JUNE, 1852.

In Baffin's Bay, working through the Ice on the Eastern Side; Melville Bay, etc.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
June 1	29·920	29·800	29·899	48·0	41·0	45·750	37·166	...	...	...	...	...	...	...	...	...	NNE, NE, calm	0 to 3	bc.
2	·950	30·050	·988	48·0	42·0	45·250	36·333	...	...	...	...	...	...	...	...	...	NNE, calm, ENE	0 to 1	bc.
3	·850	29·900	·850	48·0	40·0	45·750	35·666	...	...	...	...	...	...	...	...	...	ENE, calm	0 to 2	bc.
4	·850	·940	·915	47·0	40·0	43·833	35·958	...	...	...	...	...	...	...	...	...	Calm, NE, NNW	0 to 2	bc.
5	·850	·850	·845	50·0	42·0	47·916	37·291	...	...	...	...	...	...	...	...	...	*NNW, SE, NW*	1 to 5	*bc.bcq.*
6	30·030	·890	·941	39·0	32·5	35·625	36·750	...	...	...	...	...	...	...	...	...	SW, calm, SE	0 to 5	bc.os.
7	29·820	·910	·863	49·0	41·0	43·833	38·208	...	...	...	...	...	...	...	...	...	Calm	0	bc.
8	·680	·500	·541	58·0	48·5	51·583	40·541	...	...	...	...	...	...	...	...	...	E, SE, NNW, NW	2 to 5	bc.bcq.oc.
9	30·080	30·050	30·010	42·0	35·0	37·416	37·833	...	...	...	...	...	...	...	...	...	NW, SE, SE by S	2 to 4	oc.oms.
10	29·000	29·800	29·798	45·0	39·0	41·125	38·416	...	...	...	...	...	...	...	...	...	SE, E by N, ENE, SE	1 to 4	bc.oms.c.
11	29·550	·550	·565	45·0	32·5	38·458	36·041	...	...	...	...	...	...	...	...	...	W, calm, NNE	0 to 5	bc.bcq.
12	·780	·650	·660	39·5	37·0	37·875	36·625	...	...	...	...	...	...	...	...	...	Calm, SE, W, NW	0 to 2	bc.c.
13	·740	·780	·759	41·0	34·0	38·166	38·333	...	...	...	...	...	...	...	...	...	Calm, E, SE, W by N, WNW	0 to 2	c.ocm.
14	·560	·750	·694	38·0	33·0	35·166	37·583	...	...	...	...	...	...	...	...	...	WNW, calm, S	0 to 2	c.oc.bc.ocm.ocs.
15	·440	·450	·453	36·0	33·5	34·583	33·458	...	...	...	...	...	...	...	...	...	S, SSE	2 to 4	ocs.omd.bc.
16	·560	·480	·485	36·5	33·5	34·666	33·125	...	...	...	...	...	...	...	...	...	SW, S, SSW	2 to 3	bc.oms.cos.
17	·550	·600	·580	39·0	34·5	35·875	34·916	...	...	...	...	...	...	...	...	...	WSW, W, calm, E by S	0 to 3	oms.com.
18	·560	·450	·464	36·0	34·0	34·958	32·916	...	...	...	...	...	...	...	...	...	N by E, E, calm, W	0 to 6	bc.oeq.
19	·800	·840	·775	39·0	34·0	35·458	33·083	...	...	...	...	...	...	...	...	...	*W, E*	6 to 2	*oeqs.bc.*
20	30·100	·940	·960	38·0	31·0	33·625	32·666	...	...	...	...	...	...	...	...	...	E, NE, NW, W	2 to 4	com.oeqs.
21	·120	30·120	30·114	34·5	31·5	32·458	31·125	...	...	...	...	...	...	...	...	...	SW, calm, NW, NNW	0 to 3	cos.bc.c.
22	·160	·180	·160	35·0	29·5	31·875	31·166	...	...	...	...	...	...	...	...	...	NNW, calm, NE by N	0 to 3	c.bc.m.
23	·160	·120	·134	33·0	30·0	31·541	31·041	...	...	...	...	...	...	...	...	...	NE, SSW, S	1 to 6	b.f.oem.s.
24	·110	·180	·120	34·0	27·5	31·250	31·166	...	...	...	...	...	...	...	...	...	SSW, NE	1 to 2	bc.bom.bf.
25	·070	·090	·087	36·0	32·0	34·166	33·291	...	...	...	...	...	...	...	...	...	NE, S, calm, W, SW	0 to 2	bf.bc.orm.
26	·070	·070	·077	36·0	35·0	35·583	33·666	...	...	...	...	...	...	...	...	...	SW, S. W, NW	1 to 2	*ocr.c.bc.*
27	29·900	·000	·007	35·5	31·5	33·209	32·666	...	...	...	...	...	...	...	...	...	NW, N, NE, E	1 to 2	bcm.com.
28	·850	29·890	·872	33·0	29·0	31·833	31·583	...	...	...	...	...	...	...	...	...	Calm, NE	0 to 2	ocd.ocm.bcm.
29	·700	·800	·780	38·0	32·5	33·541	32·083	...	...	...	...	...	...	...	...	...	NE, NW, SW	1 to 2	bcm.ocm.
30	·650	·680	·671	38·0	31·5	34·458	32·500	...	...	...	...	...	...	...	...	...	SW	1 to 2	bc.bcm.
Max.	30·160	30·180	30·180	58·0	...	...	40·541	...	...	...	...	...	...	...	...	...	*N* to NE 10	*E* to SE 8	W to SW 5
Min.	29·440	29·450	29·440	...	27·5	...	31·041	...	...	...	...	...	...	...	...	...	N to NW 10	S to SE 4	W to NW 3
Mean	29·844	29·528	29·935	...	...	33·224	34·395	...	...	...	...	...	...	...	...	...	E to NE 9	S to SW 5	Calm . 16

JULY, 1852.

Melville Bay; Baffin's Bay.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
July 1	29·680	29·650	29·664	34·0	31·5	32·666	31·916	...	...	...	...	...	...	...	...	...	SW, SSW	1 to 2	b c m. o m s.
2	·600	·730	·730	35·5	32·0	33·125	31·541	...	...	...	...	...	...	...	...	...	SW	2 to 4	o m s. o c. o c m.
3	·900	·840	·851	37·5	34·0	34·833	31·791	...	...	...	...	...	...	...	...	...	SW, S	2 to 4	o c m. b c. o m s.
4	·880	·890	·878	40·0	35·0	36·333	32·041	...	...	...	...	...	...	...	...	...	South	2	o m s. b c.
5	·670	·720	·746	41·0	34·0	37·375	32·125	...	...	...	...	...	...	...	...	...	South	2	b c.
6	·570	·600	·621	40·0	34 5	36·333	32·791	...	...	...	...	...	...	...	...	...	S, SW	2 to 4	b c. c. c m.
7	·590	·450	·512	36·5	32·5	34·333	33·041	...	...	...	...	...	...	...	...	...	SW, SW by S	4 to 5	c m. c o m.
8	·650	·600	·595	35·0	33·0	34·125	32·291	...	...	...	...	...	...	...	...	...	SW by S, SW	4	c o m. c o r m. s.
9	·550	·630	·617	38·0	34·0	34·958	33·083	...	...	...	...	...	...	...	...	...	SW, SSW	2 to 5	c o m s.
10	·650	·500	·539	37·0	34·5	35·625	34·000	...	...	...	...	...	...	...	...	...	SSW, S, SW	2 to 5	o c m. b c. o e r.
11	·830	·830	·803	36·5	32·5	34·008	33·008	...	...	...	...	...	...	...	...	...	SW, SSW	4 to 5	o m. b m. o.
12	·820	·820	·823	36·0	35·0	35·666	33·458	...	...	...	...	...	...	...	...	...	SSW	4 to 5	o. c d.
13	·900	·850	·863	40·5	30·0	33·909	30·541	...	...	...	...	...	...	...	...	...	S, calm, NNW	1 to 4	o d. c. b c.
14	·940	·910	·917	45·0	35·0	38·208	35·458	...	...	...	...	...	...	...	...	...	NNW, N	1 to 4	b c. b c m.
15	·730	·820	·810	38·5	32·0	35·166	33·625	...	...	...	...	...	...	...	...	...	North	2 to 4	b c m. b c.
16	·830	·750	·764	41·0	32·5	36·791	32·958	...	...	...	...	...	...	...	...	...	N, NNE, NE	1 to 4	b c. b c r.
17	30·000	·920	·917	38·0	34·0	35·750	32·750	...	...	...	...	...	...	...	...	...	NE, S, SW	1 to 3	b c. c o. b c m.
18	·050	30·000	30·015	37·5	34·0	35·791	32·833	...	...	...	...	...	...	...	...	...	SW, calm	0 to 3	b c m.
19	29·900	29·990	29·993	38·0	31·0	34·333	32·666	...	...	...	...	...	...	...	...	...	SW, calm	0 to 3	b c m. c m. b c. b.
20	·780	·820	·813	41·0	34·0	37·750	32·833	...	...	...	...	...	...	...	...	...	Calm, NW, N	0 to 2	b. b c.
21	·750	·700	·723	41·0	33·5	37·500	32·750	...	...	...	...	...	...	...	...	...	N, NW	1 to 3	b c. c. o c g. o c g d.
22	·900	·840	·840	37·0	32·0	34·333	31·541	...	...	...	...	...	...	...	...	...	NW, E, calm	0 to 3	o c g d. o c. o c m. f.
23	·700	·800	·782	38·0	31·0	34·500	32·375	...	...	...	...	...	...	...	...	...	Calm, E	0 to 2	f.
24	·720	·680	·701	38·5	30·5	35·416	32·916	...	...	...	...	...	...	...	...	...	E, calm	0 to 2	f. b c f. b c.
25	·900	·820	·832	42·0	32·5	37·250	33·250	...	...	...	...	...	...	...	...	...	Calm, NE	0 to 1	b c.
26	·960	·910	·919	38·0	31·0	36·041	33·166	...	...	...	...	...	...	...	...	...	NE, E, SW	1 to 3	b c.
27	·950	·960	·970	37·0	33·0	34·208	32·583	...	...	...	...	...	...	...	...	...	SW, W, SW, S	1 to 3	b c. o f. o m. f d. c f.
28	·820	·860	·879	34·0	32·0	33·000	32·300	...	...	...	...	...	...	...	...	...	S, calm, SSW, W, WNW	0 to 3	c f. o m. o f.
29	·850	·820	·818	38·0	29·0	34·083	32·166	...	...	...	...	...	...	...	...	...	WNW, calm, NW, SE	0 to 1	o f. c m. o m d. f.
30	·940	·870	·906	37·0	31·0	33·791	32·250	...	...	...	...	...	...	...	...	...	SE, E, NE, calm, NW, SE	0 to 2	f. b c. o.
31	·810	·880	·868	39·0	34·0	36·083	33·875	...	...	...	...	...	...	...	...	...	NW, calm, NNE, N, S, SW	0 to 3	b c. o. b. o c.
Max.	30·050	30·000	...	45·0	...	...	35·458	...	...	...	...	...	...	...	...	...	N to NE 6 / N to NW 7 / E to NE 3	E to SE 2 / S to SE 7 / S to SW 16	W to SW 3 / W to NW 6 / Calm . 11	
Min.	29·550	29·450	...	...	29·0	...	30·541	...	...	...	...	...	...	...	...	...				
Mean	29·808	29·789	29·797	...	...	35·235	34·837	...	...	...	...	...	...	...	...	...				

AUGUST, 1852.

Part in Baffin's Bay (1*st to* 16*th*), *the remainder in Northumberland Sound* (17*th to* 31*st*).

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
Aug. 1	29·670	29·780	29·749	38·0	3·20	33·666	33·708	...	...	...	...	...	...	...	...	...	W, NW, SW, S, SE	1 to 3	c. c o s.
2	·680	·630	·638	35·0	33·5	34·333	35·333	...	...	...	...	...	...	...	...	...	ESE, ENE, NE	2 to 6	cos. ocq. oqd. s.
3	·680	·670	·648	35·0	34·0	34·416	34·958	...	...	...	...	...	...	...	...	...	N by W, NNE, NE by N	5 to 7	oqs. o c. o q d.
4	·670	·630	·645	37·5	34·5	35·458	34·500	...	...	...	...	...	...	...	...	...	N by W, NNE, NE by N	3 to 7	oqs. oc. bc.
5	·560	·640	·627	37·0	34·5	35·541	35·708	...	...	...	...	...	...	...	...	...	NE, NNE, NW	1 to 5	o c q. c. c d.
6	·500	·500	·511	36·0	33·0	35·500	36·000	...	...	...	...	...	...	...	...	...	W, N, E, ESE	1 to 6	o m s. r. g. f. o f d.
7	·630	·520	·556	37·0	33·0	35·375	34·250	...	...	...	...	...	...	...	...	...	SE, SSW, S, calm, E, ENE	0 to 5	o c q. b c. c.
8	·800	·600	·644	41·0	36·0	36·916	37·625	...	...	...	...	...	...	...	...	...	NNW, NNE, NE, calm, SW	0 to 3	bc.
9	·980	·900	·906	41·0	36·0	37·833	37·208	...	...	...	...	...	...	...	...	...	SW, calm, NW, NE, S, NW	0 to 2	bc. f.
10	·910	·940	·942	38·0	34·0	35·916	35·625	...	...	...	...	...	...	...	...	...	NW by N, NE by N, W, SW	1 to 2	bc r. c. oc.
11	·660	·880	·777	38·0	31·0	34·909	33·227	...	...	...	...	...	...	...	...	...	E, SE, SSW, S, E	1 to 3	bc. c.
12	·700	·660	·659	40·5	34·0	37·541	33·666	...	...	...	...	...	...	...	...	...	NNE, E	2 to 5	oc. bc. beq.
13	·720	·720	·722	45·0	38·0	40·458	35·500	...	...	...	...	...	...	...	...	...	NE	2	bc.
14	·700	·720	·719	42·0	37·0	38·750	34·875	...	...	...	...	...	...	...	...	...	NE, calm	0 to 2	bc. m.
15	·630	·660	·656	40·0	35·0	37·681	35·227	...	...	...	...	...	...	...	...	...	NE by E, E by N	1 to 3	bc.
16	·530	·600	·586	40·0	34·0	36·833	33·750	...	...	...	...	...	...	...	...	...	NNW, E by N, calm, N, S	0 to 2	bc. c.
17	·430	·440	·449	35·0	28·0	31·791	31·208	...	...	...	...	...	...	...	...	...	S, SW, W	1 to 4	oc. c. b. m s.
18	·370	·340	·356	32·5	29·0	30·750	31·083	...	...	...	...	...	...	...	...	...	NW, calm, NE	0 to 3	fs. cs. c o s. m.
19	·500	·460	·455	30·5	22·5	26·300	29·500	...	...	...	...	...	...	...	...	...	NE, N, NW	2 to 5	oc. m. s.
20	·500	·460	·565	31·0	26·0	28·700	29·300	...	...	...	...	...	...	...	...	...	NW, calm, ESE, SSE	0 to 2	cs. c. bc.
21	·950	·880	·883	31·0	23·0	25·708	28·545	...	...	...	...	...	...	...	...	...	SSE, NE, N, NNE	1 to 4	bc. cm. c f.
22	·950	·990	·977	26·0	22·0	24·041	29·833	...	...	...	...	...	...	...	...	...	NE	2	cf. m. bcm.
23	·800	·890	·860	27·0	23·0	24·700	29·850	...	...	...	...	...	...	...	...	...	NE	2 to 4	bcm. cs. o c s.
24	·730	·720	·731	27·5	24·0	25·750	30·500	...	...	...	...	...	...	...	...	...	NE	2 to 3	o c s. s.
25	·860	·800	·830	30·5	21·0	25·375	30·291	...	...	...	...	...	...	...	...	...	NE, SE, SSE, ENE	1 to 3	s. cs. bc.
26	·650	·820	·785	31·0	27·0	27·916	30·416	...	...	...	...	...	...	...	...	...	Calm, E, SE, E	0 to 3	bc.
27	·500	·520	·531	28·5	23·0	26·000	30·375	...	...	...	...	...	...	...	...	...	NE, ESE	2 to 3	c. oc. bc.
28	·870	·720	·700	28·0	22·0	25·250	30·105	...	...	...	...	...	...	...	...	...	NE	2 to 3	oc. bc.
29	·750	·860	·825	27·5	23·0	25·416	30·208	...	...	...	...	...	...	...	...	...	NE, NNE	1 to 3	bc. oc. c. o s.
30	·830	·760	·772	30·0	26·0	27·700	30·250	...	...	...	...	...	...	...	...	...	NW, calm	0 to 1	o s. o m s.
31	·670	·750	·719	31·0	26·0	27·083	30·208	...	...	...	...	...	...	...	...	...	NW, calm	0 to 1	o s. o m s.
Max.	29·950	29·990	...	35·0	...	...	31·208	...	...	...	...	...	...	...	...	...	N to NE 20 / E to SE 7 / W to SW 2		
Min.	29·370	29·340	...	...	21·0	...	28·545	...	...	...	...	...	...	...	...	...	N to NW 11 / S to SE 5 / W to NW 1		
Mean	29·683	29·698	29·695	...	...	26·833	30·111	...	...	...	...	...	...	...	...	...	E to NE 11 / S to SW 6 / Calm 10		

SEPTEMBER, 1852.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
Sep. 1	29·620	29·440	29·444	37·0	18·0	26·416	30·500	...	...	...	...	...	...	...	...	...	NW, calm, ESE, E	0 to 3	os. om.
2	·750	·700	·717	26·0	21·0	22·875	30·125	...	...	...	...	...	...	...	...	...	E, NE	1 to 4	om. og. bc.
3	·800	·780	·791	22·0	22·0	22·000	30·100	...	...	...	...	...	...	...	...	...	East	1	bc.
4	·740	·760	·767	22·0	16·0	18·300	29·944	...	...	...	...	...	...	...	...	...	E, NNE, calm	0 to 4	om.
5	·650	·700	·710	26·5	20·0	21·600	30·500	...	...	...	...	...	...	...	...	...	Calm	0	om. of.
6	·800	·650	·709	28·5	24·0	26·350	30·500	...	...	...	...	...	...	...	...	...	Calm	0	oms. bc.
7	30·100	·920	·928	26·0	19·0	21·636	30·500	...	...	...	...	...	...	...	...	...	Calm	0	bc. c.
8	·100	30·160	30·140	26·0	6·0	15·590	31·000	...	...	...	...	...	...	...	...	...	Calm	0	c.
9	29·980	·000	·013	21·0	4·5	14·791	31·333	...	...	...	...	...	...	...	...	...	Calm, SE	0 to 3	b. o. oc.
10	30·140	·050	·063	16·0	8·0	10·833	30·000	...	...	...	...	...	...	...	...	...	SE, E, calm, S	0 to 3	oc. cs.
11	·162	·170	·174	24·0	17·0	18·588	30·000	...	...	...	...	...	...	...	...	...	N, NW, W	1 to 2	s. c. bc.
12	·010	·102	·081	24·0	20·0	22·181	29·909	...	...	...	...	...	...	...	...	...	W, SSE, SE	2 to 4	c. oc.
13	29·920	29·950	29·950	24·0	22·0	22·875	29·916	...	...	...	...	...	...	...	...	...	SE, S	3 to 5	oc. cq.
14	·760	·820	·808	24·0	19·0	23·000	29·875	...	...	...	...	...	...	...	...	...	S, calm	0 to 2	co. o.
15	30·010	·860	·866	23·5	19·5	21·166	29·750	...	...	...	...	...	...	...	...	...	Calm, SW, S	0 to 6	c. oqs. o.
16	29·860	·980	·944	26·0	21·0	24·950	29·800	...	...	...	...	...	...	...	...	...	S, SW, SW by W	3 to 7	cs. os.
17	·900	·860	·869	24·5	10·0	12·708	29·500	...	...	...	...	...	...	...	...	...	SW by W, SW, WSW, W	3 to 4	os. bc. oc. o.
18	30·062	30·080	30·046	11·0	6·0	8·900	29·500	...	...	...	...	...	...	...	...	...	NW, W, SW	1 to 4	o. oc. o. c.
19	29·990	·030	·015	15·0	12·0	14·055	29·277	...	...	...	...	...	...	...	...	...	NW	1 to 2	o. c. bc.
20	·750	29·900	29·877	20·0	14·0	16·333	29·416	...	...	...	...	...	...	...	...	...	NW, W, SW, S	1 to 4	c. oc m.
21	·900	·800	·813	19·0	10·0	13·181	29·318	...	...	...	...	...	...	...	...	...	SW, WNW, NW	1 to 5	os. oc.
22	·860	·900	·895	11·0	8·0	9·950	29·350	...	...	...	...	...	...	...	...	...	NW, calm	0 to 2	oc. o.
23	·680	·780	·747	17·5	9·0	12·750	29·312	...	...	...	...	...	...	...	...	...	North	2 to 6	c. oc. oc q.
24	·580	·660	·643	18·0	1·0	13·625	29·500	...	...	...	57·5	50·75	...	...	...	...	N, NE	4 to 8	oc q. bc.
25	·680	·640	·644	8·0	·2·0	3·875	29·500	...	...	...	57·6	52·00	...	...	...	...	N, NE	1 to 3	bc.
26	·480	·680	·630	29·5	7·0	17·750	29·500	...	...	...	59·3	51·60	...	...	...	...	E, ENE	1 to 6	bc. c. oc q. oq.
27	·270	·370	·361	32·0	28·0	30·583	29·500	...	...	...	56·3	53·00	...	...	...	...	East	1 to 6	os. b. o. oc.
28	·460	·410	·380	28·0	18·0	21·333	29·500	...	...	...	59·3	54·00	...	...	...	...	S, calm, NE	0 to 7	os. c. bc. oc. bcq.
29	·650	·580	·567	24·0	20·0	22·416	29·500	...	...	...	54·5	50·10	...	...	...	...	NE, SE	5 to 7	bcq. cq. oq.
30	·950	·770	·795	24·0	23·0	23·291	29·500	...	...	...	59·3	53·60	...	...	...	...	SE, S, calm	0 to 6	bcq. oc. c. bc.
Max.	30·160	30·170	...	37·0	...	...	31·333												
Min.	29·270	29·370	...	...	1·0	...	29·277												
Mean	29·820	29·817	29·812	...	...	18·463	29·894												

OCTOBER, 1852.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.		Direction.	Force.	
Oct. 1	29·760	29·990	29·997	24·5	19·0	20·625	29·500	24·5	20·0	19·89	61·00	55·66	...	...	...	...	SE, S	2 to 6	bc. c. o s q.
2	·500	·700	·642	23·0	5·0	12·636	29·500	24·5	5·0	14·18	60·33	54·00	...	...	...	...	S, SSW, calm	0 to 4	o q. b c.
3	·560	·550	·547	9·0	2·0	5·958	29·500	9·0	3·0	6·33	60·33	53·00	...	...	...	...	West	4 to 7	o c. o c q. o c g.
4	·920	·750	·845	7·0	2·0	4·458	29·500	7·0	2·0	4·46	58·33	52·00	...	...	...	...	W, WNW, NW	2 to 6	o g s. b c.
5	·860	·880	·890	7·0	3·5	4·416	29·500	5·3	3·0	4·08	58·66	52·33	...	...	...	...	NW, W.	1 to 2	b c. o s. c.
6	·890	·850	·859	9·0	−7·0	− ·291	29·500	9·0	−6·5	−1·00	57·66	52·33	...	...	...	...	NW, calm	0 to 2	o c. b c.
7	·920	·850	·871	−5·0	−14·0	−9·200	29·500	−11·0	−16·0	−13·75	54·00	48·66	...	...	...	...	NW	2	b c.
8	30·074	30·050	30·054	−2·0	−3·5	−2·500	29·500	11·0	3·0	5·25	50·00	46·00	...	...	...	...	NW, calm, N	0 to 4	c. o. s.
9	·225	·100	·131	−2·0	−4·5	−3·416	29·500	7·0	−3·5	3·52	47·00	43·66	...	...	...	...	N	3	o. o s.
10	·413	·320	·366	6·5	−5·0	−0·166	29·500	12·0	−3·5	5·30	50·66	46·66	...	...	...	...	N, calm	0 to 3	o.
11	·460	·300	·412	6·0	−6·5	−0·875	29·500	23·0	12·0	15·60	51·66	47·33	...	...	...	...	Calm, W, NW, N	0 to 1	o. b c.
12	·310	·460	·395	1·0	−8·0	−4·250	29·500	1·0	−8·0	−4·23	49·00	45·16	...	...	...	...	N, NW	1 to 2	b c.
13	·260	·250	·306	2·0	−7·5	−1·250	29·500	3·5	−8·0	−1·00	47·66	44·00	...	...	...	...	N, NE	2 to 4	o. o c m. b c f.
14	·038	·120	·137	−8·0	−15·5	−11·291	29·000	−5·0	−17·0	−10·16	44·33	41·50	...	...	...	...	NE, calm	0 to 4	b c f. b c. o. m. b.
15	29·932	·050	·028	−17·0	−20·5	−19·500	29·000	−12·0	−22·0	−17·94	41·33	38·83	...	...	...	...	NE, NW	1 to 3	o c. b m. b c m.
16	·760	29·820	29·824	−4·0	−15·5	−8·958	29·000	−3·0	−15·0	8·33	44·00	41·50	...	...	...	...	NW	2 to 3	b c m. c m.
17	·630	·692	·682	−6·0	−8·5	−7·250	29·000	−4·0	−9·5	6·00	48·00	44·66	...	...	...	...	NW, calm, S	0 to 3	c m. o. o m. c.
18	·650	·628	·628	−5·0	−7·0	−6·083	29·000	4·0	8·5	5·60	47·50	45·16	...	...	...	...	S, calm	0 to 3	c. m.
19	·742	·740	·718	2·5	−8·0	−4·379	29·000	0·5	−5·5	2·27	48·33	44·33	...	...	...	...	Calm, NW	0 to 1	m. o m.
20	·872	·840	·840	10·5	1·5	7·458	29·000	11·0	2·0	7·65	53·50	49·50	...	...	...	...	NW, N	1 to 3	o m. b c.
21	·866	·820	·825	13·0	6·0	10·166	29·000	13·5	1·5	9·83	52·50	49·00	...	...	...	...	N, NNE, NE	2 to 5	b c.
22	·900	·780	·810	8·5	−5·0	3·291	29·500	2·5	−6·5	−3·70	49·66	46·66	...	...	...	...	NE, N	1 to 2	b c.
23	30·000	30·012	·995	−4·0	−12·5	−9·125	29·500	−6·0	−10·5	−8·30	44·50	42·16	...	...	...	...	North	1	b c. m.
24	29·990	29·988	·984	−3·5	−7·5	−5·291	29·000	−2·0	7·5	4·42	48·83	46·00	...	...	...	...	N, NW	1 to 2	m. o.
25	·883	·962	·948	0·5	−7·5	−3·291	29·000	1·0	−7·5	−3·00	51·00	48·00	...	...	...	...	N, NW	1 to 2	c. c m.
26	·886	·870	·881	3·0	−8·0	−4·375	29·000	3·0	−8·5	−3·30	47·33	45·00	...	...	...	...	NW	1 to 2	c m. c. o. b.
27	30·184	·950	30·010	−2·5	−6·0	−3·833	29·000	−3·0	−8·5	−4·06	48·00	45·00	...	...	...	...	NW, W	1	b. b c. m. o.
28	·390	30·280	·313	−1·0	−5·0	−2·500	29·000	−1·0	−5·0	−2·62	50·50	46·25	...	...	...	...	West	1 to 2	o.
29	·278	·400	·380	−2·0	−10·0	−5·500	29·000	−2·0	−11·5	−5·87	50·33	45·66	...	...	...	...	W, N, N by W, NE	2	o. b c.
30	·104	29·936	·038	3·0	− 7·0	−1·666	29·000	1·0	−6·0	−2·30	45·33	41·66	...	...	...	...	NE	2 to 6	b c. o sleet, drift, c.
31	·380	30·283	·268	−4·0	−18·0	−12·875	29·125	4·0	18·0	−12·87	47·33	43·83	...	...	...	...	NE, WNW, calm, NNW	0 to 5	c. b.
Max.	30·460	30·450	...	24·5	...	...	29·500	25·0	...	...	61·00								
Min.	29·500	29·550	...	...	−20·5	...	29·000	...	−24·0	...	41·33								
Mean	29·985	29·975	29·965	...	...	−20·211	29·214	...	...	−1·40	50·50								

NOVEMBER, 1852.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shor			Lower Deck.		Lower Deck.			Spirit Room.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.		Direction.	Force.	
Nov. 1	30·436	30·320	30·328	−15·0	−19·0	−17·416	29·166	−21·0	−23·5	−22·60	44·33	40·50	...	...	...	...	WNW, NNE, calm . . .	0 to 2	b.
2	·200	·280	·251	−18·0	−26·0	−22·375	29·000	−18·0	−26·0	−20·20	43·25	39·50	...	...	...	...	Calm, WNW, NW, NNE .	0 to 2	b c. o.
3	·209	·183	·186	−20·0	−26·0	−23·458	29·166	−24·0	−28·0	−24·06	42·16	41·00	...	...	...	...	Calm, NW	0 to 1	b c. b.
4	·300	·270	·269	−20·0	−24·0	−21·875	29·250	−22·0	−27·5	−25·46	42·50	39·50	...	...	...	...	Calm, NW	0 to 2	b.
5	·380	·400	·386	−10·0	−18·0	−12·125	29·250	−10·0	−21·0	−13·80	48·00	44·00	...	...	...	...	NNE, S, SE, calm, NE .	0 to 2	b c. o.
6	·190	·380	·313	−12·5	−27·0	−21·000	29·000	−13·0	−28·0	−17·91	43·50	40·16	...	...	...	...	NE, NNE, N, NW by N .	1 to 5	o. b c. b.
7	·028	29·980	·034	−15·0	−24·0	−18·791	29·000	−10·0	−26·0	−19·27	42·00	39·33	...	...	...	...	NW by N, NNE, calm, N .	0 to 5	m. b. b c.
8	29·736	·884	29·851	− 5·5	−20·0	−14·458	29·166	− 6·0	−19·5	15·84	40·50	37·00	...	...	...	...	NE, NNE, N, NW . . .	4 to 6	b c. c. c m.
9	·851	·650	·714	19·0	−10·0	−2·916	29·500	20·0	−10·0	−4·00	40·33	36·83	...	...	...	...	N, NE, NNE, ENE . . .	4 to 9	c m. o m. m. q m.
10	30·336	·960	30·047	Zero	− 8·0	−3·291	29·500	0·0	−8·0	−0·70	39·00	35·66	...	...	...	...	SE, ESE	9 to 10	q m. m.
11	·534	30·436	·462	1·0	− 1·5	Zero	29·500	1·0	−1·5	0·66	44·00	40·83	...	...	...	...	ESE, SSE	7 to 9	m. q m. c q. o m. o q.
12	·561	·632	·600	3·0	Zero	0·750	29·500	2·5	−4·5	0·70	45·33	42·50	...	...	...	...	SSE	3 to 7	o q. c q m. b m.
13	·256	·320	·337	13·0	− 2·0	5·500	29·500	13·5	−1·0	3·90	47·66	45·00	...	...	...	...	SSE, ESE	3 to 5	b m. b. o. o m.
14	·576	·450	·453	12·5	−10·0	2·916	29·000	13·0	−14·0	−4·20	47·66	45·50	...	...	...	...	SE, SSE	3 to 5	o m. m. b c.
15	·481	·472	·505	6·0	−10·0	−2·708	29·000	10·0	16·0	−4·00	46·33	40·50	...	...	...	...	SE, ENE	2 to 4	b c.
16	·403	·430	·418	18·0	10·0	14·041	29·000	20·0	12·0	14·50	48·66	46·50	...	...	...	...	SE	4 to 6	b c. c. m.
17	·214	·336	·299	19·0	18·0	18·458	29·250	21·0	18·0	19·00	54·33	51·50	...	...	...	...	SE, SSE	2 to 5	m.
18	·120	·262	·185	19·0	17·0	18·166	29·000	18·0	11·0	14·56	54·33	52·33	...	...	...	...	SSE, calm	0 to 2	m.
19	·026	·080	·069	18·0	15·0	16·666	29·000	17·0	12·0	14·37	56·50	53·00	...	...	...	...	SSE, SE	2 to 5	m.
20	29·770	29·852	29·847	17·0	16·0	16·500	29·500	17·0	15·0	16·21	55·33	52·83	...	...	...	...	SE, ESE, SSE	4 to 5	m.
21	·750	·620	·664	16·5	− 7·0	5·375	29·000	17·0	− 9·0	3·00	50·00	47·66	...	...	...	...	SSE, SE	5 to 6	m. c.
22	·800	·914	·875	−2·0	−10·0	−6·750	29·250	−5·0	−12·5	−9·85	49·50	46·00	...	...	...	...	SSE, SE	4 to 6	m. b c.
23	·730	·700	·718	−3·0	−11·0	−6·833	29·000	−1·5	−10·5	−7·60	46·83	43·50	...	...	...	...	SE, ENE	4 to 5	b c.
24	30·051	·880	·895	−3·0	−10·5	−7·041	29·333	−5·0	−11·0	−9·85	48·50	45·50	...	...	...	...	ENE, N, NW, N by W .	1 to 4	b c. m. o.
25	·130	30·120	30·115	2·0	− 7·0	−2·291	29·500	0·0	− 7·0	−3·63	47·66	45·00	...	...	...	...	N by W, NW, SSE, SE .	0 to 2	o. b c.
26	·050	·120	·108	3·0	− 6·0	−0·833	29·875	0·5	−11·0	−5·50	48·66	46·16	...	...	...	...	Calm, SE, E, ENE . . .	0 to 5	b c. b. o. c.
27	29·702	29·883	29·853	4·0	− 2·0	1·833	29·500	4·5	− 1·5	1·00	50·00	47·33	58·00	30·50	...	...	ENE, NE	5	c. o.
28	·500	·508	·537	− 3·0	−21·0	−13·458	29·333	− 1·5	−22·0	−14·80	47·66	44·50	50·33	31·00	...	...	NE, NW	4 to 5	o. o q. b c.
29	·685	·584	·606	−20·0	−24·0	−22·125	29·325	−24·0	−26·5	−24·69	43·33	41·00	46·33	30·50	...	...	NW, W	3 to 5	b c. o.
30	·840	·810	·777	−20·0	−28·0	−24·208	29·250	−20·0	−29·5	−27·50	40·00	38·00	45·00	30·50	...	...	W, NW, WNW	2 to 3	b c. o.
Max.	30·576	30·632	...	19·0	...	...	29·875	21·0	...	...	56·50								
Min.	29·500	29·508	...	...	−27·0	...	29·000	...	−29·5	...	39·00								
Mean	30·027	30·090	30·090	...	...	−4·498	29·253	...	...	−6·64	49·93								

