wind and very thick weather.	21	Very windy day (only remark).
22	Strong S.W. breeze.	22 to 27	Good weather.
23	Strong S.W. wind and heavy snow squalls; 2 feet of snow on isthmus.	28	S.W. wind and fine weather.
24	Strong S.W. breeze.	29	Fine with light westerly wind.
25	Strong N.W. with quick change to S.W. at 4 p.m.	30	Fine weather.
26	Strong N.W. and west wind.	31	Moderate S.E. wind.
27	No remarks.	Nov. 1	Moderate westerly wind.
28	Fine easterly weather.	2	S.W. wind with rain showers.
29	Fine and calm.	3	N.W. wind and rain; earthquake shocks at 5-30 p.m. (heavy). Light shock at 5-45 p.m.; severe shock at 9-58 p.m.; heavy shock at 11 p.m.
30	S.E. wind and heavy swell on east coast.	4	Heavy rain; westerly wind; southerly wind at night. Light earthquake shocks at 10 a.m., at 10-45 a.m. and at 6-45 p.m., 10-15 p.m., and 10-30 p.m.
31	Strong S.E. breeze with heavy sea on east coast.	5	Fine weather with northerly wind.
Sept. 1	Fine southerly weather.	6	S.W. wind and fine.
2	Light southerly wind.	7	Westerly wind with thick weather.
3	Fine S.W. weather.	8	Westerly gale with snow squalls.
4 & 5	Strong westerly wind.	9	Strong S.W. wind, clear atmosphere.
6	Strong S.W. wind; occasional snow squalls.	10 & 11	S.W. wind and fine.
7	Westerly gale with heavy rain squalls.	12	N.E. wind but very fine.
8	Strong S.W. breeze.	13	N.E. wind and fine till 2 p.m.; S.W. wind and snow in afternoon.
9	Light westerly wind; very thick night.	14	West wind and very fine; strong northerly wind and rain at night.
10	Dirty N.W. wind and rain.	15	Strong N.W. wind.
11	Wind N.W., W. and S.W. Heavy rain at intervals.	16 & 17	S.W. wind and fine.
12	N.W. wind with heavy rain.	18 & 19	Very fine day, with light southerly wind.
13	Westerly wind in forenoon; S.W. afternoon—fairly fine.	20	Strong N.E. wind and rain all day.
14	Fine weather.	21	Strong north wind but very fine.
15	Strong N.W. wind; clear weather.	22	Strong northerly wind; very heavy sea.
16	Strong N.W. with thick weather.	23	Light northerly wind; very fine weather; considerable sea.
17	Strong S.W. wind during night; light S. wind and fine weather during day.	24	Northerly wind; fine weather but considerable sea.
18	S.W. wind; fine and fair.	25	Strong north wind; rain; considerable sea.
19	N.W. wind and rain. S.W. wind and clear afternoon.	26	Strong easterly and heavy rain in afternoon. S.E. wind at night; heavy snow.
20	S.W. wind with snow squalls.	27	S.E. gale with heavy snow until noon. S.W. wind and clear after 1 p.m.
21	Westerly gale.	28	Strong N.W. wind and rain in afternoon.
22	Strong westerly wind; clear weather.	29	Very strong N.W. wind; fine weather.
23	Strong N.W. gale.	30	N.W. wind; very fine.
24	Strong northerly gale and rain.	Dec. 1	Strong northerly wind and thick weather.
25	S.E. wind, fine and clear.	2	North wind and thick weather.
26	Westerly wind with driving rain.	3	N.W. wind and fine till noon; strong north wind and rain in afternoon.
27	Westerly wind; thick weather.	4	Northerly wind; thick weather and rain in the forenoon, fine and clear in afternoon.
28	S.W. wind; good weather.	5	N.E. wind and rain. Fine at night.
29	Light westerly wind; thick at times.	6	Light easterly wind and thick fog all day.
30	Light westerly wind and driving rain.	7	Easterly wind and thick weather; heavy rain at night.
Oct. 1	S.E. wind with light snow squalls.	8	Light S.E. wind and fine.
2	Light N.E. wind and fine but strong N.E., and rain after sunset.	9	Light northerly wind and very fine; sea very smooth.
3	Easterly wind and thick heavy rain during night and part of day.		
4	Easterly wind and thick. In afternoon S.W. wind.		
5	Light wind but rather heavy swell.		
6	Northerly wind and heavy rain in forenoon; strong southerly gale in afternoon.		
7	Northerly wind—strong until dark. Strong S.W. wind at 8 p.m.		

