

ASAMM-Beaufort – Flight 30 – 14 September 2017

Area flown: Block 1, 6 complete transects; block 2, 5 partial transects; block 4, 1 complete transect; block 6, 1 partial transect. The easternmost transect in blocks 1 and 2 (transect ID 113) was surveyed twice in succession to investigate the variability in sightings during replicate surveys.

Total hours flown: 8.1 (2 flights)

Total transect hours: 3.1

Number of bowhead whales seen: 305 (32 calves)

Weather and visibility: Skies were partly cloudy to overcast. Sea state ranged from Beaufort 1 to 3. Visibility ranged from <1 km to unlimited, with fog and glare. There was no sea ice in the area surveyed.

Sightings: Bowhead whales, one unidentified cetacean, polar bears, bearded seals, small unidentified pinnipeds, and unidentified pinnipeds. During the first survey of transect 113, 63 bowhead whales (including 16 calves) were sighted. During the replicate survey of transect 113, 42 bowhead whales (including 6 calves) were sighted. It is unknown how many individual bowhead whales were sighted during both surveys of transect 113; therefore, the total number of bowhead whales presented here likely includes duplicate sightings. One polar bear was swimming approximately 5 km north of a barrier island in the eastern part of block 1. One polar bear was swimming approximately 10 km south of Cross Island. The remaining polar bears were resting on Cross Island and a nearby barrier island.

Preliminary Summary, Flight 30 Date: Thursday, September 14, 2017

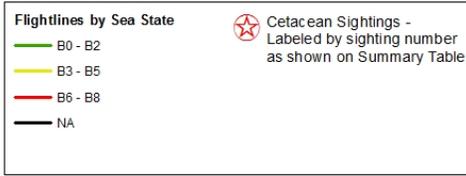
Total bowhead whales: 305	Start time: 9/14/2017 9:21:59 AM	End time: 9/14/2017 6:22:01 PM
Bowhead whale sightings: 152	Transect minutes: 187	Transect km: 684.3
Bowhead whales on transect: 157	Circling minutes: 193	Circling km: 558.4
Bowhead whale calves: 32	Trans+Circ minutes: 380	Trans+Circ km: 1242.7
Bowhead whale calves on transect: 13	Search minutes: 1	Search km: 4
Bowhead whale repeats: 0	Total minutes: 486	Total km: 1736.1
Possible repeats: 0	Deadhead minutes: 105	Deadhead km: 489.4
Total gray whales: 0	Search blocks: 1,2,4	
Total belugas: 0	Transect blocks: 1,2,4,6	
Other whale sightings: 1		
walrus: no		
Total polar bears: 32		

Cetacean Sightings:

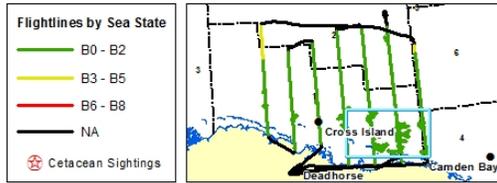
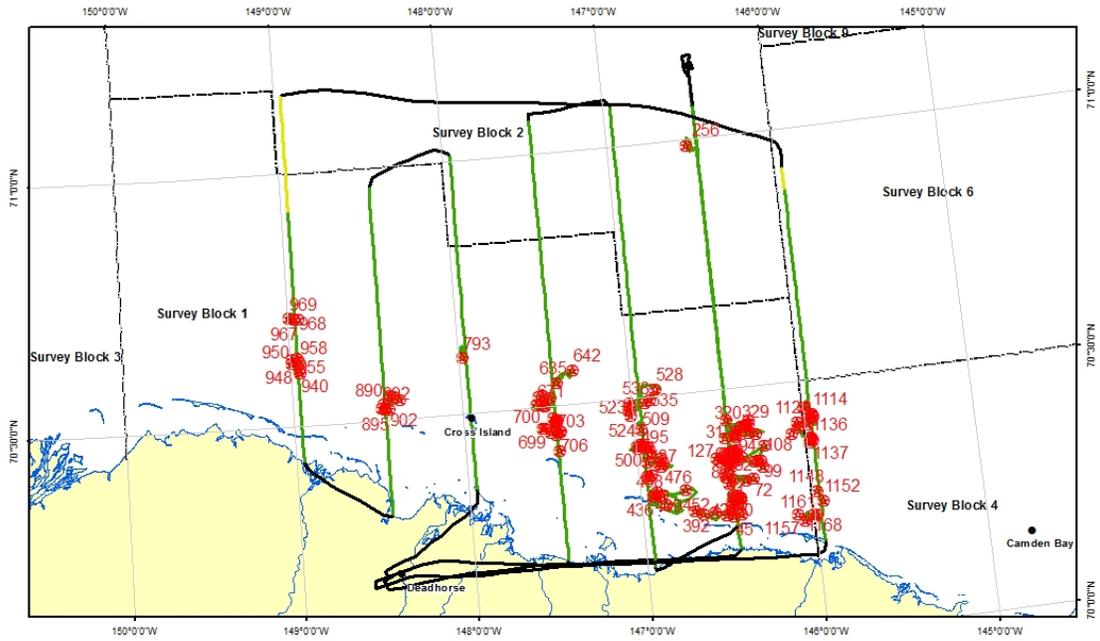
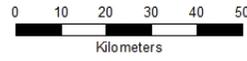
Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
40	70.26	-146.45	1	bowhead whale	1	0	rest	-1	True
42	70.27	-146.48	1	bowhead whale	1	0	rest	-1	False
45	70.25	-146.47	1	bowhead whale	1	0	feed	-1	False
50	70.29	-146.43	1	bowhead whale	1	0	rest	-1	False
51	70.28	-146.42	1	bowhead whale	1	0	rest	-1	False
52	70.28	-146.42	1	bowhead whale	1	0	rest	-1	False
55	70.27	-146.42	1	bowhead whale	2	0	rest	-1	False
56	70.27	-146.44	1	bowhead whale	1	0	unknown	-1	False
60	70.29	-146.45	1	bowhead whale	1	0	rest	-1	False
63	70.31	-146.45	1	bowhead whale	1	0	rest	-1	True
64	70.32	-146.45	1	bowhead whale	2	1	swim	88	True
72	70.32	-146.33	1	bowhead whale	2	0	swim	-1	False
78	70.32	-146.45	1	bowhead whale	1	0	swim	-1	False
81	70.33	-146.46	1	bowhead whale	3	0	mill	-1	True
84	70.33	-146.5	1	bowhead whale	1	0	feed	-1	False
88	70.36	-146.46	1	bowhead whale	2	1	swim	-1	False
89	70.35	-146.45	1	bowhead whale	1	0	rest	-1	False
90	70.34	-146.46	1	bowhead whale	3	0	rest	-1	False
92	70.36	-146.44	1	bowhead whale	1	0	swim	-1	False
94	70.36	-146.41	1	bowhead whale	2	1	rest	-1	False
99	70.34	-146.27	1	bowhead whale	2	2	play	-1	False
102	70.35	-146.27	1	bowhead whale	1	0	swim	-1	False
104	70.35	-146.29	1	bowhead whale	3	0	mill	-1	False