DECEMBER, 1852.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.											Winds.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.		Lower Deck.			Spirit Room.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.		Direction.	Force.	
Dec. 1	29·962	29·910	29·913	−26·500	−32·000	−28·708	29·000	−29·0	−34·5	−34·10	41·66	39·50	45·33	...	..	30·50	WNW, N	3	o. bc.
2	·990	30·000	·990	−18·500	−35·000	−29·791	29·166	−17·0	−34·0	−33·38	42·33	40·00	45·33	...	..	32·00	Calm, NW	0 to 3	b. bc.
3	30·041	·018	30·048	−17·500	−29·000	−23·166	29·000	−16·0	−31·5	−26·77	44·66	39·36	42·66	...	..	31·00	Calm, ENE, WNW	0 to 2	bc.
4	·014	·070	·055	−30·000	−35·000	−32·666	29·000	−31·0	−35·0	−35·23	53·00	50·33	48·33	...	...	32·00	WNW, NWN, calm	0 to 2	bc. b.
5	·060	·050	·049	−29·000	−32·000	−30·958	29·300	−29·0	−35·5	−33·81	46·16	44·00	47·00	...	...	32·00	Calm, WNW, NE	0 to 1	b.
6	29·950	·100	·040	− 9·000	−30·000	−15·916	29·000	− 9·5	−34·4	−18·36	44·66	42·00	47·66	...	...	32·00	NE	1 to 7	b. bc. o.
7	·896	29·914	29·916	− 7·000	−18·000	− 9·916	29·000	− 6·0	−18·7	−12·00	44·00	42·16	47·83	...	...	32·50	NE, N by E, WSW	2 to 7	o. b.
8	·900	·890	·898	−19·500	−31·000	−25·541	29·000	−19·0	−35·1	−27·50	39·00	36·75	42·00	...	...	32·00	WSW, WNW	2 to 4	o. b.
9	·841	·861	·867	−30·000	−34·000	−32·250	29·000	−30·0	−37·5	−35·37	42·75	39·25	45·83	...	...	31·50	WNW	2 to 4	o. b.
10	·928	·910	·933	−26·000	−33·500	−30·458	29·000	−30·0	−38·0	−35·80	40·33	37·33	45·00	...	...	30·00	WNW, NW	2 to 5	b.
11	·870	·950	·916	−29·000	−32·000	−31·125	28·750	−30·0	−37·0	−34·00	44·00	41·33	45·50	...	...	30·50	WNW, NE, ENE	2 to 3	b. bc.
12	·930	·882	·897	−30·000	−37·500	−32·583	28·500	−31·8	−40·0	−36·46	43·16	40·33	44·83	...	...	30·50	WNW, NW, calm	0 to 5	b. bc.
13	·850	·950	·913	−31·500	−38·000	−34·583	29·000	−34·3	−40·3	−38·46	41·33	38·83	44·33	39·00	43·00	30·00	NW, WNW, calm	0 to 4	bc.
14	·942	·824	·864	−25·000	−36·000	−31·916	28·833	−24·8	−36·3	−32·80	43·00	40·83	44·66	37·58	41·50	30·00	WNW, calm, ENE, NNE	0 to 5	bc. b.
15	30·362	30·101	30·194	−32·000	−37·000	−34·625	28·833	−31·8	−42·0	−36·80	45·50	44·33	45·75	40·75	41·00	30·00	NE, W by S, calm, NWN	0 to 2	b.
16	·440	·483	·455	−34·000	−39·000	−36·666	28·833	−34·8	−42·0	−38·13	48·33	47·00	47·16	44·00	41·08	31·00	N, calm, NW	0 to 2	b. bc.
17	·052	·276	·216	−30·500	−37·000	−34·125	29·000	−31·8	−43·5	−37·19	43·50	42·66	44·66	42·16	41·66	30·00	Calm, E, SSW	0 to 5	bc. b eq. c.
18	·080	29·980	·066	−28·000	−31·000	−29·750	29·000	−27·8	−31·0	−31·25	44·16	43·33	45·40	41·50	41·60	30·00	SSW, SSE, SE	5 to 7	c. m. bc. o.
19	·180	30·120	·126	−26·000	−27·500	−26·916	29·000	−26·0	−28·6	−27·25	46·16	45·00	45·75	43·50	43·41	31·00	SSE, SE, S	6 to 7	m. b em. bc. b.
20	·206	·200	·192	−25·000	−29·000	−27·791	29·000	−26·5	−31·3	−28·17	47·50	46·33	46·25	43·41	42·66	30·00	SE, SSE	1 to 5	b. bcq. bc.
21	·150	·162	·159	−29·000	−39·000	−34·291	29·000	−32·0	−37·0	−33·30	48·00	47·00	46·66	44·00	44·83	31·00	SSE, ESE, WNW, NNE	1 to 2	bc. b.
22	·020	·120	·110	−31·000	−36·000	−34·875	29·000	−36·0	−39·4	−37·70	44·33	42·16	44·66	40·83	44·50	31·00	NNE, E, NW	1 to 2	b. bc.
23	29·570	29·720	29·720	−32·000	−39·000	−35·708	29·000	−37·0	−40·8	−38·75	49·50	48·25	47·25	44·33	39·50	30·00	NW, calm, S	0 to 2	bc. b.
24	·630	·613	·598	−21·000	−39·500	−29·958	29·000	−23·0	−36·0	−32·00	48·66	47·66	53·16	48·00	50·50	30·00	SSW, calm	0 to 2	b. bc.
25	·874	·700	·766	−18·000	−34·500	−24·291	29·000	−17·0	−36·8	−25·50	51·00	49·25	48·83	44·58	42·50	30·00	Calm, ENE, WNW	0 to 2	bc. b.
26	30·020	·960	·961	−33·000	−37·000	−35·541	29·000	−36·0	−40·2	−39·75	48·00	46·33	47·25	44·50	45·25	30·00	WNW, calm, NNE, NNW	0 to 1	bc. b.
27	29·933	30·020	·994	−36·000	−39·000	−37·416	28·833	−37·0	−42·5	−39·66	51·83	49·66	50·50	46·83	47·50	30·00	NNW, NW, calm	0 to 1	b. bc.
28	·652	29·722	·723	−27·000	−41·000	−33·291	29·000	−29·0	−44·3	−35·35	50·75	49·25	50·33	47·58	47·66	30·00	Calm, SE	0 to 6	bc. b em. bcq. m q.
29	·488	·650	·604	−26·000	−30·000	−27·333	29·000	−26·0	−32·5	−27·15	50·00	48·33	50·16	47·41	45·33	31·00	SE, ESE	1 to 6	mq. om. cm. bcq.
30	·332	·390	·382	−29·000	−33·000	−31·250	29·000	−32·0	−34·4	−33·12	46·16	45·00	45·83	44·41	46·58	31·00	S, SSE, SW	2 to 5	bc. bcq. eq. bc.
31	·362	·280	·317	−29·000	−31·500	−29·916	29·000	−29·5	−35·8	−31·57	48·00	46·66	51·16	46·91	49·83	31·00	SE, ESE	1 to 4	bc. eq. m.
Max.	30·440	30·483	...	− 7·000	...	...	29·300	− 6·0	...	...	53·00	...	53·16	48·00	50·50	32·50			
Min.	29·332	29·280	...	...	−41·000	...	28·500	...	−46·7	...	39·00	...	42·00	39·00	39·50	30·00			
Mean	29·990	29·929	29·922	...	...	−30·107	29·000	...	...	−35·51	45·85	...	47·32	43·75	44·15	30·75			

JANUARY, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.							
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.	Spirit Room.	Direction.	Force.	
Jan. 1	29·424	29·364	29·380	−24·0	−29·0	−26·500	28·75	−23·5	−31·5	−27·00	46·00	44·50	51·33	49·00	54·91	32·00	SE, ESE	1 to 3	m. oq. c.
2	·458	·436	·439	−19·0	−24·0	−22·125	29·00	−20·0	−26·0	−22·33	51·00	50·00	50·33	47·58	43·66	32·50	SE, NE, ENE, NW	1 to 3	c. cm. co.
3	·700	·584	·599	−23·0	−36·5	−30·208	29·00	−26·0	−42·0	−34·80	50·16	46·00	49·00	47·33	45·91	32·00	NW, NE, calm	0 to 2	mc. c. bcm. bc.
4	·810	·760	·757	−37·0	−44·0	−39·416	29·00	−42·5	−48·0	−45·08	50·00	49·30	46·50	44·83	45·83	32·00	Calm, NW, NNW	0 to 1	bc. b.
5	·790	·822	·808	−42·0	−49·0	−45·666	29·00	−47·0	−51·5	−49·02	47·50	46·50	46·33	41·83	43·75	31·50	NW, calm, W	0 to 1	b. bc. m. c.
6	·734	·702	·712	−34·5	−48·0	−37·958	29·00	−37·0	−49·0	−38·01	...	...	42·83	39·83	39·66	31·00	NW, calm, W	0 to 1	b. c. m. c.
7	·962	·854	·863	−38·5	−42·5	−40·166	29·50	−39·0	−47·5	−43·00	...	...	44·66	42·91	42·33	30·00	NW	1	bc. b.
8	30·074	30·050	30·034	−40·0	−46·0	−43·208	29·50	−46·5	−50·0	−47·97	...	...	46·25	44·00	46·50	31·00	NW, WNW, WSW, SW	1 to 4	b. bm. c. bc.
9	·020	·082	·042	−42·0	−56·0	−51·750	29·50	−49·5	−56·0	−54·17	...	...	45·00	43·83	44·25	31·00	SW, calm, ENE	0 to 1	c. bc. b.
10	29·954	·014	29·994	−46·0	−57·0	−54·291	29·50	−50·5	−59·5	−54·30	...	...	46·66	43·91	41·75	31·00	ENE, calm, NE, NNE	0 to 1	b. bm. bc.
11	·808	29·822	·798	−52·0	−56·5	−54·625	29·50	−53·5	−59·5	−56·25	...	...	47·66	45·16	42·66	30·00	Calm, NE	0 to 1	b. bc. bm.
12	·783	·850	·834	−43·0	−57·0	−50·875	29·00	−45·0	−62·5	−54·23	...	...	49·50	47·00	46·16	29·50	Calm, NNW, SSE, SW	0 to 2	bm. b.
13	·936	·822	·826	−42·0	−47·5	•44·791	29·00	−46·0	−50·0	−48·00	...	...	47·00	46·08	46·66	29·50	SSE, SE, calm, S, SW	0 to 2	bm. bc. m. b.
14	30·346	30·206	30·210	−37·0	−52·0	−46·875	29·00	−42·0	−52·0	−47·65	...	...	47·75	46·00	49·00	29·00	SSE, calm, N	0 to 1	b. bc. b. m.
15	·024	·312	·228	−19·0	−44·0	−31·000	29·00	−17·0	−49·0	−36·90	...	...	48·83	47·91	45·33	29·50	N, calm, SW, SE	0 to 6	b. oc. bm. oq.
16	29·812	29·760	29·748	− 9·0	−17·0	−13·708	29·00	−12·0	−15·0	−12·96	42·50	41·50	48·50	44·41	47·25	29·00	SE, SSE, E	6 to 8	oq. q. cq. ccq.
17	·760	·643	·668	−13·5	−36·0	−22·125	29·00	−13·0	−35·0	−24·75	48·50	47·00	50·16	46·83	47·83	29·00	E, SE, SSE, calm, S	0 to 6	oq. ocq. om. o. co.
18	·740	·754	·756	−25·0	−40·0	−31·541	29·00	−27·0	−40·0	−33·70	46·90	45·50	46·91	46·66	49·58	29·00	Calm, S, WNW, NNE	0 to 3	om. b. bm. bc.
19	·568	·650	·646	−27·0	−39·0	−35·416	29·00	−31·7	−41·0	−36·45	46·56	45·03	47·00	46·16	46·50	29·00	NNE, SW, WSW, calm	0 to 2	bc. bm. b. ob.
20	·562	·540	·548	−36·0	−46·0	−40·916	29·00	−37·5	−47·5	−43·75	45·33	44·00	46·67	46·58	47·58	29·50	NE, S by E, S, NW, W	1 to 5	bc. b. bmq.
21	·500	·553	·539	−38·0	−46·0	−41·708	29·00	−40·0	−50·0	−44·36	46·00	44·06	43·83	41·33	42·66	29·00	NNW, NW, WNW	2 to 5	bmq. bcq. cq. o.
22	·652	·521	·545	−42·0	−47·0	−44·541	29·00	−40·0	−51·0	−47·63	47·80	45·53	44·91	42·66	42·83	28·50	WNW, NW, W, WSW	1 to 3	bcm. b. bb. bm.
23	·850	·740	·682	−37·0	−49·0	−41·166	29·00	−39·0	−52·0	−47·12	42·50	40·75	44·33	42·91	44·33	29·50	NW, NE, calm, NNE, S	0 to 6	bc. obc. b. oq.
24	30·140	30·056	30·055	−33·0	−41·0	−36·791	29·00	−32·0	−42·0	−37·20	45·60	43·60	45·58	43·08	42·33	28·50	S, SW, SW by S, SSW, SSE	5 to 7	oq. ocq. bm.
25	29·768	29·880	29·878	−30·0	−44·0	−35·166	29·00	−31·5	−41·5	−35·87	44·80	43·16	45·33	42·83	39·41	28·00	SSE, SE, calm, NE	0 to 7	oq. oc. bm. om. bc.
26	·730	·742	·739	−45·0	−67·0	−45·541	29·00	−41·5	−48·0	−45·33	45·63	43·73	46·16	43·50	41·50	29·00	NE, calm	0 to 1	bc. oc. b.
27	·532	·690	·645	−36·0	−45·0	−39·083	29·00	−39·0	−45·0	−41·19	44·10	42·25	45·41	44·16	43·41	29·00	S, calm, N, W	0 to 3	b. bc. co. bcm.
28	·572	·576	·567	−32·0	−37·0	−35·916	29·00	−34·0	−40·0	−38·22	44·06	42·40	44·00	41·80	42·66	29·00	W, NW, W, WNW	1 to 3	bco. co. bm. bc. c.
29	·268	·246	·283	−23·0	−38·0	−29·791	29·00	−21·0	−42·5	−29·80	46·40	44·80	46·75	44·16	44·16	29·00	WNW, S, calm, NW, N	0 to 4	c. cm. om. omc. bc.
30	·300	·400	·366	−35·0	−44·0	−38·125	29·00	−35·0	−49·0	−42·88	47·90	45·90	46·00	44·50	44·50	29·50	N, NW, NE, W, SE	1 to 2	bc. com. bcm. bm.
31	·716	·400	·482	−28·0	−37·0	−33·166	29·00	−26·5	−37·8	−32·41	46·60	44·85	45·16	43·41	44·16	29·00	SE, SSE, SSW, ENE	1 to 4	com. om. o. bcm.
Max.	30·346	30·312	...	− 9·0	...	...	29·50	−12·0	...	...	51·00	...	51·33	49·00	54·91	32·50			
Min.	29·368	29·246	...	...	−57·0	...	28·75	...	−62·5	...	42·50	...	42·83	41·33	41·50	28·00			
Mean	29·743	29·737	29·736	...	...	−38·162	29·01	...	...	−40·00	...	...	46·66	44·20	44·81	29·84			

FEBRUARY, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.					Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mea Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
Feb. 1	29·913	29·932	29·913	−29·0	−40·0	−32·916	29·0	−28·0	−46·0	−36·40	48·60	46·60	48·16	45·00	47·00	28·00	ENE, NNE, NE, NW, N .	1 to 3	b. bm. bc.
2	30·050	30·020	30·004	−30·0	−40·0	−36·083	29·0	−30·5	−45·0	−39·02	48·60	46·60	48·00	44·91	44·66	28·00	NE, N, calm, E by N . .	0 to 2	bc. b.
3	·300	·050	·127	−26·0	−41·0	−35·041	29·0	−28·5	−45·0	−37·48	46·66	45·13	47·66	44·75	43·50	29·00	N, N by W, NE, calm, SE	0 to 2	bc. bm. om. oms.
4	·670	·574	·576	−20·0	−30·0	−25·833	29·0	−19·0	−28·5	−25·75	49·00	46·80	47·66	45·83	44·16	28·00	SE, NNE, N, NE . . .	1 to 3	com. bcm. c. bm.
5	·490	·650	·617	−17·0	−33·0	−22·208	29·0	−15·0	−35·0	−22·00	51·06	48·66	50·33	47·91	46·58	27·50	NE, N, ENE, N by E, NNE	1 to 3	b. c. bmc. co. bqm.
6	·100	·182	·243	−22·0	−33·0	−27·206	29·0	−22·5	−34·5	−28·83	48·66	47·25	47·25	45·08	45·83	28·00	ENE, NW, NE, WSW, NNW	1 to 2	bm. bc. om. co.
7	·354	·220	·248	−23·0	−30·0	−25·333	29·0	−24·0	−32·0	−26·85	50·40	48·16	49·16	46·66	46·33	28·00	NNW, SSE, S, E, calm .	0 to 2	om. co. bcm. bm.
8	·328	·300	·317	−25·0	−28·0	−26·375	29·0	−23·0	−32·0	−28·87	48·66	46·40	52·00	47·91	46·58	27·50	S, calm, NE, SE, SSE . .	0 to 3	bc. c. bc. bcm.
9	·300	·350	·331	−21·0	−39·0	−30·375	29·0	−27·0	−40·0	−32·92	47·10	44·25	47·83	46·91	44·08	27·00	SSE, SE by S, NE, NNE .	1 to 2	oc. bc. bm. b.
10	29·892	·061	·042	−28·0	−39·0	−34·000	29·0	−27·5	−43·0	−36·21	46·00	43·83	45·83	43·41	44·66	28·00	Calm, NE, N by W, NW, N	0 to 7	b. bc. bco. coq.
11	30·120	29·710	29·838	− 5·5	−28·0	−18·250	29·0	− 5·0	−32·0	−19·60	44·45	42·33	45·08	43·83	45·83	28·00	N, NE, SE, SSE	3 to 7	bcq. og. coqs. oq.
12	·260	30·294	30·272	− 4·0	−15·0	− 9·958	29·0	− 2·0	−16·0	− 9·85	50·40	47·26	47·00	47·00	44·66	28·00	SSE, SE, E, calm, NE . .	0 to 5	bc. bm. obc. bcm.
13	·260	·280	·261	− 2·0	−20·0	− 8·041	29·0	2·5	−21·5	− 8·94	49·86	46·50	48·00	46·66	48·00	28·00	NE, calm	0 to 6	oq. coq. oc. bcq.
14	·396	·361	·333	− 1·0	−21·0	−17·541	29·0	0·0	−23·5	−14·27	48·46	45·26	46·50	47·16	47·66	28·00	NE, NW	1 to 6	bcq. ocg. bc. oq.
15	29·684	·114	·002	Zero	−30·0	−12·083	29·0	− 1·0	−32·0	−14·42	49·50	46·23	45·66	46·00	47·66	28·00	NE, E, ENE, NW, W by N	0 to 8	bcq. cq. coq. bq.
16	30·014	29·760	29·818	−27·0	−32·0	−29·416	29·0	−28·0	−34·0	−31·00	47·83	42·93	46·50	47·16	47·16	27·00	Calm, NW, SW	0 to 2	com. bc. b. bcm.
17	·272	30·182	30·202	−23·0	−31·0	−26·083	29·0	−22·5	−36·0	−27·00	48·08	44·53	48·00	46·83	47·50	27·00	Calm, SSE, SE	0 to 4	os. oc. bcm. bc.
18	·204	·274	·247	−17·0	−22·0	−18·916	29·0	−17·0	−22·0	−19·70	49·70	46·00	47·00	46·16	47·00	27·00	SE, ESE, S, calm	0 to 4	bcq. ocq. bc.
19	·144	·100	·107	−15·0	−20·0	−17·000	29·0	−15·0	−21·0	−17·08	47·76	45·20	48·50	45·50	44·83	26·50	Calm, W by N, calm, S, SW	0 to 3	bc. c. bcm. oc.
20	·590	·360	·382	−24·0	−43·0	−37·166	29·0	−21·5	−44·5	−37·54	45·86	42·53	45·91	43·00	46·66	26·00	SW, W, NW, E, calm . .	0 to 2	bc. c. cm.
21	29·972	·390	·255	−32·0	−44·0	−40·083	29·0	−39·0	−45·5	−42·38	44·53	41·13	42·75	40·50	42·33	25·50	Calm, N by E, W, NW . .	0 to 3	bc. c. oc. bm.
22	·642	29·650	29·684	−28·0	−42·0	−38·125	29·0	−36·0	−43·0	−40·75	44·70	42·16	42·66	41·08	41·36	25·00	N, NNW, NW, calm, SSW	0 to 2	bc. oc. bm.
23	·760	·758	·736	−30·0	−37·0	−34·666	29·0	−34·0	−40·0	−37·56	47·86	44·40	43·66	43·50	42·16	32·00	SSW, calm, NW	0 to 1	bc. b.
24	·782	·854	·821	−29·0	−40·0	−35·500	29·0	−25·0	−41·0	−37·00	45·73	42·60	43·66	41·00	43·83	32·00	Calm, NE	0 to 2	bc.
25	·631	·624	·645	−34·0	−41·0	−37·250	29·0	−34·0	−42·0	−38·02	47·20	43·43	43·16	42·66	44·66	32·00	Calm, SW, NW, N, WNW	0 to 4	bc. cm. bo. bcm.
26	·928	·880	·850	−36·0	−41·0	−39·333	29·0	−37·0	−47·0	−42·00	45·83	42·20	44·00	42·16	45·00	33·00	W, NW, calm, SSE, S . .	0 to 4	bc. c. bcm. com.
27	·923	·890	·916	−37·0	−41·0	−38·750	29·0	−37·0	−42·5	−39·02	45·50	42·00	44·40	44·16	41·33	32·00	S, SE	2 to 4	bc, co. bm. cm.
28	30·130	30·010	30·037	−34·0	−40·0	−35·750	29·0	−34·0	−44·0	−37·77	46·96	43·76	42·00	42·66	45·25	35·00	SE, S, S by W, calm . . .	0 to 3	c m. b cm. oc. b.
Max.	30·670	30·650	30·617	− 2·0	...	...	29·0	2·5	...	...	51·06	...	52·00	47·91	48·00	35·00	... ...	8	
Min.	29·631	29·624	29·645	...	−44·0	...	29·0	...	−47·0	...	44·43	...	42·00	40·50	41·33	25·00			
Mean	30·108	30·098	30·101	...	...	−28·045	29·0	...	...	−29·58	47·67	...	46·37	44·83	45·29	28·54	... ...	3·93	

MARCH, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.					Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
Mar. 1	29·980	30·120	30·085	−25·0	−43·0	−33·625	29·00	−24·0	−43·0	−34·85	42·73	39·30	40·00	40·08	43·16	34·0	Calm, N, SE, SSE	0 to 9	b.c.oc b.oc g.og.
2	·916	29·804	29·867	−19·0	−40·0	−24·625	29·00	−16·0	−35·5	−22·60	41·90	39·83	38·00	39·91	44·33	34·0	SSE, SE, S, SW, WNW	2 to 8	oq.oc.bc.bcm.
3	29·310	30·106	30·133	−43·0	−50·0	−44·750	29·00	−37·0	−49·0	−46·27	40·96	39·73	39·00	39·25	47·50	34·0	WNW, NW, SW, W	1 to 3	bcm.bc.b.bm.
4	·222	·222	·242	−45·0	−53·0	−49·416	29·00	−47·5	−57·5	−52·83	41·50	39·90	44·50	41·50	39·91	33·0	NW, WNW, calm, W	0 to 2	bc.bcm.b.
5	·254	·270	·251	−47·5	−53·0	−50·125	29·00	−49·5	−55·8	−52·29	41·13	39·50	42·16	39·33	38·33	33·0	Calm, NW, WNW, NNE	0 to 2	bc.bcm.oc.c.bm.
6	·024	·230	·163	−28·0	−51·5	−45·208	29·00	−48·0	−55·5	−51·96	39·70	38·25	42·83	39·66	38·83	33·0	NW, S, calm	0 to 2	bc.bm.
7	·300	29·940	·027	−36·5	−45·0	−37·958	29·00	−38·5	−46·0	−41·54	44·76	43·26	43·00	42·66	41·25	34·0	Calm, N	0 to 2	bc.bm.cm.om.b.
8	29·976	30·050	·033	−31·0	−40·0	−35·250	29·00	−31·5	−40·5	−36·83	47·46	45·36	44·66	44·66	43·66	34·0	Calm, NE, N, ENE	0 to 2	bc.b.bm.bcm.
9	30·000	29·990	29·990	−30·0	−38·0	−34·833	29·00	−29·5	−40·0	−35·08	48·50	46·05	45·16	44·66	43·66	34·0	ENE, NNE, calm, NW, NE	0 to 3	bc.bm.
10	29·916	·950	·938	−37·0	−42·0	−39·000	29·00	−34·0	−45·0	−39·94	46·83	44·43	41·66	44·50	47·50	34·0	NW, N, W, calm	0 to 3	bc.
11	30·110	30·028	30·021	−32·0	−42·0	−36·750	29·00	−34·5	−40·5	−38·13	47·33	45·23	47·50	43·83	43·33	33·0	Calm, WNW, NE	0 to 3	bc.bcm.
12	·170	·200	·168	−29·0	−40·0	−36·416	29·00	−31·0	−40·0	−37·64	49·83	47·50	47·50	46·33	45·58	33·0	NE	1 to 4	bc.bcq.oqm.om.
13	·350	·279	·285	−18·0	−30·0	−25·416	29·00	−14·0	−33·0	−26·50	50·93	48·33	48·33	47·75	46·83	33·0	NE, SE, ESE	1 to 8	om.cs.bcq.bcs.
14	·268	·240	·266	−25·0	−33·0	−29·583	29·00	−23·5	−33·5	−28·70	48·03	45·70	46·33	44·66	46·66	33·0	ESE, SE, SSE	6 to 10	cq.oq.oqm.
15	·350	·280	·302	−17·0	−23·0	−18·958	29·00	−16·0	−23·0	−19·06	48·96	46·50	46·16	47·16	47·00	33·0	SSE, SE, S by E	1 to 10	oq.cq.bc.
16	·170	·309	·235	6·0	−20·0	− 7·958	29·00	5·0	−18·0	− 8·47	48·73	46·50	46·66	42·91	47·33	33·0	S by E, calm, E, NE by E	0 to 2	bc.o.cg.
17	29·933	29·860	29·952	19·0	7·5	13·750	29·50	21·5	5·5	14·71	49·70	48·00	50·83	47·33	46·66	33·0	NE by E, SE, S by E, SSE	1 to 6	o.co.os.cgs.ocq.
18	30·106	·930	·981	14·0	Zero	4·875	29·50	14·5	− 2·0	4·75	48·90	46·60	50·00	44·50	46·66	33·0	SSE, SE, S	3 to 9	bc.bcq.bq.oq.
19	·260	30·181	30·194	12·0	0·5	6·208	29·00	−12·0	0·0	4·94	52·00	49·50	48·60	47·83	51·58	34·0	SE, ESE, SW, E	3 to 6	bqm.c.co.bcq.
20	·600	·386	·444	19·5	11·0	14·125	29·00	−18·0	12·0	14·39	51·50	48·70	50·50	48·08	51·33	34·0	SE	1 to 6	bcq.co.b.
21	·606	·570	·542	22·0	10·0	16·166	29·00	24·0	−10·0	16·58	52·46	49·40	48·08	49·66	53·00	34·5	SE, NNE, calm, SSE	0 to 5	b.bc.obc.o.
22	·500	·524	·519	18·0	10·0	12·791	29·00	22·0	7·5	13·48	51·53	47·80	44·50	47·41	53·33	34·0	SSE, S, calm	0 to 5	o.bc.of.
23	·474	·472	·473	12·0	1·0	5·333	29·50	14·0	0·5	5·54	49·16	45·40	44·41	45·83	55·66	34·5	Calm, NNE, N, W by N	0 to 3	bc.em.o.ob.of.
24	·342	·426	·411	5·0	−14·0	−5·958	29·50	2·0	−17·0	−8·17	46·16	42·83	42·08	42·58	53·50	34·0	WNW, calm, NW, SE	0 to 2	of.b.bcm.oc.bc.
25	·000	·200	·159	−4·0	−10·0	−6·975	29·50	−1·0	−11·5	−7·60	48·60	42·53	39·25	41·08	49·75	33·5	SE, calm, S, SSE	0 to 4	oc.mg.egs.ogs.
26	29·764	29·812	29·805	4·5	− 6·0	−2·083	29·50	5·0	− 7·0	−2·69	45·93	42·60	39·08	42·41	48·16	34·0	SSE, S, calm	0 to 4	ogs.co.bcm.cm.
27	·720	·720	·727	3·0	− 0·5	0·750	29·50	6·0	− 1·5	1·12	44·06	40·73	37·58	42·00	50·33	33·0	S, SSE, SE, calm	0 to 2	bc.oms.com.om.
28	·840	·750	·776	3·0	−14·0	−8·541	29·50	−9·0	−15·0	−7·41	48·65	45·00	41·91	44·66	51·33	32·5	Calm, NE	0 to 1	om.oc.bc.
29	·784	·872	·846	6·0	−17·0	−7·708	29·50	8·5	−18·0	−9·53	52·50	48·66	46·66	47·16	50·16	33·0	Calm, SW, SE	0 to 1	bc.co.cf.com.
30	·870	·722	·767	6·0	−12·0	−4·291	29·50	8·0	−13·0	−1·10	49·20	47·33	46·00	46·75	50·50	33·0	SE, NE, NNE, NE by N	1 to 4	com.of.os.om.
31	30·080	30·000	30·003	2·0	−24·0	−14·166	29·50	−2·0	−26·0	−16·40	48·66	46·33	45·25	45·83	48·16	33·0	NE by N, N, NNE, NW	0 to 3	cb.b.bco.bcm.
Max.	30·800	30·570	30·542	22·0	...	...	29·50	24·0	...	...	52·50	...	50·83	49·66	55·66	34·5	... ...	10	
Min.	29·720	29·720	29·727	...	−53·0	...	29·00	...	−55·8	...	39·70	...	37·58	39·25	38·33	32·5			
Mean	30·129	30·098	30·116	...	...	16·938	29·18	...	...	−17·71	47·30	...	44·42	44·26	47·42	33·5	... ...	5·0	

APRIL, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.												Spirit Room.	Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.						Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
April 1	30·136	30·134	30·134	-14·0	-25·0	-21·250	29·5	-12·0	-27·0	-20·37	49·25	45·50	45·00	45·50	48·58	32·00	NW, N, calm, W by N	0 to 2	bc.b.ob.
2	·000	·070	·061	- 3·0	-15·0	-10·833	29·5	0·0	-14·5	-10·54	50·40	47·66	46·00	46·33	49·66	33·00	Calm, WNW	0 to 1	b.bc.
3	29·900	29·910	29·918	5·0	- 7·0	- 1·416	29·5	6·0	- 8·5	- 0·66	50·50	46·90	48·00	48·66	50·83	33·00	Calm, S, SSE	0 to 3	bc.om.oms.
4	30·100	·970	·997	7·0	- 2·0	2·791	29·5	10·5	- 2·0	2·31	50·23	47·13	46·33	48·00	52·33	33·00	S, SSE, calm	0 to 2	oms.om.bc.ocm.
5	·180	30·162	30·162	8·0	-11·0	- 5·666	29·5	13·0	-14·0	- 3·73	48·53	45·80	45·83	46·00	52·16	33·00	Calm	0	ocm.bcm.
6	·100	·156	·139	1·0	- 9·0	- 5·666	29·5	0·0	-11·0	5·38	48·33	45·43	44·33	45·00	49·33	33·00	Calm, N, NE, ENE	0 to 3	bcm.bc.c.beq.
7	29·880	·000	29·976	-13·0	-24·0	-19·208	29·5	- 4·0	-24·0	-16·35	47·73	44·33	41·83	41·33	49·83	33·00	NE, calm, N, NW, NNW	0 to 3	bq.bc.b.
8	·800	29·800	·807	-14·5	-24·5	-18·666	29·5	- 8·0	-23·0	-17·33	46·10	42·00	43·50	41·16	48·36	33·00	NE, NW, NNW, N, calm	0 to 2	b.obc.bc.
9	·916	·880	·846	- 4·0	-20·0	-11·916	29·5	- 2·0	-21·0	-11·44	...	...	44·91	43·16	49·08	33·00	Calm, NW, ENE	0 to 6	bc.b.
10	·920	·900	·920	9·0	- 1·0	3·416	29·5	10·5	- 5·0	1·48	...	...	48·00	42·33	46·83	32·00	ENE, NE, N by E	3 to 6	bc.beq.c.bcm.
11	·880	·936	·908	10·0	- 2·0	1·625	29·5	11·0	- 3·0	0·85	...	...	44·33	41·58	47·66	32·00	N by E, calm, NW, NNW	0 to 4	bcm.bc.c.ocq.
12	·916	·900	·910	3·5	- 6·0	- 3·083	29·5	9·0	- 6·0	- 1·60	...	...	40·50	40·41	51·83	32·00	WNW, W, calm, NW, NNW	0 to 2	ocs.oms.os.om.
13	·900	·952	·930	2·0	-14·0	- 5·250	29·5	7·0	-13·0	- 3·69	...	...	41·08	42·16	49·58	31·50	Calm, NNE, NNW	0 to 4	om.omc.bc.
14	·940	·970	·949	- 3·5	-25·5	-18·375	29·5	- 2·0	-25·0	-15·12	...	...	35·41	36·91	47·66	31·00	Calm, NW, WSW, S	0 to 5	bc.beq.bcm.
15	·670	·636	·630	- 9·0	-19·5	-13·416	29·5	- 9·0	-15·5	-11·54	...	...	33·58	35·08	46·00	30·00	S, SE, NE, NE by E	1 to 7	bcm.om.oms.
16	·894	·850	·845	-11·5	-25·0	-20·875	29·5	-10·0	-24·5	-19·10	...	...	30·08	33·41	45·50	30·50	NE by E, NE, NNW, calm	0 to 8	om.beq.bm.
17	·886	·872	·869	- 6·5	-14·5	-11·208	29·5	0·0	-13·0	- 8·12	...	...	31·16	35·91	46·66	30·00	Calm, N, NNW	0 to 6	bcm.bm.bc.
18	·912	·918	·916	-11·5	-20·0	-15·583	29·5	- 7·0	-17·5	-13·50	...	...	30·91	33·41	43·83	29·50	NNW, N, NW	1 to 4	omq.cmq.bc.
19	·916	·938	·919	-11·5	-17·5	-14·791	29·5	-11·0	-16·0	-13·90	...	...	31·33	32·66	43·50	30·00	NW, calm, N, NE, NNE	0 to 5	bcm.bc.beqm.
20	·970	·918	·926	-10·5	-24·5	-17·791	29·5	- 9·0	-23·0	-16·40	...	...	34·83	37·16	43·83	30·50	NNE, NNW, calm, NW	0 to 4	bcmq.bm.b.
21	30·040	30·013	30·023	-11·0	-20·0	-15·666	29·5	-10·0	-18·5	-15·08	...	...	37·90	40·40	48·40	31·00	NW, NNE, calm	0 to 2	b.bc.
22	·158	·094	·103	- 2·5	-12·0	- 7·041	29·5	0·0	- 9·5	- 5·94	...	...	37·33	36·83	45·83	32·00	Calm, N, NW	0 to 2	bc.omc.om.bcm.
23	·266	·250	·242	- 3·0	-12·0	- 7·756	29·5	2·0	-11·5	- 5·14	...	...	41·83	40·00	47·08	31·50	N, NW, NNW	2 to 4	bcm.bc.c.
24	·290	·290	·284	- 6·0	-14·0	-10·583	29·5	-0·5	-13·0	- 8·54	...	...	42·66	42·25	47·83	33·00	NNW, N, NE, calm, NW	0 to 4	bcm.beq.bc.
25	·380	·312	·325	- 3·5	-14·0	- 8·438	29·5	2·0	-15·5	- 7·10	...	...	43·58	43·70	49·33	29·50	NW, calm	0 to 3	beq.bc.bcm.b.
26	·516	·454	·456	- 4·0	-18·0	- 8·875	29·5	7·0	-17·0	- 6·75	...	...	41·16	43·08	50·16	29·00	Calm, NW, NE	0 to 3	bc.bcm.bco.
27	·552	·552	·545	3·0	- 4·0	- 1·166	29·5	5·0	- 4·5	- 0·18	...	...	43·16	43·91	50·08	31·00	NW, N by E, N	1 to 4	bmq.bc.b.bcm.
28	·522	·512	·530	7·0	- 4·0	0·791	29·5	10·0	- 4·0	1·56	...	...	42·25	44·50	52·33	31·00	NW, N, NNE	1 to 8	bcq.bqm.bm.
29	·484	·500	·495	[illegible]	- 5·0	1·416	29·5	17·5	- 6·0	3·50	...	...	50·50	43·08	42·75	30·00	NW, N, N by W, N by E	0 to 1	bm.bc.bo.
30	·492	·508	·498	13·0	- 4·0	3·666	29·5	23·0	2·0	12·77	...	...	43·30	44·90	51·50	31·00	Calm	0	bc.b.
Max.	30·552	30·552	30·545	13·0	...	...	29·5	23·0	...	...	...	...	50·50	48·66	52·33	33·00	... ...	8	
Min.	29·670	29·536	29·630	...	-25·5	...	29·5	...	-27·0	...	...	...	30·08	32·66	43·50	29·00			
Mean	30·083	30·075	30·075	...	...	- 8·661	29·5	...	...	-8·60	...	...	40·82	41·39	48·28	31·47	... ...	3·83	

MAY, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.													Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.					Spirit Room.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean	Mean Dry.	Mean Wet.	Bows	Main Mast.	Gun Room.		Direction.	Force.	
May 1	30·450	30·440	30·513	16·0	3·00	10·833	29·500	23·0	2·0	12·77	...	...	45·83	44·16	53·91	31·00	Calm, NW	0 to 1	bc.oms.b.
2	·480	·440	·473	16·0	3·00	8·458	29·500	14·0	1·0	7·02	...	...	41·41	43·16	51·33	31·50	Calm, SSW, SW	0 to 3	b.bcms.oc.om.
3	·538	·500	·526	11·0	−1·00	2·916	29·500	15·5	−1·5	4·04	...	...	38·41	41·25	51·66	32·00	Calm, NW, NE, NNE	0 to 1	o.os.om.
4	·458	·415	·469	4·0	−2·50	1·625	29·500	7·0	−9·0	−1·58	...	...	38·91	42·50	51·33	32·50	Calm, NW, NE, N	0 to 2	om.o.oms.ofs.
5	·458	·415	·465	8·0	−2·50	3·208	29·500	8·0	−9·0	−0·48	...	...	41·91	42·41	51·91	33·00	N, NNW, NW by N, calm	0 to 2	of.oms.om.bc.
6	·284	·380	·384	18·0	2·00	1·391	29·500	10·0	Zero	5·59	...	...	41·75	42·58	48·91	32·50	Calm, NW	0 to 2	bc.b.
7	·284	·380	·380	10·0	−5·00	2·375	29·500	10·0	Zero	5·25	...	...	39·83	40·41	48·00	33·00	NW, calm	0 to 2	bc.
8	29·930	·130	·113	15·0	Zero	6·541	29·500	12·0	−1·6	3·90	...	...	40·90	42·30	49·00	32·50	Calm, W, SW	0 to 4	bc.os.om.oms.
9	·758	29·790	29·797	11·0	4·00	8·708	29·800	10·5	2·0	7·75	...	...	42·00	43·41	50·50	32·50	W, N, calm, NW	0 to 4	oms.bcms.obc.
10	·754	·720	·742	12·0	1·00	6·000	29·500	12·0	−2·5	6·20	...	...	43·83	44·66	47·33	33·00	NW, calm	0 to 2	bcs.bcm.bc.
11	·832	·810	·804	15·0	3·00	7·500	29·500	12·5	Zero	5·94	...	...	43·83	44·08	48·00	33·00	NW, W, S, calm	0 to 2	bcm.bc.om.
12	·970	·990	·931	21·0	5·00	10·666	29·500	17·5	1·0	8·35	...	...	44·41	45·33	48·75	33·00	Calm, N, NE	0 to 3	bc.bcm.
13	30·250	30·075	30·076	26·5	2·00	10·250	29·500	16·0	−1·5	6·42	...	...	43·83	46·50	51·16	33·00	Calm, NW, NE	0 to 2	bcm.bc.bcv.
14	·270	·345	·314	18·0	−0·50	7·750	29·500	15·0	−2·0	6·12	...	...	44·83	45·41	54·16	33·50	NW, N, NE, NNE, calm	0 to 3	b.bc.bcs.
15	·052	·140	·153	27·0	5·00	13·791	29·500	22·0	1·0	9·33	...	...	46·50	45·25	51·33	34·00	NW, calm, S, SSE	0 to 4	bc.bcm.oc.
16	29·960	·150	·024	24·0	16·00	20·458	29·500	21·0	12·0	17·38	...	...	45·90	49·25	53·66	33·50	S, calm	0 to 2	oc.oms.om.
17	·826	29·800	29·856	30·0	16·00	20·333	29·500	25·0	14·0	17·23	...	...	47·50	51·25	55·60	33·00	S, N, calm	0 to 4	om.bcqr.bc.oc.
18	·788	·900	·852	30·0	19·00	24·583	29·500	28·5	17·0	21·62	...	...	50·00	51·08	53·00	33·50	Calm, S, SE, SSE	0 to 3	oc.om.o.omg.
19	·684	·715	·723	34·0	18·00	25·500	29·500	30·0	16·0	23·29	...	...	49·58	51·16	57·33	35·00	SSE, SE by E, S, calm	0 to 1	bc.oc.om.bcv.
20	·710	·740	·742	46·0	20·00	29·666	29·500	39·0	19·0	26·76	...	...	55·58	52·00	58·83	34·00	NE, calm, E	0 to 2	bc.b.r.
21	·574	·665	·642	32·0	22·00	26·833	29·500	38·0	19·0	25·63	...	...	56·25	51·08	54·66	34·50	Calm, NNW, W, SW by W	0 to 3	r.bc.oms.om.
22	·540	·550	·564	34·0	23·00	27·208	29·500	30·0	19·5	22·87	...	...	54·50	49·58	52·91	34·50	W, NW, SW, calm	0 to 3	om.oms.
23	·683	·690	·601	33·0	20·00	23·416	29·500	33·0	17·0	22·48	...	...	54·25	51·75	52·66	34·50	Calm, NNE, NNW, NW	0 to 3	oms.bc.o.om.
24	·816	·770	·752	32·0	23·00	27·083	29·500	29·0	20·0	24·12	...	...	56·00	50·00	54·58	35·00	N, NNE, NE, ENE	1 to 4	om.oms.bc.os.
25	·958	·940	·938	28·5	16·50	21·208	29·500	58·0	28·0	39·48	...	...	52·60	51·70	56·80	36·00	NE, NNW, calm, NE	0 to 5	cq.omq.o.om.
26	·814	·975	·949	21·0	11·00	16·625	29·500	25·5	13·0	17·12	...	...	51·75	48·41	58·83	35·00	NNW, NW, N	2 to 7	bcqm.bcf.cqms.
27	·672	·730	·767	22·0	15·00	19·083	29·500	22·0	14·0	19·00	...	...	54·60	50·20	57·20	35·50	N, NW, NE	1 to 7	bcqm.ocqm.
28	·738	·770	·653	24·0	18·00	21·500	29·500	30·5	17·5	21·87	...	...	57·40	49·10	55·20	34·50	NE, calm	0 to 3	bc.bcq.
29	·554	·670	·653	27·0	18·00	22·291	29·500	29·5	17·5	23·56	...	...	50·75	47·41	49·66	33·00	NW, NNW, N	1 to 6	oc.o.oqm.bcm.
30	·442	·480	·486	33·0	18·00	24·000	29·500	32·0	18·0	23·15	...	...	54·90	48·90	52·00	34·00	N, NW, NE, W	1 to 2	bc.o.om.bcf.
31	·462	·530	·511	34·5	25·00	28·958	29·500	36·0	23·0	26·66	...	...	58·50	47·80	54·20	35·00	W, SE, calm, NE	0 to 3	bcf.bc.o.c.
Max.	30·538	30·500	...	46·0	...	...	...	58·0	...	...	...	...	58·50	51·75	58·83	35·00			
Min.	29·442	29·480	...	...	−5·00	...	...	...	−9·0	...	...	...	38·41	40·41	47·33	31·00			
Mean	29·997	29·997	29·996	...	...	15·508	29·500	...	...	14·73	...	...	48·00	46·89	52·72	33·33			

JUNE, 1853.