## Appendix—continued.

## MACQUARIE ISLAND WEATHER.

1909.		Feb. 27	S.W. gale; rain squalls.
Dec. 10	Light N.W. wind and fine.	28	S.W. wind and very fine.
11 & 12	No remark. Rafting.	March 1	Light easterly wind; thick weather; sea making.
13	No remark. Shifting ship.	2	Calm; very heavy rain.
14	Strong N.E. wind.	3	Strong southerly wind.
15	Easterly wind and very thick weather; heavy sea.	4	Northerly wind with rain.
16	Easterly wind; very thick weather; heavy sea.	5	N.E. wind.
17	Ship anchored again. (No weather remark.)	6	S.W. wind and fine.
18	Ship had to slip anchor again; no weather remark.	7	Northerly wind and rain.
19	W.N.W. wind and very fine.	8	N.W. wind and rain.
20	W.N.W. wind; thick weather.	9	S.E. gale and snow—3 feet deep on beach.
21	Fairly fine day; light wind; earthquake at 1-30 p.m.	10	S.W. wind and snow.
22	Light northerly wind and foggy.	11 & 12	S.W. gale and hail squalls.
23	Light S.W. wind and fine, N.W. in evening.	13	Strong north wind and rain.
24	S.W. wind and very fine.	14	Southerly wind and snow.
25	Westerly wind and very fine weather.	15	Westerly wind with rain showers.
26	S.W. gale and clear weather.	16	S.W. wind and clear. Considerable sea.
27	Strong S.W. wind.	17	Very light west wind and rain; very heavy sea.
28	Westerly wind—very fine weather.	18	Calm and very foggy. Rain at night. Very high sea (east).
29	Westerly wind in forenoon; N.E. wind and heavy rain towards evening.	19	Strong southerly wind and hail showers.
30	Westerly and very fine in forenoon; easterly and snowy early evening.	20	Strong southerly wind and snow squalls; considerable swell.
31	S.E. wind with heavy sea on east coast.	21	Strong westerly wind.
1910.		22	N.W. during day; N.E. wind during night with thick fog and drizzling rain.
Jan. 1	Strong S.W. wind and heavy rain squalls.	23	S.W. breeze and fine.
2	S. and S.W. wind (strong), rain showers.	24	N.W. wind and thick* on hills.
3	S.W. wind.	25	Westerly wind in morning. Easterly with snow in afternoon.
4	S.W. wind and rain showers.	26	S.W. gale and snow squalls.
5	Westerly wind and rain.	27	Strong N.W. to west wind.
6	Westerly wind and heavy rain.	28	Northerly wind and rain; westerly towards night, and clear.
7	S.W. wind and very fine.	29	Strong southerly and westerly wind and rain showers.
8	S.W. wind and fine.	30	Westerly wind and thick weather.
9	Westerly wind.	31	Westerly wind; very thick and rainy all day.
10	Northerly wind and fine.	April 1	S.W. wind and very fine.
11	Westerly wind.	2	Strong northerly wind and misty.
12	Strong S.W. wind.	3	Wind, southerly; easterly and northerly rain showers.
13	Southerly wind with hail squalls and rain showers.	4 & 5	S.W. gale and snow squalls.
14	Southerly wind and rain showers.	6	S.W. wind and rain squalls. Sea making.
15	Southerly gale; considerable sea on east coast.	7	N.W. wind, then westerly; thick weather.
16	S.W. wind; considerable sea.	8	Strong north wind, afterwards N.W. S.W. wind at night with heavy snow.
17	Light S.E. to S.W. wind.	9	N.W. wind and fine. S.W. wind with rain squalls at night.
18	Light S.W. wind and fine.	10	N.E. wind and rain.
19	Northerly wind and fine.	11	S.W. gale and heavy snow squalls.
20	Strong southerly wind.	12	Strong S.W. wind.
21	Light S.W. wind and very fine.	13	Southerly wind in forenoon. Calm in afternoon with heavy snow.
22	N.E. wind and fine, but heavy rain at night.	14	N.W. wind and fine in morning. Southerly with heavy snow in afternoon—4 feet on beach.
23	Strong southerly wind; heavy sea on east coast.	15	Southerly gale at night; heavy snow; frost. All lakes frozen. Deep snow drifts on hills.
24	Northerly wind and rain; S.W. gale at night.	16	Southerly gale.
25	Strong southerly wind.	17	Westerly wind; heaviest sea on east coast for years.
26	Westerly wind and very fine.	18	Westerly wind.
27	S.W. wind and fine.	19	Westerly wind and thick weather.
28	N.W. wind.	20	N.W. wind with occasional rain showers.
29	Westerly wind and fine.	21	Northerly wind and rain.
30	Squally, westerly wind.	22	Strong southerly wind and snow squalls.
31	N.W. wind with rain.	23	Light westerly and northerly, and very fine.
Feb. 1 & 2	No remark.	24	Light easterly wind with rain; very thick; big land slide in Gadget Gully.
3	Easterly wind and rain.	25	Light northerly wind and very thick weather.
4	Calm.	26	Light northerly wind and thick weather. Rain at night.
5	Easterly wind; very thick; rain in afternoon.	27	Light northerly wind.
6	Easterly and very thick; wet all day; earthquake at 11-45 p.m.	28 & 29	Light N.E. wind and thick weather.
7 to 11	No remarks except that weather moderately fine.	30	Northerly gale and thick weather.
12	South wind; fine. Ship left for New Zealand.	31	No entry.
13	West wind and fine.	May 1	N.W. wind and rain showers; thick weather.
14	Northerly wind and fine.	2	Northerly wind and clear.
15 to 17	S.W. wind and fine.	3	Very light northerly wind. Fine clear weather.
18	Strong southerly wind; squalls and rain showers.	4	Light S.E. weather and thick.
19	Northerly wind.	5 & 6	Fresh northerly breeze.
20	Westerly wind and showery.	7	Northerly wind and rain.
21	Southerly gale.	8	Strong southerly wind and very cold.
22	Heavy rain; very light wind.	9	S.W. wind and fine weather.
23	North-west wind; thick fog.	10	Northerly wind and thick weather.
24	Westerly wind and fine.		
25	N.E. wind and rain.		
26	S.W. wind with hail squalls.		