105	70.35	-146.31	1	bowhead whale	1	0	rest	-1	False
108	70.38	-146.25	1	bowhead whale	5	1	mill	-1	False
118	70.36	-146.46	1	bowhead whale	2	1	rest	-1	True
119	70.37	-146.46	1	bowhead whale	1	0	breach	-1	True
123	70.37	-146.48	1	bowhead whale	1	0	rest	-1	False
127	70.37	-146.54	1	bowhead whale	1	0	rest	-1	False
128	70.36	-146.52	1	bowhead whale	1	1	rest	-1	False
132	70.37	-146.45	1	bowhead whale	2	1	swim	-1	True
134	70.38	-146.42	1	bowhead whale	1	0	breach	-1	False
138	70.37	-146.43	1	bowhead whale	1	1	feed	-1	False
145	70.4	-146.46	1	bowhead whale	1	1	swim	91	True
146	70.41	-146.46	1	bowhead whale	4	2	mill	-1	True
150	70.4	-146.41	1	bowhead whale	1	0	rest	-1	False
152	70.41	-146.4	1	bowhead whale	1	0	rest	-1	False
155	70.41	-146.29	1	bowhead whale	2	1	rest	-1	False
164	70.42	-146.45	1	bowhead whale	2	1	swim	-1	True
178	70.44	-146.45	1	bowhead whale	1	1	swim	92	True
256	70.99	-146.45	2	unid cetacean	1	0	unknown	-1	True
312	70.41	-146.45	1	bowhead whale	1	0	rest	-1	True
320	70.42	-146.36	1	bowhead whale	1	0	rest	-1	False
322	70.43	-146.34	1	bowhead whale	1	1	rest	-1	False
323	70.43	-146.33	1	bowhead whale	1	0	rest	-1	False
324	70.43	-146.32	1	bowhead whale	1	0	rest	-1	False
326	70.42	-146.34	1	bowhead whale	1	0	rest	-1	False
329	70.42	-146.37	1	bowhead whale	2	1	swim	-1	False
336	70.38	-146.45	1	bowhead whale	2	1	rest	-1	True
337	70.37	-146.45	1	bowhead whale	2	1	rest	-1	True
338	70.37	-146.45	1	bowhead whale	1	0	rest	-1	True
340	70.36	-146.43	1	bowhead whale	1	0	rest	-1	False
344	70.36	-146.39	1	bowhead whale	1	0	rest	-1	False
346	70.37	-146.43	1	bowhead whale	3	0	rest	-1	False
348	70.38	-146.43	1	bowhead whale	1	0	rest	-1	False
349	70.38	-146.45	1	bowhead whale	2	1	rest	-1	False
351	70.36	-146.44	1	bowhead whale	3	1	rest	-1	False
352	70.37	-146.47	1	bowhead whale	1	0	swim	-1	False
353	70.37	-146.47	1	bowhead whale	2	0	rest	-1	False
363	70.28	-146.45	1	bowhead whale	1	0	rest	-1	False
369	70.28	-146.45	1	bowhead whale	1	0	swim	22	True
375	70.25	-146.45	1	bowhead whale	1	0	rest	-1	True
380	70.25	-146.51	1	bowhead whale	2	0	feed	-1	False
384	70.26	-146.57	1	bowhead whale	4	0	rest	-1	False
389	70.26	-146.64	1	bowhead whale	2	0	feed	-1	False
392	70.27	-146.69	1	bowhead whale	4	0	feed	-1	False
420	70.28	-146.96	1	bowhead whale	30	0	feed	-1	True
434	70.3	-146.95	1	bowhead whale	16	0	feed	-1	True
435	70.3	-146.95	1	bowhead whale	16	1	feed	-1	True
436	70.3	-146.95	1	bowhead whale	14	0	feed	-1	True
439	70.31	-146.9	1	bowhead whale	1	0	feed	-1	False
452	70.31	-146.73	1	bowhead whale	3	0	feed	-1	False
459	70.34	-146.95	1	bowhead whale	2	0	rest	-1	True
460	70.34	-146.95	1	bowhead whale	1	0	rest	-1	True
465	70.35	-146.92	1	bowhead whale	1	0	swim	-1	False
468	70.36	-146.95	1	bowhead whale	4	0	swim	-1	True
470	70.37	-146.94	1	bowhead whale	1	0	rest	-1	False
472	70.37	-146.87	1	bowhead whale	2	0	rest	-1	False
476	70.37	-146.85	1	bowhead whale	1	0	rest	-1	False
478	70.38	-146.85	1	bowhead whale	3	0	mill	-1	False
484	70.39	-146.96	1	bowhead whale	6	0	feed	-1	True
486	70.4	-146.94	1	bowhead whale	2	0	feed	-1	False
487	70.4	-146.92	1	bowhead whale	1	0	feed	-1	False
492	70.4	-146.96	1	bowhead whale	1	0	swim	-1	True
493	70.41	-146.96	1	bowhead whale	2	0	swim	-1	True
495	70.41	-146.97	1	bowhead whale	1	0	swim	-1	False
500	70.41	-146.99	1	bowhead whale	1	0	swim	-1	False
509	70.44	-146.95	1	bowhead whale	1	0	swim	270	True
517	70.49	-146.95	1	bowhead whale	1	0	swim	-1	True
521	70.48	-147.01	1	bowhead whale	1	0	swim	-1	False
523	70.48	-147.02	1	bowhead whale	1	0	swim	-1	False
524	70.47	-147.01	1	bowhead whale	2	1	rest	-1	False
528	70.51	-146.95	1	bowhead whale	4	0	swim	-1	True
535	70.49	-146.89	1	bowhead whale	1	0	rest	-1	False
538	70.49	-146.92	1	bowhead whale	2	1	rest	-1	False
635	70.55	-147.45	1	bowhead whale	1	0	swim	270	True