Winter Quarters, Northumberland Sound, 76° 52′ N., 97° W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.					Spirit Room.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
June 1	29·610	29·520	29·524	33·000	26·00	28·583	29·500	34·0	24·5	27·63	...	...	58·10	43·30	54·90	36·00	Calm, NNW, NW, N . .	0 to 3	bc.oc.o.
2	·690	·720	·708	30·000	25·00	27·125	29·000	33·0	23·0	25·58	...	...	58·30	46·80	58·50	36·00	NNW, W, calm, SW, S .	0 to 5	oc.oc.m.om.oms.
3	·780	·750	·738	31·500	24·00	27·000	29·500	28·0	22·0	25·08	...	...	52·80	46·60	55·70	36·50	S, S by E, SSW, SSE . .	2 to 5	cm.oms.om.bcm.
4	·950	·880	·895	36·000	23·00	27·916	29·500	31·0	22·0	25·87	...	...	57·70	46·30	53·70	36·50	SSE, SE, ENE, NE by E .	1 to 2	bc.bcms.
5	·628	·930	·849	31·000	25·00	27·958	29·500	32·5	22·5	25·58	...	...	51·40	46·40	54·80	37·00	NE, NNW, SW	1 to 4	bc.oc.bcms.
6	·670	·575	·603	36·500	24·00	29·000	29·500	39·0	23·0	28·33	...	...	46·00	46·50	55·10	36·50	SW, WSW, NW, W, calm	0 to 4	omsf.oc.cm.oms.
7	·652	·680	·664	32·000	21·00	26·500	30·000	35·0	20·0	25·00	...	...	52·50	46·30	55·30	37·00	NE, W, NNE, N, NNW .	1 to 3	bc.oms.
8	·568	·655	·630	33·500	28·00	30·125	30·000	31·0	25·0	27·67	...	...	49·25	46·00	55·25	37·00	NNW, NE, calm	0 to 5	bc.omd.bcq.
9	·580	·540	·555	34·000	28·50	30·916	30·000	31·0	25·0	27·92	...	...	49·25	44·60	54·50	37·00	NNW, WNW, calm, S, SW	0 to 5	bcq.oc.bc.oms.
10	·720	·765	·663	35·000	29·00	31·250	30·000	36·0	26·0	29·71	...	...	53·50	45·50	54·00	36·50	SW, S, ESE, NE	1 to 2	oc.bc.o.
11	·592	·675	·652	37·000	26·00	30·375	30·000	38·0	25·0	29·96	...	...	46·75	47·25	54·87	37·00	NE, calm, N, NE by N .	0 to 2	oc.bc.bcq.
12	·652	·610	·631	37·000	25·00	29·500	30·000	36·0	23·5	28·71	...	...	50·25	46·00	49·50	37·00	NE, NNE, calm, NNW .	0 to 5	bc.bcq.
13	·628	·680	·661	36·000	29·00	32·250	31·000	33·0	24·5	28·21	...	...	47·75	41·37	45·20	36·50	NNW, NW, SW, calm, W	0 to 2	bc.bcm.of.om.
14	·574	·620	·614	36·500	32·00	34·291	31·500	39·0	31·0	32·55	...	...	47·33	43·33	50·41	36·50	NE, WNW, NW, NNW .	1 to 4	om.oms.bc.bcm.
15	·460	·510	·508	35·000	30·50	32·500	32·000	42·0	35·0	29·55	...	...	51·60	46·60	50·10	36·00	NW, SW by W, W, NNW	1 to 4	oc.bcm.oms.om.
16	·536	·545	·543	35·000	29·50	31·500	32·500	33·0	27·0	29·35	...	...	50·25	46·50	54·75	36·50	NNW, N, NW	1 to 7	oqms.oc.q.bc.
17	·500	·590	·558	35·000	27·00	32·208	33·000	36·0	25·0	30·04	...	...	55·87	47·75	55·87	37·00	NW, NNW, calm . . .	0 to 4	oqms.oc.bc.of.
18	·518	·470	·494	36·500	30·00	32·791	34·000	38·0	27·5	31·58	...	...	52·87	48·75	55·25	40·00	Calm, NE	0 to 3	f.bc.oeq.c.
19	·640	·620	·606	40·000	30·00	33·208	32·000	42·0	27·0	31·62	...	...	52·25	48·50	53·00	38·50	NE, NNW, W, NW . . .	1 to 3	bc.oeq.oem.om.
20	·886	·760	·770	35·000	31·00	32·708	34·000	32·0	26·0	28·27	...	...	56·62	48·50	49·87	38·50	NW, W, SSE, S	1 to 5	om.o.oeq.oc.
21	·893	·900	·918	33·000	30·00	31·125	34·000	30·0	27·0	27·98	...	...	55·50	47·37	50·25	38·00	South	2 to 6	omsq.oeq.
22	·918	·950	·937	35·000	32·00	32·875	34·000	34·0	29·5	30·46	...	...	51·50	49·80	51·00	39·00	South	3 to 7	oeq.oc.eqs.
23	·800	·870	·856	36·500	32·50	34·222	33·000	34·0	30·0	31·06	...	...	51·25	48·75	53·00	37·50	South	1 to 5	eqs.oc.oes.oc.
24	30·090	·985	·970	42·000	34·00	38·916	33·250	40·0	30·0	34·21	...	...	50·62	49·62	51·50	39·50	S, calm, NE	0 to 3	od.om.bc.bcq.
25	·190	30·180	30·156	43·000	33·50	38·083	32·666	41·0	30·5	34·08	...	...	48·87	49·87	53·75	39·50	Calm, NNE, NE	0 to 3	bc.bcq.bcm.
26	·130	·180	·181	46·500	35·00	40·083	33·000	38·0	31·5	34·83	...	...	52·12	51·87	52·62	41·50	NNE, NE, calm	0 to 4	bom.bc.bcq.bv.
27	·030	·075	·080	41·000	32·00	38·458	33·400	37·5	31·0	35·00	...	...	53·12	50·62	53·16	40·00	Calm, NE, NW, NNE . .	0 to 3	bv.bcm.bc.v.
28	29·780	29·970	29·923	42·000	35·00	37·125	33·250	37·0	30·0	32·48	...	...	51·25	50·50	52·00	38·50	NNW, NW, calm, WSW .	0 to 2	bc.bef.oc.eof.
29	·624	·710	·697	39·000	33·00	35·375	33·000	34·0	29·5	31·64	...	...	50·87	50·75	53·50	39·00	Calm, NE, E by S, NNE .	0 to 6	of.oc.com.oeg.
30	·664	·620	·642	38·500	34·00	35·666	33·666	42·0	30·0	35·42	...	...	51·87	51·25	54·00	40·50	NNE, NW, W, calm . .	0 to 3	com.bc.of.b.bef.
Max.	30·190	30·180	...	46·500	...	...	...	42·0	...	...	...	...	58·30	51·87	58·50	41·50			
Min.	29·460	29·610	...	...	21·00	...	...	...	20·0	...	...	...	46·00	41·37	45·00	36·00			
Mean	29·738	29·750	29·740	...	...	32·321	31·650	...	...	29·84	...	...	51·91	47·44	53·14	38·08			

JULY, 1853.

Winter Quarters, Northumberland Sound, until the 14th.

Date.	Barometer.			Thermometer.												Spirit Room.	Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.						Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.				
July 1	29·684	29·664	29·686	39·0	32·0	35·833	33·500	43·00	32·00	35·79	35·79	...	50·62	51·75	...	40·50	W, calm, SW, SSW, WNW	0 to 4	bcf.bc.com.
2	·900	·820	·835	42.0	32·0	36·166	33·250	41·00	32·00	35·92	35·92	...	50·60	51·40	...	41·00	NW by W, WNW, NW	0 to 4	bcm.bcf.bc.cm.
3	·950	·924	·934	39·5	34·0	35·208	32·625	39·00	33·00	34·42	34·42	...	53·37	50·62	...	40·00	Calm, S, S by W, SSE	0 to 8	c.ocq.comq.of.
4	·820	·970	·922	43·0	35·5	38·000	32·900	38·00	34·00	36·08	36·08	...	50·62	51·25	...	40·00	SSE, SE	2 to 8	omq.bmq.bcq.
5	·780	·770	·772	42·5	37·0	38·750	32·833	...	...	...	38·75	...	51·50	50·82	...	40·50	SSE, SE, SSW	1 to 7	ocm.bcmq.oq.
6	·880	·830	·819	37·0	33·0	34·958	33·000	...	...	...	35·00	35·00	51 90	51·80	...	41·00	SSW, SW, WSW	1	om.oms.ocf.
7	·840	·858	·856	40·0	34·0	37·708	32·750	...	...	...	38·00	36·83	52·75	54·00	...	41·50	SW, calm	0 to 1	comd.oc.bc.
8	·664	·750	·736	41·0	36·5	38·083	33·625	...	...	...	37 91	37·00	52·00	53·00	...	41·00	Calm, SSE, SE by E, SE, S	0 to 2	oc.o.omd.com.
9	·510	·630	·598	40·5	36·0	39·000	33·250	...	...	...	37·66	37·00	57·00	53·50	...	43·50	S by E, S, calm, E	0 to 3	com.oc.of.ocd.
10	·540	·456	·476	46·0	39·0	40·291	33·200	...	...	...	42·70	39·12	53·12	53·00	...	43·50	E, NE, NE by E, S	1 to 4	bc.cqm.eq.mgo.
11	·710	·670	·671	44·0	33·5	35·125	33·166	...	...	...	38·92	38·14	52·25	51·25	...	44·00	S, SW, calm, SW by W, W	0 to 2	bc.of.oc.
12	·800	·760	·761	43·5	32·0	35·833	32·250	...	...	...	41·55	40·40	52·25	50·50	...	46·00	W, WSW	1 to 2	bc.cmg.cmq.
13	·862	·850	·840	60·0	36·0	45·277	33·000	...	...	...	45·75	44·33	52·62	52·62	...	45·50	W, calm, N	0 to 2	bc.b.
14	·820	·852	·843	47·0	36·0	43·062	32·500	Ship moving easterly.			44·50	41·00	56·00	53·87	...	45·00	N, calm, NW, WNW	0 to 3	b.bc.
15	·470	·720	·663	47·0	37·0	38·714	32·250				41·50	39·00	55·37	52·62	...	46·00	Calm, SSE, SW	0 to 4	bc.cmr.
16	·524	·383	·438	39·5	35·0	36·437	31·625	...	...	...	37·00	37·00	58·75	52·37	...	46·00	SW, SSW, S	2 to 4	cmr.or.ocr.ocd
17	·800	·714	·746	43·0	34·0	37·611	30·500	...	...	...	37·75	36·50	59·87	52·87	...	46·00	SSW, calm, NW by W	0 to 4	bcm.bf.cq.cfd.
18	·572	·661	·663	41·5	35·0	37·916	30·600	...	...	...	37·75	36·75	55·12	51·12	...	46·00	NW by W, NW, WNW	0 to 6	cfd.co.bcm.mq.
19	·314	·500	·476	42·5	37·0	40·000	30·375	...	...	...	41·00	40·50	47·87	48·75	...	46·00	WNW, SSE, SE	4 to 6	mq.cq.oqr.cmr.
20	·600	·580	·598	43·0	33·0	37·000	30·833	...	...	...	39·00	38·00	49·87	47·00	...	45·50	SE, calm, S, N by W	0 to 4	oc.bc.
21	·650	·610	·619	37·0	26·5	30·944	30·750	...	...	...	34·00	33·00	52·75	47·75	...	45·50	N by W, NW, WNW	3 to 6	bc.coq.com.
22	·688	·674	·675	35·5	29·5	32·916	32·100	...	...	...	33·50	32·00	49·25	51·00	...	49·00	NW, W, calm	0 to 3	com.oc.comf.
23	·570	·650	·626	36·0	32·0	34·416	31·625	...	...	...	35·66	34·75	54·75	48·75	...	46·00	Calm, W, ESE, E, SE	0 to 5	bc.cm.comr.
24	·680	·600	·619	37·0	32·0	34·458	32·333	...	...	...	36·33	36·00	55·50	53·62	...	46·00	ESE, calm, SE	0 to 5	cqmr.om.cqd.
25	·704	·702	·702	36·5	33·0	34·458	32·250	...	...	...	36·00	34·50	55·50	53·12	...	45·00	Calm, N by W, SE, NNW	0 to 2	cmf.bc.com.fm.
26	·666	·700	·694	35·0	32·5	34·166	31·000	In Wellington Channel.			36·00	35·00	52·00	47·75	...	46·00	NNW, calm	0 to 2	om.ocm.cf.
27	·550	·612	·605	38·0	36·0	37·041	30·750				37·00	37·00	54·25	49·00	...	46·00	Calm, SSE	0 to 1	cf.bcm.om.bc.
28	·450	·520	·509	38·0	34·0	35·100	30·400	...	...	...	35·00	34·50	55·75	50·00	...	46·00	Calm, NW	0 to 1	oc.bcm.osf.of.
29	·324	·270	·307	35·0	31·0	32·727	31·300	...	...	...	33·00	32·50	50·12	49·62	...	46·50	NW, SE	1 to 5	com.oeq.beq.bf.
30	·646	·420	·500	35·0	31·5	33·600	31·750	...	...	...	33·75	32·75	54·00	50·62	...	46·00	SE, ESE, E, SSW	2 to 5	ocm.bcm.beq.
31	·784	·790	·780	38·5	33·0	35·250	32·000	...	...	...	35·66	35·50	53·37	49·25	...	45·00	SSW, W, SW	1 to 2	bcm.bc.com.
Max.	29·950	29·970	...	60·0	...	...	...	...	...	...	45·75	...	59·87	54·00	...	49·00			
Min.	29·314	29·270	...	...	26·5	...	...	...	...	...	33·00	...	47·87	47·00	...	40·00			
Mean	29·668	29·673	29·670	...	...	35·690	32·042	...	...	...	36·51	...	53·35	51·11	...	44·73			

AUGUST, 1853.

In Wellington Channel and Port Refuge.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.					Spirit Room.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean,		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.		Direction.	Force.	
Aug. 1	29·668	29·721	29·724	35·5	33·5	34·666	31·583	Wellington Channel.			34·75	33·66	48·91	47·66	...	46·00	SW, WSW, Calm, SE	0 to 2	o m. c. bc. o.
2	·570	·648	·618	36·5	34·0	34·400	31·600	...	...	...	34·00	33·50	48·66	49·50	...	46·00	Calm, SW, S, W	0 to 3	o m. o. oc. bc. f o.
3	·524	·550	·546	41·0	32·0	34·791	31·800	...	...	...	34·25	33·66	45·58	47·75	...	46·50	W, calm, SSW, S	0 to 3	bc. bcm. o.
4	·530	·448	·481	37·0	32·5	33·708	30·800	...	...	...	33·00	33·00	50·25	50·00	...	47·00	S, SE, E, ENE, NNE	1 to 2	o. oc. cor. of s.
5	·718	·630	·540	34·5	30·5	32·736	29·000	...	...	...	32·00	32·00	51·33	51·46	...	46·50	NNE, WNW, NW by N	1 to 2	o m s. bc.
6	·800	·780	·776	37·0	31·5	33·791	29·500	...	...	...	33·00	33·00	50·83	50·83	...	47·00	NNW, WNW, NW, W	1 to 2	bc. o c q. o. c m.
7	·680	·770	·759	35·0	31·5	33·083	29·000	...	...	...	32·75	32·66	50·58	48·75	...	43·50	NNW, NW, NW by N	1 to 4	cm. co. o. bc.
8	·582	·610	·620	34·0	32·0	32·916	29·000	...	...	...	32·50	32·50	51·41	50·08	...	43·50	W by N, WNW, W	1 to 5	bc. com. oc q.
9	·630	·600	·595	35·0	33·0	33·958	29·166	...	...	...	34·00	33·50	50·66	49·50	...	46·50	W, NW, calm, S	0 to 1	com. os. oms.
10	·750	·652	·665	38·0	33·0	35·950	29·000	...	...	...	35·00	34·00	49·83	48·91	...	45·00	SE, E, E by N, ESE, ENE	0 to 3	com. oc. o. bc.
11	·844	·804	·805	42·0	35·0	36·166	29·000	...	...	...	35·69	36·25	49·41	48·58	...	45·50	Calm, S, N, NE	0 to 2	bc. o. oh. oc. c.
12	·850	·856	·843	41·0	30·5	34·772	30·333	...	...	...	35·75	34·75	49·50	48·91	...	44·00	NE, SE, calm, NW, E, N	0 to 1	c. bc.
13	·790	·820	·820	41·5	31·0	34·916	30·400	...	...	...	35·00	34·00	45·00	47·16	...	43·50	Calm, E, NE, W	0 to 3	b. bc. oc. s. com.
14	·900	·810	·816	36·0	26·0	33·190	30·333	...	...	...	33·00	32·00	50·00	49·16	...	44·50	West, SE	1 to 2	coms. bc.
15	·824	·940	·936	38·5	34·0	35·000	30·636	...	...	...	35·50	34·75	50·00	49·25	..	43·50	ESE, SE, ENE, E, calm	0 to 4	bc. c. ocmr. ocr.
16	·753	·708	·730	35·0	32·5	34·666	30·363	...	...	...	34·75	34·00	50·00	49·25	...	44·00	E, NE, ENE, SW	2 to 4	oc. om. or. o.
17	·318	·760	·569	35·0	32·5	33·850	29·833	...	...	...	34·00	33·66	49·41	48·25	...	42·00	SW, NW, NE, ENE, E	2 to 9	o. c. os. oqs.
18	·436	·226	·292	35·0	32·5	33·318	30·333	Port Refuge.			33·00	32·50	49·41	49·00	...	45·00	E, SSE, S, SW, WSW	3 to 7	oq. ocs. om. of.
19	·900	·754	·733	34·0	31·5	32·500	30·818	...	...	...	32·66	32·30	50·00	48·41	...	44·00	WSW, SW, SSW	2 to 6	om. co. ofd. oms.
20	·914	·950	·925	34·5	32·5	33·363	31·000	...	...	...	33·50	33·00	49·00	47·66	...	43·00	SW, SSW, SE, ESE, calm	0 to 2	co. cd. cm. c. om.
21	·856	·884	·878	36·5	31·5	33·727	30·458	...	...	...	33·75	33·50	49·66	48·66	...	43·50	SSE, calm, N, NNE	0 to 5	bcms. os. bc. boq.
22	·900	·896	·900	37·0	31·5	34·083	30·208	...	...	...	34·66	34·50	49·58	48·66	...	43·00	NNE, N, W, NW	1 to 7	bc. com. bcq.
23	·820	·850	·851	37·5	32·0	33·750	30·666	...	...	...	33·00	32·50	49·08	48·16	..	43·50	N, NW, calm	0 to 3	b. bc. om. of. ocm.
24	·800	·780	·786	36·5	33·0	34·916	31·208	...	...	...	33·75	33·00	48·75	47·91	...	43·00	SW, calm, SSW, SW by S	0 to 3	om. f. of. co. com.
25	·590	·672	·662	36·0	34·0	35·136	31·136	...	...	...	35·25	33·00	49·25	46·75	...	44·00	S, ESE, SE, SSE	1 to 9	com. omc. om.
26	·550	·518	·524	37·0	33·0	34·875	31·291	...	...	...	35·00	34·50	49·98	47·75	...	45·00	SSE, SE, ESE	4 to 7	oq. bcq. cq. q.
27	·630	·613	·601	38·0	35·5	37·090	31·400	...	...	...	36·66	36·00	50·25	49·83	...	44·50	SE by E, NE, E by N	1 to 4	o. om. omf. oed.
28	·710	·690	·682	37·5	32·0	34·550	31·625	...	...	...	35·00	34·75	52·00	51·33	...	44·00	NE, SE by E, E, SSE	1 to 4	com. c. cf. of. f.
29	·822	·712	·732	36·5	32·5	34·208	31·375	...	...	...	34·66	34·00	52·50	50·33	...	44·00	SSE, S, calm, W, NW	0 to 2	ocm. om. co. os.
30	·974	·918	·914	35·5	22·5	27·333	31·041	...	...	...	35·30	33·00	49·33	47·83	...	42·50	NNW, NW	1 to 2	bcm. o. bc. bcv.
31	·900	·980	·954	29·0	23·0	26·350	29·619	...	...	...	29·66	29·00	49·33	47·83	...	42·50	NNW, N, calm, NW, W	0 to 4	bc.
Max.	29·914	29·980	...	42·0	...	...	31·800	...	...	...	36·66	...	52·50	51·46	...	47·00			
Min.	·318	·226	...	...	22·5	...	29·000	...	...	...	29·66	...	45·00	46·75	...	42·00			
Mean	·724	·725	29·719	...	...	33·798	30·436	...	...	...	34·05	33·43	49·67	48·87	...	44·42			

SEPTEMBER, 1853.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.							
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.	Spirit Room.	Direction.	Force.	
Sept. 1	29·750	29·814	29·817	33·0	28·0	29·375	29·090	...	...	...	29·33	28·72	49·66	48·25	...	42·50	WSW, SW, WNW	1 to 4	bc.o.c.
2	·710	·700	·710	34·0	29·0	31·291	29·541	...	...	...	32·00	30·50	48·91	47·91	...	43·00	W, SW, SW by W, N by W	1 to 2	c.co.
3	·800	·760	·761	33·0	27·0	29·375	29·208	...	...	...	29·00	28·50	48·83	48·75	...	42·00	N by N, NE by E, ENE, calm	0 to 2	oc.o.
4	·860	·840	·839	34·0	25·0	29·791	29·277	...	...	...	29·66	28·50	48·08	48·58	...	41·50	Calm, SE, S, SW	0 to 1	oc.bc.om.
5	·950	·950	·946	31·0	26·0	28·416	29·208	...	...	...	27·33	26·66	48·08	48·58	...	41·50	NW, NE, calm, SW, SSW	0 to 3	bc.oc.f.of.
6	·720	·664	·743	30·0	20·5	26·458	29·208	...	...	...	27·00	26·66	47·33	45·00	...	44·00	WSW, SW, SSW, W by S.	1 to 5	com.oc.os.bcqs.
7	·494	·612	·602	19·5	17·0	17·909	29·125	...	...	...	18·50	17·00	46·00	44·50	...	43·00	WNW, W, W by S, SW	3 to 6	bcqs.com.cos.
8	·530	·440	·475	18·5	9·0	15·181	29·166	...	...	...	16·00	15·50	46·75	45·41	...	42·50	WSW, N, NNW, calm, SSE	0 to 5	oqs.oc qms.bc.
9	·450	·554	·528	15·5	2·5	8·598	29·136	...	...	...	8·50	7·00	46·16	46·00	...	42·00	NE, calm, ESE, SSE, SE by S	0 to 3	bc.bcm.cm.
10	·320	·330	·340	18·5	6·0	10·666	29·000	...	...	...	10·50	9·50	44·58	41·41	...	43·00	SE, ESE, E, calm	0 to 5	com.cm.bc.
11	·748	·582	·623	21·0	9·5	14·458	29·000	...	...	...	14·66	13·50	42·08	39·08	...	41·50	E, calm, ESE, W	0 to 3	bc.bcm.
12	·650	·700	·701	18·0	11·0	14·208	29·000	...	...	...	14·33	12·66	45·16	41·00	...	41·00	WSW, W by S, SW, SW by S	1 to 3	bc.cos.os.
13	·680	·535	·639	23·5	18·0	21·772	29·000	...	...	...	22·00	21·50	46·08	41·66	...	40·00	SW, W, WSW, WNW	1 to 6	bc.cs.os.oms.oc.
14	·650	·682	·673	23·0	19·0	21·400	29·000	...	...	...	21·33	21·00	46·08	43·25	...	40·00	W, WSW, SW, SSW	2 to 4	oc.com.cm.c.bc.
15	·668	·580	·612	22·5	17·0	19·416	29·000	...	...	...	20·00	19·33	45·33	43·08	...	40·00	SSW, calm, NW	0 to 4	om.bc.c.cs.os.
16	·722	·771	·744	18·5	12·0	16·250	28·937	...	...	...	16·33	15·75	44·58	41·16	...	40·00	NW, W by N, W, SSW	1 to 4	bc.oc.bc.os.
17	·970	·800	·821	19·0	14·0	16·916	29·000	...	...	...	17·00	16·66	43·50	40·83	...	39·50	SW, calm, NE, N, NNE	0 to 3	os.co.o.bc.
18	·999	30·050	30·037	18·0	Zero	7·166	28·812	...	...	...	7·25	6·66	43·41	40·91	...	39·50	NNE, calm	0 to 1	bc.bf.
19	·962	29·980	29·978	16·5	7·0	10·333	28·750	...	...	...	10·65	10·32	42·50	40·83	...	39·00	Calm, SW, WNW, N, NNE	0 to 2	bf.bc.bcq.b.
20	·910	·932	·927	16·0	5·0	11·208	28·500	...	...	...	11·33	10·86	38·25	37·16	...	39·00	NW, calm, NE	0 to 1	bc.b.
21	·986	·950	·870	19·0	5·0	10·875	28·666	...	...	...	11·00	10·33	38·16	35·66	...	39·00	Calm, WSW	0 to 1	bc.b.
22	30·028	30·028	30·040	18·0	13·0	13·958	28·958	...	...	...	14·00	13·76	46·50	37·66	...	39·50	Calm, W, SW	0 to 2	bc.bcm.ocm.o.
23	29·820	29·932	29·914	21·0	20·0	20·416	28·708	...	...	...	20·56	20·00	46·83	42·41	...	40·00	SW, SSW, S by E	1 to 5	bc.oc.cos.eqs.
24	·932	·861	·885	20·0	12·5	14·958	28·428	...	...	...	15·00	14·66	43·91	43·66	...	39·00	SW by S, calm, NNE, S	0 to 4	os.oc.com.om.o.
25	30·038	30·000	·999	15·5	9·0	13·250	28·812	...	...	...	13·33	12·85	44·50	43·83	...	40·00	S, S by E, ESE, SSE, SE by S	2 to 4	bc.bcq.coq.com.
26	·038	·000	·999	18·0	11·0	13·708	28·812	...	...	...	13·66	13·00	46·83	44·58	...	40·00	S, S by E, ESE, SSE, SE by S	2 to 4	bc.cq.com.so.
27	·000	·030	30·028	18·0	9·0	14·416	28·857	...	...	...	14·50	14·33	46·00	41·66	...	40·50	SE by S, SW, calm, ESE	0 to 2	om.com.oc.bc.
28	·050	·040	·037	12·0	3·0	6·270	28·750	...	...	...	7·00	6·75	40·25	37·66	55·00	39·00	SSE, S, SSW, SW by W	1 to 3	bc.os.cq.com.
29	29·950	29·950	·942	15·0	2·0	9·041	28·642	...	...	...	9·33	8·76	46·75	48·25	55·66	39·00	ESE, calm, E, SE	0 to 4	bc.ocq.b.
30	·572	·850	·801	21·0	4·5	13·041	28·625	...	...	...	13·66	13·00	43·91	46·91	55·08	39·50	SSE, E, SE	2 to 7	com.coq.ocqms.
Max.	30·050	30·050	...	34·0	...	...	29·541	...	...	...	29·66	...	49·66	48·75	...	44·00			
Min.	29·320	29·330	...	...	Zero	...	28·428	...	...	...	7·00	...	38·16	38·66	...	39·00			
Mean	29·798	29·797	29·867	...	...	17·004	28·943	...	...	...	19·82	16·04	45·16	43·19	...	40·66			

OCTOBER, 1853.

Disaster Bay, Wellington Channel, 75° 31′ N., 92°10′ W.

Date.	Barometer.			Thermometer.											Spirit Room.	Wind.		Weather.
				Upper Deck.			Mean Sea.	Shore.			Lower Deck.							
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.		Max.	Min.	Mean.	Mean Dry.	Mean Wet.	Bows.	Main Mast.	Gun Room.		Direction.	Force.	
Oct. 1	29·410	29·354	29·414	22·0	9·0	15·916	28·500	...	...	...	...	...	47·50	44·66	56·75	39·50	S, WSW, N, NW, W, SW	1 to 10	ocq. os. oms. fs.
2	·360	·500	·422	17·0	6·5	10·750	28·500	...	...	...	...	...	41·25	40·33	54·00	38·00	NE, NNE, NNW, W . .	1 to 6	c. ocq. oq. bcmq.
3	·332	·332	·339	13·0	5·0	8 750	29·500	...	...	...	...	...	40·00	38·91	54·00	38·00	WNW, W, WSW, SW . .	2 to 6	oc. oms. osg.
4	·376	·290	·324	14·0	5·0	9·450	28·500	...	...	...	...	...	45·66	44·83	54·16	38·00	SSW, SW, calm, S . . .	0 to 7	ocq. omqs. bc. c.
5	·562	·382	·421	12·0	1·5	6·750	28·500	...	...	...	...	...	43·50	44·66	52·58	36 50	S, calm, WNW, SW . .	0 to 5	ocs. os. oms. o.
6	·826	·700	·713	4·5	–2·0	1·500	28·500	...	...	...	...	...	46·00	43·58	51·00	35·00	SW, ESE, calm, SW . .	0 to 2	bcm. bc. o. oms.
7	30·010	·950	·964	5·0	–9·0	–1·416	28·500	...	...	...	...	...	47·25	45·08	53·50	34·00	SW, calm, WSW . . .	0 to 3	om. oms. bc. f.
8	·322	30·230	30·227	6·5	0·5	4·458	28·500	...	...	...	...	...	47·58	46·66	51·50	34·00	N, calm, SW, SE . . .	0 to 2	om. ogs. oc. bc.
9	·312	·296	·297	15·0	5·0	11·625	28·500	Before this date the gale disturbed the ice.			...	...	46·41	47·00	49·91	34·00	SE, calm	0 to 5	bcm. b. bc.
10	29·832	·208	·143	23·0	13·0	19·772	28·500				...	...	42·33	42·50	51·33	35·00	SE, E, SSE, ESE, SE by E	1 to 10	bc. c. bcq. bcqm.
11	·824	29·773	29·790	23·0	20·0	21·416	28·500				...	...	38·25	37·58	45·50	33·00	SE by E, SE, SSE . . .	7 to 10	omq. bcq.
12	·704	·706	·724	26·5	21·0	22·916	28·500	...	...	...	...	...	39·66	42·40	56·41	33·00	SE, calm	0 to 8	oqm. oc. oms.
13	·760	·710	·721	25·5	22·0	24·125	28·500	...	...	...	...	...	48·16	48·33	57·33	35·00	S, SE, E, NE	1 to 4	oc. om. bc.
14	·850	·800	·807	22·5	19·0	20·416	28·583	...	...	...	...	...	49·16	48·91	59·16	36·00	Calm, SE	0 to 1	bc. om. bcm.
15	·944	·926	·918	23·5	22·0	22·791	28·800	...	...	...	...	...	51·83	51·83	60·16	35·50	SW, calm, SSW, S, E, SE .	0 to 1	o. m.
16	·936	·950	·940	23·0	20·5	21·708	29·000	...	...	...	...	...	50·16	49·50	56·41	35·00	E, SE, ENE, SSE . . .	1 to 3	o.
17	·911	·884	·902	22·0	17·0	18·541	28·500	...	...	...	...	...	48·08	48·41	58·00	35·00	E, SE, SSW	1 to 4	o. f. oc.
18	·992	·948	·950	20·5	18·5	19·583	28·750	...	...	...	...	...	48·00	47·41	58·66	34·50	SSW, SSE, NE, calm . .	0 to 2	oms. oc. om.
19	30·050	30·034	30·034	17·0	1·5	6·291	28·500	...	...	...	...	...	44·33	45·00	55·66	34·00	N, NE, calm, WNW, NW .	0 to 2	oc. b.
20	·061	·023	·033	10·0	Zero	4·166	28·500	16·5	1·5	6·12	...	...	42·58	43·91	52·91	34·00	Calm, N, NE, NW . . .	0 to 3	om. b. bcm. o.
21	·226	·142	·137	2·5	–3·0	–0·041	28·500	7·0	–5·0	–0·83	...	...	39·16	38·50	53·00	33·00	Calm, NW, NE	0 to 1	bc. b. bcq.
22	·270	·324	·296	2·5	–2·5	–0·458	28·500	–1·0	–8·0	–4·39	...	...	38·83	40·08	53·00	33·00	N, calm, W, SW, NW . .	0 to 3	bc. oc. ocm. oms.
23	·000	·108	·105	11·0	3·0	7·875	28·500	1·5	–6·5	–3·62	...	...	43·16	43·91	54·08	33·50	WSW, SW	1 to 6	oms. omqs. omcq.
24	·010	29·950	29·968	10·5	8·0	9·458	28·500	9·0	2·5	7·00	...	...	44·83	45·16	55·50	33·00	WSW, SW, calm	0 to 5	cm. om. omq.
25	·160	30·100	30·110	8·0	–1·0	4·750	28·500	10·0	3·5	7·45	...	...	47·16	47·50	55·16	33·50	SW, E, calm	0 to 3	om. c. bc. o.
26	29·914	·054	·049	3·0	–4·0	0·050	28·500	4·0	–6·5	–1·37	...	...	46·41	47·16	52·00	33·00	Calm, NNE, NE, E . . .	0 to 2	om. co. bc. bcm.
27	·810	29·824	29·832	4·0	–2·0	0·458	28·500	1·0	–11·5	–4·54	...	...	45·58	46·75	47·91	32·50	NE, calm, SE, S	0 to 1	bc. cm. om. bcm.
28	·730	·790	·783	Zero	–4·0	–1·458	28·500	–1·0	–12·5	–6·04	...	...	45·25	45·50	49·83	33·00	Calm, S, ESE, SE . . .	0 to 4	bc. omg. om. oc.
29	·618	·670	·677	7·0	–0·5	1·791	28·500	–5·0	–11·0	–7·20	...	...	46·91	46·91	49·66	33·00	Calm, NE, ESE	0 to 2	oms. om. of. ogs.
30	·670	·636	·642	5·0	–6·0	1·416	28·500	1·0	– 5·0	–2·25	...	...	47·16	47·66	51·00	33·50	Calm, NNW	0 to 2	om. com. bc.
31	·618	·696	·736	5·0	–6·0	1·416	28·500	–2·0	–18·0	–6·20	...	...	47·16	47·66	50·00	33·50	Calm, NNW	0 to 2	bc. om. com.
Max.	30·322	30·324	...	26·0	...	...	28·500	...	...	...	...	...	48·08	51·83	60·16	39·50			
Min.	29·332	29·332	...	...	–9·0	...	28·500	...	...	...	...	...	38·25	37·58	45·50	32·50			
Mean	29·851	29·848	29·851	...	...	9·508	28·500	...	...	...	...	...	45·14	45·10	53·71	34·53			

