

## BWASP – Flight 28 – September 24 2008

Area flown: Block 12, completed two easternmost transects; Block 3, four westernmost transects; Block 11, two westernmost transects.

Total hours flown: 6.0

Total transect hours: 2.8

Number of bowheads seen: 46 (5 calves)

Weather and visibility: Survey conditions were very good with Beaufort 2 to 4 and good visibility with occasional snow showers. Low ceilings reduced visibility at times and truncated effort on the northern end of Block 11.

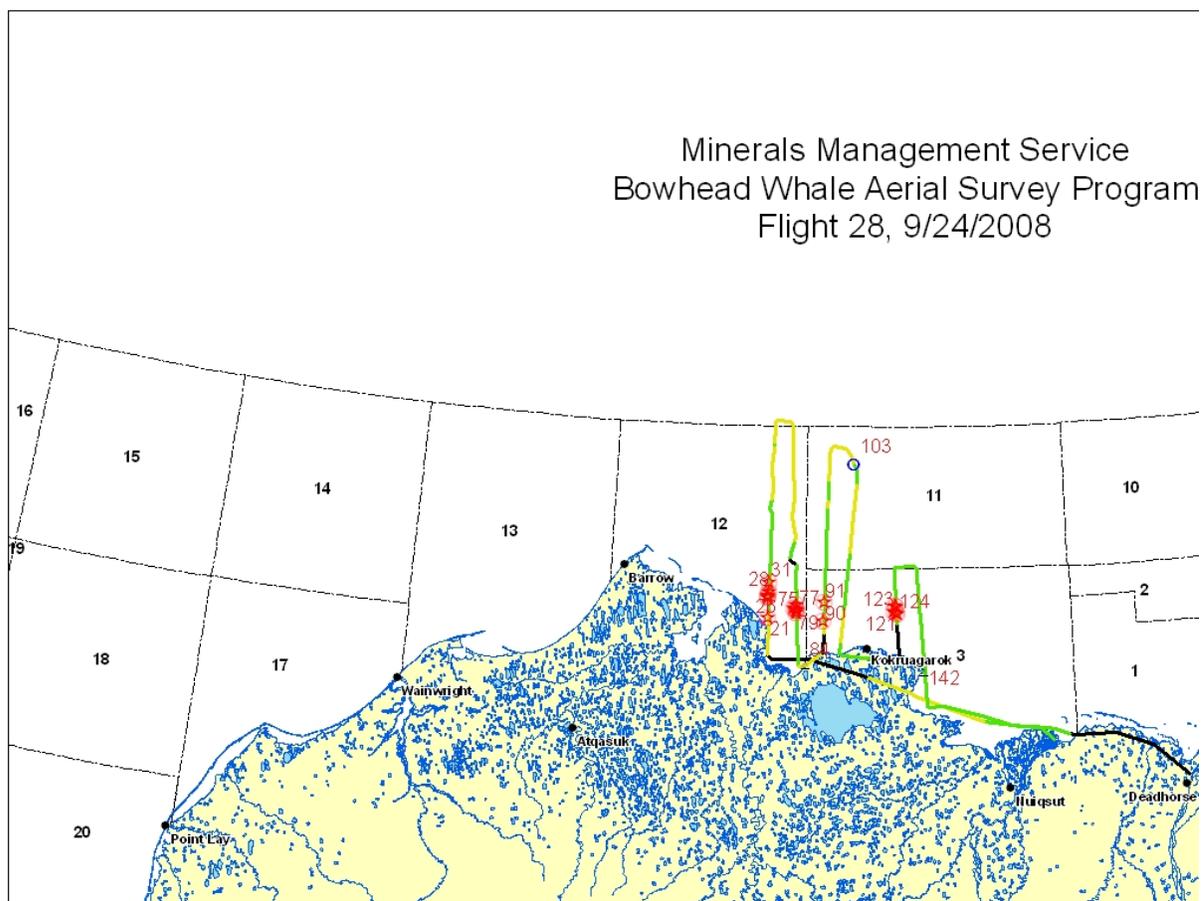
Sightings: Bowheads, one beluga, bearded seals, probable ringed seals and two polar bears on beaches. Surface feeding behavior by bowheads was observed.

