

HALF-MONTHLY ABSTRACTS OF THE LOG-BOOK OF THE UNITED STATES BRIG ADVANCE.
BAYFIN'S BAY.
APRIL, 1861.

Date	Latitude in at Noon.	Longitude in at Noon.	Variation observed	Current true Direction.	Drift in Hours.	Mean true Direction of the Wind.	Force of the Wind.	Mean Temp. of the Air.	Mean Temp. of Surface of the Water.	Mean Barometer.	Sky and Weather.	Remarks.
1861.												
1	70 37 30 N.	63 42 00 W.	82 94 W.	S. 70 E.*	7	N.N.W.	3	- 6.3	..	30.03	b. m.	* Drift since the 26th ult. Observed a circle, except an arc cut off by the horizon, about the sun when his altitude was 80° 40', its radius 210 30'; upon a line drawn horizontally through the sun were two luminous spots, while a third was seen vertically above it. At this last was the arc of a circle, apparently of the same radius and tangent to it. From the sun and each of the spots in its circle descended columns of light dazzling to the eye. No prismatic colors were visible at the time, although they were seen a short time before up to the horizon. No halos with 310 fathoms. 1 P.M., a bright parhelion visible. Cut a duck formed in September, and found it 7 ft. 2 in. thick.
2	70 36 30	...	...	...	..	N.W. by N.	3	- 4.9	..	30.02	b. m.	For the description of the parhelion, see note at the bottom of the page.
3	70 19 09	...	...	...	..	N. by W.	4	- 4.2	..	29.96	b. c. m.	An appearance in the sky similar and equal in its parts to that described yesterday, but not as bright.
4	70 10 00	63 34 07	...	S. 13° E.*	28	W.S.W.	3	+ 0.8	..	30.07	o. m.	* Drift since the 1st inst.
5	...	...	...	...	..	N.N.E.	2	+ 1.9	..	30.20	o. m.	A lens of water to the southward, 1.5 miles.
6	70 03 33	...	...	...	..	S. by W.	1	- 5.5	..	30.41	b. m.	1 A.M., faint and fleeting aurora visible to the S.E.
7	...	...	...	...	..	S.E. by E.	2	+ 6.5	..	30.41	o. m.	At 9 P.M., an aurora to the south (true). No bottom with 310 fathoms. A small pool of water seen to the southward.
8	70 00 50	63 18 42	79 44 W.	S. 12° E.*	9	S.S.W.	2	+ 2.6	..	30.44	b. c.	* Drift since the 4th.
9	70 02 15	...	...	...	..	S.E. by S.	3	+ 11.8	..	30.34	o. m.	Put a mercurial thermometer in place of the spirit one used since the 6th of February, both agreeing at 11 and 12, but at times differing 5°, mercurial lighter.
10	...	...	...	...	..	S.E. by E.	6	+ 25.5	..	29.71	o. m.	Heavy snow-drift. A crack opening, extending about one mile N.W. and S.E.
11	...	...	...	...	..	S. by E.	4	+ 17.2	..	30.03	o. m.	Opening from N.N.E.
12	...	...	...	...	..	S.S.W.	3	+ 7.5	..	30.57	o. m. e.	Large pool of water to the southward (true). Ice much broken up; openings in every direction.
13	70 12 34	63 02 50	...	N. 25° E.*	13	S.S.W.	2	+ 10.6	..	30.69	b. c. o. m.	* Drift since the 6th.
14	...	...	...	...	..	Variable.	1	+ 14.6	..	31.01	o. m. s.	Pool of water in sight...
15	70 09 00	63 19 52	...	S. 26° W.*	7		0	+ 11.3	..	30.99	b. c. m.	* Drift since the 13th. Position at 4½ P.M. Water in sight.
							2	+ 6.0	..	30.34		Means.

Particulars of the 2d of April.—Mist about the horizon; when the sun had attained the altitude of 40° 31', observed the following: a circle, except the arc intercepted by the horizon, about the sun when his altitude was 80° 40', its radius 210 30'; upon a line drawn horizontally through the sun were two luminous spots, while a third was seen vertically above it. At this last was the arc of a circle, apparently of the same radius and tangent to it. From the sun and each of the spots in its circle descended columns of light dazzling to the eye. No prismatic colors were visible at the time, although they were seen a short time before up to the horizon. No halos with 310 fathoms. 1 P.M., a bright parhelion visible. Cut a duck formed in September, and found it 7 ft. 2 in. thick.