NOVEMBER, 1853.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.							
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.	Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.	Direction.	Force.	
Nov. 1	29·650	29·696	29·681	2·0	− 9·0	− 4·160	7·0	−21·0	− 7·58	46·66	45·33	52·16	52·583	...	40·50	...	NNE, NNW, NE	1 to 4	om.bc.com.omg.
2	·714	·650	·662	4·5	− 1·0	2·625	4·0	− 1·5	1·29	43·83	43·33	48·83	46·583	...	39·00	...	N, NE, NNE	2 to 6	om.comd.oms.
3	·650	·710	·696	5·0	2·0	3·541	1·0	− 6·0	− 2·12	45·83	45·50	51·50	48·083	...	40·00	...	NE, WNW, NNW	1 to 2	bc.bcm.om.
4	·638	·610	·618	4·0	3·0	3·583	2·0	− 4·0	− 1·27	49·66	48·50	54·00	50·250	...	40·00	...	Calm, NNW, NW, NNE	0 to 2	com.om.oms.
5	·700	·684	·678	9·0	4·0	6·500	2·0	− 3·0	− 0·37	49·16	49·00	51·66	51·333	...	40·50	...	NNE, calm, NNW, ENE	0 to 2	om.m.com.oms.
6	·666	·640	·639	9·0	4·0	6·083	1·0	−12·5	− 6·12	50·50	51·83	54·83	51·416	...	41·00	...	NNW, calm, NW	0 to 3	oms.om.com.
7	·880	·750	·749	5·0	− 1·5	2·125	− 6·0	−18·5	−12·00	49·66	51·50	56·33	53·833	...	41·00	...	Calm, S.	0 to 1	oms.om.bc.m.
8	30·060	·950	·954	2·0	−15·0	− 8·916	−15·5	−33·0	−27·53	46·66	47·16	55·66	51·250	...	42·00	...	Calm, S, ENE, SE, SSE	0 to 1	com.bc.b.
9	29·883	30·086	30·027	−10·0	−15·0	−12·333	−21·0	−33·0	−27·58	46·83	47·66	51·00	49·333	28·62	41·00	...	SSE, calm	0 to 1	bc.bcm.f.fs.
10	·470	29·561	29·580	− 4·0	−11·0	− 8·583	−14·0	−28·0	−21·87	47·66	49·00	50·16	51·083	29·16	41·50	...	Calm, SSE, WNW, SW	0 to 3	fs.bc.com.omg.
11	·402	·510	·477	− 3·0	− 8·0	− 5·000	−12·5	−14·0	−13·41	47·83	48·66	48·50	49·750	28·66	41·00	...	SW, SSW, S	1 to 7	om.oms.comq.
12	·608	·460	·479	− 3·0	−11·0	− 7·833	−14·0	−23·0	−17·50	48·00	46·91	51·33	46·750	27·16	41·50	...	SW, calm, S, SSE, S by E	0 to 7	com.bcm.mq.
13	·980	·764	·792	− 4·0	−10·0	− 7·666	−13·5	−17·5	−14·58	47·83	49·33	50·83	45·333	24·66	41·00	...	S by E, SE, SSE	2 to 8	omq.bcqd.bcmq.
14	30·210	30·120	30·130	− 6·0	−14·0	−11·083	−14·0	−20·0	−17·62	43·83	45·00	48·83	47·250	20·83	40·50	...	SE, S, N	1 to 6	bcm.emq.bcq.
15	·232	·220	·222	− 6·0	−13·5	−10·583	−22·0	−29·5	−24·75	44·00	45·33	51·33	49·333	22·50	40·00	...	Calm, SE, NW, S	0 to 1	bc.
16	·102	·182	·173	− 9·0	−14·0	−11·291	−19·0	−27·0	−23·10	46·50	46·50	51·50	50·666	24·50	39·00	...	Calm, W	0 to 1	bc.bm.om.
17	·050	·046	·053	− 4·0	−10·0	− 5·875	−15·0	−24·5	−18·75	47·83	47·83	51·16	50·750	21·16	39·50	...	Calm, W, WNW, NW, S	1 to 2	bc.co.c.com.
18	29·864	29·973	29·966	− 2·0	− 7·0	− 4·708	−14·0	−23·5	−17·83	46·66	47·08	50·33	52·250	22·66	39·00	...	Calm, SW, S, W	0 to 2	om.bc.co.
19	·813	·850	·841	− 4·0	− 8·0	− 6·000	−16·0	−26·0	−21·45	47·00	48·16	52·00	52·416	18·83	39·50	...	SW, calm, SE, S, SSE	0 to 3	om.bc.
20	·706	·710	·728	− 6·5	−10·0	− 8·541	−14·0	−24·0	−17·62	43·50	44·83	51·16	51·500	16·33	39·00	...	SSE, S, S by E	3 to 8	co.cos.om.bcmg.
21	·701	·720	·713	− 5·0	−12·0	− 9·541	−17·0	−22·0	−21·16	41·66	43·83	48·33	49·666	16·33	39·50	...	S, SSE, S by E, SE	3 to 7	omg.bm.cg.bcm.
22	·800	·730	·586	− 9·0	−15·0	−13·500	−23·0	−26·0	−24·62	42·83	42·33	49·16	50·916	12·16	38·00	...	S, SE, ESE, calm, SE	0 to 5	om.bcm.b.bcmq.
23	·950	·900	·898	−13·0	−15·0	−14·375	−26·0	−34·0	−29·70	42·00	42·41	49·83	48·916	21·66	38·00	...	NE, calm, N, SE, SSE	0 to 1	bc.bcm.b.
24	·966	·960	·953	−14·0	−18·0	−16·333	−31·0	−36·5	−33·04	42·50	42·33	51·33	49·000	20·00	38·50	...	SSE, calm, SE, NE, S	0 to 2	co.b.bc.
25	·910	·966	·950	−16·0	−22·0	−19·250	−34·0	−37·0	−35·45	43·33	45·33	51·50	47·833	20·16	38·00	...	SE, NE, ENE, calm	0 to 4	b.ocm.co.
26	·712	·860	·837	−16·0	−21·0	−19·541	−30·0	−36·0	−32·37	42·33	43·66	48·83	46·833	18·16	38·00	...	Calm, WSW	0 to 1	b.
27	·470	·650	·618	−14·0	−17·0	−15·833	−28·0	−33·0	−30·12	45·50	45·33	51·00	48·500	25·83	38·50	...	N, calm, NE, SE, SW	0 to 2	b.bc.bcm.c.
28	·368	·330	·361	− 7·0	−15·0	−10·750	−15·0	−29·5	−22·87	44·00	47·33	50·83	50·000	27·00	37·00	...	Calm, SE, SW	0 to 2	c.bc.bcm.co.
29	·480	·518	·490	− 5·0	− 9·0	− 7·166	−13·5	−22·0	−19·20	47·00	47·91	50·16	48·583	24·83	37·50	...	SW, calm, SSE, SSW	0 to 3	bc.b.bm.co.o.
30	·700	·500	·542	− 4·0	−12·0	− 7·875	−12·0	−20·5	−15·87	46·33	47·58	50·58	47·250	25·50	37·00	...	SSW, S, SSE, N to calm	0 to 8	om.com.bcmq.
Max.	30·232	30·220	...	9·0	...	...	7·0	...	...	50·50	51·83	56·33	58·000	...	42·00				
Min.	29·368	29·330	...	...	−22·0	...	...	−37·0	...	41·66	42·33	48·33	33·000	...	37·00				
Mean	29·765	29·777	29·770	...	...	− 7·409	...	...	−18·33	45·83	46·56	51·16	49·308	22·53	39·20				

Capstan liable to cold blasts.

DECEMBER, 1853.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.							
Dec. 1	29·680	29·540	29·720	- 7·0	-11·0	- 8·833	-18·5	-24·0	-21·08	46·50	48·33	50·66	48·666	28·33	37·00	55·00	N, calm	0 to 1	bc. b c m. b.
2	·540	·750	·552	- 7·0	-13·0	-10·000	-19·0	-27·0	-23·04	46·66	48·33	49·50	49·583	26·66	37·00	56·00	Ca m, SSE, SE, N	0 to 3	b c. b c m. b m q. b.
3	·600	·550	·554	- 3·5	- 7·0	- 5·875	-15·0	-20·0	-17·25	49·16	51·66	53·00	49·250	29·00	37·50	55·00	Calm, ENE, E, S, SSE	0 to 2	b m. b. b c m. o m s.
4	·830	·702	·772	- 2·0	- 9·0	- 4·541	-16·0	-31·0	-22·79	48·83	52·00	54·16	50·416	33·16	37·00	56·00	S, SE, ESE, calm	0 to 2	b c. o m. b c m.
5	·800	·877	·849	-13·0	-17·0	-15·750	-31·0	-35·5	-33·66	43·91	46·41	50·08	51·416	23·33	37·00	52·00	SE, calm	0 to 3	b c. b c m. b c o. b m.
6	·750	·762	·753	-12·0	-17·0	-14·583	-31·0	-35·0	-32·70	44·83	46·83	51·66	49·916	22·50	37·00	50·00	SSE, S, calm, W, WSW	0 to 2	b c. b m.
7	·812	·808	·798	-13·0	-16·0	-14·333	-29·0	-33·0	-31·04	45·50	46·00	48·83	50·333	23·33	37·50	50·00	WSW, calm, S, SSE	0 to 1	c o. b c. o m. c o m.
8	·760	·770	·776	-15·0	-22·0	-18·666	-32·5	-37·0	-34·58	42·75	44·58	48·50	49·166	19·83	37·00	49·00	Calm, W, NW, SSE	0 to 5	b c. b c m. b m. b m q.
9	·880	·780	·804	-20·0	-23·0	-21·250	-29·0	-35·0	-32·00	41·58	42·41	48·66	46·500	17·33	37·00	45·00	SE, SSE, calm	0 to 5	b c. b. b m.
10	30·116	30·002	30·019	-19·0	-24·0	-21·083	-34·5	-38·0	-36·25	48·33	49·08	49·33	47·666	26·33	37·00	49·00	Calm, SSE, S, SE	0 to 1	b. c o m. b c.
11	·112	·160	·144	-18·0	-22·0	-20·416	-25·0	-40·0	-36·95	48·50	51·08	48·50	49·333	28·33	37·00	55·00	SE, ESE, calm	0 to 1	b c. b.
12	·050	·050	·074	-15·0	-23·0	-19·375	-27·0	-39·0	-33·66	47·16	49·75	49·33	49·333	28·50	37·00	55·00	S, SSE, SW, ESE	1 to 2	b c. o m.
13	·024	·060	·046	-12·0	-18·0	-15·416	-20·5	-32·5	-28·04	47·16	48·75	47·33	48·583	27·16	37·00	53·00	Calm, SSE, ESE, S	0 to 2	b. b c.
14	·074	·040	·044	- 6·0	-12·0	- 9·666	-19·0	-27·0	-23·66	47·33	49·16	50·66	48·583	30·16	37·00	55·00	SSE, S, calm, NW	0 to 2	c. o c. b c. o m.
15	·050	·084	·070	- 9·0	-13·0	-11·416	-27·0	-31·0	-29·25	48·00	50·16	50·83	50·083	27·33	37·00	55·00	Calm, S, S by W, SSE, SE	0 to 1	b c. o m. c.
16	29·950	·020	·008	- 7·0	-12·0	- 9·666	-21·0	-30·0	-24·91	48·16	50·50	53·16	52·666	31·33	37·00	53·00	Calm, S, W, NNW, SW	0 to 2	o m. o m c. c s. o s.
17	·900	29·814	29·901	-10·0	-19·0	-15·000	-32·0	-39·0	-36·45	48·50	50·50	53·16	52·250	29·33	37·00	54·00	SE, calm, E	0 to 2	b c. b.
18	·914	·900	·901	-16·0	-23·0	-19·125	-33·0	-37·0	-35·41	46·16	48·33	46·50	49·250	28·00	37·00	53·00	Calm, SE, S, SSW	0 to 1	b. b c. b y.
19	·900	·906	·901	-10·0	-19·0	-15·541	-16·0	-35·0	-25·41	44·25	46·33	47·33	46·666	22·66	37·00	51·00	Calm, NW, SE, SE by E	0 to 7	o m. b c. b. b m.
20	·570	·723	·710	- 9·0	-13·0	-10·708	-17·0	-30·5	-23·66	45·83	48·33	49·00	49·666	28·16	37·50	52·00	Calm, SW	0 to 2	b c. o m. b.
21	·830	·700	·700	-10·0	-19·0	-15·250	-25·0	-37·0	-30·87	46·33	48·33	49·50	49·000	26·66	37·00	52·00	SW, calm, W, SSW, S, SE	0 to 5	b c. o m. b c m. o c.
22	·608	·750	·723	-11·0	-16·0	-14·500	-20·0	-31·0	-25·25	46·16	49·16	49·33	47·500	26·33	37·00	53·00	SW, NW, calm, SE, ESE	0 to 4	c o m. o m. b m q.
23	·770	·676	·687	-12·0	-15·0	-13·750	-30·0	-35·0	-31·54	46·33	49·00	50·33	50·000	29·16	38·00	54·00	S, SSE, SE	1 to 4	o c. b. b c m. o m g.
24	30·020	·850	·887	-10·0	-20·0	-16·250	-22·0	-38·0	-30·79	46·66	47·83	50·16	49·333	27·83	38·00	54·00	SSE, SE, S	1 to 6	b c m. c m. b m.
25	29·926	·950	·974	- 7·0	-16·0	-11·833	-16·0	-25·0	-20·00	48·83	49·33	49·66	47·500	26·00	38·00	54·00	SE, SSE	3 to 6	c. b c m. b m q. o m.
26	30·150	30·010	30·082	- 7·0	-17·0	-12·750	-19·0	-28·5	-25·91	47·00	49·33	47·33	48·916	27·66	38·00	54·00	SSE, SE, calm	0 to 5	c q o. c q. b m. b c q.
27	29·400	29·724	29·677	- 9·0	-17·0	-12·333	-21·0	-32·0	-26·16	47·50	47·50	47·66	46·916	27·33	38·00	54·00	Calm, W, S, NW	0 to 2	o m. b m. b c m.
28	30·100	·650	·718	-10·0	-23·0	-16·791	-26·5	-46·0	-40·33	46·50	48·16	49·00	50·833	27·83	38·00	54·00	NW, W, SW, calm, S	0 to 3	o m q. b c m. c o m.
29	·500	30·442	30·423	-21·0	-27·0	-24·333	-35·0	-46·5	-43·04	44·83	47·33	49·16	49·333	27·16	37·00	56·00	SE, S, calm, SW, SE	0 to 4	b. b m.
30	29·916	·200	·184	- 8·0	-21·0	-14·583	- 7·0	-29·0	-17·62	42·66	45·33	47·33	46·333	22·33	37·00	54·00	SSE, SE	2 to 9	c q o. c q. b c m q.
31	·692	29·370	29·645	12·0	- 5·0	2·333	12·0	- 7·0	2·83	44·50	46·33	48·16	44·166	25·16	37·00	51·00	Calm, SE, SSE, E	0 to 9	o s. o m. c o m. o m q.
Max.	30·500	30·442	...	12·0	...	...	12·0	...	...	49·16	52·00	54·16	55·000	33·16	38·00	56·00	} Sylvester Region.		
Min.	29·400	29·550	...	...	-27·0	...	...	-46·5	...	41·58	42·41	47·33	34·000	17·33	37·00	45·00			
Mean	29·884	29·858	29·899	...	...	-13·740	...	...	-28·08	43·11	48·26	49·93	49·005	23·43	37·21	53·00			

JANUARY, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows	Main Mast.	Gun Room.					Direction.	Force.	
Jan. 1	28·990	29·050	29·095	25·0	14·0	18·541	25·0	14·00	18·41	47·33	49·00	51·50	44·916	27·00	38·0	52·0	E, ENE	4 to 10	o m q.
2	29·550	·300	·316	22·0	10·0	17·708	26·0	− 2·50	7·50	54·33	57·33	57·83	49·833	39·00	38·0	57·0	SE, calm, E, S	0 to 4	os. o m. o m s. o m q.
3	·650	·660	·644	12·0	− 7·0	− 0·375	− 7·0	−21·00	−15·41	50·16	51·66	57·33	53·083	31·00	38·0	54·0	SE, S, SSE, *calm*	0 to 6	b c. b e m q. b m.
4	·560	·616	·604	1·0	− 8·0	− 4·883	−18·5	−28·50	−24·62	52·00	53·50	56·16	52·416	33·50	38·0	54·0	SSE, calm, S, SE	0 to 2	bc. b. b e m. c o.
5	·502	·532	·529	− 5·5	−10·5	− 8·416	−27·5	−35·00	−31·45	50·00	51·50	53·66	51·500	31·33	39·0	54·0	W, calm, SE, SSE	0 to 1	o. b c.
6	·670	·490	·580	− 5·0	− 7·0	− 6·666	−24·0	−30·00	−26·70	49·66	50·33	54·33	51·500	33·33	39·0	55·0	Calm, S, SW, SE	0 to 2	m. b e m. o m. b m.
7	·884	·800	·800	− 7·0	−14·0	−10·083	−25·0	−33·00	−29·83	49·00	46·83	51·83	53·333	30·16	39·0	54·0	SSE, calm, SE	0 to 2	bc. b e m. b m.
8	·900	·864	·837	−14·0	−21·0	−16·583	−34·0	−38·00	−36·29	47·83	49·33	53·66	51·416	29·50	40·0	54·0	SSE, calm	0 to 3	bc. b e m. b. c o.
9	30·020	30·010	30·001	−15·5	−22·0	−18·208	−37·5	−45·00	−41·33	46·33	49·00	51·83	49·625	28·16	39·0	55·0	Calm, SE	0 to 3	bc. b.
10	29·878	29·950	29·947	−20·0	−22·0	−21·333	−43·5	−45·00	−44·66	47·16	48·16	51·00	47·583	26·50	40·0	54·0	Calm	0	b.
11	·850	·880	·875	−19·0	−23·0	−20·708	−40·0	−44·00	−41·62	46·16	47·16	53·16	48·166	27·33	40·0	54·0	Calm	0	b e m. b.
12	·900	·860	·864	−16·0	−20·0	−18·916	−40·0	−43·00	−41·58	46·66	47·16	52·66	48·083	27·33	40·0	54·0	Calm	0	b. b c.
13	·820	·920	·906	−17·0	−21·0	−19·250	−39·0	−43·50	−41·25	47·66	47·50	51·50	47·666	27·33	38·0	54·0	Calm, SE	0 to 1	b. b c.
14	·610	·604	·655	−15·0	−23·0	−19·416	−27·5	−44·00	−37·54	46·33	47·83	49·66	47·916	27·00	39·0	52·0	SE, calm, SSE	0 to 2	b. b c. *o e.*
15	·490	·590	·562	−14·0	−17·0	−15·333	−28·0	−37·50	−32·79	47·50	50·33	51·83	48·250	31·16	38·0	57·0	Calm, NW, SE	0 to 1	c o m. b m. b c.
16	·673	·574	·593	−15·0	−19·0	−16·083	−35·0	−40·70	−38·37	46·00	48·66	53·00	45·666	28·33	39·0	53·0	Calm, SW, S	0 to 1	b c. c.
17	·824	·783	·780	−16·0	−22·0	−19·333	−43·0	−49·70	−46·75	45·83	49·66	49·66	44·500	29·50	38·0	53·0	S, calm	0 to 1	b c. b e m. o c. b m.
18	·854	·855	·851	−21·0	−23·0	−22·125	−46·0	−50·25	−47·79	45·66	47·33	50·33	46·416	30·16	38·0	54·0	S, calm	0 to 1	b m. m. b e m. e m.
19	·800	·810	·821	−21·0	−25·0	−23·416	−49·0	−53·25	−50·33	46·83	48·00	50·83	45·416	27·33	38·0	54·0	Calm, SSE, S	0 to 1	c o. c o m. b m. b c.
20	·850	·868	·856	−22·0	−28·0	−25·000	−50·5	−54·25	−52·45	46·33	47·50	50·83	46·416	29·50	37·0	54·0	Calm	0	bc. b.
21	·720	·750	·750	−26·0	−27·0	−26·500	−49·0	−54·75	−52·20	45·83	47·66	50·50	44·583	27·50	37·0	53·0	Calm, S, SSE	0 to 2	b m. c o m. b. b c.
22	·680	·714	·708	−21·0	−26·0	−24·375	−39·5	−49·25	−44·45	44·83	46·50	50·50	45·916	26·16	38·0	54·0	S, calm, SSW, SE	0 to 3	b. b m. b e m. b v.
23	·284	·530	·509	−17·0	−22·0	−19·833	−29·0	−40·25	−34·83	43·50	46·33	52·83	42·750	25·83	37·0	54·0	SSW, SW, N	1 to 4	b c. b m. o. o m.
24	·214	·224	·234	−11·0	−17·0	−13·583	−27·0	−32·25	−29·33	48·83	52·66	54·66	44·166	33·83	37·0	57·0	N, NNW, NW	1 to 3	o m. c o m. b e m.
25	·330	·274	·281	−12·5	−19·0	−15·791	−33·0	−42·75	−37·95	48·83	50·83	53·83	46·416	28·16	37·0	54·0	N, NW, *calm*, NNW	0 to 2	bc. c o. b m.
26	·600	·472	·481	−18·0	−25·0	−22·166	−44·0	−51·25	−48·54	46·00	47·16	51·83	47·666	23·00	37·0	53·0	NNW, SW, WNW, calm	0 to 1	b. b m. c o m. b e m.
27	·590	·630	·619	−26·0	−34·0	−28·375	−51·0	−53·75	−52·91	44·66	46·00	49·16	45·416	20·66	37·0	54·0	W, calm	0 to 1	c o. b c. b m.
28	·560	·590	·584	−31·0	−38·0	−35·416	−55·0	−59·25	−57·12	45·16	44·33	49·33	48·666	19·38	35·0	53·0	Calm	0	b m. b.
29	·600	·560	·573	−32·0	−38·0	−35·416	−55·0	−59·25	−57·12	44·00	45·83	47·83	45·166	23·00	36·0	52·0	SE, SW, SSE	1	bc. b m.
30	·760	·720	·712	−31·0	−34·0	−32·291	−51·0	−55·75	−53·87	41·66	43·66	48·33	41·583	21·66	35·0	52·0	SSE, calm, SSW	0 to 2	b. b c. b m.
31	·778	·770	·765	−18·0	−33·0	−22·416	−28·0	−61·25	−35·50	43·66	45·33	48·50	42·750	25·50	35·0	53·0	Calm, SSW, SSE, S, ESE	0 to 1	b m. b c. o m s. o m.
Max.	30·020	30·010	...	25·0	...	...	26·0	...	...	54·33	57·33	...	...	...	40·0	57·0			
Min.	28·990	29·050	...	...	−38·0	...	...	−59·25	...	41·66	43·66	...	...	...	35·0	52·0			
Mean	29·657	29·652	29·657	...	...	−16·971	...	...	37·38	46·89	48·53	51·92	...	28·83	38·0	53·9			

FEBRUARY, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.							
Feb. 1	29·750	29 764	29·758	−17·0	−22·0	−19·833	−37·0	−43·25	−40·37	44·00	46·50	51·33	45·833	28·00	35·00	52·0	S, calm	0 to 1	bc. bcm. b.
2	·880	·814	·819	−20·0	−25·0	−22·166	−42·5	−46·25	−43·79	44·83	47·00	50·83	48·000	28·33	35·00	52·0	Calm, S, SE, SSW	0 to 2	b. bm. bc.
3	·764	·770	·786	−23·0	−26·0	−24·416	−45·0	−47·75	−46·41	47·33	51·00	51·66	46·166	31·16	36·00	54·0	Calm, ENE, NNW, SE	0 to 1	bc. b.
4	·750	·800	·785	−24·0	−27·0	−25·166	−45·0	−49·75	−47·58	45·50	49·00	50·83	48·833	27·66	36·00	53·0	Calm, S, SSE, ENE, E.	0 to 3	b. bcm.
5	·470	·600	·587	−17·0	−25·0	−21·916	−38·0	−44·75	−40·41	45·83	48·33	52·33	48·583	29·33	35·00	53·0	N, calm, SSE	0 to 2	o. coms. os. oms.
6	·676	·522	·550	−20·0	−25·0	−22·125	−40·5	−51·75	−45·54	44·83	46·16	50·66	44·833	27·00	34·00	53·0	SW, SSW, calm, SSE	0 to 2	bcm. bc. b. com.
7	30·000	·850	·856	−25·0	−37·0	−30·750	−50·5	−55·25	−52·91	42·83	43·66	49·83	44·500	24·16	35·00	50·0	SSE, SE	1 to 4	c. bc. oc.
8	·250	30·200	30·192	−28·0	−38·0	−32·416	−42·0	−48·75	−46·79	41·33	43·33	46·00	42·416	21·66	35·00	48·0	SSE, SE	1 to 4	bc. bcm.
9	29·910	·030	29·884	−28·0	−35·0	−31·833	−43·0	−55·75	−48·41	40·66	43·00	50·16	41·583	23·00	34·00	49·0	SE, calm, SSE	0 to 3	bc. b.
10	30·050	29·800	30·029	−29·0	−32·0	−30·208	−49·0	−55·75	−51·20	41·83	44·83	50·50	41·833	25·33	34·00	49·0	SSW, SE, calm, ESE	0 to 3	bv. b. bm. bc.
11	29·990	30·020	·127	−27·0	−36·0	−31·583	−44·0	−54·25	−50·20	46·75	44·00	48·16	44·166	22·50	35·00	47·5	SE, calm, SW	0 to 4	b. bc. bcm. om.
12	30·200	·126	·076	−21·0	−30·0	−25·666	−36·0	−47·25	−41·95	39·50	42·58	51·16	47·166	25·66	35·00	50·0	SW, S, SSW	1 to 5	om. bc. com.
13	29·930	·100	29·858	−16·0	−23·0	−19·541	−33·0	−36·25	−33·95	41·66	44·66	49·25	43·750	27·00	35·00	51·0	S	2 to 7	ome. omq. om.
14	·700	29·910	·506	−17·0	−26·0	−21·833	−34·5	−40·90	−37·50	43·50	44·16	48·16	42·583	23·85	34·00	50·0	SSW, S, ESE, SE	1 to 6	bcmq. bcm. b. bc.
15	·550	·428	·649	−17·0	−26·0	−20·666	−24·0	−38·87	−32·37	41·16	42·83	48·83	44·000	24·50	35·00	50·0	SE, SSE, S	½ to 8	bc. bcm. cqom.
16	·732	·650	·769	−13·0	−17·0	−14·250	−23·0	−30·87	−25·87	42·50	45·66	50·16	45·000	27·33	35·00	52·0	SSE	5 to 7	coqd. omq. bc.
17	·602	·826	·761	−14·0	−25·0	−20·750	−29·0	−37·37	−33·25	42·16	44·83	48·16	44·750	25·50	35·00	47·5	SSE, N, calm	0 to 5	bcq. bc. bcmq. bq.
18	·170	·332	·354	−11·5	−17·0	−14·208	−28·0	−34·05	−30·20	44·33	45·66	50·33	47·083	28·33	34·00	50·0	Calm, SW, SE, W	0 to 1	bm. om. bcm. com.
19	·100	·090	·183	−15·0	−22·0	−18·916	−34·0	−40·37	−37·33	43·33	46·16	51·66	50·333	26·66	34·00	51·0	S, SW, WSW, WNW, N	0 to 3	om. bcm. bm. em.
20	·320	·188	·194	−22·0	−25·0	−22·500	−40·0	−44·00	−41·45	42·50	46·33	49·33	47·000	27·83	34·00	50·0	W, WSW, calm, S, SW	0 to 1	em. bm. b.
21	·420	·418	·404	−21·0	−25·0	−23·583	−35·0	−45·00	−40·83	43·33	46·00	50·50	46·333	26·33	34·00	51·0	Calm, SE, S	0 to 1	bm. b.
22	·610	·500	·507	−15·0	−20·0	−18·333	−30·0	−39·25	−34·87	42·83	44·66	47·66	46·166	27·33	34·00	50·0	SW, calm, S, SW	0 to 4	bcm. oms. bm. bc.
23	·850	·732	·738	−18·0	−20·0	−18·958	−34·0	−40·50	−37·41	40·66	43·16	47·50	45·083	24·66	35·00	49·0	S, SW, SE, calm	0 to 1	om. bc. b.
24	30·174	·960	30·002	−18·0	−22·0	−20·416	−36·0	−45·00	−40·54	40·50	44·16	50·83	46·416	25·16	35·00	51·0	SSW, S, calm	0 to 3	b. bc.
25	·160	30·350	·279	−20·0	−24·0	−22·583	−39·0	−45·62	−41·87	39·33	42·83	49·33	47·416	23·66	34·00	51·0	S, calm, SE, W, SSE, SSW	0 to 4	bc. bm.
26	29·850	29·831	29·850	−21·0	−25·0	−22·750	−37·0	−43·62	−40·29	39·00	43·00	49·50	47·083	24·16	33·00	49·0	S, calm, NW	0 to 1	b. bm.
27	·810	·632	·687	−20·0	−22·0	−21·000	−30·5	−41·00	−36·91	38·50	43·00	49·00	46·583	23·83	34·00	49·0	SSW, S, calm, SE	0 to 3	b. bc.
28	·900	·900	·891	−13·0	−20·0	−16·208	−20·5	−32·50	−26·62	40·16	43·50	47·66	47·416	26·16	34·00	49·0	Calm, SW	0 to 1	bc. b. bcm.
Max.	30·250	30·350	...	−11·5	...	...	−20·5	...	...	...	...	...	...	...	36·00	54·0			
Min.	29·100	29·090	...	...	−38·0	...	...	−55·75	...	...	...	...	...	...	33·00	47·5			
Mean	29·763	29·755	29·751	...	...	−22·627	...	...	−40·24	42·52	44·98	49·44	...	25·98	34·46	50·0			

MARCH, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.					Direction.	Force.	
Mar. 1	29·716	29·850	29·818	– 8·0	–14·0	–10·250	–18·0	–29·00	–23·00	40·00	45·66	49·66	48·916	29·16	35·00	51·00	NW, SW, calm, SE . . .	0 to 2	b.c.c.b.oc.
2	·770	·650	·680	– 8·0	–13·0	–10·083	–16·5	–34·12	–24·62	42·00	47·00	51·83	50·416	27·50	34·00	51·00	SSW, calm, S	0 to 1	com.bem.bc.
3	30·280	30·034	30·045	–20·0	–22·0	–20·750	–28·0	–36·50	–31·91	41·00	45·50	49·83	50·458	25·50	34·00	50·00	N, SW, NE, calm, SSW, S	0 to 2	bc.b.
4	·390	·288	·306	–19·0	–25·0	–21·333	–24·0	–36·37	–30·00	40·00	45·16	50·83	48·416	26·66	34·00	50·00	Calm, SE	0 to 5	bc. beq.
5	·264	·363	·352	–18·0	–22·0	–20·250	–25·0	–38·25	–31·54	41·00	46·83	53·16	52·583	26·00	34·00	49·00	Calm, SE, ESE, W . . .	0 to 4	b. bq. bc. bm.
6	·080	·170	·171	–20·0	–25·0	–22·000	–31·0	–44·00	–38·83	39·00	44·33	49·83	48·416	22·83	34·00	49·00	SE, calm	0 to 3	bc. b.
7	29·795	29·940	29·920	–25·0	–29·0	–27·583	–31·0	–44·37	–39·70	39·00	43·66	52·83	46·208	23·83	34·00	49·00	Calm	0	b. bm.
8	·800	·750	·767	–15·0	–27·0	–21·063	–20·0	–36·00	–28·41	39·50	43·16	53·50	47·916	24·16	34·00	50·00	Calm	0	bc.o.
9	·900	·844	·848	–17·0	–24·0	–21·125	–19·0	–38·37	–30·70	39·50	44·00	55·00	48·000	25·66	35·00	50·00	SE, ESE, E	1 to 4	bc.bem.bm.b.
10	·944	·930	·926	–20·0	–25·0	–22·666	–30·0	–42·25	–35·87	40·00	44·33	55·33	46·583	25·50	34·00	51·00	ENE, calm, NNW, SSE, SE	0 to 5	bc.b.c.bq.bm.
11	·864	·864	·866	–20·0	–26·0	–23·541	–27·0	–36·00	–32·41	38·00	42·33	53·16	45·916	22·00	34·00	51·00	Calm, ESE, E	0 to 7	bm.bmq.b.bq.
12	·732	·740	·750	–19·0	–23·0	–21·375	–26·5	–30·75	–28·25	38·00	42·50	54·16	45·666	22·00	34·00	57·00	ESE, S	1 to 5	cq.bemq.bm.b.
13	·816	·808	·789	–17·0	–25·0	–21·125	–23·0	–44·81	–35·41	40·00	44·16	52·16	49·541	24·16	34·00	50·00	Calm, SE, SSW, SW . .	0 to 3	bm.bem.bc.b.
14	·618	·852	·788	–22·0	–54·0	–26·583	–35·0	–49·62	–42·83	38·83	42·66	52·00	48·416	21·00	34·00	50·00	S, SSW, calm, SE, SSE, E	0 to 3	c.bm.b.bc.
15	·528	·534	·543	–21·0	–31·0	–26·333	–23·5	–40·00	–34·33	37·25	40·66	50·33	46·666	20·83	34·00	50·00	Calm, E, SSE, SE . . .	0 to 5	bc.bm.b.bmq.
16	·760	·632	·655	–18·0	–23·0	–20·666	–23·0	–29·62	–25·66	34·66	38·50	51·00	46·500	21·66	34·00	51·00	ENE, E, SE, SSE . . .	2 to 6	c.cm.ocm.oc.
17	·930	·810	·664	–18·0	–25·0	–21·500	–22·5	–31·37	–27·91	35·00	38·83	50·50	45·041	16·33	34·00	51·00	SSE, ESE, SE, calm . . .	0 to 8	bom.beq.bc.q.
18	·825	·914	·887	–10·0	–19·0	–14·250	–14·0	–24·25	–19·41	37·00	42·41	51·83	44·208	17·33	34·00	50·00	SSE, N by W, variable . .	2 to 7	obm.om.
19	30·130	·804	·897	– 9·0	–18·0	–14·000	–12·5	–38·37	–28·22	36·66	42·00	52·00	47·625	25·33	34·00	62·00	NE, NNW, calm, S, SW .	0 to 2	om.m.cm.c.bc.
20	29·960	30·244	30·154	–15·0	–21·0	–18·666	–24·0	–40·12	–32·25	38·66	44·16	51·16	49·291	24·16	34·00	51·00	Calm, NNW, WSW . . .	0 to 2	bc.om.m.
21	·800	29·610	29·672	–17·0	–21·5	–19·083	–22·5	–39·37	–31·41	39·16	44·50	52·66	48·416	29·66	34·00	54·00	WSW, NNW, N, calm, S .	0 to 3	m.om.bm.obc.
22	·900	·650	·698	–15·0	–20·0	–17·916	–23·0	–39·37	–33·08	39·66	45·00	50·91	48·833	31·50	34·00	52·00	Calm, SE by S, S, SW . .	0 to 3	bm.bc.o.
23	30·200	·966	·999	–16·0	–22·0	–19·541	–27·5	–42·25	–35·41	40·33	46·83	51·00	45·166	30·83	35·00	54·00	NE, SSE, calm, NW . .	0 to 3	obm.om.bm.obc.
24	·250	30·138	30·138	–17·0	–21·0	–19·083	–21·0	–37·06	–30·50	38·50	44·00	52·00	44·375	32·00	35·00	51·00	SSW, calm, NNW, NW .	0 to 4	om.b.bc.bm.
25	·500	·384	·392	–19·0	–24·0	–21·291	–23·5	–43·00	–34·70	39·33	45·83	52·00	43·083	29·16	33·00	52·00	NW, calm, SSE, S, NW .	0 to 3	om.b.bc.
26	·350	·530	·473	–17·0	–22·0	–18·333	–23·0	–42·00	–32·20	39·33	45·80	52·00	46·208	33·16	33·00	57·00	SW, S by E, NW	2	b.bm.
27	·152	·232	·240	–16·0	–26·0	–21·500	–22·5	–46·00	–36·12	39·50	46·33	53·16	45·166	31·83	34·00	51·00	NW, calm, SSE, S . . .	0 to 2	bm.b.bc.
28	29·780	29·944	29·936	–15·0	–20·0	–17·833	–22·5	–35·19	–28·75	38·16	45·16	54·33	45·958	31·16	34·00	52·00	W, NW, NNW, W by N .	1 to 5	bc.m.drift.
29	·250	·442	·457	–10·0	–17·0	–13·250	–14·0	–36·06	–20·12	40·66	47·33	52·41	47·833	34·66	34·00	52·00	WSW, SW, S	2 to 3	m.oms.om.
30	·430	·234	·286	– 6·0	–15·0	–11·500	–13·0	–26·00	–19·91	41·66	49·66	55·66	46·916	35·50	34·00	53·00	SSW, SE, SSE	1 to 6	om.m.bc.
31	·500	·562	·537	–10·0	–18·0	–15·041	–14·0	–29·68	–22·33	40·00	46·83	52·83	45·958	30·86	34·00	53·00	SSE, E, SE	3 to 6	m.bc.o.oc.bem.
Max.	30·509	30·530	...	– 6·0	...	...	–12·5												
Min.	29·250	29·234	...	...	–34·0	...	...	–49·62											
Mean	29·900	29·926	29·892	...	...	–19·969	...	...	–30·86	39·15	44·39	52·23	47·216	26·43	34·06	51·74			