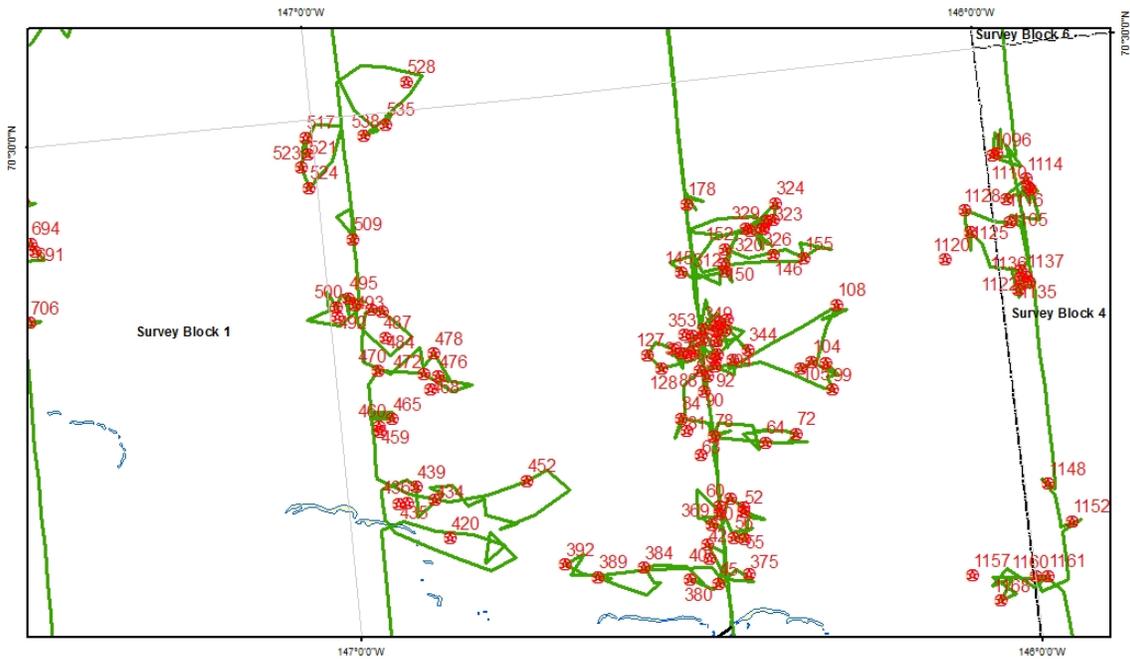
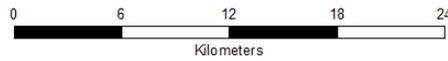
642	70.57	-147.33	1	bowhead whale	2	1	rest	-1	False
648	70.52	-147.46	1	bowhead whale	1	0	unknown	-1	True
652	70.52	-147.54	1	bowhead whale	2	0	feed	-1	False
655	70.52	-147.47	1	bowhead whale	1	0	swim	-1	False
663	70.5	-147.46	1	bowhead whale	2	0	feed	-1	True
666	70.5	-147.51	1	bowhead whale	1	0	feed	-1	False
671	70.51	-147.56	1	bowhead whale	1	0	feed	-1	False
678	70.47	-147.45	1	bowhead whale	1	0	feed	-1	True
682	70.47	-147.46	1	bowhead whale	1	0	feed	-1	False
683	70.47	-147.46	1	bowhead whale	1	0	swim	-1	False
686	70.48	-147.47	1	bowhead whale	1	0	swim	-1	False
687	70.47	-147.45	1	bowhead whale	2	0	feed	-1	False
691	70.45	-147.45	1	bowhead whale	1	0	feed	-1	True
694	70.45	-147.43	1	bowhead whale	1	0	swim	-1	False
696	70.45	-147.49	1	bowhead whale	3	0	feed	-1	False
699	70.46	-147.52	1	bowhead whale	1	0	rest	-1	False
700	70.46	-147.54	1	bowhead whale	1	0	feed	-1	False
703	70.44	-147.46	1	bowhead whale	1	0	swim	-1	False
706	70.41	-147.46	1	bowhead whale	1	0	rest	-1	True
793	70.61	-147.95	1	bowhead whale	1	0	swim	274	True
879	70.55	-148.45	1	bowhead whale	1	0	rest	-1	True
882	70.54	-148.4	1	bowhead whale	1	0	rest	-1	False
886	70.54	-148.36	1	bowhead whale	1	0	rest	-1	False
890	70.53	-148.46	1	bowhead whale	1	0	rest	-1	True
892	70.52	-148.47	1	bowhead whale	1	0	rest	-1	False
895	70.52	-148.45	1	bowhead whale	3	0	feed	-1	False
902	70.52	-148.43	1	bowhead whale	1	0	feed	-1	False
940	70.6	-148.96	1	bowhead whale	1	0	swim	332	True
942	70.61	-148.95	1	bowhead whale	1	0	rest	-1	False
948	70.62	-148.96	1	bowhead whale	1	0	rest	-1	True
950	70.63	-148.99	1	bowhead whale	1	0	rest	-1	False
955	70.63	-148.96	1	bowhead whale	1	0	swim	181	True
958	70.63	-148.95	1	bowhead whale	1	0	rest	-1	False
967	70.71	-148.96	1	bowhead whale	1	0	swim	270	True
968	70.71	-148.96	1	bowhead whale	1	0	swim	270	True
969	70.71	-148.96	1	bowhead whale	1	0	swim	-1	True
1093	70.45	-145.96	4	bowhead whale	2	1	rest	-1	True
1096	70.45	-145.99	4	bowhead whale	1	1	rest	-1	False
1105	70.41	-145.96	4	bowhead whale	2	1	rest	-1	True
1109	70.43	-145.94	4	bowhead whale	3	2	mill	-1	False
1110	70.43	-145.94	4	bowhead whale	1	0	rest	-1	False
1114	70.43	-145.95	4	bowhead whale	1	0	swim	-1	False
1116	70.42	-145.98	4	bowhead whale	1	0	swim	-1	False
1120	70.4	-145.96	1	bowhead whale	2	0	swim	-1	True
1122	70.39	-145.97	4	bowhead whale	1	0	swim	-1	False
1125	70.41	-146.04	1	bowhead whale	1	0	rest	-1	False
1128	70.42	-146.04	1	bowhead whale	1	0	swim	-1	False
1133	70.38	-145.96	4	bowhead whale	1	0	rest	-1	True
1135	70.38	-145.98	4	bowhead whale	2	1	rest	-1	False
1136	70.38	-145.97	4	bowhead whale	2	0	rest	-1	False
1137	70.38	-145.96	4	bowhead whale	1	0	rest	-1	False
1148	70.28	-145.96	4	bowhead whale	1	0	feed	-1	True
1152	70.26	-145.95	4	bowhead whale	1	0	feed	-1	True
1157	70.23	-145.95	1	bowhead whale	6	0	feed	-1	True
1160	70.23	-146	4	bowhead whale	1	0	feed	-1	False
1161	70.23	-145.98	4	bowhead whale	1	0	feed	-1	False
1168	70.22	-146.06	1	bowhead whale	1	0	rest	-1	False