\* The reference "thick" refers to the presence of fog or mist reducing visibility.

## Appendix—continued.

## MACQUARIE ISLAND WEATHER.

1910.				
May	11	Northerly, very light; very thick weather. Almost calm.	July 23	Light southerly wind; fine weather; heavy earthquake shock at 1-45 a.m.
	12	Light S.E. wind; thick weather and rain.	24	Strong S.E. wind.
	13	Light northerly wind in morning; strong southerly in afternoon; snow at night.	25	Relief boat "Hinemoa" arrived.
	14	Light N.E. wind; very fine, clear weather.	1911.	
	15	Light northerly wind, calm at times. Strong S.W. wind about 3 p.m. Snow at night.	Jan. 1	Strong N.E. wind.
	16	Westerly gale with rain squall.	2	No remark.
	17	Strong westerly wind with passing showers.	3	S.W. gale.
	18	Easterly wind and rain; very thick weather.	4 to 7	No remark.
	19	Westerly wind and thick.	8	Heavy rain all day.
	20	Easterly wind and thick weather.	9 to 12	No remark.
	21	Westerly wind and rain.	13	Raining nearly all day.
	22	Strong west wind; heavy hail and snow squalls.	14 to 22	No remark.
	23	S.W. gale and heavy snow squalls.	23	Raining all day.
	24	Very light northerly wind and rain.	24 to 31	No remark.
	25	Light N.E. wind; strong westerly wind at night. Rain all day.	Feb. 1 to 6	No remark.
	26	Light northerly wind and clear.	7	N.W., S.W. and westerly winds during day.
	27	Light northerly wind; thick weather.	8	No remark.
	28	Fresh S.W. wind.	9	Northerly wind and thick weather.
	29	Light N.W. wind; very thick at times.	10	Raining all day.
	30	Fresh westerly wind and rain showers.	11	Fine all day.
	31	Light N.W. wind and clear.	12 & 13	No remark.
June	1	Westerly gale with snow squalls.	14	Heavy surf.
	2	S.E. gale; hard frost all day.	15	Raining all day.
	3	S.W. wind; N.W. wind in evening.	16	Blowing hard.
	4 & 5	Strong N.W. wind.	17	Strong southerly wind.
	6	Strong westerly wind.	18	Heavy sea on east coast.
	7	Light northerly wind.	19	Strong N.W. wind.
	8	Strong northerly wind.	20	Strong southerly wind.
	9	Strong northerly wind. Heavy rain at night.	21	Southerly wind.
	10	West wind, later S.W. wind with snow squalls.	22	Westerly wind and strong squalls.
	11	S.W. wind and snow.	23 & 24	Strong west wind.
	12	Strong northerly wind and heavy rain.	25	No remark.
	13	Strong westerly wind and snow squalls.	26	N.W. wind and thick weather.
	14	Strong southerly wind with hail squalls. Heavy frost at night.	27	N.W. wind.
	15	Strong S.W. wind. Lakes frozen over.	28	Raining heavily all day.
	16	Strong southerly wind; cold weather.	March 1	Southerly wind and fine weather.
	17	Thick westerly weather.	2	No remark.
	18	Light westerly wind and very thick.	3	Raining all day.
	19	Northerly wind and thick. S.W. and clear in afternoon.	4	Strong westerly wind.
	20	Westerly wind and fine.	5	Raining all day.
	21	S.W. wind with snow squalls.	6	No remark.
	22	S.W. gale and heavy snow squalls. Hard frost.	7	Raining all day.
	23	Strong S.W. wind.	8	Strong southerly wind.
	24	Light N.W. wind.	9 to 12	No remark.
	25	Very light westerly wind and very thick. Almost calm.	13 & 14	Fine day.
	26	Very light northerly wind; very thick weather. Lakes frozen over. Almost calm.	15 & 16	Fine weather.
	27	Light westerly wind.	17	Thick weather and rain.
	28	Westerly wind, very light. Rain in evening.	18	No remark.
	29	Calm; heavy sea.	19	N.W. gale during day; westerly gale at night.
	30	S.E. wind; heavy sea.	20	Ship arrived at Island. Discharged and loaded vessel till 2nd April. Ship "Huanui" left for New Zealand 3rd April.
July	1	S.E. wind and thick weather; heavy sea.	April 1 to 3	No remark.
	2	Light S.E. wind and thick weather. Heavy sea.	4	Westerly wind.
	3	Light easterly; considerable sea.	5	Westerly wind and thick weather.
	4	Calm.	6	Northerly wind and very thick.
	6	Light northerly wind; frost during day.	7	Northerly and very thick.
	6	S.W. wind and heavy snow; frost.	8	Westerly wind and fine.
	7	S.W. wind and snow squalls.	9	Strong N.W. wind; S.W. at night.
	8	Strong S.W. wind and snow squalls.	10	Strong N.W. wind; considerable sea on east coast.
	9	S.E. gale and snow squalls; very cold; heavy sea.	11	S.W. wind and hail squalls.
	10	Westerly wind with snow squalls.	12 & 13	S.W. wind and fine.
	11	Westerly wind and rain showers.	14	Northerly wind and very thick. Raining all day.
	12	Light westerly wind and rain showers; thick at times.	15	S.E. wind and considerable sea on east coast.
	13	North wind and heavy rain. Heavy snow with S.W. wind in afternoon.	16	S.W. wind and fine.
	14	Very light westerly—almost calm; about 3 feet of snow on flat.	17	N.W. wind and thick weather.
	15	Light westerly wind; rain at night.	18	N.W. wind and thick mist all day.
	16	Strong westerly wind and snow squalls.	19	No remark.
	17	Westerly gale and heavy snow squalls.	20	Westerly gale.
	18	S.W. gale and snow squalls.	21	S.W. wind and fine.
19 to	21	Strong westerly wind and rain showers.	22	Strong N.W. wind.
	22	Westerly wind and rain; thick weather.	23	N.W. wind and rain; S.W. wind at night.
			24	S.E. wind and considerable sea on east coast.