APRIL, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.							
April 1	29·680	29·518	29·550	−14·0	−25·0	−20·125	−18·5	−34·31	−26·70	37·83	45·16	53·33	44·750	29·83	33·00	51·00	ESE, N, SE, SSE	2 to 5	b m. b.
2	·764	·760	·753	−12·0	−20·5	−17·458	−12·0	−28·37	−22·33	37·50	43·50	51·83	43·541	28·50	34·00	58·00	SE by S, SE	3 to 6	b. b c q. o c q. b q.
3	·630	·650	·659	−11·0	−18·0	−14·083	− 6·0	−37·50	−24·45	41·66	48·66	52·83	46·500	33·00	34·00	53·00	SSE, N, calm, S, SSW	0 to 4	b. b c. m.
4	·700	·684	·677	−11·0	−16·0	−13·625	−10·5	−36·18	−25·75	43·00	49·00	54·83	45·041	34·66	34 00	55·00	SW, calm, SE, S	0 to 5	b. bc.
5	·540	·600	·611	− 7·0	−13·0	−11·250	−11·5	−23·18	−19·37	41·16	46·33	55·66	44·627	33·16	34 00	52·00	SSW, S	5 to 7	o m. o. b c.
6	·816	·610	·648	− 2·0	− 6·0	− 4·458	−10·0	−17·00	−12·91	40·50	46·00	56·66	47·166	33·16	34·00	53·00	WSW, SW, S	3 to 5	bc. o m.
7	30·150	30·012	30·012	Zero	−15·0	−10·500	− 8·5	−27·87	−20·25	42·50	49·16	57·50	49·708	35·66	35·00	53·00	Calm, SSE, ENE, SE	0 to 6	b c. o. b. b m.
8	·280	·224	·238	−10·5	−16·0	−13·458	−15·0	−35·12	−25·70	42·16	48·50	57·16	49·625	34·83	35·00	50·00	SE, ENE. NW, W, calm	0 to 5	b c. b.
9	·300	·330	·306	− 5·0	−11·0	− 8·000	−12·5	−29·50	−21·50	42·50	49·66	58·33	50·750	35·66	35·00	54·00	Calm, SE, S by E, S	0 to 1	b. bc. b c m.
10	·400	·340	·342	3·0	− 3·5	− 2·291	− 1·0	−16·25	−12·00	44·66	52·33	58·16	51·875	37·83	35·00	56·00	Calm, WSW	0 to 2	b. o. bc. o m.
11	·274	·420	·384	4·0	− 2·0	0·583	− 1·5	−21·37	−12·25	48·00	53·83	58·50	50·833	39·16	37·00	59·00	SE, calm, S, S by W, W	0 to 3	bc. o m. m.
12	·120	·150	·167	4·0	− 1·5	1·500	− 6·5	−18·12	−12·33	49·33	55·33	59·50	49·583	41·16	36·00	60·00	W, NNW, S, NW, SSW	1 to 4	o m. o.
13	29·738	29·650	29·872	7·0	3·0	5·416	2·0	−10·00	− 1·79	46·33	51·83	60·00	53·000	39·16	39·00	59·00	SSW, S, SSE, S by E	1 to 8	o c. o m. o. drift.
14	30·050	·812	·853	9·0	5·0	7·333	3·5	− 1·75	1·20	47·83	54·00	59·16	52·916	37·00	39·00	61·00	SSE, S, S by E. SSW, NW	3 to 9	o m. o q. o q m. b c.
15	·302	30·300	30·268	8·0	1·0	4·333	− 1·0	−18·25	−10·12	48·00	53·50	58·83	54·500	38·00	39·00	60·00	Calm, W, WSW, SSW, S	0 to 6	b c. b. drift.
16	·250	·234	·246	9·0	2·5	4·958	4·0	− 4·00	− 0·91	47·66	54·33	59·16	53·916	38·66	39·00	62·00	S, SW	4 to 7	b c. b. o. drift.
17	·214	·250	·215	15·0	10·0	12·166	7·2	− 7·00	2·80	48·00	53·33	58·83	55·083	35·83	39·00	60·00	S, SSE, SE	1 to 5	o. o q. b c.
18	·238	·204	·207	16·0	12·0	14·791	12·5	5·00	8·66	49·75	56·33	61·83	55·500	41·66	40·00	62·00	SE, calm, NE	0 to 4	o. b. o s. o c. b c.
19	·330	·260	·278	8·0	− 2·0	2·958	4·5	−11·00	− 3·41	47·00	51·33	60·66	53·125	42·00	39·00	56·00	NE, N by E, SE, E	2 to 5	b c. b c m: o m q. o m.
20	·350	·330	·332	13·0	2·0	7·250	12·0	− 6·50	0·77	45·83	49·16	57·91	54·666	38·16	40·00	55·00	Calm, SE, E by N, E	0 to 5	b. b c. b v.
21	·286	·340	·300	15·0	7·0	10·583	13·0	− 9·50	1·43	47·00	51·83	58·08	56·666	37·66	39·50	54·00	Calm, SE, E, S	0 to 3	b. bc.
22	·060	·144	·124	22·0	12·0	16·833	15·0	6·50	9·75	47·66	52·00	60·50	56·250	37·50	39·00	57·00	Calm, E	0 to 1	bc. o m s. o s.
23	·050	29·988	29·995	22·0	15·0	18·666	15·0	2·00	7·79	49·00	53·66	62·16	55·833	38·66	39·00	56·00	Calm, SE, E, S, NNE	0 to 2	o m s. b. b c. c. h. m.
24	·128	30·100	30·097	20·0	7·0	12·875	16·0	−12·00	0·37	46·16	50·83	58·50	54·916	35·33	40·00	55·00	NNE, calm, E by S, SSE	0 to 2	b c.
25	·174	·172	·170	22·0	7·0	12·000	15·0	− 6·00	2·91	42·50	46·50	61·66	56·750	Ceased registry.	40·00	49·00	Calm, E, ESE, SE, SSE	0 to 2	b c. b.
26	·252	·164	·188	19·0	− 5·5	5·875	14·5	− 8·50	3·65	38·66	42·75	58·83	52·958		39·00	49·00	SSE, calm	0 to 2	b c.
27	·240	·075	·224	16·0	6·0	10·250	16·0	3·00	9·45	39·50	43·83	58·16	51·333		39·00	49·00	Calm, SSE, SE	0 to 5	b. b c. o.
28	·020	·000	·002	20·0	16·0	18·041	21·0	15·00	17·87	39·16	44·58	58·16	51·916		39·50	48·00	SE	2 to 5	o c. b c. o m.
29	29·932	·000	29·975	22·0	18·0	19·541	23·0	16·50	19·66	38·83	43·83	58·83	56·333		39·50	48·50	SE, calm	0 to 3	o c. m. s.
30	30·108	·000	30·009	21·0	− 1·0	11·250	20·0	− 3·50	9·50	41·66	44·83	57·00	55·500		39·50	51·00	SE, S, calm	0 to 2	o s. b c m. f.
Max.	30·400	30·420	...	22·0	...	...	23·0												
Min.	29·540	29·518	...	...	−25·0	...	...	−37·50											
Mean	30·071	30·054	30·057	...	...	2·365	...	...	4·84	44·08	49·86	56·41	51·838	36·22	37·45	54·88			

MAY, 1854.

Disaster Bay, Wellington Channel, 75° 31′ *N.*, 92° 10′ *W.*

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.	Direction.	Force.	
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.							
May 1	30·108	30·128	30·110	13·5	−8·0	2·31	Zero	−13·00	−7·00	36·0	42·0	57·5	55·00	...	39·5	44·0	Calm	0	o.b.o.b.m.m.o.
2	·112	·103	·040	12·0	−5·0	−0·42	Zero	−13·00	−7·60	37·0	41·8	55·7	55·37	...	38·0	47·0	SE, S, NW	1	b.c.b.
3	29·930	29·950	29·927	13·0	−1·0	4·92	6·00	−12·50	−1·71	35·5	39·3	55·2	52·20	...	38·5	42·0	N, calm, NW	1 to 3	o.b.c.b.
4	·916	·750	·724	15·0	−1·0	8·04	12·00	− 9·50	2·11	39·8	44·5	58·3	50·00	...	39·0	50·0	Calm, NW, SE, NW, W	1 to 3	b.bc.b.c.m.
5	·560	·516	·537	13·0	3·0	7·92	15·00	− 3·00	4·54	41·5	45·0	60·0	51·33	...	36·0	51·0	SW, NW	2 to 5	o.om.os.
6	·584	·684	·722	10·5	−9·5	0·08	8·00	−19·00	−5·23	40·1	43·7	57·0	51·50	...	35·0	49·0	NW, WSW, SSE	1 to 2	os.o.bc.
7	·900	30·000	30·016	8·0	−6·0	2·04	4·00	−15·00	−4·87	40·2	46·0	56·2	50·06	...	34·0	49·0	NW, W, SW	1 to 2	b.b.h.om.
8	30·150	·240	·242	9·0	Zero	3·75	8·50	− 2·50	1·79	37·6	41·0	55·2	51·30	...	34·0	50·0	SW, SE, ESE	2 to 5	om.oc.
9	·250	·220	·203	11·0	4·0	6·83	12·00	1·00	5·00	36·8	41·3	54·8	51·17	...	34·0	50·0	E, ESE, SE	2 to 6	oc.o.bm.
10	·175	29·980	·067	17·0	7·0	10·12	15·00	1·00	6·16	40·6	43·0	56·3	49·53	...	34·0	49·0	Calm, N	0 to 4	bc.bc.om.
11	·014	·890	29·885	11·0	5·0	8·29	13·00	2·00	6·50	38·1	40·5	56·0	48·00	...	34·0	47·0	NW	2 to 4	om.os.oms.
12	29·724	·670	·714	11·0	4·0	7·42	15·00	− 3·00	4·96	40·6	41·7	52·0	48·33	...	34·0	49·0	SW, WNW, N	0 to 4	os.bc.
13	·818	·970	·976	16·0	1·0	7·54	12·50	−11·00	1·20	36·1	40·1	55·0	47·42	...	34·0	48·0	N, NE, S	0 to 2	bc.c.
14	30·050	30·200	30·036	18·0	7·0	11·00	10·00	Zero	5·33	36·6	42·0	54·0	47·50	...	34·5	46·0	NW, SW, NNW	1 to 3	bc.om.oc.
15	·000	29·988	29·963	17·0	1·0	8·58	16·50	− 7·00	4·37	38·0	41·6	55·6	47·20	...	33·0	47·0	Calm, W, S	0 to 2	bc.os.
16	29·916	·938	·961	17·5	3·0	12·21	16·50	− 3·00	7·92	36·3	39·1	52·2	47·17	...	33·5	43·0	WNW, calm, N	0 to 5	bc.oc.o.
17	30·040	30·050	30·035	20·0	13·0	15·58	20·00	5·00	13·75	35·2	39·5	55·0	47·50	...	34·0	47·0	NE, ESE	0 to 4	o.bc.
18	·060	·104	·114	24·0	2·0	11·21	20·00	− 2·50	8·82	35·2	...	55·0	48·42	...	34·0	47·0	S, calm, W	0 to 1	bc.bm.o.
19	·170	·170	·183	16·0	4·0	8·58	17·00	Zero	7·79	37·0	...	53·2	49·42	...	34·0	47·0	SW, W	1 to 4	o.bc.co.
20	·250	·266	·261	14·0	7·0	10·46	18·50	5·00	10·25	...	...	45·6	45·50	...	33·0	42·0	NE, E, W	0 to 2	co.bc.o.
21	·260	·280	·284	20·0	12·0	13·75	18·00	9·00	12·57	...	...	46·8	46·00	...	33·0	41·0	Calm, S, SE	0 to 3	oc.bc.
22	·306	·314	·289	21·5	5·5	12·58	17·50	4·00	11·29	...	...	45·2	44·66	...	33·0	43·0	SE, SSE	3 to 5	bc.
23	·214	·124	·131	20·0	4·5	11·92	19·00	Zero	15·83	29·6	30·3	51·5	44·43	...	33·0	36·0	NE, E, calm	0 to 5	bc.b.
24	·100	·030	·022	24·5	8·0	17·54	28·50	6·00	16·04	28·3	30·0	51·1	48·33	...	33·0	33·0	NNE, SE, calm	0 to 5	b.bc.
25	29·930	29·830	29·849	31·5	19·0	25·25	30·00	15·00	21·45	33·2	35·3	56·0	47·50	...	34·0	35·0	Calm, SE	0 to 1	o.ec.s.
26	·800	·846	·872	36·0	19·0	25·54	33·50	16·00	25·58	35·5	37·2	54·0	49·92	...	36·0	37·0	Calm, SW, NW	0 to 2	os.om.oms.
27	30·000	30·108	30·127	28·0	14·0	21·29	23·50	10·00	18·71	36·6	38·2	55·3	51·50	...	37·5	39·0	Calm, W, NNW	0 to 1	m.bc.
28	·320	·234	·222	32·0	12·5	20·83	24·00	9·00	20·37	35·6	36·6	54·6	49·70	...	37·0	40·0	SW, calm, SW	0 to 5	bc.os.
29	·170	·160	·175	26·0	20·0	23·92	24·00	17·00	22·46	35·5	37·5	55·5	48·50	...	38·0	37·0	S, SSW, S	2 to 8	omq.oq.oqs.
30	·230	·238	·256	30·0	22·0	26·21	32·09	19·37	26·37	37·1	39·3	55·6	49·23	...	36·0	39·0	Calm, E, NE	0 to 4	o.oc.
31	·320	·250	·220	32·0	20·0	27·42	33·00	19·00	26·92	39·0	40·2	51·5	49·50	...	38·0	34·0	E, SE, SW	0 to 4	o.bcv.bc.
Max.	30·326	30·314	...	35·0	...	...	33·00												
Min.	29·560	29·516	...	...	−9·5	...	...	−19·00											
Mean	30·041	30·040	30·041	...	...	8·78	...	...	9·34	36·8	39·8	54·1	48·93	...	35·0	43·7			

JUNE, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.					Direction.	Force.	
June 1	30·060	29·938	29·932	35·0	23·5	27·75	33·0	20·00	26·96	37·5	40·6	50·5	52·00	...	39·0	38·0	SW, calm, SSW	0 to 5	bc.o q. o.
2	29·854	·860	·793	35·0	28·0	30·58	40·5	25·00	29·37	40·3	43·3	49·3	51·75	...	38·5	41·0	S, calm, E	0 to 5	o ms. o mqs. o ms.
3	·790	·950	·955	35·0	24·0	29·92	34·0	19·00	26·42	44·3	43·8	52·2	49·33	...	40·0	42·0	E, N, S	1 to 7	oq. beq. b er.
4	30·120	30·142	30·132	36·0	23·0	29·66	32·5	17·00	25·00	46·8	47·6	53·5	48·50	...	39·0	42·0	WNW, NNW, calm	0 to 3	bc.
5	·110	·072	·072	31·0	20·0	26·08	26·0	15·00	20·25	39·0	40·6	46·5	46·33	...	38·0	40·0	NNW, calm, NNW	0 to 3	bc. b. bc.
6	·060	29·958	29·926	32·0	16·0	25·33	27·5	15·00	21·12	36·3	38·1	53·5	47·08	...	38·5	42·0	NW, calm, SW	0 to 2	bc.
7	29·808	·660	·684	34·0	22·0	27·08	28·0	20·00	23·54	36·9	39·5	47·0	50·66	...	39·0	41·0	N, NNE, ESE, N	1 to 6	oc. emq. bc.
8	·680	·800	·794	34·0	18·0	26·66	32·5	18·25	23·25	39·1	42·1	45·6	48·42	...	38·0	41·0	NNW, calm, SE	0 to 1	b em. o m. bc.
9	·870	·776	·733	35·0	26·0	29·42	33·5	23·00	27·12	37·5	40·1	45·8	48·42	...	38·5	42·0	SSE, SE	3 to 7	o. eqs. o mqs.
10	·554	·480	·511	33·0	27·0	30·08	31·0	25·00	28·58	41·5	45·1	49·1	48·83	...	39·0	43·0	E, NNE	4 to 6	eqs. bem. eos.
11	·630	·750	·762	30·0	24·0	27·25	27·5	21·00	24·42	41·0	43·6	44·6	50·42	...	39·0	42·0	N, NNW, NW	2 to 5	o mq. om. oc.
12	·850	·880	·882	29·0	25·0	27·16	27·0	23·00	24·96	43·0	45·0	44·6	52·33	...	39·5	43·0	NNW, NW, NNW	4 to 6	oc q. o mq.
13	·910	·908	·913	27·0	20·0	24·66	26·5	18·50	23·29	40·8	44·5	47·1	50·66	...	39·0	43·0	Calm, NNW, calm	0 to 6	bc. em.
14	·860	·800	·819	34·0	23·0	25·92	28·0	20·50	23·00	44·5	47·1	51·5	49·50	...	38·5	41·0	NNW, NW	3 to 4	bc. oc. em.
15	·800	·820	·817	31·0	25·0	27·83	29·0	22·00	27·33	44·0	46·3	46·7	49·17	...	38·5	41·0	NW, calm	0 to 3	com. oc q. o.
16	·826	·820	·794	36·0	23·0	28·66	36·0	21·00	26·62	44·0	44·5	47·7	50·25	...	38·0	41·0	NNW, calm, WNW	0 to 2	oc. bc.
17	·750	·750	·771	33·0	24·0	29·00	35·0	21·00	27·04	44·1	46·7	46·3	50·25	...	39·0	43·0	Calm, NW	0 to 3	oc. bc. oc.
18	·828	·880	·872	32·0	25·0	28·66	38·0	24·00	28·75	46·5	47·7	48·2	50·33	...	39·5	43·0	NNE, calm, SE	0 to 2	o. bc. o.
19	·894	·900	·910	36·0	25·0	28·75	37·0	23·00	28·12	45·1	46·8	50·0	48·08	...	39·5	44·0	E, SE, calm, NE	0 to 6	bem. bc. eq.
20	·950	·934	·931	32·0	24·0	27·92	31·0	23·00	26·25	45·1	45·8	47·5	51·50	...	40·5	43·0	NE, N	3 to 7	oc. beq. eq.
21	·920	·950	·982	31·0	25·0	27·83	34·0	22·00	25·79	43·8	45·1	47·7	52·00	...	41·0	42·5	NNW, SE, NNW	1 to 4	oq. beq. o.
22	30·104	30·100	30·064	38·0	28·0	33·17	42·0	25·00	32·25	42·7	44·6	49·5	53·42	...	42·0	42·0	SSW, S, calm	0 to 3	bc. of. bc.
23	·000	29·966	29·965	39·0	30·0	35·50	44·0	25·00	35·46	44·1	45·1	48·3	54·33	...	43·0	43·0	N, calm, E, calm	0 to 2	o. bc. o.
24	29·910	·742	·761	38·0	31·0	35·01	38·0	25·00	32·00	44·1	44·5	49·0	53·50	...	44·0	44·0	NW, E, ENE	1 to 7	oc. bc. beq.
25	·678	·650	·677	37·0	29·0	33·50	37·0	26·00	31·21	43·6	44·3	47·0	52·42	...	44·0	43·5	E, ESE, SE	7 to 10	eq. oms. beq.
26	·784	·808	·780	44·0	34·0	37·12	44·0	29·00	33·83	44·3	46·3	47·3	54·42	...	44·0	44·0	Calm, SE, calm	0 to 7	beq. o. bc.
27	·722	·660	·662	40·0	34·0	36·75	42·0	31·00	34·25	44·0	46·1	44·5	53·66	...	42·0	42·0	N, E, SE	1 to 4	bc. o. beq.
28	·648	·562	·569	38·0	33·0	35·17	38·0	28·00	32·25	44·6	47·1	44·3	53·50	...	43·0	42·0	SSE, E, ESE	2 to 7	eq o. og. oms.
29	·592	·580	·592	39·0	32·0	36·25	42·0	32·00	36·42	46·1	46·0	49·0	52·66	...	42·5	...	SE, E, SE	1 to 8	oc. beq.
30	·664	·586	·578	39·0	34·0	36·50	36·0	31·00	33·33	46·0	47·1	48·7	51·50	...	42·5	...	E, ESE	4 to 10	beq. ocqr. ooq.
Max.	30·120	30·142	...	44·0	...	...	44·0												
Min.	29·592	29·480	...	...	16·0	...	...	15·00											
Mean	29·858	29·820	29·824	...	...	30·17	...	...	27·91	42·7	44·5	48·1	50·87	...	40·2	42·1			

JULY, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.												Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.					Direction.	Force.	
July 1	29·550	29·756	29·737	42·0	37·0	38·42	39·0	32·0	35·5	47·1	45·5	49·1	51·66	...	44·0	...	ESE, S, SE by S	2 to 8	oq.beq.
2	·814	·730	·708	42·0	34·0	37·17	Withdrawn.			48·1	54·1	52·3	49·92	...	44·5	...	SE, ES, WSW	3 to 8	oeq.beq.
3	·630	·530	·547	38·0	33·0	36·21	...	...	...	55·8	57·1	57·8	51·25	...	45·0	...	Calm, E, SE	0 to 9	oc.omqs.oc.
4	·534	·600	·608	40·0	35·0	36·96	...	...	...	54·6	55·1	57·5	51·25	...	45·0	...	Calm, SE, ESE	0 to 7	o.beq.com.
5	·680	·700	·703	43·0	37·0	38·83	...	...	...	56·1	56·1	55·7	51·82	...	45·0	...	SE, NE, ENE	3 to 6	oe.oeq.com.
6	·720	·766	·785	43·0	37·0	40·25	...	...	...	55·5	56·5	57·0	53·00	...	46·0	...	ENE, calm, W	0 to 4	oe.eoq.omp.
7	·870	·900	·874	43·0	33·0	36·58	...	...	...	53·5	55·5	57·6	52·08	...	46·0	...	Calm, W, calm	0 to 1	oc.om.oms.
8	·850	·860	·857	37·0	32·0	34·67	...	...	...	52·1	53·5	56·6	53·00	...	45·0	...	NW, W, calm	0 to 2	oms.com.
9	·860	·830	·836	37·0	33·0	34·58	...	...	...	51·6	53·0	57·8	51·08	...	45·0	...	WNW, calm, NW	0 to 1	om.eom.om.
10	·832	·800	·784	41·0	35·0	37·58	...	...	...	52·1	54·8	51·3	49·75	...	45·0	...	Calm, N, NE	0 to 1	of.oc.od.
11	·722	·620	·645	41·0	33·0	37·67	...	...	...	49·8	51·8	51·0	51·00	...	45·0	...	NE, calm	0 to 1	bc.oc.
12	·600	·536	·528	41·0	37·0	37·96	...	...	...	49·6	51·3	50·6	49·83	...	45·0	...	W, SSW, ESE	1 to 8	bc.oqr.omeq.
13	·450	·480	·498	42·0	35·0	36·67	...	...	...	47·5	49·1	49·8	46·75	...	44·0	...	E, SE, E	3 to 7	oqr.or.beq.
14	·560	·700	·691	40·0	36·0	37·29	...	...	...	47·3	49·3	53·0	42·17	...	44·0	...	ENE, E	3 to 8	oq.omq.om.
15	·750	·614	·592	37·0	32·0	34·96	...	...	...	46·5	47·5	57·5	41·75	...	44·0	...	W, S, SSW	1 to 5	omd.od.oeq.
16	·430	·365	·372	41·0	36·0	37·42	...	...	...	46·5	48·0	55·3	43·25	...	44·5	...	SSE, E, ESE	5 to 8	emq.oeq.oeqm.
17	·350	·370	·387	42·0	35·0	37·50	...	...	...	48·8	52·1	53·6	41·83	...	45·0	...	E	3 to 7	oeq.oc.
18	·400	·480	·487	43·0	35·0	39·08	...	...	...	49·3	52·3	56·8	43·17	...	45·0	...	NE	2 to 3	oed.oc.os.
19	·550	·682	·691	44·0	35·0	40·08	...	...	...	50·3	54·1	55·5	43·66	...	44·0	...	E	2 to 4	bc.
20	·780	·900	·876	48·0	35·0	39·67	...	...	...	50·1	53·0	55·7	42·00	...	44·0	...	SE by E, E	2 to 5	be.
21	·886	·816	·805	44·0	40·0	41·67	...	...	...	52·8	54·3	56·3	41·42	...	44·0	...	E, N	2 to 5	bc.
22	·730	·666	·669	44·0	38·0	40·67	...	...	...	51·5	53·5	53·7	43·10	...	43·0	...	NE	1 to 5	oq.
23	·652	·690	·703	44·0	36·0	40·33	...	...	...	51·2	52·8	57·3	42·16	...	45·0	...	NE	3 to 5	obeq.bc.
24	·738	·750	·748	42·0	36·5	38·87	...	...	...	52·0	53·7	54·8	42·08	...	45·0	...	Calm, N	0 to 1	obc.ov.obc.
25	·758	·788	·753	46·0	35·0	37·71	...	...	...	54·7	55·5	54·5	40·25	...	45·0	...	SW, calm, N	0 to 1	bc.
26	·664	·618	·624	42·0	35·0	38·29	...	...	...	54·8	55·5	54·2	40·50	...	45·0	...	NNE, E	1 to 3	obc.oc.
27	·650	·714	·719	41·5	39·0	38·37	...	...	...	55·5	56·0	55·0	42·33	...	45·0	...	W, N, calm, SW	0 to 1	oc.obc.
28	·748	·720	·737	41·0	34·0	37·83	...	...	...	56·5	56·5	56·5	41·25	...	44·5	...	SSW, calm	0 to 1	obc.oo.
29	·780	·864	·839	41·0	35·0	38·25	...	...	...	55·2	54·5	55·0	40·92	...	44·0	...	N, calm	0 to 1	oc.c.
30	·810	·780	·735	48·0	36·0	41·29	...	...	...	52·5	53·0	55·8	43·66	...	44·5	...	Calm	0	o.c.
31	·680	·664	·669	46·0	37·0	40·79	...	...	...	52·5	52·8	54·5	44·17	...	44·5	...	ESE, W	1 to 4	bc.
Max.	29·886	29·900	...	48·0															
Min.	29·350	29·365	...	...	32·0														
Mean	29·678	29·686	29·684	...	...	38·12	...	...	...	48·4	53·5	54·8	46·19	...	44·7				

AUGUST, 1854.

Disaster Bay, Wellington Channel, 75° 31′ N., 92° 10′ W.

Date.	Barometer.			Thermometer.											Wind.		Weather.
				Upper Deck.			Ice.			Lower Deck.			Cabin.	Upper Deck, M.H.	Spirit Room.	Main Hold.			
	Noon.	Midnt.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Bows.	Main Mast.	Gun Room.					Direction.	Force.	
Aug. 1	29·662	29·654	29·641	44·0	35·0	37·92	...	...	...	55·6	55·2	55·5	42·08	...	44·5	...	E, S, N	1 to 3	b c.
2	·604	·596	·588	43·0	37·0	42·75	...	...	...	53·4	53·7	50·8	50·33	...	44·5	...	ESE, N, E	1 to 5	b c. b c q.
3	·548	·488	·480	43·0	37·0	40·17	...	...	...	50·0	53·0	48·5	48·60	...	44·5	...	E, ENE	5 to 6	o c.
4	·430	·500	·506	47·0	36·0	41·08	...	...	...	49·6	53·5	51·8	44·92	...	44·5	...	ESE, E, SE	3 to 4	b c. c. b c.
5	·610	·614	·631	48·0	36·0	39·87	...	...	...	51·8	53·7	52·5	43·66	...	45·0	...	E, calm, SW	0 to 5	o c m. o h. o c.
6	·668	·724	·723	39·0	32·0	36·00	...	...	...	52·5	53·2	51·5	40·25	...	45·0	...	SW, calm	0 to 1	o c. o f.
7	·722	·694	·692	42·5	33·0	36·29	...	...	...	52·8	52·8	52·3	39·50	...	45·0	...	S, calm, E	0 to 2	b g f. f. b c.
8	·670	·736	·795	42·5	37·0	40·17	...	...	...	52·2	52·5	52·8	42·33	...	45·5	...	Calm, E, WSW, NE	0 to 6	b c. b c q. b c.
9	·970	·940	·932	46·0	35·0	39·83	...	...	...	52·5	53·7	51·6	43·00	...	45·0	...	SE, ESE, E	1 to 5	b c. b c q. b c.
10	·900	·870	·862	38·0	31·0	34·66	...	...	...	53·0	54·0	51·3	39·75	...	45·0	...	SW, calm, NW	0 to 4	f. o q. b c.
11	·832	·850	·967	40·0	35·0	36·79	...	...	...	53·0	54·5	53·8	45·83	...	45·0	...	E, NW	1 to 3	o c. b c.
12	·900	·876	·872	42·0	31·5	36·33	...	...	...	53·2	53·7	51·5	41·25	...	45·0	...	N, W, calm	0 to 3	b c.
13	·846	·800	·797	43·0	30·0	37·00	...	...	...	52·8	54·2	52·5	40·25	...	45·0	...	Calm, NW, calm	0 to 1	b c. o b c.
14	·700	·600	·600	34·0	31·0	32·25	...	...	...	55·2	56·7	53·3	38·42	...	44·5	...	N, SSW	1 to 1	o o. c o m s.
15	·560	·644	·666	39·0	31·0	34·58	...	...	...	53·8	54·6	51·0	38·00	...	44·0	...	Calm, SSW, W	0 to 1	o c m. f.
16	·806	·890	·892	40·0	30·0	34·54	...	...	...	53·3	54·8	51·5	38·58	...	44·0	...	Calm, NW	0°to 2	f. o c. o c m.
17	·980	·936	·929	35·0	30·0	32·33	...	...	...	49·8	50·5	52·0	41·58	...	44·0	...	Calm, S, NW	0 to 5	o f. o c. b c q.
18	·886	·880	·868	37·8	30·0	33·62	...	...	...	51·3	51·3	52·2	39·84	...	44·0	...	WSW, N	1 to 4	b c. b c q.
19	·876	·828	·866	40·0	29·5	34·42	...	...	...	52·5	52·5	53·7	39·00	...	44·0	...	N, variable, calm	0 to 5	b c.
20	·870	·888	·890	38·0	30·0	32·92	...	...	...	53·5	54·7	54·5	38·58	...	44·0	...	Calm, N	0 to 1	b c.
21	·878	·864	·867	41·0	31·0	35·42	...	...	...	53·5	55·0	54·8	44·58	...	44·5	...	Calm, SE, calm	0 to 1	f.
22	·834	·834	·829	36·0	30·0	32·50	...	...	...	53·5	54·3	55·3	42·00	...	44·5	...	Calm, NW, WNW	0 to 2	f. o c m.
23	·828	·800	·789	33·0	28·0	31·12	...	...	...	53·5	54·5	54·9	40·17	...	44·0	...	NNW, calm	0 to 3	f. b c. o c f.
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
Max.	29·980	29·940	...	48·0															
Min.	29·430	29·500	...	...	28·0														
Mean	29·764	29·761	29·765	...	...	36·20	...	...	...	52·7	53·7	52·7	41·84	...	44·6				

G.

Comparative Tables of Temperature, obtained from Arctic Voyages, 1819 *to* 1855.

These Tables were compiled from documents collected by me from private sources, as well as from the published Journals of Sir Edward Parry, on his voyages within Lancaster Sound.

In the course of my Narrative it will appear that I have long entertained the opinion connected with climates where the temperature descends much below the freezing-point, that there periodic depressions or low temperatures occur preceding, as well as following, the commonly termed winter, and sudden elevations also at apparently undue seasons.

Before I had more than *suspected* these matters to have any ground for discussion, I had relied sufficiently on my own opinion, to found my orders for sledge motions on the approaching spring travel of 1853; and as regarded other matters, as cutting out, taking down housings, etc., I had also formed distinct estimates of the dates for carrying out these special points of service. I then determined to construct these Tables, and was peculiarly struck with the coincidence of periods, etc., in confirmation of my views. I became more decisive in my orders for the period of starting, and I was able to estimate, from the mean temperatures of preceding years, when the cold weather should terminate.

I have already stated fully my views as to particular periods of cold temperatures: thus, between the 1st and 10th November,* 20th to 25th December, and 10th to 15th March, I expected very decided and

* In reference to the published Meteorological Tables for Lake Athabasca in 1843–4, situated in lat. 58° 43′ N., I notice November 12th, −6·8°, plus signs preceding and following; December 12th, +6·5°; 14th, −22·9°; January 9th, 1844, −38°; March 9th, −17·60°; all according with those periods, or, as I imagine, dependent on the full or change of the moon nearest to those dates. In some years the period may be deranged by the date occurring seven days earlier or later.

severe cold, sufficient to guide me in securing my sledge crews from exposure to undue severity of climate. These matters may appear trivial, but it must occur to all intelligent minds that the onerous duties of command or of responsibility, to the thinking portion of the world, are somewhat relieved by the studies of science.

Having constructed my Table, I was not a little surprised to find the peculiar coincidence throughout the whole range between 1819 and 1854,—thirty-five years. If the reader will run his pencil through the low temperatures at the periods which I have suggested, he perhaps will feel as much astonished as I was to find how slightly the lines deviate from that which would almost indicate precise *seasons*.

In the computation of the Table of Mean Cold it is also curious to find the mean amount to agree so closely; and in the spring of 1854—the coldest season experienced in those regions—I was able to compute nearly the moment when the cold, due to the season, had reached the full amount.

If these researches afforded no further value than occupation for the mind under such a species of captivity, it certainly had so far a beneficial result; but I thought that the question thus started, with the complete documents in my possession, might, at some future date, induce others to pursue this matter to a more satisfactory result. They are curious and interesting, and as such I have deemed them worthy of record.

OCTOBER.