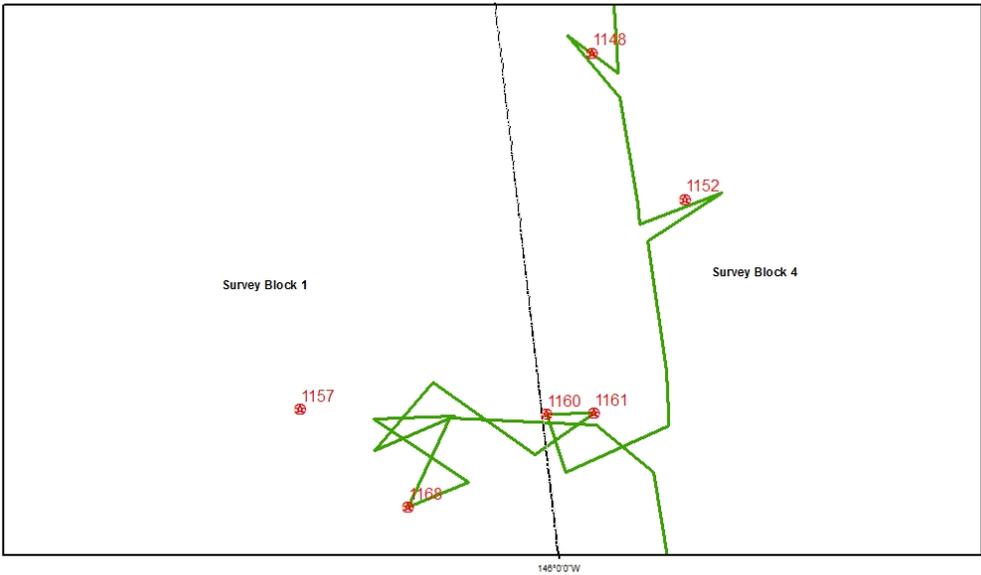
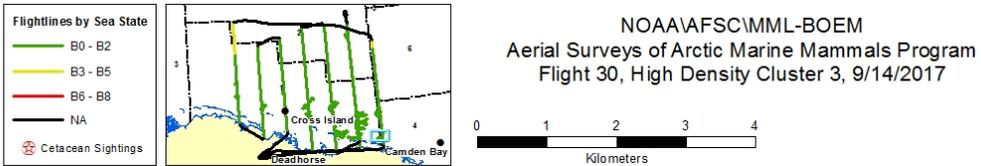
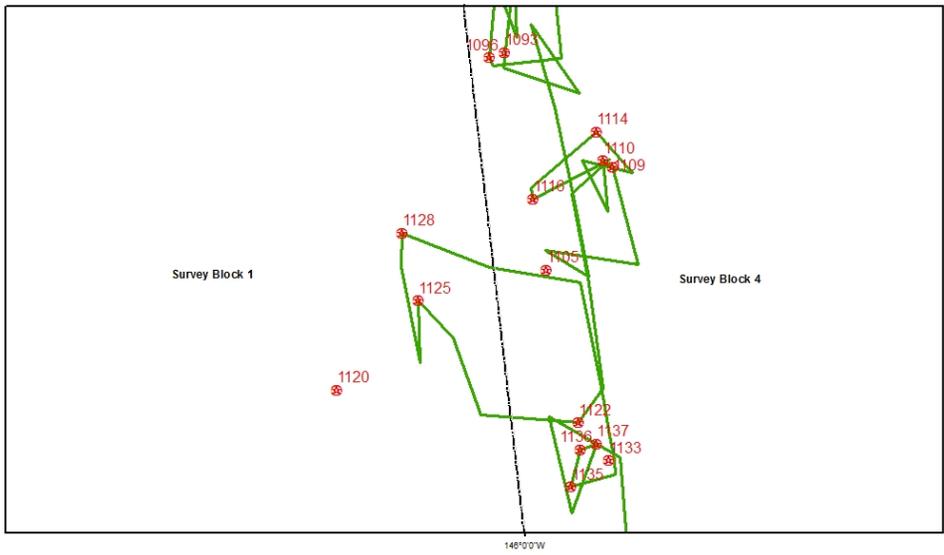
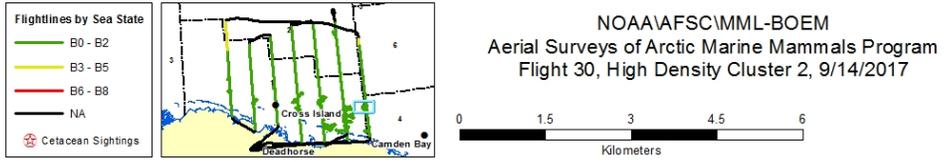