### Bowhead Preliminary Summary, Flight 28 Date: 9/24/2008

Total bowheads: 46	Start time: 9/24/2008 1:30:45 PM	End time: 9/24/2008 7:10:50 PM
Bowhead sightings: 19	Transect minutes: 171	Transect km: 574.8
Bowheads on transect: 37	Connect minutes: 19	Connect km: 51.4
Bowhead calves: 5	Trans+Con minutes: 190	Trans+Con km: 626.2
Bowhead calves on transect: 4	Search minutes: 89	Search km: 197.7
Bowhead repeats: 0	Total minutes: 340	Total km: 1038.3
Possible repeats: 0	Deadhead minutes: 61	Deadhead km: 214.4
Total gray whales: 0	Search blocks: 3, 12, 0, 11	
Total belugas: 1	Transect blocks: 12, 0, 3, 11	
Other whale sightings: 0		
Total walrus: 0		
Total bear: 2		

Event	Lat	Long	Block	Species	Total	Repeat	Calves	Swim direction	Swim Speed	Behavior	On effort
21	71.05	-154.57	12	bowhead	1	.	0	268	slow	swim	True
24	71.15	-154.56	12	bowhead	2	no	1	60	fast	cow/calf	True
25	71.16	-154.56	12	bowhead	2	no	0	-1	slow	swim	True
26	71.17	-154.56	12	bowhead	12	no	2	-1	slow	cow/calf	True
28	71.19	-154.55	12	bowhead	2	.	1	-1	slow	cow/calf	False
31	71.23	-154.56	12	bowhead	1	no	0	270	slow	swim	True
70	71.12	-154.14	12	bowhead	2	.	0	-1	slow	swim	True
72	71.11	-154.18	12	bowhead	1	.	0	272	slow	swim	False
74	71.1	-154.14	12	bowhead	3	.	0	-1	unknown	mill	True
75	71.09	-154.13	12	bowhead	6	.	0	-1	slow	swim	True
77	71.1	-154.11	12	bowhead	4	.	0	-1	unknown	mill	False
79	71.08	-154.14	12	bowhead	1	.	0	116	slow	swim	True
90	71.05	-153.72	3	bowhead	1	.	0	-1	still	rest	True
91	71.14	-153.72	3	bowhead	1	.	0	271	medium	swim	True
126	71.11	-152.63	3	bowhead	1	.	0	267	slow	swim	True

127	71.12	-152.63	3	bowhead	2	.	1	268	slow	cow/calf	True
103	71.81	-153.27	11	beluga whale	1	.	0	281	medium	swim	False
121	71.09	-152.62	3	bowhead	2	.	0	-1	still	mill	True
123	71.09	-152.66	3	bowhead	1	.	0	-1	still	swim	False
124	71.08	-152.6	3	bowhead	1	.	0	-1	slow	swim	False



**Meteorological/Oceanographic Summary, Flight 28 Date: 9/24/2008**

Event	Lat	Long	Time	Type	% Ice	SeaState	Sky	Vis impeded left	Vis impeded right
1	70.24	-148.38	1:30:45 PM	no ice	0	n/a	overcast	0 km	0 km
2	70.4	-148.88	1:37:15 PM	no ice	0	n/a	overcast	0 km	0 km
3	70.47	-149.42	1:42:27 PM	no ice	0	n/a	overcast	0 km	0 km
4	70.46	-150.02	1:47:45 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
5	70.47	-150.09	1:48:24 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
6	70.47	-150.1	1:48:31 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km