Date.	Hecla, 1819. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1824. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1848. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1850, Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1852. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1853. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1852. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Sep. 30	7·0	4·0	5·92	28·0	19·5	25·96	19·0	8·0	13·0	14·0	8·0	10·6	24·0	20·0	23·30	14·5	1·0	7·750	15·0	11·0	12·3
Oct. 1	9·0	6·0	6·83	18·0	13·5	16·87	25·5	18·5	21·5	14·0	8·0	10·6	24·5	29·0	19·89	21·0	4·0	12·500	12·0	9·0	2·5
2	17·5	9·5	12·83	18·0	13·0	15·46	27·0	9·0	21·7	17·0	9·0	14·5	24·5	5·0	14·18	22·0	9·0	15·500	11·0	4·0	6·6
3	10·0	6·0	8·75	15·0	5·0	10·04	7·0	1·5	4·0	10·5	- 9·0	4·5	- 3·0	9·0	6·33	20·0	5·0	12·500	10·5	6·0	8·2
4	16·0	5·0	9·83	25·0	13·0	21·25	16·5	1·5	10·5	2·0	-14·5	- 9·6	7·0	2·0	4·46	12·5	5·0	8·750	16·0	11·0	14·0
5	18·0	- 7·0	3·00	27·0	25·0	26·21	10·5	6·5	8·7	0·0	-14·0	8·7	5·0	3·0	4·08	14·0	2·0	8·000	16·0	2·0	10·2
6	8·0	- 8·0	1·80	31·5	18·0	25·96	8·5	1·5	4·7	7·0	- 8·0	1·7	9·0	- 6·5	- 1·00	12·0	- 2·0	5·000	3·0	4·0	- 2·0
7	18·0	0·0	6·10	26·0	9·5	20·40	10·0	0·0	5·0	7·0	0·5	3·7	-11·0	-16·0	-13·75	6·5	- 9·0	-1·750	4·0	5·0	- 0·8
8	1·0	- 8·5	3·75	21·0	13·0	14·86	8·0	0·5	4·3	4·0	- 3·5	1·2	11·0	3·0	5·25	6·5	- 3·0	1·750	4·0	1·5	2·0
9	0·0	- 6·0	- 1·88	22·0	12·0	18·08	6·1	1·0	3·5	13·0	6·0	9·9	7·0	- 3·5	5·50	3·5	-15·0	-5·750	8·0	0·0	4·8
10	5·0	- 3·0	1·83	18·5	13·0	15·63	5·0	- 3·5	1·2	9·0	1·5	5·1	24·0	4·0	9·81	5·5	15·0	10·800	12·0	2·0	5·4
11	10·2	2·0	4·54	19·0	11·0	13·50	4·5	3·0	1·7	4·0	- 2·5	0·2	23·0	-12·0	0·23	23·5	13·5	19·000	24·0	11·0	17·5
12	7·0	- 8·0	- 4·17	19·0	11·0	14·71	3·5	3·5	0·5	13·5	6·0	10·7	- 2·0	- 8·5	- 4·23	23·0	20·0	21·410	30·0	11·0	25·9
13	16·0	3·0	7·60	23·0	8·5	15·71	- 0·5	- 5·0	- 1·5	16·0	5·0	12·0	3·5	- 8·0	- 1·00	25·5	21·0	22·540	8·0	- 2·0	4·5
14	5·0	- 6·0	- 2·50	29·0	18·5	24·83	0·5	- 5·5	- 2·5	8·5	1·5	4·7	- 5·0	-17·0	-10·06	26·5	22·5	24·340	15·0	11·0	13·5
15	13·0	0·0	6·17	31·0	15·0	17·83	6·0	2·5	1·7	8·5	- 5·0	2·3	-12·0	-22·0	-17·94	22·0	19·5	20·380	16·0	8·0	13·3
16	- 1·0	-12·5	- 5·26	25·0	20·0	21·50	18·0	13·0	15·2	0·0	- 9·0	- 3·4	- 3·0	-15·0	- 8·33	23·5	22·0	22·800	16·0	11·0	13·8
17	-10·5	-16·0	-12·88	21·0	9·0	15·62	19·5	14·0	17·0	- 1·5	-10·0	- 6·0	- 4·0	- 9·5	- 6·00	23·0	20·5	21·700	19·0	7·0	15·7
18	- 2·0	-14·0	- 6·08	18·0	7·5	13·42	17·0	- 2·5	7·0	11·0	- 5·0	1·7	- 4·0	- 9·5	- 5·60	22·0	17·0	18·750	12·0	- 2·0	5·9
19	- 7·0	-14·0	-11·25	8·0	4·0	6·37	10·5	- 4·0	5·7	4·5	-11·0	- 3·1	0·5	- 5·5	- 2·27	20·0	17·5	19·620	15·0	12·0	14·2
20	-13·5	-17·5	-15·12	4·0	0·0	1·83	10·5	7·0	8·5	0·0	-12·0	- 5·6	11·0	- 2·0	7·65	18·0	1·5	7·250	14·0	3·0	10·0
21	- 7·0	-14·0	-10·58	5·0	2·0	3·96	15·0	- 1·5	6·0	- 2·5	- 7·5	- 5·1	13·5	1·5	9·83	7·0	- 6·0	1·583	2·0	-13·0	- 6·4
22	- 3·0	-14·0	- 6·92	4·0	- 4·0	2·08	- 2·0	- 9·0	- 6·0	1·0	- 9·5	- 4·0	2·5	- 6·5	- 3·70	- 2·5	- 9·0	-4·375	0·0	9·0	4·5
23	6·0	- 9·0	0·12	5·0	- 1·0	2·96	18·0	5·5	9·7	2·0	-15·0	- 6·0	- 6·0	-10·5	- 8·30	1·5	- 7·0	-4·188	9·0	7·0	2·4
24	1·0	- 6·0	- 2·83	7·5	4·0	5·87	26·0	19·0	22·5	3·5	- 2·5	0·9	- 2·0	- 7·5	- 4·42	9·5	1·5	6·375	2·0	4·0	9·0
25	5·0	2·0	3·71	10·0	3·0	6·17	24·5	19·0	22·0	4·0	- 1·5	1·1	1·0	- 7·5	- 3·00	10·0	1·0	7·916	3·0	- 7·0	0·2
26	4·0	- 8·0	- 1·08	8·5	3·0	5·17	28·5	19·5	24·0	- 0·5	-11·5	- 6·0	3·0	- 8·5	- 3·30	4·0	- 7·0	-1·000	4·0	8·5	1·4
27	- 4·0	-15·0	-10·25	3·0	- 1·0	1·00	32·0	25·0	29·0	- 3·0	-12·0	- 6·0	- 2·0	- 8·5	- 4·06	1·0	-11·7	-4·800	1·0	9·0	- 2·0
28	-17·0	-23·0	-19·75	- 3·0	-12·0	- 7·87	29·0	18·0	24·2	-10·0	-19·0	-14·0	- 1·0	- 5·5	- 2·63	0·0	-12·7	-5·080	0·0	3·0	2·4
29	-20·0	-28·0	-24·25	1·0	-20·5	- 4·50	27·5	13·5	22·0	-12·0	-17·0	-14·7	- 2·0	-11·5	- 5·87	- 4·5	-12·5	-7·800	- 3·0	17·0	11·1
30	-25·0	-27·5	-26·15	- 5·0	-11·0	- 8·92	22·0	- 2·5	14·1	0·0	-17·0	- 4·9	1·0	- 6·0	- 2·30	1·0	- 6·0	-2·700	- 6·0	16·0	11·7
31	-24·0	-28·0	-12·17	1·0	- 8·0	- 1·29	- 3·0	-14·0	- 7·7	- 1·0	-10·5	- 6·2	- 4·0	-21·0	-13·75	0·0	-14·5	-4·710	-10·0	12·0	17·4
31 days	17·5	-28·0	- 3·46	31·5	-12·0	10·85	32·0	-14·0	9·7	17·0	-19·0	- 0·6	24·5	-22·0	- 1·40	26·5	-15·0	10·258	30·0	-17·0	4·1

NOVEMBER.

Date.	Hecla, 1819. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1824. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1848. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1850. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1852. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1853. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1852. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	*	*	*
Nov. 1	2·0	- 3·0	- 1·00	5·0	- 4·0	- 1·17	- 2·5	-15·0	- 8·5	- 6·0	-17·0	-12·1	-14·0	-21·0	-15·70	7·0	-21·0	- 7·583	-14·0	-21·0	-17·00
2	5·0	0·0	3·25	5·0	1·0	2·92	15·0	2·0	7·5	-11·0	-20·5	-14·5	-21·0	-23·5	-22·60	4·0	- 1·5	1·291	-15·0	-17·0	-16·50
3	6·0	0·0	3·92	6·5*	4·0	5·28	16·0	7·0	8·0	-11·0	-17·0	-14·6	-18·0	-26·5	-26·20	5·0	2·0	3·541	-11·5	-18·0	-14·60
4	6·0	5·0	5·50	10·0	4·5	7·08	- 5·5	-13·0	-10·0	0·0	-10·0	- 6·3	-24·0	-28·0	-24·06	2·0	- 4·0	- 1·275	-10·0	-13·0	- 9·20
5	6·0	- 7·0	- 0·67	12·0	1·0	9·50	-12·0	-23·5	-16·1	- 1·5	- 6·0	- 4·1	-22·0	-27·5	-25·46	2·0	- 3·0	- 0·375	-12·0	-19·0	-15·70
6	- 8·0	-18·0	-14·08	- 1·0	- 7·0	- 3·54	- 1·0	-11·0	- 7·3	0·0	- 4·0	- 2·2	-10·0	-21·0	-13·80	1·0	-12·5	- 6·125	-20·0	-28·5	-22·20
7	- 6·5	-16·0	-11·12	- 8·0	-18·0	-13·12	2·5	-12·0	- 4·0	0·0	-11·0	- 4·1	-13·0	-28·0	-17·81	- 6·0	-18·5	-12·000	-17·0	-22·0	-19·30
8	- 5·0	-13·0	-10·04	2·0	-17·0	- 6·25	-12·0	-19·0	-16·3	-10·0	-19·0	-13·5	-10·0	-26·0	-19·27	-15·5	-33·0	-27·533	-22·0	-23·0	-22·30
9	-11·0	-15·0	12·75	8·0	- 1·0	4·64	-16·5	-26·5	-20·3	- 2·0	-19·0	-11·9	- 6·0	-19·5	-15·84	-21·0	-33·0	-27·583	-17·0	-21·0	-18·20
10	- 6·5	-15·0	- 9·67	10·0	2·0	5·58	-18·5	-28·0	22·3	7·0	- 2·0	4·0	20·0	-10·0	- 4·00	-14·0	-28·0	-21·875	12·0	-27·0	-17·00
11	-13·0	-26·5	-18·62	4·0	- 4·0	1·12	3·5	-20·0	- 5·8	13·0	- 1·0	7·7	0·0	- 8·0	- 0·70	-12·5	-14·0	-13·416	14·0	-22·0	-17·70
12	- 4·0	-32·0	-28·58	8·5	-13·3	-11·64	1·0	-28·0	-17·0	- 2·0	-21·5	-13·6	1·0	- 1·5	0·66	-14·0	-23·0	-17·500	28·0	-36·0	32·20
13	-24·0	-34·0	-28·50	- 8·0	-11·0	- 9·79	- 5·0	-21·5	-13·0	- 7·0	-23·0	-16·1	2·5	- 4·5	0·70	-13·5	-17·5	-14·583	26·0	-32·0	28·70
14	-25·0	-32·0	-26·08	5·0	-14·0	6·29	12·0	5·5	4·3	-10·0	-23·5	-14·7	13·5	- 9·0	3·90	-14·0	-20·0	17·000	28·0	-33·0	30·20
15	-21·0	-40·0	-30·88	8·0	2·0	5·08	13·0	13·0	4·5	- 3·0	-10·0	- 5·4	13·0	-14·0	- 4·20	-22·0	-29·5	24·750	27·0	-30·0	-28·60
16	-36·0	-42·0	-39·79	- 5·0	-17·5	-13·21	-10·5	-27·5	-16·8	- 3·0	- 8·0	- 5·4	10·0	-16·0	- 4·00	-19·0	-27·0	23·100	18·0	-27·0	-21·50
17	-30·0	-40·0	-35·63	- 8·5	-14·0	-11·29	-10·0	-31·5	-22·8	0·0	- 8·0	- 3·2	20·0	12·0	14·50	-15·0	-24·5	18·750	15·0	23·0	18·20
18	-34·0	-37·0	-36·00	- 9·0	-18·5	-13·04	- 7·0	-16·5	-11·8	- 7·0	-16·0	-14·0	21·0	18·0	19·00	-14·0	-25·0	17·833	14·0	23·0	18·10
19	-38·0	-47·0	-42·92	-14·0	-21·0	-18·04	-13·5	-18·0	-15·5	- 1·5	-11·5	- 6·7	18·0	11·0	14·56	-16·0	-26·0	21·458	15·0	24·0	19·40
20	-40·0	-47·0	-43·71	-12·5	-23·0	-19·42	- 8·0	-23·0	-17·8	1·5	- 2·0	- 1·0	17·0	12·0	14·37	-14·0	24·0	17·625	16·0	31·5	24·80
21	-20·0	-40·5	-27·79	- 3·5	-17·0	-11·96	-18·0	-27·5	-24·0	2·0	- 9·5	- 4·9	17·0	15·0	16·21	-17·0	23·0	21·166	30·0	38·0	34·60
22	-21·0	-25·0	-23·00	- 6·0	-18·0	-13·54	-14·0	-20·5	-16·5	- 1·5	- 8·0	- 5·7	17·0	- 9·0	3·00	-23·0	26·0	24·625	27·0	-39·0	32·70
23	...	...	-25·00	2·0	19·0	13·08	-12·5	-20·0	-15·5	- 3·0	- 9·5	- 6·1	- 5·0	-12·5	- 9·85	-26·0	34·0	29·708	-26·0	-29·0	-26·90
24	...	...	-15·00	1·0	-15·5	- 6·83	13·0	-24·5	21·0	- 7·0	-11·0	- 8·9	- 1·5	-10·5	- 7·60	-31·0	-36·0	33·041	-26·0	-38·0	-32·70
25	- 5·0	-18·0	-11·75	-10·0	-23·5	-16·92	21·5	-29·0	24·5	- 2·5	- 6·0	- 4·0	- 5·0	-11·0	- 9·85	-34·0	37·0	35·458	-33·0	-39·0	-36·50
26	-26·0	-28·0	-24·79	7·0	-26·0	16·12	22·0	-28·0	25·0	- 4·0	-11·5	- 7·7	0·0	- 7·0	- 3·63	-30·0	36·0	32·375	14·5	-31·0	-13·90
27	-13·0	-28·5	-18·38	17·0	7·0	12·12	16·5	-23·0	19·5	- 6·0	-11·0	- 9·2	0·5	-11·0	- 5·50	-28·0	33·0	30·125	12·0	-16·0	-13·80
28	-24·5	-32·0	-28·29	10·5	- 8·0	1·92	17·0	-27·0	20·8	- 3·5	-10·0	7·9	4·5	- 1·5	1·00	-15·0	-29·0	22·875	10·5	-23·0	13·90
29	-31·0	-32·5	-31·92	6·0	- 3·0	2·00	28·0	-37·5	33·5	- 1·0	- 4·0	- 2·2	- 1·5	-22·0	-14·80	-13·0	-22·0	-19·208	-13·0	-25·0	-20·30
30	-32·0	-34·0	-33·58	8·0	- 8·0	- 2·46	26·5	-37·5	33·8	- 7·0	-31·0	-17·6	-24·0	-26·5	-24·69	-12·0	-20·5	-15·875	-14·0	-24·0	-19·40
30 days	6·0	-47·0	-20·60	17·0	-26·0	- 4·99	16·0	-37·5	-14·5	13·0	-31·0	- 7·5	20·2	-30·2	- 6·64	7·0	-37·0	-18·333	-10·0	-39·0	-20·18

* ? The signs not copied: probably the same as those of the 'Assistance,' 1852.

DECEMBER.

Date.	Hecla, 1819. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1824. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1848. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1850. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1852. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1853. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1852. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Nov. 30	-32·0	-34·0	-33·58	- 3·0	- 8·0	- 2·46	-26·5	-37·2	-33·8	- 7·0	-31·0	-17·6	-24·0	-26·5	-24·70	-12·0	-20·5	-15·873	-14·0	-24·0	-19·40
Dec. 1	-25·0	-34·0	-30·29	-11·0	-20·5	-16·42	-26·0	-30·5	-28·8	-32·0	-35·0	-34·2	-20·0	-29·5	-27·50	-18·0	-24·0	-21·083	-18·0	-25·0	-21·00
2	-28·0	-36·0	-32·96	-18·0	-21·0	-18·37	-15·0	-30·5	-22·6	-24·0	-33·0	-29·7	-29·5	-34·5	-34·10	-19·0	-27·0	-23·041	-20·0	-28·0	-23·70
3	- 9·0	-23·0	-16·04	-12·0	-16·0	-14·25	-14·0	-26·5	-22·8	-15·5	-22·5	-19·6	-17·0	-34·0	-33·38	-15·0	-20·0	-17·250	-19·0	-27·0	-23·70
4	-28·0	-34·0	-31·71	-16·0	-20·0	-18·17	-14·5	-27·5	-21·5	-26·0	-20·0	-22·5	-16·0	-31·5	-26·77	-16·0	-31·0	-22·791	-26·0	-38·0	-34·20
5	-27·0	-35·0	-31·25	-20·0	-24·0	-21·58	-27·5	-32·5	-30·0	-18·5	-21·0	-19·8	-31·0	-35·0	-35·23	-31·0	-35·5	-33·666	-37·0	-40·0	-38·70
6	-28·0	-34·0	-27·00	-11·5	-22·0	-18·17	-23·0	-41·0	-33·2	-16·5	-21·0	-19·3	-29·0	-36·5	-33·81	-31·0	-35·0	-32·708	-32·0	-40·0	-36·50
7	-19·0	-26·0	-22·29	- 4·5	-12·5	- 9·25	-28·0	-37·5	-31·9	-18·5	-23·0	-20·1	- 9·5	-34·4	-18·36	-29·0	-33·0	-31·041	-39·0	-44·0	-42·30
8	-15·0	-22·0	-19·67	-10·0	-19·5	-13·83	-18·0	-29·5	-23·9	-15·0	-22·0	-18·6	- 6·0	-18·7	-12·00	-32·5	-37·0	-34·583	-36·0	-42·0	-38·40
9	-17·0	-21·0	-18·83	- 7·0	-21·0	-15·25	-19·0	-31·5	-23·2	-16·5	-25·0	-22·2	-19·0	-35·1	-27·50	-29·0	-35·0	-32·000	-38·0	-42·5	-39·90
10	-18·0	-21·0	-19·33	- 9·5	-20·0	-15·58	-30·0	-34·0	-31·8	-24·0	-29·0	-28·0	-30·0	-37·5	-35·37	-34·5	-38·0	-36·250	-42·0	-45·0	-43·90
11	- 4·0	-20·0	-11·21	- 6·5	-14·5	-11·13	-28·5	-33·5	-31·4	-28·0	-34·0	-31·5	-30·0	-38·0	-35·80	-35·0	-40·0	-36·958	-40·0	-43·0	-41·50
12	- 9·0	-20·0	-14·43	- 5·0	-17·0	-10·58	-33·5	-44·0	-37·0	-32·5	-35·5	-33·8	-30·0	-37·0	-34·00	-27·0	-39·0	-33·666	-29·0	-39·0	-35·70
13	- 7·0	-14·0	-10·96	-12·0	-28·0	-20·04	-44·0	-50·0	-47·8	-28·0	-35·5	-31·3	-32·8	-40·0	-36·46	-20·5	-32·5	-28·041	-24·5	-28·0	-26·30
14	- 7·0	-10·0	- 8·29	-28·0	-26·5	-25·29	-49·0	-54·5	-52·2	-21·0	-29·0	-23·5	-34·3	-40·3	-38·46	-19·0	-27·0	-23·666	-17·0	-23·0	-18·60
15	- 7·0	-15·0	-11·63	-26·0	-34·5	-30·54	-50·0	-56·5	-53·1	-20·5	-24·0	-23·2	-24·8	-36·3	-31·80	-27·0	-31·0	-29·250	-20·0	-23·0	-21·10
16	- 8·0	-18·0	-13·50	-30·0	-35·0	-33·21	-36·5	-53·5	-46·3	-16·0	-26·0	-20·8	-31·8	-42·0	-36·80	-21·0	-30·0	-24·916	-18·0	-25·0	-21·40
17	- 0·0	- 9·0	- 4·37	-25·5	-31·0	-27·96	-25·0	-36·5	-31·8	- 6·0	-19·0	-11·5	-34·8	-42·0	-38·13	-32·0	-39·0	-36·458	-16·5	-23·0	-18·40
18	- 3·0	-11·0	- 5·00	-18·5	-26·0	-22·08	-27·0	-38·0	-32·6	-20·0	-28·0	-24·8	-31·8	-43·5	-37·19	-33·0	-37·0	-35·416	-24·0	-31·0	-27·20
19	- 9·0	-24·0	-17·46	-13·0	-17·5	-14·83	-27·0	-40·0	-32·4	-23·0	-30·0	-25·8	-27·8	-31·0	-31·25	-16·0	-35·0	-25·416	-29·0	-33·5	-30·80
20	-19·0	-25·0	-22·83	-14·0	-28·0	-19·54	-38·0	-47·0	-41·1	-20·0	-32·0	-26·0	-26·0	-28·6	-27·25	-17·0	-30·5	-23·666	-26·0	-29·0	-27·90
21	-19·0	-25·0	-23·50	-25·0	-33·0	-29·17	-43·0	-50·5	-46·6	-15·0	-20·5	-18·1	-26·5	-31·3	-28·17	-25·0	-37·0	-30·875	-29·0	-35·0	-31·90
22	-27·0	-35·0	-31·00	-25·0	-30·0	-26·67	-32·0	-46·0	-37·8	- 7·0	-11·0	-10·2	-32·0	-37·0	-33·30	-20·0	-31·0	-25·250	-32·0	-43·0	-37·30
23	-30·0	-37·0	-33·83	-25·0	-33·0	-30·04	-32·0	-39·5	-36·2	- 5·0	-15·0	- 9·0	-36·0	-39·4	-37·70	-30·0	-35·0	-31·541	-42·0	-46·0	-43·80
24	-24·0	-34·0	-31·17	-11·0	-30·0	-17·83	-33·5	-41·0	-37·3	-15·0	-22·0	-19·3	-37·0	-40·8	-38·75	-22·0	-38·0	-30·791	-33·5	-42·0	-38·60
25	-23·5	-30·0	-26·04	-14·0	-26·0	-20·58	-40·5	-44·5	-42·4	-20·0	-26·5	-23·1	-23·0	-36·0	-32·00	-16·0	-25·0	-20·000	-31·0	-35·0	-32·80
26	- 5·0	-34·0	-16·21	-22·5	-27·0	-25·71	-44·5	-52·0	-48·5	-11·0	-26·0	-17·8	-17·0	-36·8	-25·50	-19·0	-28·5	-25·916	-34·0	-44·0	-39·30
27	-17·0	-32·0	-24·58	-12·0	-22·0	-16·92	-44·0	-50·0	-45·7	-13·0	-26·0	-17·7	-36·5	-40·2	-39·75	-21·0	-32·0	-26·166	-42·0	-45·0	-43·70
28	-34·0	-39·0	-36·75	- 8·0	-11·0	- 9·21	-39·0	-44·5	-42·8	-11·0	-30·0	-20·2	-37·0	-43·5	-39·66	-26·5	-46·0	-40·333	-41·0	-45·5	-43·20
29	-34·0	-40·0	-37·38	- 8·5	-16·5	-11·79	-39·5	-48·0	-44·3	- 9·5	-31·0	-24·1	-29·0	-44·3	-35·35	-35·0	-46·5	-43·041	-42·0	-46·0	-43·80
30	-30·0	-43·0	-36·96	- 9·5	-16·0	-12·29	-29·5	-39·5	-33·5	-34·0	-39·0	-35·7	-26·0	-32·5	-27·15	- 7·0	-29·0	-17·625	-15·0	-43·0	-28·70
31	6·0	-28·0	- 7·17	-11·0	-22·0	-14·21	-33·0	-41·0	-37·0	-22·5	-39·5	-30·2	-32·0	-34·4	-33·12	12·0	- 7·0	- 2·833	- 8·0	-18·0	-12·40
31 days	6·0	-43·0	-21·79	- 4·5	-35·0	-19·05	-14·0	-56·5	-36·4	- 5·0	-39·5	-22·9	- 6·0	-46·7	-35·51	12·0	-46·5	-28·068	- 8·0	-46·0	-32·45

JANUARY.

Date.	Hecla, 1820. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1825. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1849. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1851. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1853. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1854. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Dec. 31	- 6·0	-28·0	- 7·17	-11·0	-22·0	-14·21	-33·0	-41·0	-37·0	-22·5	-39·5	-30·2	-32·00	-34·4	-33·12	-12·0	- 7·00	- 2·833	- 8·0	-18·0	-13·40
Jan. 1	- 2·0	-28·0	-18·33	-22·0	-27·0	-24·17	-30·5	-38·5	-34·3	-26·0	-36·0	-31·9	-29·50	-35·8	-31·57	-25·0	-14·00	-18·541	-18·0	-22·0	-20·50
2	-19·0	-29·0	-24·58	-26·0	-28·0	-26·62	-24·0	-30·0	-26·7	-32·5	-37·0	-34·8	-23·00	-31·5	-27·00	-26·0	- 2·50	- 7·500	-17·0	-25·0	-20·10
3	-29·0	-43·0	-34·62	-26·0	-32·0	-28·62	-20·5	-25·0	-23·0	-31·5	-35·5	-33·7	-20·00	-26·0	-22·33	- 7·0	-21·00	-15·416	-26·0	-33·0	-29·00
4	-34·0	-44·0	-10·17	-27·0	-32·5	-29·58	-16·5	-24·5	-20·8	-27·0	-35·0	-31·9	-26·00	-42·2	-34·80	-18·5	-28·50	-24·625	-19·0	-32·0	-25·80
5	-26·0	-35·0	-32·00	-31·5	-36·0	-33·54	-18·0	-27·5	-22·8	-27·0	-31·0	-28·8	-42·50	-48·0	-45·08	-27·0	-35·00	-31·458	-22·0	-32·0	-26·90
6	-23·0	-33·0	-28·58	-27·0	-34·0	-31·92	-28·5	-36·0	-32·7	-30·0	-33·5	-31·0	-47·00	-51·5	-49·02	-24·0	-30·00	-26·708	-30·0	-36·0	-32·70
7	-32·0	-40·0	-37·67	-32·5	-35·0	-33·87	- 9·5	-31·0	-20·7	-29·0	-35·5	-33·5	-37·00	-49·3	-38·01	-25·0	-33·00	-29·833	-35·0	-42·0	-38·80
8	-33·0	-38·0	-35·83	-21·5	-32·0	-28·46	-25·5	-34·0	-30·1	-23·0	-26·5	-24·8	-39·00	-47·5	-43·00	-34·0	-39·00	-36·291	-41·0	-44·0	-42·70
9	-33·0	-35·0	-34·43	-20·5	-24·5	-22·43	-19·5	-25·5	-22·3	-25·0	-35·0	-29·8	-46·50	-50·0	-47·97	-37·0	-45·00	-41·333	-42·0	-45·0	-43·40
10	-32·0	-43·0	-36·17	-25·5	-36·0	-31·54	-24·0	-40·5	-31·7	-11·0	-34·0	-24·5	-49·50	-56·0	-54·17	-43·0	-45·00	-44·666	-33·0	-44·0	-40·00
11	-45·0	-46·0	-44·42	-35·0	-38·0	-36·87	-38·0	-50·0	-44·7	- 9·0	-25·0	-19·6	-59·50	-57·0	-54·31	-40·0	-44·00	-41·625	-33·0	-44·0	-38·60
12	-42·0	-47·0	-44·71	-37·5	-39·0	-38·08	-44·0	-48·0	-45·9	-17·0	-35·5	-23·9	-53·50	-59·5	-56·25	-40·0	-43·00	-41·583	-36·0	-44·0	-40·20
13	-40·5	-47·0	-45·29	-15·0	-38·0	-24·04	-42·5	-48·5	-45·7	-35·5	-40·5	-38·1	-45·00	-62·5	-54·33	-39·0	-43·50	-41·250	-24·5	-42·0	-32·20
14	-32·0	-40·0	-35·08	-15·0	-20·0	-18·08	-42·5	-47·0	-45·2	-31·5	-37·0	-34·8	-46·00	-50·0	-48·00	-27·5	-44·00	-37·541	-22·0	-29·0	-25·40
15	-34·0	-39·0	-35·73	-20·5	-28·0	-25·67	-42·0	-46·0	-44·5	-33·5	-38·5	-36·7	-42·00	-52·0	-47·65	-28·0	-37·50	-32·791	-30·0	-34·0	-31·90
16	-34·0	-39·0	-37·08	-27·0	-34·0	-29·58	-33·5	-41·0	-35·6	-37·0	-39·5	-38·2	-17·00	-49·0	-36·90	-35·0	-40·70	-38·375	-31·0	-46·0	-40·70
17	-16·0	-34·0	-21·50	-25·0	-33·0	-28·29	-29·5	-37·0	-34·6	-35·5	-39·0	-38·0	-12·00	-16·0	-12·96	-43·0	-49·70	-46·750	-37·0	-43·0	-40·70
18	- 5·0	-15·0	-10·25	-20·0	-25·0	-21·92	-27·0	-32·5	-30·6	-34·0	-43·0	-37·2	-13·00	-35·0	-24·75	-46·0	-50·25	-47·791	-37·0	-40·0	-38·00
19	- 8·0	-28·0	-17·50	-14·5	-19·5	-17·67	-29·5	-46·0	-37·7	-39·5	-45·0	-42·7	-27·00	-40·0	-33·70	-49·0	-53·25	-50·333	-39·0	-42·0	-40·70
20	-16·0	-31·0	-24·46	-20·0	-27·5	-24·17	-36·0	-48·5	-43·2	-40·0	-45·0	-41·9	-31·75	-41·0	-36·45	-50·0	-54·25	-52·458	-36·0	-43·0	-39·00
21	-16·0	-23·0	-19·00	-25·0	-31·0	-28·50	-43·5	-47·5	-44·8	-25·0	-38·0	-29·7	-37·50	-47·5	-43·75	-49·0	-54·75	-52·208	-44·0	-46·0	-44·70
22	-22·0	-29·0	-26·00	-23·0	-31·0	-27·58	-37·0	-42·0	-38·9	-30·0	-40·0	-35·7	-40·00	-50·0	-44·36	-39·5	-49·25	-44·458	-36·0	-43·0	-39·80
23	-18·0	-26·0	-22·50	-23·0	-32·5	-27·83	-40·0	-47·0	-43·1	-30·0	-35·0	-32·5	-40·00	-51·0	-47·63	-29·0	-40·25	-34·833	-19·0	-38·0	-25·70
24	-20·0	-28·0	-24·83	-34·0	-38·0	-36·21	-36·0	-44·0	-40·4	-30·5	-38·5	-34·5	-39·00	-52·0	-47·12	-27·0	-32·25	-29·333	-19·0	-36·0	-29·70
25	-23·0	-30·0	-26·41	-37·0	-42·5	-40·12	-40·0	-47·5	-43·0	-20·0	-34·5	-31·3	-32·00	-42·0	-37·20	-33·0	-42·75	-37·958	-37·0	-46·0	-41·70
26	-26·0	-36·0	-31·17	-25·5	-42·5	-38·00	-41·5	-48·5	-46·3	-18·0	-28·5	-23·7	-31·50	-41·5	-35·87	-44·0	-51·25	-48·541	-37·0	-55·0	-52·20
27	-32·0	-36·0	-33·96	-24·0	-29·0	-26·50	-40·0	-50·5	-45·8	-17·5	-30·5	-26·0	-41·50	-48·0	-45·33	-51·0	-53·75	-52·916	-49·0	-54·0	-52·20
28	-35·0	-39·0	-37·23	-22·0	-37·0	-30·37	-26·5	-38·5	-32·2	-12·0	-22·0	-18·3	-39·00	-45·0	-41·19	-55·0	-59·25	-57·125	-49·0	-54·0	-52·20
29	-19·0	-33·0	-26·12	-27·0	-31·0	-28·25	-26·0	-30·5	-27·7	-14·5	-18·0	-16·8	-34·00	-40·0	-38·22	-55·0	-59·25	-57·125	-40·0	-48·0	-43·40
30	-19·0	-20·0	-19·58	-25·0	-32·0	-26·37	-29·0	-41·0	-32·7	-17·0	-32·5	-22·3	-21·00	-42·5	-29·80	-51·0	-55·75	-53·875	-28·0	-42·0	-35·00
31	-23·0	-28·0	-24·54	-30·0	-34·0	-31·50	-33·5	-42·5	-38·9	-29·5	-37·5	-35·5	-35·00	-49·0	-42·88	-28·0	-51·25	-35·500	-27·0	-36·0	-30·40
31 days	- 2·0	-47·0	-30·00	-14·5	-42·5	-28·91	- 9·5	-50·5	-35·7	- 9·0	-45·0	-31·0	-12·00	-62·0	-40·37	-26·0	-59·25	-37·380	-18·0	-55·0	-36·58

FEBRUARY.

Date.	Hecla, 1819-20, Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1824-25, Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1848-49, Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1850-51, Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1852-53, Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1853-54, Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853-54, Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Jan. 31	-23·0	-28·0	-24·54	-30·0	-34·0	-31·50	-33·5	-42·5	-35·7	-29·5	-37·5	-35·5	-35·0	-49·0	-42·88	-28·0	-51·25	35·500	-27·0	-36·0	-30·4
Feb. 1	17·0	26·0	20·87	31·0	36·0	32·87	30·5	36·0	33·7	32·0	35·0	33·7	26·5	37·8	32·41	37·0	43·25	40·375	34·0	37·0	36·1
2	27·0	38·0	31·75	35·0	40·0	38·29	29·5	43·5	37·3	26·5	35·0	31·6	28·0	46·0	36·40	42·5	46·25	43·791	34·0	37·0	35·5
3	35·0	44·0	39·58	25·0	39·5	33·12	40·5	47·0	42·8	25·0	36·5	30·6	30·5	45·0	39·02	45·0	47·75	46·416	35·0	44·0	40·1
4	37·0	44·5	39·90	18·0	27·0	22·83	29·5	47·0	38·8	22·0	31·2	27·2	28·5	45·0	37·48	45·0	49·75	47·583	32·0	44·0	36·4
5	20·0	37·0	29·12	21·0	25·0	22·96	24·0	32·0	28·6	29·0	36·5	33·8	19·0	28·5	25·75	38·0	44·75	40·416	34·0	40·0	37·5
6	18·0	23·0	20·71	13·0	20·0	15·83	27·0	31·5	30·1	25·0	36·0	30·8	15·0	35·0	22·00	40·5	51·75	45·541	37·0	44·0	40·2
7	20·0	30·0	24·62	16·0	29·0	21·50	31·0	41·5	37·6	28·5	43·5	39·5	22·5	34·5	28·83	50·5	55·25	52·916	45·0	52·0	48·6
8	27·0	32·0	28·92	28·0	39·0	33·54	31·0	39·5	34·9	37·5	44·0	41·5	24·0	32·0	26·85	42·0	48·75	46·791	51·0	52·0	51·4
9	23·0	28·0	25·83	37·5	39·0	38·17	30·0	36·5	33·4	28·0	38·0	33·3	23·0	32·0	28·87	43·0	55·75	48·416	50·0	52·0	51·4
10	26·0	40·0	31·62	31·0	38·0	35·96	31·5	48·5	37·2	30·0	34·0	32·1	27·0	40·0	32·92	49·0	55·75	51·208	52·0	56·0	54·2
11	38·0	42·0	39·77	25·0	34·0	30·00	42·0	49·0	46·5	25·0	37·0	33·0	27·5	43·0	36·21	44·0	54·25	50·208	49·0	54·0	51·1
12	39·0	44·0	42·00	8·0	20·0	12·54	44·0	49·0	45·8	21·0	27·0	24·9	5·0	32·0	19·60	36·0	37·25	41·958	42·0	49·0	45·4
13	37·0	46·5	41·58	10·0	22·5	14·00	40·5	48·5	44·0	20·5	27·0	23·3	2·0	16·0	9·85	33·0	36·25	33·958	41·0	46·0	42·7
14	38·0	48·0	46·33	22·0	32·5	25·79	38·5	44·5	43·1	17·5	23·5	20·0	2·5	-21·5	8·94	34·5	40·90	37·500	34·0	45·0	39·2
15	32·0	50·0	40·92	29·0	34·0	31·12	38·0	41·5	40·3	16·0	19·0	17·3	0·0	-23·5	14·27	24·0	38·87	32·375	34·0	46·0	38·6
16	29·0	36·0	32·33	22·0	37·0	32·50	28·0	39·0	34·3	11·5	25·0	14·9	- 1·0	-32·0	14·42	23·0	30·87	25·875	45·0	55·0	50·4
17	26·0	39·0	33·42	15·0	23·0	18·25	22·0	29·5	24·9	26·0	34·0	30·2	28·0	34·0	31·00	29·0	37·37	33·250	49·0	55·0	52·0
18	24·0	28·0	26·25	26·0	34·0	28·96	21·5	24·5	23·0	27·0	37·5	32·6	22·5	36·0	27·00	28·0	34·05	30·208	47·0	52·0	49·7
19	19·0	24·0	21·04	27·0	40·0	33·25	18·0	22·0	19·8	34·5	39·0	36·6	17·0	22·0	19·70	34·0	40·37	37·333	40·0	51·0	43·0
20	23·0	26·0	24·08	37·0	42·0	39·42	20·0	34·5	26·2	35·0	37·5	36·3	15·0	21·0	17·08	40·0	44·00	41·458	35·0	43·0	37·8
21	25·0	37·0	30·25	35·0	45·0	40·35	25·0	35·5	29·9	35·5	43·0	39·8	21·5	44·5	37·54	35·0	45·00	40·833	25·0	43·0	34·7
22	34·0	41·0	36·58	29·0	36·0	31·92	25·0	33·0	28·6	34·0	44·0	38·0	39·0	45·5	42·38	30·0	39·25	34·875	30·0	39·0	35·2
23	35·0	41·0	37·67	25·0	28·0	26·46	26·5	46·5	34·5	39·0	45·0	42·2	36·0	43·0	40·75	34·0	40·50	37·416	35·0	41·0	38·7
24	39·0	43·0	40·92	25·0	28·5	26·71	38·5	57·5	50·2	42·0	46·0	44·0	34·0	40·0	37·56	36·0	45·00	40·541	29·0	37·0	34·6
25	30·0	38·5	34·54	27·0	32·0	30·37	49·5	60·0	54·6	30·0	45·5	37·7	25·0	41·0	37·00	39·0	45·62	41·875	28·0	37·0	33·3
26	20·0	29·0	26·33	8·5	26·0	17·17	17·0	50·5	32·2	29·0	34·0	31·6	34·0	42·0	38·02	37·0	43·62	40·291	29·0	35·0	32·5
27	34·0	32·0	27·75	8·0	13·0	10·17	17·5	30·5	25·2	37·0	40·0	38·1	37·0	47·0	42·00	30·5	41·00	36·916	23·0	27·0	26·2
28	25·0	32·0	29·08	9·0	32·0	20·92	24·5	35·0	30·2	31·0	39·5	35·7	37·0	42·5	39·02	20·5	32·50	26·625	22·0	27·0	25·6
29	27·0	37·0	29·07																		
Mean	-17·0	-50·0	-32·19	- 8·0	-45·0	-27·32	-17·0	-60·0	-35·2	-11·5	-46·0	-32·5	2·5	-47·0	-29·39	-20·5	-55·75	-40·247	-22·0	-56·0	-40·8

MARCH.