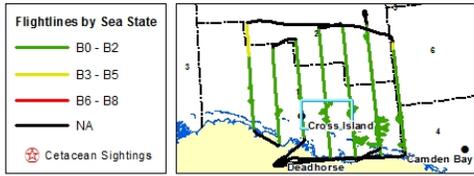
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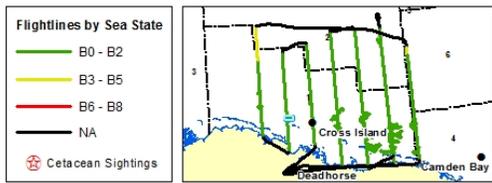
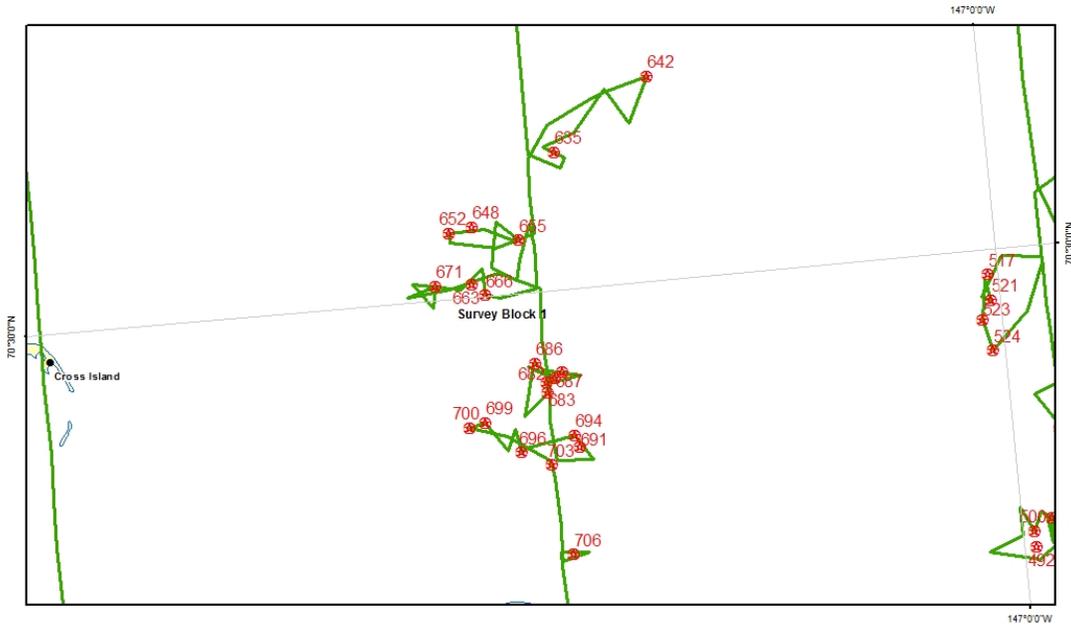
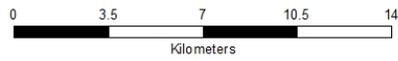
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Flight 30, High Density Cluster 1, 9/14/2017