## Appendix—continued.

## MACQUARIE ISLAND WEATHER.

1911.			
April 25	Strong north wind. Very heavy sea on east coast.	July 10	Strong S.W. breeze.
26	Strong N.E. wind; very heavy sea on east coast.	11	Strong southerly breeze and snow squalls.
27 & 28	Light S.E. wind; very heavy sea on east coast.	12	W. wind and snow squalls, and rain.
29	Strong S.W. wind.	13	S.W. wind and snow squalls.
30	Strong S.W. wind and rain showers.	14	Calm and snowing.
May 1	Strong westerly wind and thick weather.	15	Westerly wind, snow and rain.
2	Westerly wind and very thick weather.	16	Strong westerly wind.
3	N.W. wind and very thick weather.	17	Blowing a hurricane; tremendous sea on west coast.
4	Strong N.W. wind.	18	S.W. wind and fine.
5	Westerly wind and rain towards evening.	19	Strong N.W. wind and thick.
6	Westerly wind; heavy rain during last night and this forenoon.	20	N.W. wind and rain.
7	N.W. wind and thick weather.	21	Strong N.W. wind; fine.
8	N.W. wind; strong and occasional rain showers.	22	N.W. wind and rain all day.
9	Strong N.W. wind.	23	N.W. wind and rain; S.W. wind and snow in afternoon.
10	Strong N.W. wind; strong westerly at night.	24	N.W. wind and rain; S.W. wind and snow.
11	Strong northerly wind; heavy rain in afternoon and evening.	25	S.W. wind and fine.
12	Northerly gale in morning; S.W. wind with snow squalls in afternoon.	26	Very light N.W. wind and thick weather.
13	Southerly gale and snow. Frost; about 3 feet of snow on beach.	27	Very light N.W. wind and very thick weather.
14	Strong S.E. wind and snow; rain in morning.	28	Southerly wind in forenoon; calm in afternoon.
15	S.W. wind and heavy snow.	29	Very light westerly wind.
16 & 17	S.W. wind and fine weather.	30	Very light westerly wind.
18	N.W. wind and rain showers.	31	Westerly wind and very fine weather.
19	Westerly wind and fine weather.	Aug. 1	N.W. wind and rain showers.
20 to 22	S.W. wind and fine.	2	N.W. wind and fine.
23	Strong westerly wind.	3	Light N.W. wind; very fine, clear weather.
24	Westerly breeze and very thick.	4	Light southerly wind in forenoon; S.W. wind and snow; squalls later.
25	Very light southerly wind.	5	Strong westerly wind.
26	Light northerly wind and very fine.	6	Strong N.W. wind in forenoon; strong S.W. wind in afternoon.
27	Strong northerly wind and heavy rain all day; very thick weather.	7	Strong N.W. wind; rain showers in evening.
28	Light westerly wind and very fine weather.	8	Light W. wind and fine in morning. Strong N.W. wind and thick in afternoon.
29	Calm and very fine.	9	Light west wind in forenoon; strong S.W. breeze afternoon.
30	S.W. wind and very fine.	10	N.W. wind and rain; very thick weather.
31	Light westerly wind and very fine.	11	Light S.E. wind; S.W. wind towards night.