Date.	Hecla, 1819-20, Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1824-25, Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1848-49, Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1850-51, Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1852-53, Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1853-54, Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853-54, Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Feb. 28	-25·0	-32·0	-29·08	- 9·0	-32·0	-20·92	-24·5	-35·0	-30·2	-31·0	-39·5	35·7	37·0	42·0	39·02	20·5	32·50	26·625	-22·0	-27·0	-25·6
Mar. 1	35·0	40·0	31·33	22·0	44·0	31·46	20·5	31·0	26·1	17·0	34·0	26·2	34·0	44·0	37·77	18·0	29·00	23·000	14·0	28·0	21·4
2	17·0	33·0	25·00	38·0	47·5	42·96	13·0	28·5	19·2	16·5	26·0	18·4	24·0	43·0	34·85	16·5	34·12	24·625	29·0	36·0	33·6
3	26·0	37·0	31·33	23·0	40·0	29·29	4·5	13·5	8·6	26·5	29·0	26·5	16·0	35·5	22·60	28·0	36·50	31·916	30·0	38·0	34·8
4	24·0	33·0	27·92	27·0	35·0	31·29	7·5	13·0	10·7	17·5	25·0	20·9	37·0	49·0	46·27	24·0	36·37	30·000	32·0	43·0	38·8
5	9·0	28·0	16·50	26·0	33·5	29·33	6·5	19·0	11·6	23·0	33·0	27·6	47·5	57·3	52·83	25·0	38·25	31·541	36·0	43·0	40·6
6	2·5	- 8·0	- 2·50	20·0	39·0	29·58	2·0	-10·0	- 4·0	31·0	37·0	34·7	49·5	55·8	52·29	31·0	44·00	38·833	28·0	44·0	39·7
7	2·0	-15·0	- 6·17	32·0	39·0	35·29	8·0	- 5·5	1·9	26·0	36·5	31·2	48·0	55·5	51·86	21·0	44·37	39·708	24·0	42·0	32·7
8	-16·0	-23·0	-18·35	24·0	33·0	28·37	- 2·5	-25·0	-13·4	32·0	40·0	37·0	38·5	46·0	41·54	20·0	36·00	28·416	15·0	33·0	23·1
9	3·0	14·0	8·58	24·0	33·5	27·92	-15·0	-37·5	-24·7	28·5	41·5	38·5	31·5	40·5	36·83	19·0	38·37	30·708	30·5	38·0	34·6
10	1·0	-14·0	- 4·96	22·0	36·5	30·08	-31·5	-40·0	-36·4	28·5	43·0	35·1	29·5	40·0	35·08	30·0	42·25	35·875	34·0	42·0	37·4
11	6·0	-11·0	- 2·25	25·0	38·5	34·04	-23·5	-39·0	-29·2	34·0	38·5	36·4	34·0	45·0	39·94	27·0	36·00	32·416	38·0	46·0	42·3
12	-19·0	-29·0	-24·00	24·0	37·5	32·24	-28·0	34·0	31·6	21·5	37·0	28·6	34·5	40·5	38·13	26·5	30·75	28·250	39·0	46·0	43·4
13	-10·0	-27·0	-22·71	24·0	36·0	30·46	-17·0	35·0	27·5	11·0	21·0	14·4	31·0	40·0	37·64	23·0	44·81	35·416	36·0	45·0	40·3
14	-12·0	-24·0	-17·83	23·0	33·0	32·29	-15·5	-22·5	-19·2	12·5	8·0	9·9	14·0	33·0	26·50	35·0	49·62	42·833	31·0	43·0	35·1
15	10·0	23·0	16·25	18·0	38·0	27·62	-18·5	-28·5	23·2	11·5	39·0	25·6	23·5	33·5	28·70	23·5	40·00	34·333	24·0	32·0	27·2
16	13·0	26·0	21·79	23·0	28·0	25·50	22·5	35·0	28·2	25·5	37·5	33·2	16·0	23·0	19·06	23·0	29·62	25·666	19·0	27·0	23·1
17	12·0	24·0	17·58	21·0	27·5	24·38	-14·0	-33·0	-22·3	27·0	40·0	36·0	5·0	-18·0	- 8·47	22·5	31 37	27·916	20·0	30·0	25·9
18	5·0	16·0	8·88	11·0	29·5	23·04	-18·0	-36·5	-25·4	17·0	37·0	21·6	21·5	5·5	14·71	14·0	24 25	19·416	30·0	36·0	31·8
19	10·0	18·0	13·75	15·5	25·5	21·50	-29·0	-40·5	-35·0	9·0	16·5	16·8	14·5	- 2·0	4·75	12·5	38·37	28·225	29·0	38·0	33·7
20	8·0	18·0	11·88	20·0	27·0	22·29	-28·5	-41·5	-35·5	11·0	26·5	20·9	12·0	Zero	4·94	24·0	40·12	33·250	27·0	37·0	32·0
21	12·0	24·0	15·63	20·0	29·0	22·33	-32·0	-43·5	-37·7	30·0	44·5	37·2	18·0	12·0	14·39	22·5	39·37	31·416	27·0	33·0	31·2
22	8·0	22·0	13·75	16·0	37·5	29·17	-36·5	-44·5	-39·7	20·0	28·0	23·3	24·0	10·0	16·58	23·0	39·37	30·083	26·0	36·0	30·7
23	17·0	26·0	20·42	20·0	38·0	30·46	-29·5	-48·0	-39·7	11·0	23·0	16·6	22·0	7·5	13·48	27·5	42·25	35·416	31·0	38·0	35·1
24	18·0	27·0	21·50	23·0	40·0	33·50	30·5	51·0	38·8	18·5	29·0	22·2	14·0	0·5	5·54	21·0	37·06	30·500	28·0	37·0	33·1
25	22·0	30·0	26·71	26·0	42·0	33·54	-31·0	-45·0	37·1	19·0	30·0	23·5	2·0	-17·0	- 8·17	22·5	43·00	34·708	32·0	34·0	33·5
26	21·0	29·0	25·50	20·0	29·0	23·92	-13·5	-32·5	21·0	11·0	26·0	19·0	- 1·0	-11·5	- 7·60	23·0	42·00	32·208	22·0	37·0	27·7
27	19·0	33·0	26·17	9·0	27·0	18·00	4·0	13·5	8·5	20·0	33·0	25·6	5·0	- 7·0	- 2·69	22·5	46·00	36·125	27·0	38·0	33·7
28	16·0	29·0	24·17	13·0	32·0	22·75	7·5	25·0	14·6	21·5	35·0	28·4	6·0	- 1·5	1·12	22·5	35·19	28·750	17·0	32·0	23·6
29	17·0	28·0	23·88	18·0	30·0	23·42	6·5	25·5	12·5	10·0	35·0	21·5	- 9·0	-15·0	- 7·44	14·0	26·06	20·125	16·0	37·0	19·4
30	12·0	28·0	20·29	16·0	32·0	24·92	- 0·5	-14·0	- 7·1	8·0	23·0	16·2	8·5	-18·0	- 8·58	13·0	26·00	19·916	18·0	26·0	22·2
31	3·0	27·0	11·50	21·0	35·0	28·71	14·0	25·5	18·8	21·5	27·5	25·2	8·0	-13·0	- 1·10	14·0	29·68	22·333	18·0	36·0	24·9
Mean	6·0	-40·0	-18·10	- 9·0	-47·5	-28·37	8·0	-51·0	-22·8	- 8·0	-44·5	-25·7	24·0	-55·5	-17·71	12·5	49·62	30·471	-14·0	-46·0	-31·7

APRIL.

Date.	Hecla, 1820. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1825. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1849. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1851. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1853. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1854. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Mar. 31	- 3·0	-27·0	-11·50	-21·0	-35·0	-28·71	-14·0	-25·5	-18·8	-21·5	-27·5	-25·20	8·0	-13·0	- 1·104	14·0	29·68	22·333	-18·0	-36·0	-24·9
Apr. 1	0·0	-16·0	- 8·33	20·0	37·0	29·58	0·2	-16·0	- 3·5	19·0	29·0	24·00	- 2·0	-26·0	-16·400	18·5	34·31	26·708	20·0	33·0	27·6
2	- 2·0	25·0	8·37	17·0	36·0	27·75	- 0·4	- 5·5	- 2·2	19·0	27·0	24·50	-12·0	-27·0	-20·375	12·0	28·37	23·333	21·0	34·0	28·2
3	9·0	26·0	18·71	11·0	31·0	23·08	- 4·7	-13·4	- 9·4	6·0	26·0	13·50	Zero	-14·5	-10·540	6·0	37·50	24·458	21·0	36·0	27·8
4	8·0	26·0	14·75	11·5	34·0	23·67	- 3·5	-14·2	- 7·5	2·0	12·0	6·50	6·0	- 8·5	- 0·666	10·5	36·18	25·750	15·0	30·0	21·2
5	5·0	24·5	16·62	17·5	36·0	28·54	-13·6	-26·0	-19·2	7·0	23·0	10·70	10·5	- 2·0	2·310	11·5	23·18	19·375	10·0	20·0	13·7
6	15·0	25·0	18·75	19·0	36·0	28·25	-14·2	-29·4	22·7	15·0	25·5	20·80	13·0	-14·0	- 3·730	10·0	17·00	12·916	8·0	22·0	15·3
7	13·0	26·0	21·00	12·0	35·0	25·04	- 2·2	-29·4	-11·5	4·8	25·0	11·90	Zero	-11·0	- 5·380	8·5	27·87	20·250	17·0	33·0	21·2
8	13·0	29·0	20·46	11·0	29·0	20·88	8·6	19·2	13·4	5·0	28·0	19·90	- 4·6	-24·0	-16·350	15·0	35·12	25·708	18·0	34·0	26·5
9	14·0	30·0	21·85	9·5	26·0	16·79	- 9·2	-20·5	-14·1	7·0	24·0	15·30	- 8·0	-23·0	-17·330	12·5	29·50	21·500	12·0	28·0	16·6
10	12·0	32·0	22·96	6·0	19·0	10·67	- 8·4	-16·5	-11·7	9·0	20·0	14·50	- 2·0	-21·0	-11·440	- 1·0	16·25	12·000	8·0	20·0	13·2
11	12·0	27·0	19·67	8·0	- 5·0	2·46	- 7·5	-23·2	-14·5	11·0	26·0	17·70	10·5	- 5·0	1·480	- 1·5	21·37	12·250	8·0	22·0	14·5
12	11·0	29·0	20·00	19·0	5·0	12·29	- 2·2	-14·8	- 6·3	10·0	25·0	17·30	11·0	- 3·0	0·830	6·5	18·12	12·333	1·0	22·0	9·9
13	15·0	31·0	22·92	4·5	-11·0	- 1·42	- 7·0	-19·2	13·5	1·0	11·0	4·20	9·0	- 6·0	- 1·600	2·0	-10·00	- 1·791	7·5	9·0	4·7
14	14·0	29·0	19·37	- 6·0	-14·0	- 9·54	- 7·6	-18·4	-14·5	7·0	- 1·0	- 4·40	7·0	-13·0	- 3·690	3·5	1·75	1·208	- 4·0	17·0	12·2
15	6·0	-17·0	- 7·33	- 5·0	-14·0	-10·42	-13·6	-20·2	16·2	18·0	5·0	11·70	- 2·0	-25·0	-15·120	- 1·0	-18·25	-10·125	6·0	19·0	6·8
16	- 5·0	-19·0	-12·33	11·0	-17·0	- 1·83	-10·2	-20·4	-15·1	17·0	14·5	16·00	- 9·0	-15·5	-11·540	4·0	- 4·00	- 0·916	8·5	8·0	1·2
17	5·0	21·0	13·62	11·0	-14·0	- 2·92	- 3·6	-16·6	-10·6	25·0	16·0	21·40	-10·0	-24·5	-19·100	7·2	- 7·00	2·808	16·0	2·0	9·8
18	1·0	15·0	8·17	9·0	-14·5	- 2·71	- 3·2	-19·4	- 9·8	27·0	18·0	21·00	Zero	-13·0	- 8·120	12·5	5·00	8·666	16·0	1·5	8·8
19	2·0	-13·0	- 4·00	4·0	-12·0	1·71	-10·8	-19·5	-15·8	26·0	19·0	21·50	- 7·0	-17·5	-13·500	4·5	-11·00	- 3·416	12·5	2·0	6·8
20	4·0	- 9·0	- 2·21	13·0	1·5	6·67	2·6	-13·4	- 3·8	28·0	15·0	21·60	-11·0	-16·0	-13·900	12·0	- 6·50	0·775	15·0	4·0	9·2
21	3·0	-10·0	- 3·17	20·0	3·0	10·87	- 1·0	-19·0	7·4	10·0	-13·0	0·10	- 9·0	-23·0	-16·400	13·0	- 9·50	1·433	25·0	6·0	13·1
22	0·0	-12·0	- 4·63	20·0	- 2·0	8·08	-14·7	22·2	18·3	- 9·0	-16·0	-12·80	-10·0	-18·5	-15·080	15·0	6·50	9·750	10·0	1·0	5·3
23	13·0	- 5·0	4·00	11·0	2·0	6·87	- 7·2	-20·4	-13·8	-20·0	-26·0	-23·00	Zero	- 9·0	- 5·940	15·0	2·00	7·791	6·0	-13·0	- 4·1
24	14·0	4·0	10·42	7·0	1·5	3·17	- 8·2	-14·2	-10·2	- 3·5	-26·5	-12·90	2·0	-11·5	- 5·140	16·0	-12·00	0·375	9·0	15·0	4·0
25	14·0	- 7·0	4·88	14·0	1·5	6·92	- 2·8	-12·6	- 8·9	3·0	-22·0	- 8·10	- 0·5	-13·0	- 8·540	15·0	- 6·00	2·916	15·0	11·0	4·0
26	11·0	-12·0	- 1·17	9·0	- 6·0	2·21	2·2	- 4·4	- 1·0	- 8·0	-22·0	-16·90	2·0	-15·5	- 7·100	14·5	- 8·50	3·650	15·0	8·0	12·5
27	9·0	-12·0	0·08	12·0	- 9·0	3·54	- 2·8	11·8	6·9	-11·0	-29·0	-17·30	7·0	-17·0	- 6·750	16·0	3·00	9·458	24·0	5·0	18·7
28	15·0	- 5·0	4·83	11·0	- 6·0	3·67	1·0	12·4	4·5	-10·0	-25·0	-17·10	5·0	- 4·5	- 0·180	21·0	15·00	17·875	29·0	12·0	21·9
29	22·0	3·0	12·75	14·0	- 9·0	0·96	4·8	0·0	2·6	1·0	-19·0	-10·50	10·0	- 4·0	1·560	23·0	16·50	19·666	15·0	1·0	9·7
30	32·0	6·0	20·38	7·0	- 2·5	2·21	7·0	7·6	1·2	14·0	-26·0	- 8·80	17·5	- 6·0	3·500	20·0	- 3·50	9·500	17·0	- 4·0	3·9
Mean	32·0	-32·0	- 8·37	20·0	-37·0	- 6·50	7·0	-29·4	-10·1	28·0	-29·0	- 7·31	17·5	-27·0	- 8·127	23·0	-37·50	- 5·197	29·0	-36·0	- 5·4

MAY.

Date.	Hecla, 1820. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1825. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1849. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1851. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1853. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1854. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
Apr. 30	32·0	6·0	20·38	7·0	−2·5	2·21	7·0	−7·5	...	14·0	−26·0	...	17·5	−6·0	3·500	20·0	− 3·5	9·500			
May 1	17·0	17·0	8·58	11·0	−5·0	5·12	4·5	−9·0	...	−4·0	−20·0	−10·80	23·0	2·0	12·770	18·0	−15·0	1·000			
2	11·0	−1·0	6·25	11·0	2·5	5·88	1·0	−4·5	...	−1·0	−18·0	− 6·40	14·0	1·0	7·020	2·5	−14·5	−6·500			
3	15·0	2·0	9·25	8·0	3·0	5·58	2·0	−6·0	...	10·0	− 5·0	3·10	15·5	−1·5	4·040	8·0	−12·5	−1·708			
4	16·0	Zero	7·67	15·0	−3·0	4·84	3·0	−3·0	...	9·0	− 1·0	4·10	7·0	−9·0	−1·580	12·0	− 9·5	2·116			
5	20·0	2·0	11·58	11·0	−7·5	3·46	8·0	−1·5	...	13·0	− 4·0	4·80	8·0	−9·0	0·480	11·0	− 3·0	4·541			
6	8·5	2·0	3·83	26·0	1·5	13·33	16·0	−3·0	...	9·0	− 8·0	−0·40	10·0	Zero	5·590	8·0	−19·0	−5·333			
7	5·0	4·0	0·79	25·0	6·0	16·04	18·0	5·5	...	11·0	− 6·0	1·50	10·0	Zero	5·250	4·0	−15·0	−4·875			
8	8·0	2·0	3·00	28·0	11·0	19·25	17·0	8·0	...	16·5	− 3·0	8·70	12·0	−1·5	3·930	8·5	− 2·5	1·791			
9	9·0	1·0	4·67	30·0	13·5	22·29	28·0	17·5	...	8·0	− 7·0	−1·20	10·5	2·0	7·750	12·0	1·0	5·000			
10	10·0	1·0	5·62	24·0	3·0	11·00	24·0	10·0	...	12·0	−13·0	2·50	12·0	−2·5	6·200	15·0	1·0	6·166			
11	10·0	1·5	4·17	9·5	4·0	6·29	16·0	8·0	...	17·0	2·0	9·50	12·5	Zero	5·940	13·0	2·0	6·500			
12	18·0	1·0	8·62	17·0	4·0	8·25	29·0	8·0	...	8·0	− 4·0	3·40	17·5	1·0	8·350	15·0	− 3·0	4·958			
13	17·0	1·0	7·62	17·0	6·0	11·62	16·5	2·0	...	12·0	− 2·0	7·50	16·0	−1·5	6·420	12·5	−11·0	1·208			
14	17·0	3·0	7·50	28·5	1·5	17·75	24·0	1·0	...	14·0	2·0	7·80	15·0	−2·0	6·120	18·0	Zero	5·333			
15	19·5	1·0	9·42	33·0	15·0	23·27	29·0	18·5	...	24·0	1·0	10·70	22·0	1·0	9·330	16·5	−7·0	4·375			
16	24·0	2·0	12·67	23·5	14·5	18·50	28·0	20·5	...	11·0	1·0	6·50	21·0	12·0	17·380	16·5	−3·0	7·916			
17	29·0	7·0	18·50	26·0	17·0	21·96	37·5	20·0	...	20·0	− 3·0	3·70	25·0	14·0	17·230	20·0	5·0	13·750			
18	24·0	10·0	18·50	25·0	17·0	21·17	27·0	19·0	...	25·0	10·0	19·70	28·5	17·0	21·620	20·0	−2·5	8·816			
19	25·0	10·0	18·00	23·5	17·0	20·21	26·0	14·0	...	17·0	9·0	12·20	30·0	16·0	23·290	17·0	Zero	7·791			
20	25·0	10·0	16·96	31·0	16·0	20·08	21·5	12·5	...	15·0	6·0	10·40	39·0	19·0	26·760	18·5	5·0	10·250			
21	29·0	6·0	18·83	36·0	15·5	22·33	25·0	9·0	...	21·0	6·0	12·50	38·0	19·0	25·630	18·0	9·0	12·875			
22	32·0	12·0	23·00	24·0	17·0	21·04	42·0	16·0	...	17·0	5·0	11·80	30·0	19·5	22·870	17·5	4·0	11·291			
23	31·0	20·0	27·29	22·5	16·5	20·50	41·5	22·0	...	16·5	4·0	10·00	33·0	17·0	22·480	19·0	Zero	18·833			
24	38·0	25·0	32·71	23·0	7·0	16·87	37·0	20·0	...	21·5	4·0	9·90	29·0	20·0	24·120	28·5	6·0	16·041			
25	40·5	32·0	36·33	27·0	13·0	21·50	33·0	15·0	...	18·0	4·0	12·30	58·0	28·0	39·480	30·0	15·0	21·450			
26	36·5	30·0	33·04	33·0	21·0	27·25	19·0	13·5	...	26·0	17·0	22·30	25·5	13·0	17·120	33·5	16·0	23·583			
27	47·0	32·5	39·17	37·5	22·0	26·75	24·0	13·0	...	19·0	12·0	15·00	52·0	14·0	19·000	23·5	10·0	18·708			
28	37·0	33·0	34·96	39·0	23·0	31·87	21·5	10·0	...	16·0	11·0	20·20	30·5	17·5	21·875	24·0	9·0	20·375			
29	33·0	24·0	26·54	26·0	23·0	23·83	38·0	8·5	...	24·5	10·0	18·00	29·5	17·5	23·560	24·0	17·0	22·458			
30	38·0	24·0	31·08	31·5	24·0	28·71	36·0	20·0	...	29·5	14·0	22·00	32·0	18·0	23·150	32·0	19·0	26·375			
31	35·0	27·0	30·92	34·0	26·0	30·25	32·0	18·0	...	37·0	18·0	26·20	36·0	23·0	26·660	33·0	19·0	26·916			
Mean	47·0	−4·0	16·66	39·0	−7·5	17·65	42·0	−9·0	...	37·0	−20·0	8·96	58·0	−9·0	14·738	33·5	−19·0	9·419			

JUNE.

Date.	Hecla, 1820. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1825. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1849. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1851. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1853. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1854. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1853. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
May 31	35·0	27·0	30·92	...	...	...	...	...	...	...	...	...	36·0	23·0	26·66	33·0	19·0	29·916			
June 1	40·0	31·0	36·29	42·0	26·0	32·46	...	...	...	36·0	21·0	27·50	34·0	24·5	27·63	33·0	20·0	26·958			
2	36·0	31·0	34·17	39·0	25·0	29·92	...	...	...	31·0	23·0	26·60	33·0	23·0	25·58	40·5	25·0	29·375			
3	43·0	20·0	35·50	42·5	23·5	33·46	...	...	...	29·0	16·0	23·70	28·0	22·0	25·08	34·0	19·0	26·416			
4	39·0	31·5	35·63	36·0	25·0	31·83	...	...	...	29·0	10·0	20·50	31·0	22·0	25·87	32·5	17·0	25·000			
5	40·0	30·0	34·87	45·0	25·0	35·29	...	...	...	34·0	23·0	28·30	32·5	22·5	25·58	26·0	15·0	20·250			
6	37·0	28·0	32·17	48·0	27·0	36·67	...	...	...	34·5	22·0	30·40	39·0	23·0	28·33	27·5	15·0	21·125			
7	31·0	28·0	29·63	45·0	32·0	36·29	...	...	...	33·0	28·5	30·70	35·0	20·0	25·00	28·1	20·0	23·541			
8	36·0	28·0	33·08	47·0	33·0	36·86	...	...	...	37·0	29·0	32·90	31·0	25·0	27·67	32·0	18·5	23·250			
9	38·0	30·0	33·92	41·5	32·5	36·42	...	...	...	37·0	32·0	34·70	31·0	25·0	27·92	33·5	23·0	27·125			
10	33·0	32·0	32·25	37·0	31·0	33·79	...	...	...	41·0	31·0	34·50	36·0	26·0	29·71	31·0	25·0	28·583			
11	36·0	33·0	33·92	35·0	30·0	32·50	...	...	...	41·0	31·5	37·00	38·0	25·0	29·96	27·5	21·0	24·416			
12	34·0	30·0	32·54	43·0	31·5	35·25	...	...	...	50·0	29·0	34·70	36·0	23·5	28·71	27·0	23·0	24·958			
13	37·0	29·5	33·46	38·0	30·5	33·96	...	...	...	37·0	33·0	35·30	33·0	24·5	28·21	26·5	18·5	23·291			
14	37·0	32·0	34·75	41·5	27·5	35·21	...	...	...	38·0	31·0	34·90	39·0	31·0	32·55	28·0	20·5	23·000			
15	39·0	29·0	34·67	40·0	23·0	32·92	...	...	...	37·0	31·0	34·20	42·0	35·0	29·55	39·0	22·0	27·333			
16	37·0	29·0	33·75	42·0	34·0	37·96	...	...	...	39·0	31·0	34·60	33·0	27·0	29·35	36·0	21·0	26·625			
17	43·0	30·0	34·58	47·0	33·5	38·83	...	...	...	40·0	30·0	34·10	36·0	25·0	30·14	35·0	21·0	27·041			
18	48·0	31·0	37·33	45·0	32·0	38·25	...	...	...	34·0	30·0	32·30	38·0	27·5	31·58	38·0	24·0	28·750			
19	40·0	34·0	37·67	43·0	32·5	37·58	...	...	...	43·0	29·5	34·60	42·0	27·0	31·62	37·0	23·0	28·125			
20	39·0	34·0	36·25	40·5	33·0	35·92	...	...	...	34·0	28·0	30·80	32·0	26·0	28·27	31·0	23·0	26·250			
21	42·0	35·0	38·17	41·0	34·0	36·54	...	...	...	32·0	27·5	30·10	30·0	27·0	27·98	34·0	22·0	25·791			
22	51·0	36·0	44·33	44·0	35·0	38·17	...	...	...	39·0	26·0	33·10	34·0	29·5	30·46	42·0	25·0	32·250			
23	46·5	38·0	42·08	44·0	36·0	39·50	...	...	...	52·0	28·0	35·70	34·0	30·0	31·06	44·0	25·0	35·458			
24	41·0	33·0	37·00	41·0	34·0	38·25	...	...	...	43·0	27·0	31·40	40·0	30·0	34·21	38·0	25·0	32·000			
25	41·5	34·0	37·42	42·0	32·5	37·29	...	...	...	37·0	28·0	32·10	41·0	30·5	34·08	37·0	26·0	31·208			
26	47·0	33·0	40·50	43·0	32·0	37·42	...	...	...	35·0	32·0	33·10	38·0	31·5	34·83	44·0	29·0	33·833			
27	43·0	36·0	39·33	45·0	38·0	41·50	...	...	...	35·0	32·0	33·70	37·5	31·0	35·00	42·0	31·0	34·250			
28	44·0	32·0	37·17	41·0	36·0	39·25	...	...	...	41·0	30·0	35·70	37·0	30·0	32·48	38·0	28·0	32·250			
29	46·0	39·0	41·92	42·0	35·0	37·87	...	...	...	43·0	33·0	35·50	34·0	29·5	31·64	42·0	32·0	36·416			
30	48·0	37·0	43·75	42·0	35·0	36·42	...	...	...	40·0	33·0	35·50	42·0	30·0	35·42	36·0	31·0	33·333			
Mean	51·0	28·0	36·24	47·0	23·0	36·12	...	...	...	52·0	10·0	32·27	42·0	20·0	29·84	44·0	15·0	27·940			

JULY.

Date.	Hecla, 1820. Melville Island, 74° 47′ N., 111° 0′ W.			Hecla, 1825. Port Bowen, 73° 14′ N., 89° 0′ W.			Enterprise, 1849. Port Leopold, 73° 51′ N., 90° 18′ W.			Resolute, 1851. Griffith Island, 74° 40′ N., 95° 0′ W.			Assistance, 1853. Northumberland Sound, 76° 52′ N., 97° 0′ W.			Assistance, 1854. Wellington Channel, 75° 31′ N., 92° 0′ W.			Resolute, 1858. Melville Island, 75° 0′ N., 109° 0′ W.		
	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.	Max.	Min.	Mean.
June 30	48·0	37·0	43·75	42·0	35·0	36·42	...	...	...	40·0	33·0	35·50	42·0	30·0	35·42	36·0	31·0	33·333			
July 1	41·0	36·0	40·58	42·0	34·0	37·58	...	...	...	38·0	31·0	34·90	43·0	32·0	35·79	39·0	32·0	35·500			
2	45·0	36·0	40·50	41·5	34·0	37·00	...	...	...	37·0	31·0	33·30	41·0	32·0	35·92	42·0	34·0	37·166			
3	53·0	34·0	43·83	43·0	33·0	37·75	...	...	...	37·5	32·0	35·00	39·0	30·0	34·42	38·0	33·0	36·208			
4	45·0	37·0	39·83	37·0	34·0	34·92	...	...	...	39·0	33·0	35·10	38·0	34·0	36·08	40·0	35·0	36·958			
5	52·3	37·0	44·38	38·0	32·0	35·29	...	...	...	40·0	32·0	35·80	...	...	...	43·0	37·0	38·833			
6	51·0	43·0	47·67	40·5	34·0	36·25	...	...	...	40·0	32·0	36·45	...	...	...	43·0	37·0	40·250			
7	55·0	41·0	37·42	43·0	32·0	37·67	...	...	...	47·0	32·0	39·00	...	...	...	43·0	33·0	36·583			
8	55·0	43·0	48·75	41·0	33·0	35·58	...	...	...	43·0	33·0	37·00	...	...	...	37·0	32·0	34·666			
9	49·0	40·0	43·58	41·0	34·0	36·50	...	...	...	36·0	31·0	33·50	...	...	...	37·0	33·0	34·583			
10	48·0	41·0	45·67	41·0	33·0	37·92	...	...	...	40·5	31·0	34·30	...	...	...	41·0	35·0	37·583			
11	49·0	43·0	43·33	41·0	35·0	38·12	...	...	...	42·5	34·0	37·40	...	...	...	41·0	33·0	37·666			
12	49·0	40·0	43·75	44·0	37·0	40·08	...	...	...	41·0	37·0	39·00									
13	55·0	40·0	46·00	47·5	37·0	41·17	...	...	...	49·0	37·0	42·20									
14	56·0	32·0	48·25	40·5	32·0	37·08	...	...	...	45·0	36·0	39·30									
15	Left Winter Quarters.																				
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ACCOUNT OF THE FISH.

BY

SIR JOHN RICHARDSON, C.B., F.R.S.,

HON. F.R.S.ED., ETC. ETC. ETC.

THE small collection of fish brought from Wellington Sound by Sir Edward Belcher is interesting from the locality in which it was formed,—high in respect of latitude, at a considerable distance from the Greenland shores, and still further removed from Behring's Straits. The families to which the specimens belong are among the characteristic forms of the northern seas, and their members are remarkable for their strong generic physiognomy, and consequently for the difficulty that naturalists experience in framing concise and distinctive phrases for the discrimination of the species.

The first group that we have to notice, the *Cottidæ*, sufficiently illustrate this remark. So strong is the family aspect of these small and familiar fish, that in the early progress of ichthyology the *Cottus gobio* and *C. scorpius* were supposed to be inhabitants of all the waters of the northern hemisphere. More minute observation has shown differences in specimens from distant localities; and we are now perhaps in danger of running into the opposite extreme, of unduly restricting the geographical ranges while we augment the numbers of the species. Fabricius, who until lately has been almost the sole authority for Greenland fish, describes three *Cotti* besides the *Cottus cataphractus*, which is the type of the genus

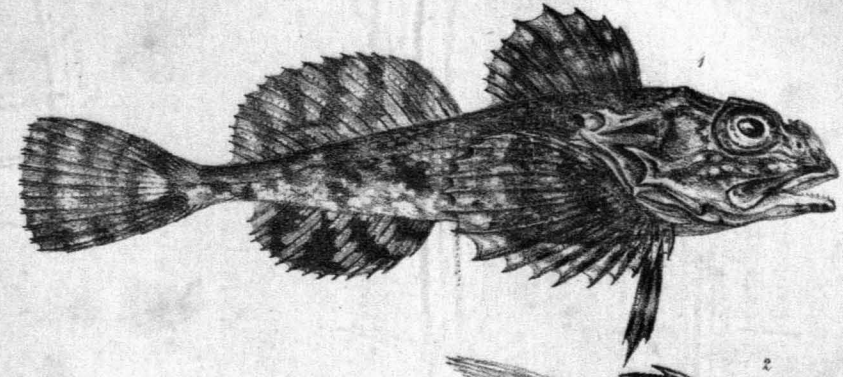
Aspidophorus of Lacépède and Cuvier. Another Greenland species (*Cottus porosus*) is added in the 'Histoire des Poissons' (t. viii.); and Professor Reinhardt, of Copenhagen, notices two others, *Cottus uncinatus* and *Triglops Pingelii*. Kroyer (Nat. Tidskr. N. Räkk.) subdivided the northern *Cotti*, making the *Cottus tricuspis* of Reinhardt, identified with *C. gobio* of Fabricius, the type of his genus *Phobetor*, which wants vomerine teeth, while his genus *Icelus* has palatine teeth, in addition to the dentition of the vomer and jaws. To it belong *Cottus uncinatus* and *C. bicornis* of Reinhardt, and a Spitzbergen species, *Icelus hamatus* (Kroyer). Mr. Girard, in a Monograph published in the 'Smithsonian Contributions to Knowledge, December, 1850,' has carried the dismemberment of Artedi's genus *Cottus* still further. To the marine species he has given the name of *Acanthocottus*, reserving the original generic appellation to the *Cottus gobio* and its numerous allies, inhabitants of fresh waters. The American species of *Cottus*, as restricted by Mr. Girard, are,—1. *C. cognatus* (Richardson), an inhabitant of Great Bear Lake, under the Arctic circle; 2. *C. Richardsonii* (Agassiz), taken on the northern coasts of Lake Superior; 3. *C. Franklinii* (Agassiz), frequenting the southern shores of the same great lake; 4. *C. Alvordii* (Girard), Fort Gratiot, Lake Huron; 5. *C. formosus* (Girard), Lake Ontario; 6. *C. gracilis* (Heckel, or *Uranidea quiescens* of Dekay), New England and New York; 7. *C. gobioides* (Girard), Lake Champlain; 8. *C. boleoïdes* (Girard), Vermont; 9. *C. Bairdii* (Girard), Mahoning River, Ohio; 10. *C. Wilsoni* (Girard), eastern tributaries of the Ohio; 11. *C. viscosus* (Haldeman), Eastern Pennsylvania and Maryland; 12. *C. meridionalis* (Girard), James River, Virginia.

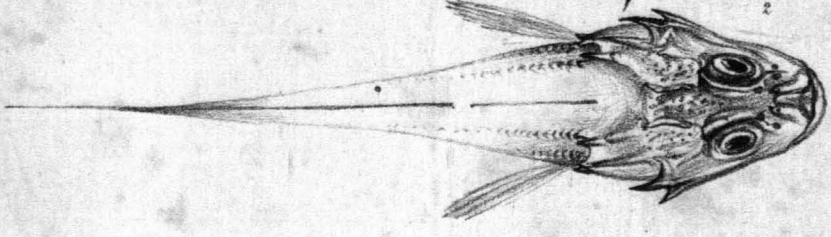
I avail myself of this opportunity to remove a nominal species from the list of American fish. The *Cottus hexacornis* (Richardson) was found at the mouth of the Coppermine River in June, 1821, on Sir John Franklin's First Expedition; and a description of the recent fish was entered in my note-book at the time, but the specimens were lost during the calamitous

E.B.del.

Vincent Brooks Lith.

Extraordinary Dyke, Point Hogarth





retreat of the Expedition from the coast. In writing out the Natural History Report, after my return to England, I misconstrued my brief record of the nasal spines, and by considering them to be similar to the cranial tubercles, made a fictitious discrepancy with the characters of the common *Cottus quadricornis* of the northern seas. On revisiting the same coasts in 1849 I obtained more specimens and discovered my error; and, on a comparison of them with examples of the *C. quadricornis* in the British Museum, I found that, except in the greater size of the *hexacornis* and the more fully developed cranial tubercles, the species was the same. In the fish of Coronation Gulf the tubercles are not larger than those represented in the portrait of an Iceland specimen published in Gaimard's Atlas.

COTTUS GLACIALIS (Richardson).

Radii: Br. 6; D. 10/-17; C. 15; A. 14; V. 1/3; P. 17.

Plate XXIV., figs. 1, 2, 3, nat. size; fig. 4, magnified.

Description.

The general aspect of this species approaches that of *Cottus gobio* of England, and is dissimilar to that of *C. scorpio*. *Head* broad and rather depressed, with an obtuse snout: its length is contained thrice and nearly a half in the total length of the fish, while its breadth at the occiput rather exceeds its height there. In profile, the back descends from the hind head without any gibbous rising at the first dorsal, such as that which characterizes *C. porosus* (C. et V. viii. p. 498). Body tapering, and tail at the setting on of the caudal slender. *Armature*:—Nasal spines moderately large, pungent. Superorbital ridges elevated and even, including a smooth furrow between them, and of their distal corners forming the anterior pair of small cranial tubercles. Immediately behind these tubercles rise another pair of ridges, scarcely so prominent, bounding a less hollow space and terminating in the posterior pair of still smaller tubercles. These four tubercles have little

prominence, being much enveloped in the skin, and are neither rough nor spinous: their plan is represented in Plate II. fig. 2.

Preoperculum emitting the principal spine from the point where it is supported by the smooth rib of the second suborbitar. This spine is subulate and acute, rises above the axis of the fish at an angle of 45°, and does not reach to the edge of the gill-cover: from its base a shorter spine inclines slightly below the axis, and the proximal end of the preoperculum tapers so as to form a third small and bluntish spine, which stands just behind the angle of the lower jaw and has an inclination forwards and downwards; it is enveloped in loose integument. There are no other prominent points on the preoperculum. The bony operculum consists of a horizontal narrow piece or rib that tapers into a spine, whose point does not attain the membranous edge of the gill-cover, and of a slender descending limb, which joins a corresponding process of the suboperculum splintwise. Between the disc of the suboperculum and the main limb of the operculum there is a triangular fleshy space, and just behind the inferior preopercular spine the suboperculum emits a small pungent spine, directed downwards.* A moderate-sized suprascapular spine lies parallel to the opercular one and immediately over it, completing the armature of the head.

The fins are rather large; their position may be ascertained by referring to fig. 1, wherein they are represented fully extended. All the rays of the anal and second dorsal are jointed. *Anus* placed under the third ray of the second dorsal.

Lateral line constructed, as in *C. porosus*, of a series of short cutaneous tubes, elevated above the skin, open at the

M. Valenciennes describes a spine as occupying nearly this position in *C. porosus*, but as belonging to the operculum. "L'opercule donne, comme à l'ordinaire, une épine de son angle supérieur; elle est courte et ne dépasse pas le bord membraneux; mais il en donne une autre très-pointue, de son angle inférieur près de sous-opercule."—C. et V. viii. p. 499.

end, and having above and below them smaller pores, seemingly connected with the main line by tubular branchlets. The inferior row of marks in fig. 2 represent short cutaneous folds, corresponding to the points of the ribs. There are no scales nor bony plates on any parts of the skin.

The *body* is clouded, as represented in the figure, with bars on the fins; and there are many small white spots, just perceptible to the naked eye, scattered over the sides. A lens shows the dark places to be marked with crowded black dots. No teeth on the palate bones.

Dimensions.

Total length, including caudal	4·45 inches.
Length of head to tip of operculum	1·30
Length from premaxillary (retracted) to anus	1·80
Breadth of head at gill openings	0·70
Height of head there	0·62

This fish was taken in Northumberland Sound, in lat. 76° 53′ N., in nine fathoms water, on a gravelly bottom, the temperature of the air being at the time of capture 28° Fahr.

I have endeavoured to obtain specimens of the *Cottus polaris* of Sabine, discovered in abundance on the shores of North Georgia in pools of water left by the ebbing tide; but the search that was instituted, at my request, in the Museum of the Zoological Society and in the British Museum was without success. It appears however to be sufficiently characterized as distinct from *C. glacialis* by the small number of rays in the dorsals (6/–13), and the five rays in the ventrals, though in other respects there is no marked discrepancy between Colonel Sabine's description and the above of *glacialis*.