7	70.48	-150.2	1:49:35 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
8	70.49	- 150.25	1:50:03 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
9	70.51	- 150.41	1:51:24 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	3-5 km	2-3 km
10	70.51	- 150.66	1:53:32 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	3-5 km	3-5 km
11	70.52	- 150.76	1:54:24 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
12	70.55	- 151.35	1:59:31 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
13	70.68	- 152.33	2:08:32 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
14	70.69	- 152.42	2:09:24 PM	no ice	0	n/a	overcast	0 km	0 km
15	70.77	- 153.09	2:15:20 PM	no ice	0	n/a	overcast	0 km	0 km
16	70.85	- 153.94	2:22:46 PM	no ice	0	n/a	overcast	0 km	0 km
17	70.85	- 154.51	2:27:44 PM	no ice	0	n/a	overcast	0 km	0 km
18	70.86	- 154.52	2:27:50 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
19	70.88	- 154.57	2:28:46 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
20	71.04	- 154.56	2:34:07 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	3-5 km
21	71.05	- 154.57	2:34:35 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	3-5 km	3-5 km
22	71.09	- 154.57	2:35:37 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	3-5 km
23	71.13	- 154.56	2:37:04 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
24	71.15	- 154.56	2:37:49 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
25	71.16	- 154.56	2:37:55 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
26	71.17	- 154.56	2:38:08 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
27	71.17	- 154.56	2:38:25 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
28	71.19	- 154.55	2:38:50 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
29	71.16	- 154.52	2:44:24 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
30	71.19	- 154.56	2:52:01 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
31	71.23	- 154.56	2:53:32 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
33	71.41	- 154.56	2:59:19 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
34	71.45	- 154.55	3:00:47 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	2-3 km
35	71.53	- 154.55	3:03:25 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	<1 km	<1 km
36	71.54	- 154.55	3:03:49 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	0 km	<1 km
37	71.56	- 154.55	3:04:29 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	0 km	<1 km
38	71.57	- 154.55	3:04:53 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	0 km	<1 km
39	71.59	- 154.59	3:05:43 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	<1 km	<1 km
40	71.64	- 154.56	3:07:18 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	<1 km	<1 km
41	71.64	- 154.56	3:07:21 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	2-3 km

42	71.7	- 154.54	3:09:18 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	3-5 km
43	71.8	- 154.56	3:12:34 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	5-10 km
44	71.88	- 154.54	3:15:10 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	3-5 km	<1 km
46	71.9	- 154.54	3:15:52 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	3-5 km	<1 km
47	71.92	- 154.54	3:16:14 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	2-3 km	<1 km
48	71.98	- 154.53	3:18:28 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	5-10 km
49	72.01	- 154.53	3:19:37 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	5-10 km
50	72.03	- 154.51	3:20:08 PM	no ice	0	B4 numerous caps, 11- 16 kt	partly cloudy	5-10 km	3-5 km
51	72.02	- 154.29	3:22:27 PM	no ice	0	B4 numerous caps, 11- 16 kt	partly cloudy	5-10 km	3-5 km
52	72	- 154.26	3:23:13 PM	no ice	0	B4 numerous caps, 11- 16 kt	partly cloudy	5-10 km	3-5 km
53	71.94	- 154.25	3:25:24 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	5-10 km
54	71.92	- 154.24	3:26:11 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	5-10 km
55	71.77	- 154.23	3:30:59 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	3-5 km
56	71.7	- 154.21	3:33:25 PM	no ice	0	B4 numerous caps, 11- 16 kt	partly cloudy	5-10 km	3-5 km
57	71.66	- 154.21	3:34:41 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	3-5 km
58	71.59	- 154.22	3:36:57 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	2-3 km	3-5 km
59	71.56	- 154.23	3:37:57 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	1-2 km	3-5 km
60	71.52	- 154.22	3:39:21 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	3-5 km	3-5 km
62	71.47	- 154.18	3:41:16 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	1-2 km	1-2 km
63	71.43	-154.2	3:42:25 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	<1 km
64	71.41	- 154.21	3:42:52 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	<1 km
65	71.4	- 154.24	3:43:22 PM	no ice	0	n/a	partly cloudy	0 km	0 km
66	71.34	- 154.26	3:45:09 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	5-10 km
67	71.32	- 154.15	3:46:27 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	2-3 km
68	71.27	- 154.16	3:48:05 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	3-5 km
69	71.14	- 154.15	3:52:28 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
70	71.12	- 154.14	3:52:50 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
71	71.11	- 154.14	3:53:24 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
72	71.11	- 154.18	3:54:14 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
73	71.11	- 154.14	3:58:25 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
74	71.1	- 154.14	3:58:38 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
75	71.09	- 154.13	3:58:55 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
76	71.09	- 154.13	3:59:01 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
77	71.1	- 154.11	4:01:39 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km