June 1	Calm and very thick; heavy rain at night.	12	S.W. wind with light snow squalls.
2	Light S.W. weather and very fine.	13	S.W. gale.
3	Light northerly wind and fine; rain towards night.	14	S.W. gale and snow squalls.
4	Northerly wind and rain.	15	Strong north wind and rain.
5	Very light northerly wind and thick weather.	16	Strong westerly wind.
6	Very light northerly wind and heavy rain; very thick; almost calm.	17	Moderate westerly wind.
7	Easterly wind, very light; heavy rain, almost calm.	18	Strong N.W. in morning; strong S.W. wind towards night.
8	N.W. wind and very thick; rain and westerly wind at night.	19	N.W. gale in morning; rain; S.W. gale and snow in afternoon.
9	Calm and very thick; light easterly wind at night.	20	S.W. wind with terrific snow squalls.
10	Light N.W. wind; very thick weather; rain showers.	21	S.W. gale with snow squalls.
11	Light southerly wind; rain showers.	22	Strong westerly wind and rain all day.
12	Calm and fine weather.	23	Fresh S.W. breeze and snow squalls; heavy snow during night.
13	Southerly wind and fine weather.	24	Light S.W. wind; calm at night.
14	S.W. wind and fine.	25	Southerly wind and snow squalls; frosty.
15	Westerly wind and rain.	26	Light westerly wind.
16	Westerly wind.	27	Light S.W. wind.
17	Westerly wind and thick.	28	Light N.W. wind.
18	Light westerly wind and thick.	29	Light southerly wind; very fine.
19	Westerly wind and thick.	30	Light N.W. wind and fine; rain at night.
20 & 21	Westerly wind and fine.	31	Strong N.W. wind and rain.
22	Westerly wind.	Sept. 1	Strong S.W. gale and terrific snow squalls.
23	Southerly wind with snow squalls.	2	Strong westerly wind; strong S.W. wind at night.
24	S.W. wind and hail squalls.	3	N.W. wind and rain; strong S.W. wind afternoon.
25	Westerly wind and fine.	4	Strong S.W. wind.
26	Westerly wind and very thick.	5	Strong southerly wind and hail squalls; very cold weather.
27	N.W. wind and fine weather.	6	N.W. wind and rain; southerly wind and rain in afternoon.
28	S.W. wind and fine weather.	7	Westerly wind and drizzling rain.
29	Westerly wind and thick.	8	Westerly wind; very thick weather.
30	N.W. wind and thick.	9	Light west wind and very thick weather.
July 1	N.W. wind and thick.	10	Light westerly wind; thick weather.
2	Strong N.W. wind.	11	Strong N.W. wind; rain; very thick weather.
3	S.E. wind and snow squalls.	12	S.W. wind and occasional squalls.
4	Strong N.W. wind and rain.	13	Light westerly wind.
5	S.W. wind and snow squalls.	14	Fresh S.W. breeze and snow squalls.
6	S.W. gale and snow squalls.	15	Strong N.W. wind; rain at night.
7	S.W. wind and snow squalls.	16	Light N.W. wind in morning. Strong N.W. and rain in afternoon.
8	N.W. gale and rain.	17	Westerly wind and fine.
9	S.W. gale.	18	Strong S.W. wind and hail squalls.
		19	S.W. wind and snow squalls; frost.