In many particulars *C. porosus* of M. Valenciennes, brought from Davis's Straits, answers to our fish, and but for the spine in the second dorsal, the inferior opercular spine, and especially the gibbous back particularized in his description, I should have considered them to be one species. I have seen neither figure nor specimen of *C. porosus*.

PHOBETOR TRICUSPIS (Kroyer).

Genus PHOBETOR, Kroyer, Naturhistorisk Tidskrift udgivet Henrik Kroyer, Kjöbenhavn, 1844–45. (*Caret dentibus vomerinis, cæteroquin Cotti simile.*)

Cottus gobio, Fabricius, Fauna Grœnlandica, No. 115, p. 159, an. 1780.

Cottus tricuspis, Reinhardt, Mus. Reg., et Graah, Reise Ostk. Grönl., 1832, p. 194; Reinhardt, Det Kongelige Danske Videnskabernes Selskabs, Kjöbenhavn, p. 52, An. 1832, et Ichthyologiske Bidrag til den Grönlandske Fauna af J. Reinhardt, Kjöbenhavn, An. 1837, No. 3, p. 35.

Phobetor tricuspis, Kroyer, *ut supra cit.*; Reports on Ichthyol. for 1843-44, Ray Soc., pub. 1847, p. 555.

Cottus Fabricii, Girard, Monograph in Smithsonian Contrib., Dec. 1851, No. 13, p. 59.

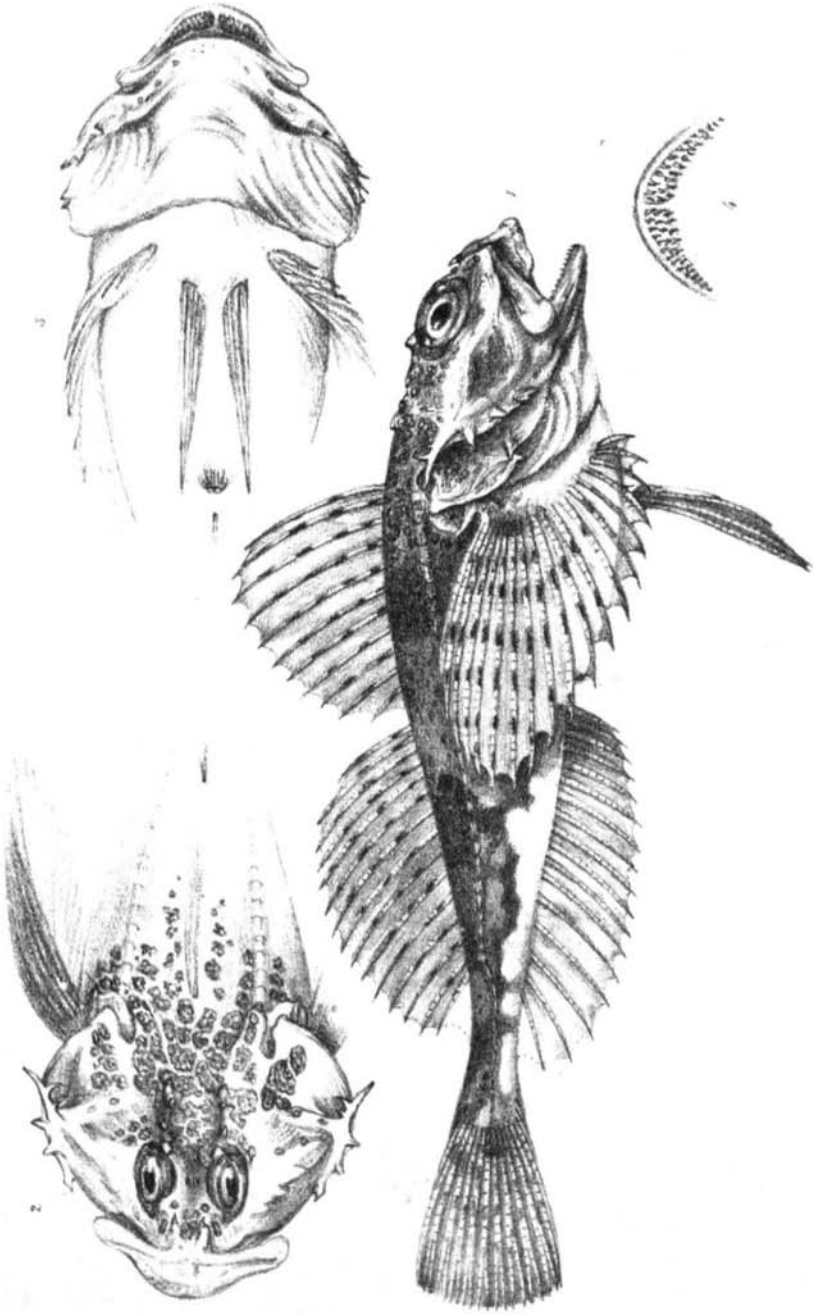
Tricuspis, Gaimard, Voy. en Scandinavie, Ichth. par Kroyer, pl. iv. (No letter-press.)

Radii: Br. 6–6; D. 11/–15; C. 11⅔; A. 17; V. 1/3; P. 19.*

PLATE XXIII., fig. 1–4, nat. size.

The Danish naturalists, who have the best means of knowing the fish described by Fabricius, have identified his *gobio* with the *tricuspis* of Professor Reinhardt. I have not however been able to obtain a detailed account of the species by any late writer, the above citations being in general brief remarks on the description in the 'Fauna Grœnlandica,' said by them to be imperfect. This description generally corresponds with our fish, but there are some parts of it which would have led me to consider the Greenland one a different species, were it not for Kroyer's figure above quoted, which, though evidently a bad drawing, is yet so like our Plate I. in essential characters, that it would be unsafe to name them as distinct species. The doubts raised by the consideration of Fabricius's account arise first from his applying the word *ha-*

* In the Fauna Grœnland. the numbers are: B. 6; D. 10/–17; C. 12; A. 18; V. 3; P. 17; and in Kroyer's figure, D. 11/–16; C. 11; A. 18.



matus to the preopercular spine, which is not hooked, though it may be said to be barbed, like an Eskimo fishing-hook or fish-spear; secondly, as to the extent to which the scabrous osseous scales are distributed. According to him they form the lateral line, or run along it, and in some individuals exist also under the pectorals and behind the eyes. In our specimen these scales cover the top of the head and nape, and spread less densely to the gill-cover: but the lateral line is beset by none, except just at its commencement. It is most likely a very variable character, depending partly or wholly on sex and season. Thirdly, he describes the first dorsal and pectorals as black, with pale lines; whereas in our fish the fine lines which cross the rays of these fins are black, the membrane being pale. The figure in the 'Voyage en Scandinavie' shows no scabrous scales at all, but the preopercular spine corresponds with our Plate, as does also the distribution of the dark parts of the body, the fins however being darker. As Kroyer could compare Gaimard's Iceland specimens with the Greenland ones in the Royal Museum of Copenhagen, we must consider their identity as established with the one we have figured, and which was captured in Hudson's Bay. The species is therefore spread widely through the northern seas, and is very plentiful at Spitzbergen, as well as on the Greenland coasts.

Its generic name of *Phobetor* (*φοβητρον, quod metum incutit*) has reference to the dread that fishermen entertain of wounds from its spines. It wants the vomerine teeth of *Cottus*, as well as the palatine ones of *Icelus*, having only the premaxillary and mandibular ones, and it has no opercular spine. The size likewise of its pectorals and of its fins generally is greater than is usual among the *Cotti*.

Description.

General aspect, much like that of *Cottus scorpius* or *C. bubalis*, with lively colours, larger fins, rather more protractile jaws, and a somewhat smaller mouth. Length of the head less than the breadth at the preopercula, and equalling a third

of the total length of the fish, caudal included. The greatest height of the head is fully one-third less than its breadth; that part of the fish may be described therefore as depressed, and when viewed from above, the outline of the entire head is broadly ovate, while the body tapers regularly to the slender tail (fig. 2).

In profile, though the premaxillaries appear, from their slenderness and greater protrusion, more acute than is usual in the *Cotti*, the face from the eyes forward is obtuse: the curve of the dorsal line however is moderate and regular, its summit being under the first dorsal, and the descent to the orbits gentle.

Armature of the head.—Nasal spines acute, conspicuous. The strongest and most peculiar spine arises from the angle of the preoperculum, where that bone is supported by the unarmed, smooth second suborbitar; it tapers and is subulate, and acute at the tip, which does not quite reach the margin of the gill membrane. Two small, acute snags, rise vertically from its upper side, the distal one being the largest of the two. Three short but conspicuous spinous points, standing at equal distances, belong to the lower limb of the preoperculum, two of them, directed downwards, being acute, and the third, which is concave, and forms the proximal apex of the bone, tending forwards; two conspicuous pores perforate the upper limb of the preoperculum, as represented in figure 2. The operculum differs from that of the *Cotti* in wanting both rib and spine, its apex being a thin obtuse plate of bone, covered by and edged in the recent fish with membrane. The suboperculum has however, as in many *Cotti*, a small spine pointing downwards from its lower angle, and the distal end of the interoperculum emits a still smaller spine, directed towards the tail, across the subopercular one. I have not noticed this interopercular spine in any of the *Cotti*. The suprascapular is unarmed, though the blunt angle of the bone may be detected on searching, but the coracoid emits a minute spine from its distal edge above the pectoral fin. No orbital ridges exist, their usual site in the *Cotti* being filled in this fish by the

membrane of the eyes, but the space between the orbits is as usual concave. The postorbital tubercle on each side is small but conspicuous, and the occipital pair also exist, though they are not so isolated from the surrounding parts. All the four are finely furrowed, and through a lens appear cancellated, but are scarcely rough to the touch. The ridges connecting these tubercles are low, and enclose a slightly concave space, which, with the ridges themselves, is thickly covered by scabrous bony plates. Similar plates of different sizes exist on the gill-covers, temples, nape, and fore-part of the back, as represented in figure 2: there is also a row of smaller ones between the second dorsal and lateral line. The belly is soft and smooth throughout.

The *lateral line* is composed of a series of short, soft, raised tubes, and runs along the upper third of the back until it comes opposite to the last rays of the second dorsal and anal, when it makes a short deflection, and is continued through the middle of the remainder of the tail.

Fins in general large. The pectoral has much spread, an obliquely oval form when expanded, and reaches over the anterior third of the anal. From the seventh downwards the rays shorten rapidly, the lowest one having only about a sixth of the length of the longest ones. The *first dorsal*, commencing over the middle of the operculum, has its last ray over the anus: a short space divides it from the *second dorsal*, which is slightly higher, and has no spinous ray. The *anal* is also destitute of a spine, has shorter rays than the second dorsal, and goes a little nearer to the caudal. The spread of the caudal, as in the *Cotti*, is not great, though its rays are tolerably long. Three longish unbranched but jointed rays, and a spine of half their length, constitute the ventrals, whose tips go a little past the anus.

The lively colours of the recent fish have perished in the specimen after two years' maceration in spirits. The under surfaces of the head, body, and tail, are milk-white. We are indebted for the specimen to Dr. Rae, who caught it in the northern part of Hudson's Bay.

Dimensions.

Total length of fish, caudal included	5·60 inches.
Length from symphysis of premaxillaries to upper angle of gill-opening	1·50
Length from symphysis to tip of great preopercular spine	1·20
Length from symphysis to anus	2·51
Length of pectorals	1·50
Length of ventrals	1·10
Length of caudal	0·84

GASTEROSTEUS INSCULPTUS.

(*An varietas, an species propria ?*)

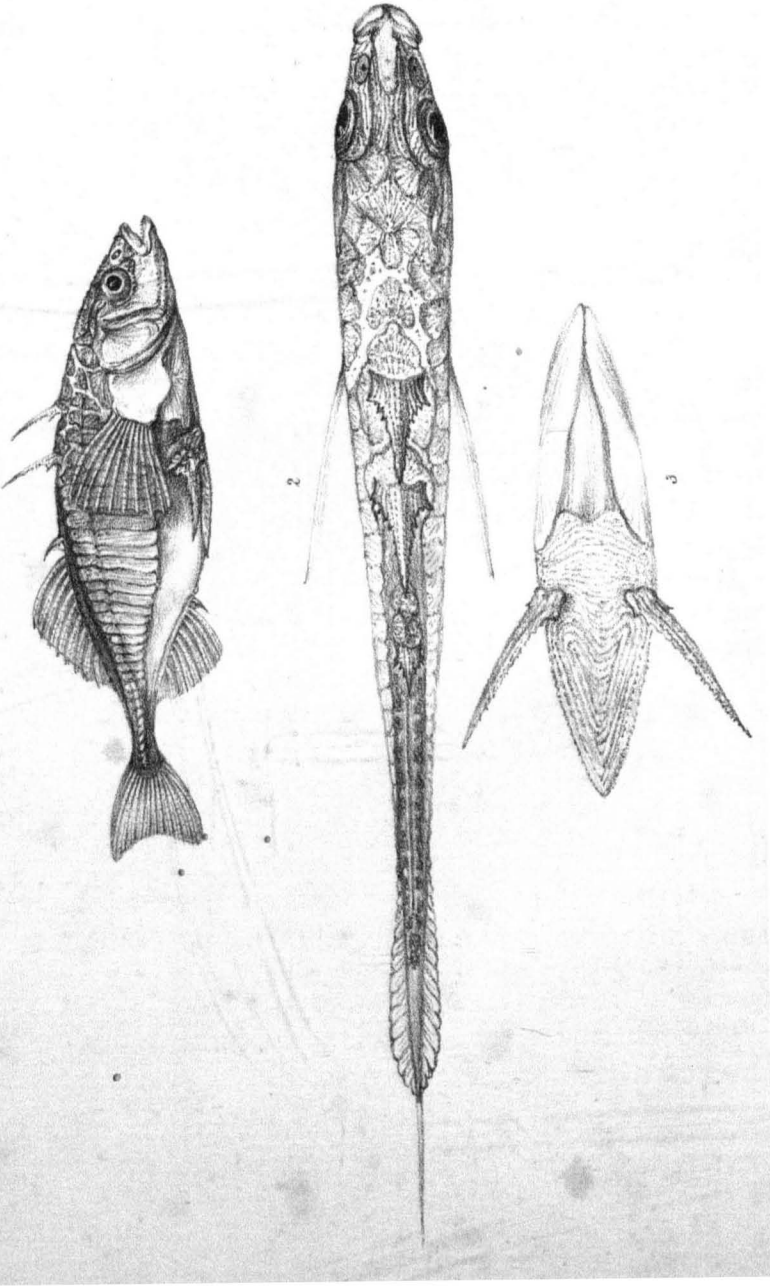
Radii: Br. 3–3; D. 1/–1/–1/9; A. 1/8; C. $12\frac{6}{6}$; P. 11; V. 1/1–1/1.

Plate XXV., fig. 1, nat. size; fig. 2 and 3, magnified.

The three-spined Sticklebacks are generally spread over the northern hemisphere, being inhabitants of both the fresh and salt waters. On a cursory inspection it might appear to be a single species that is thus widely distributed, so well is the general aspect preserved in even distant localities; but Cuvier has named several forms as distinct, separating first one in which the posterior side scales are deficient, and secondly another with shorter spines. He has also described as peculiar two American species, which differ but slightly from their European representatives, and a minute comparison of specimens taken in places much less remote from each other, might discover differences sufficient greatly to multiply these species or varieties. Sir Edward Belcher has brought home a single specimen of that form, which possesses the complete number of side-plates and dorsal spines of the usual length, but which has a decidedly deeper body than its English representative: he obtained it in deep water in Northumberland Sound, at a distance from any fresh-water streams.

Description.

Having through the kindness of Dr. Baikie procured seven or eight three-spined *Gasterostei* from the Orkneys, some of them even larger than the Northumberland Sound one, I selected



for comparison one of exactly the same length with the latter, and placing them side by side, the greater depth of the Arctic fish was very apparent, but the only other differences I could detect consisted in the sculpturing of the opercular pieces and bony plates. In the Orkney fish the opercular bones are rayed by fine furrows or rows of dots, depressed below a smooth, silvery surface, and their edges are nearly smooth. In the Northumberland Sound one, the rays are more strongly marked, and the preoperculum especially is ribbed with rough points, which, under a lens, give a finely denticulated edge to that bone, and also to the cheek plate. The nacry plate at the base of the pectoral is the same in all. On the pelvic bones and spines the sculpturing is much coarser in the Arctic fish, but the free dorsal spines and fins differ little. One of the Orkney specimens has the tip of the second dorsal spine more toothed, as well as dilated by two thin edges; but the other specimens from the same locality have merely subulate tips to that spine. The Orkney and Hampshire specimens have one pectoral ray fewer. Some minute differences may be detected in the forms of the dorsal plates, which it would be difficult to make clear by a verbal description, for which I have therefore substituted a figure enlarged to twice the linear dimensions of the specimen.

Hampshire specimens appear smoother than the Orkney one, but I have not been able to obtain any of equal size for comparison.

Dimensions.

Total length from tip of lower jaw to tip of caudal . .	3·40 inches.
From tip of mandible to gill-opening	1·30
From tip of mandible to anus	1·91
Height of body at the ventrals	0·74

GUNNELLUS FASCIATUS (Bloch, *sub Blennio*).

Blennius fasciatus, Bloch, Schn., p. 165, *et* pl. 37, fig. 1.
Blennius gunnellus, Fabricius, Fauna Grœnl., p. 149.
Gunnellus fasciatus, C. et V. ii. p. 441; Reinhardt, Bidrag til den Grönlandske Fauna, p. 40.

Gunnellus Grœnlandicus, Reinhardt, C. et V. ii. p. 442, pl. 340.

Radii: Br. 5–5; D. 88; C. 19; V. 44 *vel* 45; P. 13; V. 1.

PLATE XXVII., nat. size.

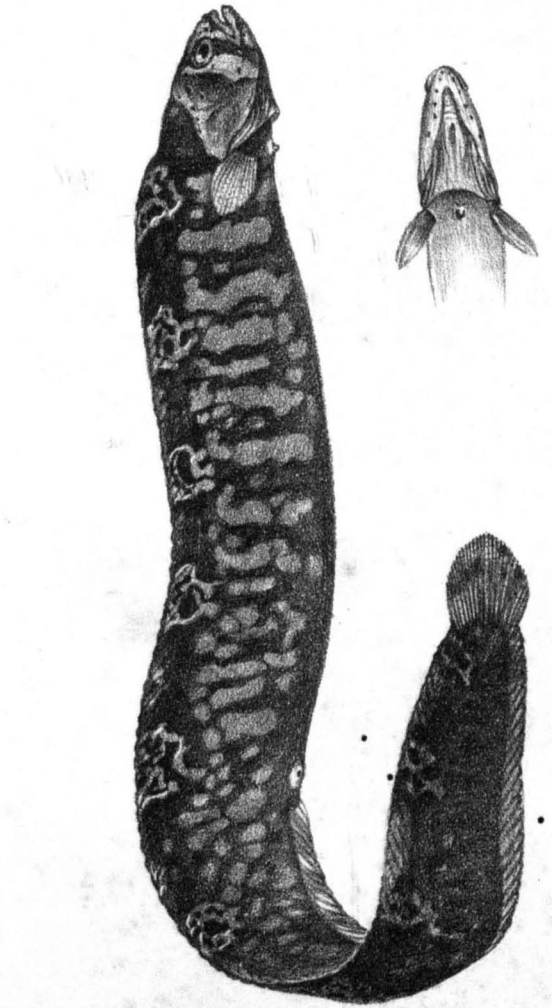
Bloch stated that his *fasciatus* came from Tranquebar, and Professor Reinhardt, finding the *Blennius gunnellus* of Fabricius to differ in some respects from Bloch's description and figure of *fasciatus*, gave it the name of *Grœnlandicus*, at the same time expressing doubts of the correctness of the habitat assigned by Bloch to his fish. For the same reasons the two specific names were retained in the 'Histoire des Poissons,' but Professor Reinhardt having in 1831 discovered Bloch's specimen in the Museum at Berlin, found it to be of the same species as that described by Fabricius, and therefore restored Bloch's name of *fasciatus*, which has the priority.

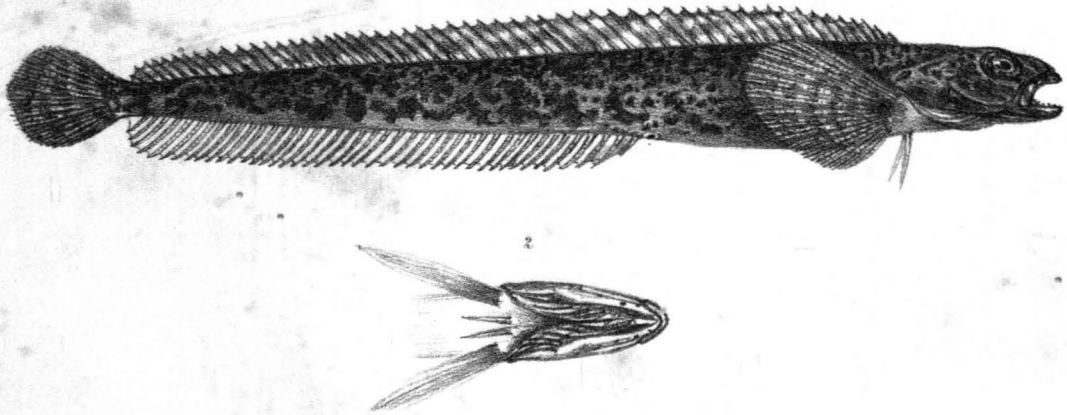
The Northumberland Sound specimen, figured of the natural size in Plate V., agrees in species with the *Grœnlandicus* of Cuvier, as may be seen by comparing our plate with that in the 'Histoire des Poissons.' It is fully described in the text of that work, and we need not therefore enter into details here. In the character of its markings it has a resemblance to the *Gunnellus vulgaris*, so abundant on the Lincolnshire coast; both have cross bands, though the ground tints differ. There is also a difference in the dorsal spots, which in *vulgaris* are smaller, neater, round and black, and more exactly defined by a pale border. In this species also the two minute ventrals are distinct from one another, while in *fasciatus* a single minute papilla represents both* (fig. 2).

Dimensions.

Total length	8·16 inches.
Length to gill-opening	0·78
Length to anus	4·10
Greatest height just before anus	0·90

* On slitting up the skin round the ventral of *fasciatus* only a single, minute, elastic, round, subulate process was found, in which the rays, if any, could not be made out.





LUMPENUS NUBILUS (Richardson).

Radii: Br. 6–6; D. 63/; A. 1/42; C. 17; P. 16; V. 1/4–1/4.

PLATE XXVIII., nat. size.

Professor Reinhardt, in his 'Ichthyologiske Bidrag til den Grönlandske Fauna,' briefly notices several Greenland *Gunnelli*, under the generic appellation of *Clinus*, following in this a former edition of the 'Règne Animal.' The typical species of the group is the *Blennius lumpenus* of Fabricius, which is the *Gunnellus Fabricii* of the 'Histoire des Poissons,' the authors of that work rejecting the epithet *lumpenus* on account of its having originated in an erroneous compilation. The same species is described and figured in Henrik Kroyer's 'Scandinaviens Fiske' (pl. xiv.) under the generic name of *Lumpenus*, which we have adopted, notwithstanding the objection made to it, since the group differs so much from the ribbon-formed *Gunnelli* as to need a distinctive appellation.

Not having access to examples of the *Lumpeni* enumerated by Professor Reinhardt, I am unable to compare Sir Edward Belcher's fish with them,—but a careful consideration of the Professor's notices lead me to the conclusion that it is a species not yet described. Though it greatly resembles *Lumpenus Fabricii* in its markings, and does not much differ from it in the number of its rays, it cannot be said to be round (*teres*), as Fabricius terms his fish, while, on the other hand, it is far from being compressed and comparatively high in the body, like *Gunnellus vulgaris* or *G. fasciatus*, and Kroyer's figure represents a more coarsely scaled fish than *nubilus*: moreover it wants the palatine teeth of Fabricius's *lumpenus*. Indeed *L. gracilis* is the only member of the group with which it agrees in having teeth neither on the vomer nor palatines;*

* Professor Reinhardt arranges the species according to their dentition, thus:—

a. Teeth on the palatines, *Clinus lumpenus*, *C. medius*.

b. Teeth on the palatines and vomer, *C. aculeatus*.

c. No teeth in either of these positions, *C. gracilis*.

but these two fish differ so much in the number of their fin-rays that they cannot well be brought into the same species.

Description.

Form.—Body compressed, but not nearly so much so as that of *G. vulgaris* or *fasciatus*,—the depth, excluding the dorsal, being so much less, that where it is greatest it does not exceed one-eleventh of the total length, caudal included, while in *fasciatus* the height is one-ninth of the length. The body is thicker than the head, and both back and belly are rounded anterior to the vent, the compression increasing rapidly in the tail.

Scales very small, round, so deeply imbedded as not to be readily seen, but numerous on the body, and more crowded on the tail. *Lateral line* straight, running at midheight, and consisting of a fine groove. It does not readily catch the eye, and has been omitted by the artist in the figure. No scales on the fins.

Teeth.—A series of acicular teeth arm the orifice of the mouth, standing rather widely on both jaws. On the premaxillaries there is, in addition, an interior band of very minute villiform ones, and near the symphysis of the mandible there is a cluster two or three deep. No forked tongue is perceptible, nor is there any projection from the hyoid bone meriting the name of tongue. No teeth exist on the vomer or palate bones. There is a small velum behind the premaxillaries. A small point of the gill-plate projects over the gill opening.

The gill opening is carried forward underneath (fig. 2), the *gill membranes* being inserted far forward between the limbs of the mandible into a very narrow isthmus, instead of crossing the throat immediately before the ventrals, and having a free edge, as in *G. vulgaris* and *fasciatus*. From these *nubilus* differs also in having six branchiostegous rays on each side, cylindrical, curved, and graduated.

Fins.—The fin membranes generally are more delicate than those of *G. vulgaris* and its near allies, not being enveloped in thick, but in translucent integument, so that the rays are

conspicuous: the dorsal and anal are received into grooves, and when lowered into them are invisible. Owing to the elasticity of the membrane these fins are not easily kept extended unless carefully pinned out, and on that account the rays are not readily reckoned. From that cause, the artist has represented too few rays in the dorsal of fig. 1, a mistake having been made in the enumeration. All the dorsal rays are spinous, the anterior ones being graduated,—and the first anal ray is simple, and either spinous or with obsolete joints. Both fins terminate near the caudal, but are scarcely joined to its base. The caudal has a slight tendency to the rhomboidal form, with the upper and under corners rounded off. Pectoral large, but falling more than its own length short of the arms. Ventrals small, slender, and pointed, composed of a short spine and two jointed rays, visible enough, with two others, very slender and shorter, looking like a single ray fissured to the base. All lie side by side, enveloped in a thickish white skin, without any intervening extensible membrane.

Markings.—Head and body mottled with a row of about twelve larger, irregular marks along the middle of the side, touching or passing over the lateral line: a series of oblique, faint, and ill-defined bars on the generally pale ground of the dorsal; better defined cross bars on the pectoral; anal pale; caudal obscurely barred. There are no traces of lines parallel to the lateral line, such as Professor Reinhardt mentions in his notice of *Clinus unimaculatus*. The want of eyed spots in the dorsal, and the lateral line continued to the caudal, distinguishes *nubilus* at first sight from *G. punctatus*: how far it differs from M. Pylaie's Newfoundland *Gunnellus*, mentioned in the 'Histoire des Poissons,' I am unable to say from the briefness of the notice.

Dimensions.

Total length, caudal included	5·60 inches.
From tip of maxillary symphysis to point of gill-flap	0·82
From tip of maxillary symphysis to anus	2·15
Height of head at the gill-plates	0·42
Width there	0·32

Height at the middle of the belly	0·51 inches.
Thickness	0·29
Length of caudal	0·50
Length of pectorals	0·66
Length of ventrals	0·32

LYCODES MUCOSUS (Richardson).

Genus LYCODES, Reinhardt; Th. Λυκωδης (*lupo similis*).

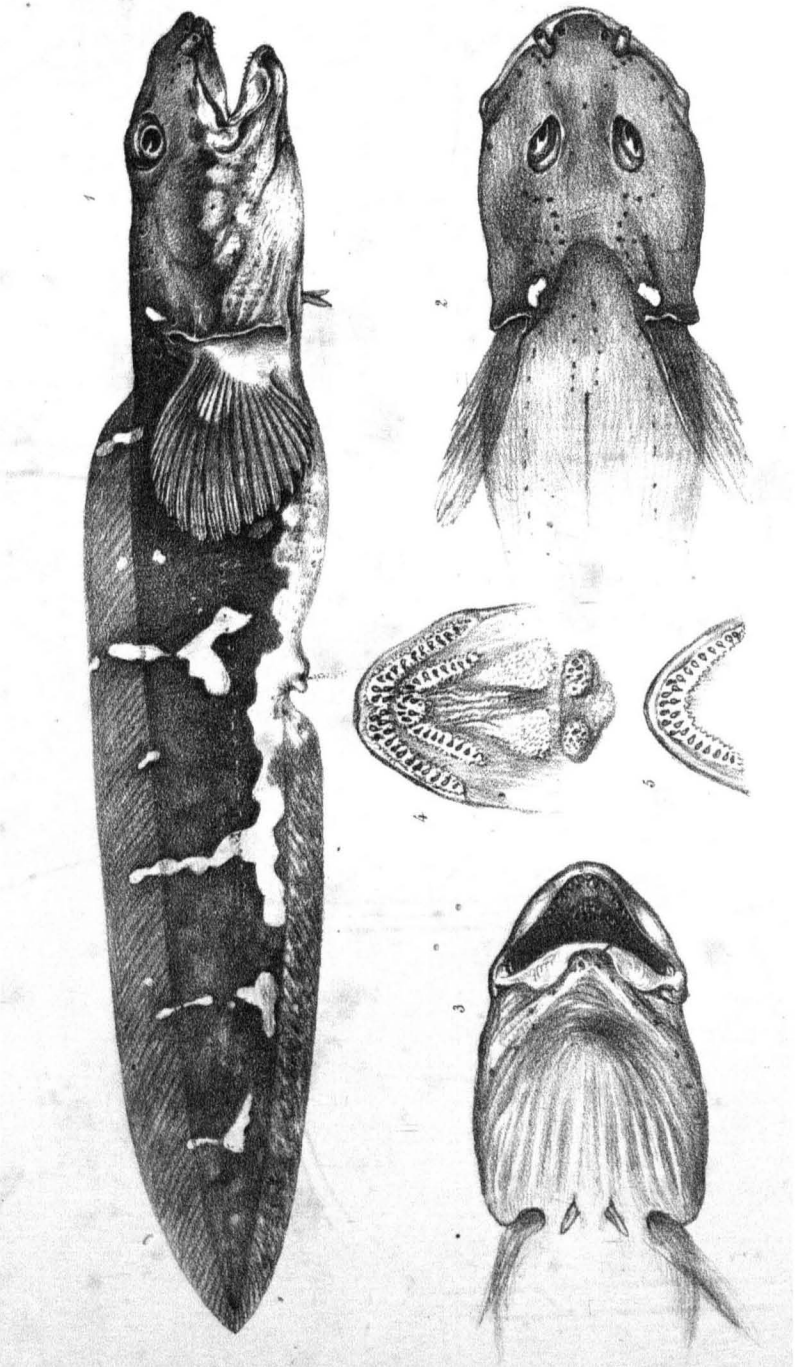
Lycodes mucosus: PLATE XXVI., fig. 1–5, nat. size.

Radii: Br. 6–6; D. 84; C. 10; A. 64; V. 3; P. 18.

Professor Reinhardt became acquainted with this generic form in the year 1831, on examining a specimen taken from the stomach of a shark at Nennortalik, on the coast of West Greenland, in 60° of north latitude. Subsequently he obtained other examples from Fiskerness, lying under the sixty-third parallel; and in his 'Ichthyologiske Bidrag og Tillæg til den Grönlandske Fauna,' published at Copenhagen in 1837, he gave a detailed account of three species, viz. *Lycodes Vahlii, L. reticulatus,* and *L. seminudus,* with figures of the first two.* These three species are more or less scaly, but *Lycodes mucosus* has no scales whatever: in this respect it agrees with the *Blennius polaris* obtained on the coast of North Georgia near the seventy-fifth parallel of latitude, during Sir Edward Parry's First Expedition. Captain (now Colonel) Sabine does not enter into sufficient details to enable us to characterize *polaris,* but says enough to render it probable that it enters into the genus *Lycodes,* and if so it agrees with *mucosus* in being destitute of scales.† Through the kindness

* Kroyer in his 'Scandinaviens Fiske' figures a *Lycodes perspicillum* which has a white spot close behind each eye and nine dark bands crossing the body: there are two varieties, which differ in the forms of the bands.

† The following abstract of Colonel Sabine's note contains the most essential particulars that he notices:—*Blennius polaris, imberbis, pinna anali caudali dorsalique unitis.* Length of the pectoral fin exceeding twice its breadth, having fifteen rays; ventral fins of two spines



of Dr. Gray search has been made both in the British Museum and in the collections of the Zoological Society for the specimens of this fish, but unfortunately in vain. The notices of *Blennius polaris* given in the subjoined foot-note show that it can scarcely be the same species with our *mucosus*, the markings of the two being very distinct.

Description

of a female specimen of L. mucosus.

In *general appearance* this fish has a considerable resemblance to the *Zoarces viviparus*, especially when both are enveloped in the thick mucus which they throw out copiously in dying. The head constitutes very nearly one-fourth of the total length of the fish, and its breadth just behind the eyes, where it is greatest, exceeds its height there by about one-third. The back equals the head in breadth, and the belly is more or less tumid according to its contents; but from the vent to the tip of the tail the compression is such that the distal half of the fish resembles the point of a straight sword. The anus is exactly in the middle of the total length, its border is tumid, and a small papilla projects from behind it.

Mandible shorter than the upper jaw. Orifice of the mouth tolerably large, but the cleft does not extend so far as the eye. A skinny lip borders the upper jaw, being attached to the premaxillaries. The mandibular lip is developed into a lobe on each side, but is wanting at the symphysis. A row of subulate teeth exists on the premaxillaries, mandible, and palatines: the row is double in front of the upper and lower jaws, and there is a round cluster on the vomer. The numbers and positions of the teeth are shown in figs. 4 and 5.

enclosed in a lax skin; upper jaw considerably longer than the under one, teeth conspicuous to the naked eye; no scales were detected by the microscope. Colour, a yellowish ground, lighter on the belly, with eleven large saddle-shaped markings across the back, the middle of these markings being much lighter than their edges, the whole back and sides marbled. No spots on the dorsal fin similar to those of *Blennius ocellatus*.

The roof of the *mouth* is furnished with acute longitudinal plaits of membrane, whose edges are set with soft, round papillæ. The upper and lower pharyngeals are armed with brush-like teeth, curved backwards, and the rakers of the branchial arches are round, sessile knobs, in two rows on each arch, also rough with minute teeth.

Lateral nostril on each side, forming a tubular projection close to the premaxillary: the mesial one is an open orifice like a pore. (See fig. 2.) There are many small mucous pores round the nostrils, and on the head and fore parts of the body, some of which are represented in the same figure. Eyes placed nearer to the end of the snout than to the gill-opening, and so high as to encroach on the profile of the face. Gill-opening a vertical lateral slit; the membrane of the throat being continuous with that of the belly without any transverse fold or flap of the branchiostegous membrane. A row of open pores marks the limbs of the mandible. (See fig. 3.) The rudimentary ventrals are attached to the os hyoides between the lower angles of the gill-openings.

The *lateral line*, composed of open pores, descends from the suprascapular region behind the pectoral, keeping while in the ventral region nearly in the middle of the height, but running lower from the anus backwards; it cannot be traced quite to the middle point between the anus and the tip of the tail.

There are no *scales*. To be certain on this point, I carefully skinned a specimen of which I purposed to prepare the skeleton, and having dried the skin on glass, examined it with the microscope, without discovering any trace of a scale. This character alone is sufficient to distinguish it from the three members of the genus made known by Professor Reinhardt. It may therefore prove to be the type of a distinct division of the genus to which the *Blennius polaris* of Sabine, should it hereafter be rediscovered, may be found to belong.

Fins.—The pectorals when fully spread out have a broadly ovate form, approaching to the orbicular: their rays are branched at the tips. Owing to the thickness of the rather

lax skin, the rays of none of the fins can be accurately enumerated, but the numbers given at the beginning of this article were taken from the skeleton of a larger specimen than the one we have figured. The vertical fins unite at the point of the tail without any break or depression, such as that which the dorsal of *Zoarces viviparus* exhibits posteriorly, and all the rays are articulated. They number in the aggregate 158, and the major part of the dorsal and anal ones are simple at the bottom and split at the tips, the divisions lying in close contact; towards the caudal the tips open a little, and the last rays are divided to the base; the caudal rays are smaller and more divided. The ten rays enumerated as caudal ones are those only which are attached to the two triangular interspinous bones, which do not terminate the spinal column evenly, but lie beneath its tip. Reinhardt describes the ventrals of his species as formed of four rays; but on a careful examination with the microscope I can detect only three torulose, jointed, tapering rays of equal length, with a minute cartilaginous support to the inner or anterior of the three. In preparing the skeleton, this part of the fish was unfortunately injured, but a dissection of one of the ventrals of the remaining specimen enabled me to ascertain its structure. When enveloped in the skin, the ventrals have considerable elasticity, and hence they may readily be confounded with spines.

Colour.—No memorandum was furnished to me of the tints of colour of the recent fish. The specimen that the figure was executed from was in a perfect condition, and does not appear as if any of its markings have been obliterated. It was probably put into spirits while yet alive, as its head was thrown back, as if it had died convulsed, and its body was covered by a thick layer of mucus. After twelve months' maceration in spirits the dark upper parts of the fish have a deep clove-brown colour, becoming almost black where it touches the white marks. The white extends over the lips, the under surface of the head, base of the pectoral, over the belly, and, with interruptions, along the base of much of the anal fin.