78	71.09	- 154.14	4:08:06 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
79	71.08	- 154.14	4:08:25 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
80	70.97	- 154.12	4:11:58 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
81	70.89	- 154.12	4:14:44 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
82	70.82	-154.1	4:17:03 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
83	70.82	- 154.08	4:17:21 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
84	70.83	- 153.99	4:18:28 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
85	70.83	- 153.99	4:20:17 PM	no ice	0	n/a	overcast	0 km	0 km
87	70.89	- 153.74	4:24:38 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
88	70.99	- 153.73	4:28:05 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
89	71.02	- 153.73	4:29:04 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
90	71.05	- 153.72	4:30:04 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
91	71.14	- 153.72	4:32:59 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
92	71.22	- 153.71	4:35:44 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
93	71.38	-153.7	4:41:08 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
94	71.61	- 153.68	4:48:28 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
95	71.64	- 153.68	4:49:44 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	3-5 km
96	71.74	- 153.67	4:52:56 PM	no ice	0	B4 numerous caps, 11- 16 kt	overcast	5-10 km	5-10 km
106	71.72	- 153.24	5:06:58 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	3-5 km	5-10 km
107	71.56	- 153.29	5:12:07 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
108	71.37	- 153.35	5:18:18 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
109	71.22	- 153.39	5:23:24 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	5-10 km	5-10 km
111	71.09	- 153.43	5:27:24 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
112	70.94	- 153.47	5:32:41 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
113	70.89	- 153.48	5:34:20 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
114	70.88	- 153.46	5:34:39 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
125	71.09	- 152.61	6:01:03 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
126	71.11	- 152.63	6:01:44 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
127	71.12	- 152.63	6:02:03 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
128	71.12	- 152.63	6:02:08 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
129	71.12	- 152.63	6:05:28 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
131	71.18	- 152.64	6:07:18 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
141	70.92	- 152.24	6:28:29 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
142	70.8	- 152.21	6:32:25 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km

143	70.8	- 152.22	6:32:25 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
144	70.79	- 152.21	6:34:41 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
145	70.63	- 152.18	6:39:56 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
146	70.62	- 152.15	6:40:26 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
147	70.63	- 151.94	6:43:06 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
97	71.79	- 153.67	4:54:40 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	5-10 km	5-10 km
98	71.86	- 153.66	4:56:59 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	2-3 km	2-3 km
99	71.9	- 153.63	4:58:08 PM	no ice	0	B3 scattered caps, 7-10 kt	overcast	2-3 km	2-3 km
100	71.9	-153.6	4:58:38 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	2-3 km	1-2 km
101	71.89	- 153.41	5:00:35 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	2-3 km	1-2 km
102	71.86	- 153.33	5:02:02 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	5-10 km
103	71.81	- 153.27	5:03:42 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	5-10 km
104	71.78	- 153.24	5:04:48 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	<1 km	5-10 km
105	71.78	- 153.23	5:04:57 PM	no ice	0	B3 scattered caps, 7-10 kt	partly cloudy	1-2 km	5-10 km
115	70.88	- 153.43	5:35:05 PM	no ice	0	n/a	partly cloudy	0 km	0 km
116	70.86	- 152.94	5:40:22 PM	no ice	0	n/a	partly cloudy	0 km	0 km
117	70.85	- 152.52	5:45:28 PM	no ice	0	n/a	partly cloudy	0 km	0 km
119	70.87	- 152.58	5:47:42 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
120	71.03	- 152.62	5:53:05 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
121	71.09	- 152.62	5:54:45 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
122	71.09	- 152.64	5:55:08 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
123	71.09	- 152.66	5:55:20 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
124	71.08	-152.6	5:59:37 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
132	71.22	- 152.65	6:08:37 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
133	71.3	- 152.66	6:11:10 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
134	71.31	- 152.65	6:11:31 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
135	71.32	- 152.36	6:15:04 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
136	71.3	- 152.32	6:15:48 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
137	71.27	- 152.32	6:16:39 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
138	71.12	- 152.28	6:21:44 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
139	71.1	- 152.27	6:22:22 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
140	71.07	- 152.27	6:23:23 PM	no ice	0	B2 sm waves, 4-6 kt	partly cloudy	5-10 km	5-10 km
152	70.57	- 151.38	6:49:17 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	5-10 km	5-10 km
153	70.53	- 150.94	6:54:08 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	1-2 km	5-10 km

154	70.52	- 150.78	6:57:06 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	1-2 km	1-2 km
155	70.51	- 150.52	7:02:17 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	1-2 km	1-2 km
156	70.45	- 150.33	7:04:49 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	1-2 km	1-2 km
157	70.45	- 150.33	7:10:50 PM	no ice	0	B2 sm waves, 4-6 kt	overcast	1-2 km	1-2 km