## Appendix—continued.

## MACQUARIE ISLAND WEATHER.

1911.			
Sept 20	S.W. wind and fine weather.	Oct. 31	Strong westerly wind; rain all day.
21	N.W. wind and rain showers.	Nov. 1 & 2	S.W. wind and snow squalls.
22	S.W. wind and fine weather.	3	Strong N.W. wind and rain; very thick all day.
23	Light westerly wind; very thick weather and rain.	4	Very light S.W. wind and very fine weather.
24	Light N.W. wind and fine.	5	Westerly and southerly wind; rain.
25	Light N.W. wind; fine weather.	6	Light S.W. wind and fine weather.
26	Very light N.W. wind and fine weather.	7 to 9	No entry, but ship was being loaded, therefore fine weather.
27	Light N.W. wind and very thick.	10	Light S.E. wind and very heavy surf; light S.S.W. wind in evening.
28	Strong N.W. wind; very thick at times; rain.	11	N.E. wind; sea getting heavier.
29	S.W. wind with snow squalls.	12	N.E. wind; very heavy sea.
30	Southerly gale and heavy snow squalls.	13	E.S.E. wind; very heavy sea.
Oct. 1	N.W. wind.	14	E.S.E. wind; very heavy sea. "Clyde" wrecked.
2	S.W. gale and snow squalls.	15	Light S.E. wind; sea going down fast.
3	Strong S.W. wind and snow squalls.	16	Light N.E. wind and drizzling rain.
4	N.W. wind and rain; S.W. wind towards evening.	17	Calm during day; southerly wind at night.
5	Westerly wind and rain showers.	18	S.W. gale.
6	Strong westerly wind and rain.	19 & 20	No entry.
7	Strong westerly wind.	21	Light S.E. wind and fine weather.
8	Southerly wind and very fine.	22	S.E. wind.
9 & 10	S.W. wind and fine weather.	23	Rough on east coast.
11	Westerly wind and rain.	24	N.W. wind during day; S.W. wind at night; east coast rough.
12	Westerly wind and rain; thick weather.	25	Westerly wind and fine; east coast rough.
13	Westerly wind and fine weather.	26	No remark.
14	N.W. gale.	27	Westerly wind and very thick weather.
15	N.W. wind and S.W. snow squalls in evening.	28	Light S.E. wind and thick weather.
16	Light N.W. wind; snow and rain.	29	Wind, S.W. and N.W.
17	Light westerly wind; S.E. in afternoon; rain and snow.	30	Wind, N.E.—N.W. during day; westerly at night.
18	N.W. wind; S.E. wind at night; swell on east coast.	Dec. 1	Westerly wind; considerable sea on east coast.
19	Strong S.E. wind; heavy sea on east coast.	2	Westerly wind; fine weather; sea on east coast.
20	Light southerly wind and fine weather; swell on east coast.	3	N.W. wind; fine weather; sea on east coast.
21	Light westerly wind; rain all day.	4	Westerly wind and fine weather; sea on east coast.
22	S.W. wind and snow squalls.	5	Strong N.E. wind and rain all day; heavy sea on east.
23	Light S.W. wind; very fine.	6	N.E. wind; very heavy sea on east coast.
24	N.W. wind and fine.	7	N.W. and westerly wind; rain showers; swell on east coast.
25	Strong N.W. wind and rain in morning; S.W. wind and fine in afternoon.	8	N.E. wind before noon; N.W. wind afternoon; swell on east coast.
26	S.W. wind.	9	Light westerly wind; fine weather; sea on east coast.
27	N.W. wind, strong; rain.	10	West and S.E. wind; rough on east coast.
28	N.W. wind and rain.	11	Easterly wind and rough sea.
29	S.W. gale and snow squalls.	12	Very light S.E. wind.
30	S.W. wind and snow.		



FIG. 1.—SHOWING THE DISPOSITION OF THE METEOROLOGICAL SCREEN AT "THE GROTTOS."

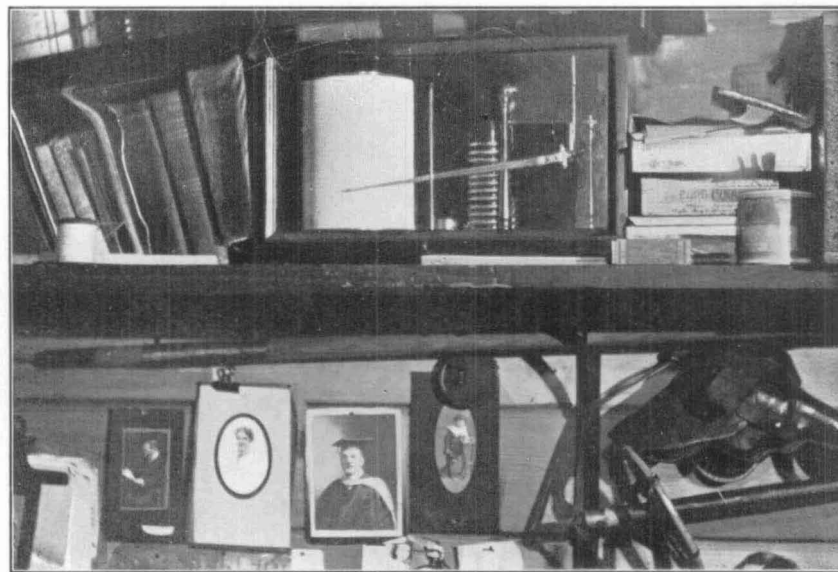


FIG. 2.—THE BAROGRAPH HOUSED ON A SHELF ABOVE MOYES' BED AT "THE GROTTOS."



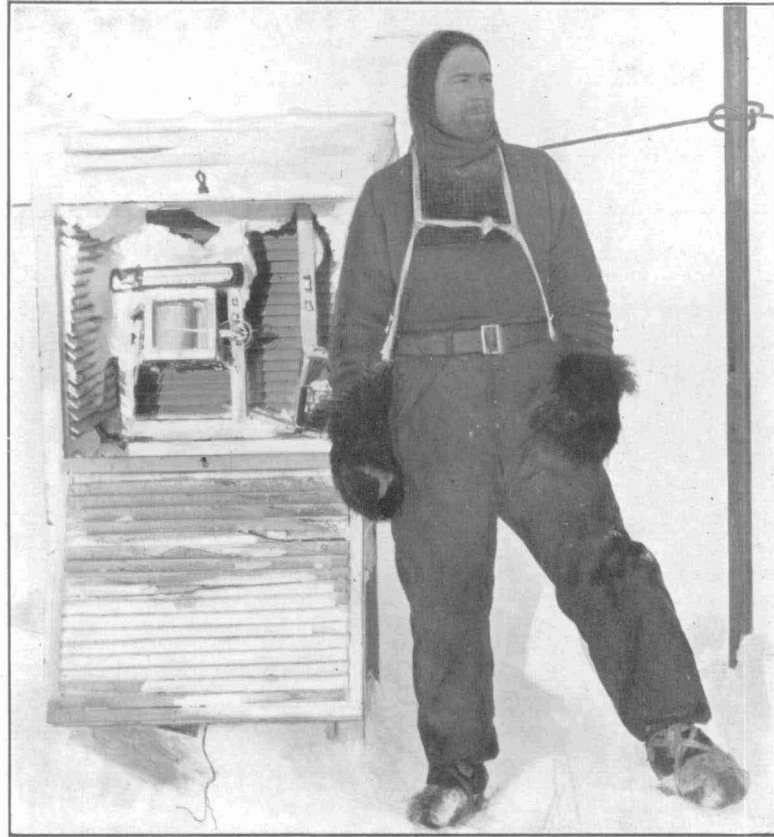


FIG. 1.—M. H. MOYES AND THE METEOROLOGICAL SCREEN AT "THE GROTTOS."



FIG. 2.—CUMULO-NIMBUS CLOUDS CLEARING AWAY AFTER A BLIZZARD NORTH OF THE MERTZ GLACIER TONGUE.

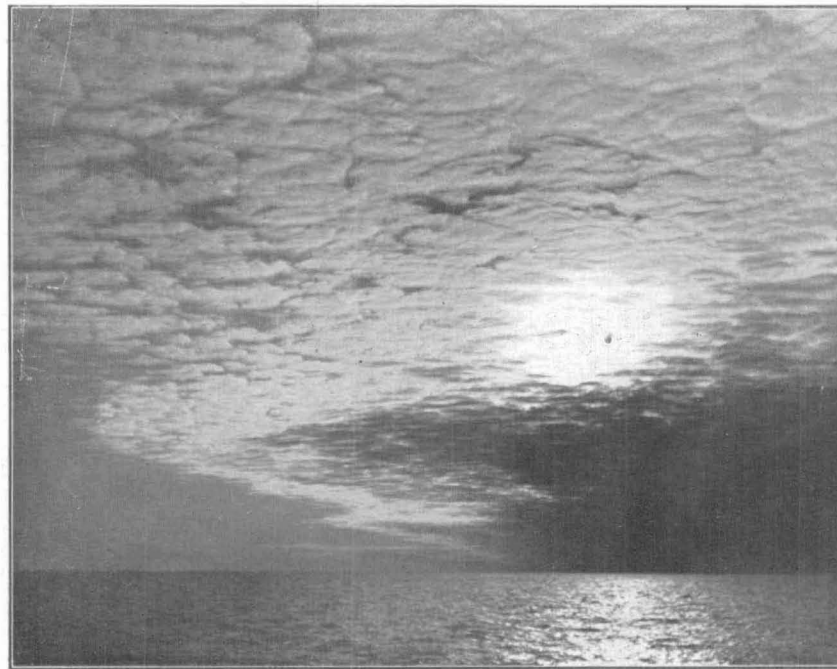


FIG. 1.—CLOUD FORMATION IMMEDIATELY PRIOR TO A BLIZZARD, OFF QUEEN MARY LAND.



FIG. 2.—FLEECY CUMULUS CLOUDS OVER COMMONWEALTH BAY

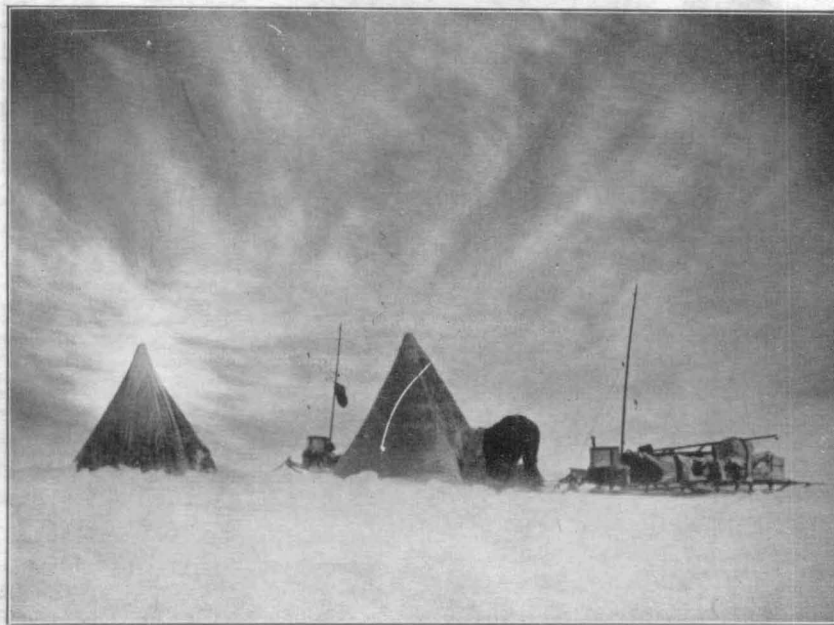


FIG. 1.—MARE'S TAIL CIRRUS CLOUD PRESAGING AN IMPENDING BLIZZARD ON THE PLATEAU INTERIOR OF ADELIE LAND.

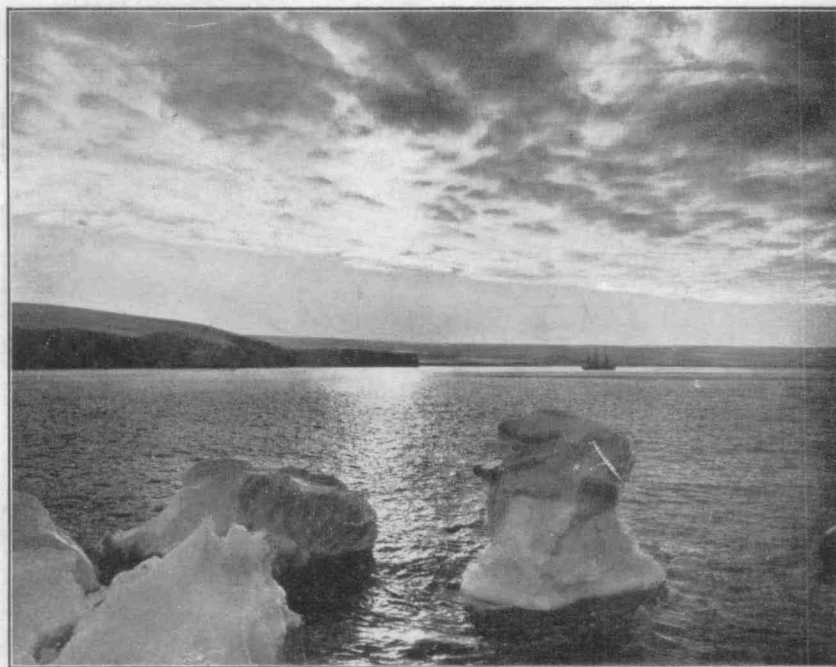


FIG. 2.—A CANOPY OF STRATO-CUMULUS CLOUD OVER COMMONWEALTH BAY, WITH CLOUD-FREE SKY OVER THE CONTINENT TO THE SOUTH.