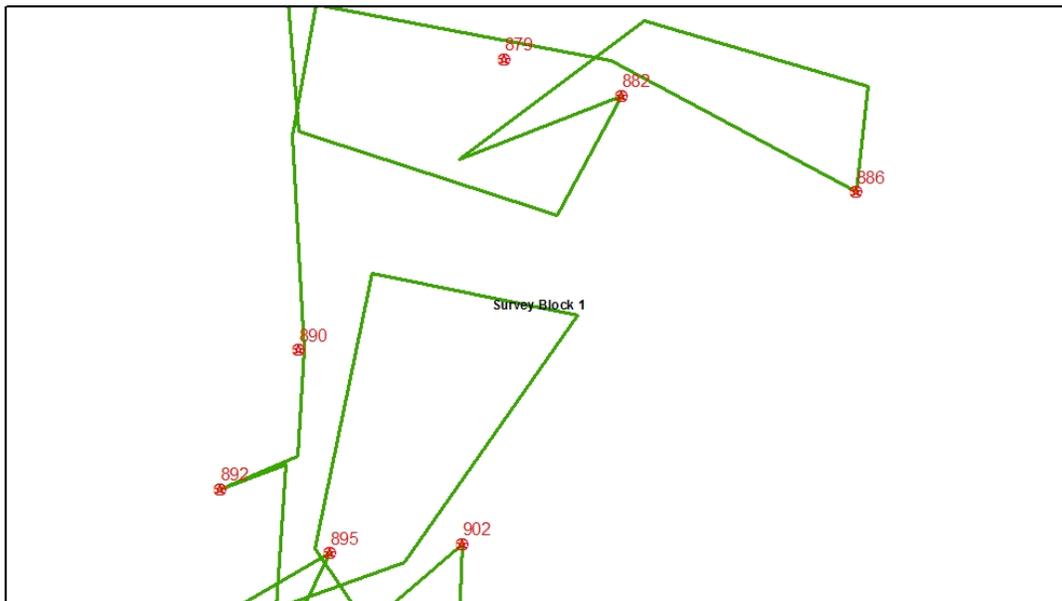
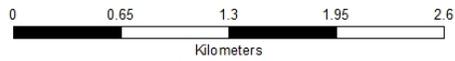


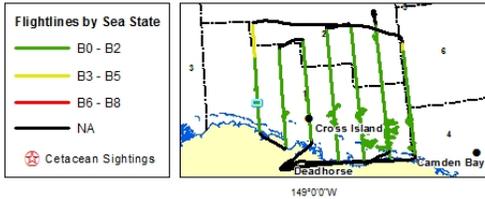


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Flight 30, High Density Cluster 4, 9/14/2017

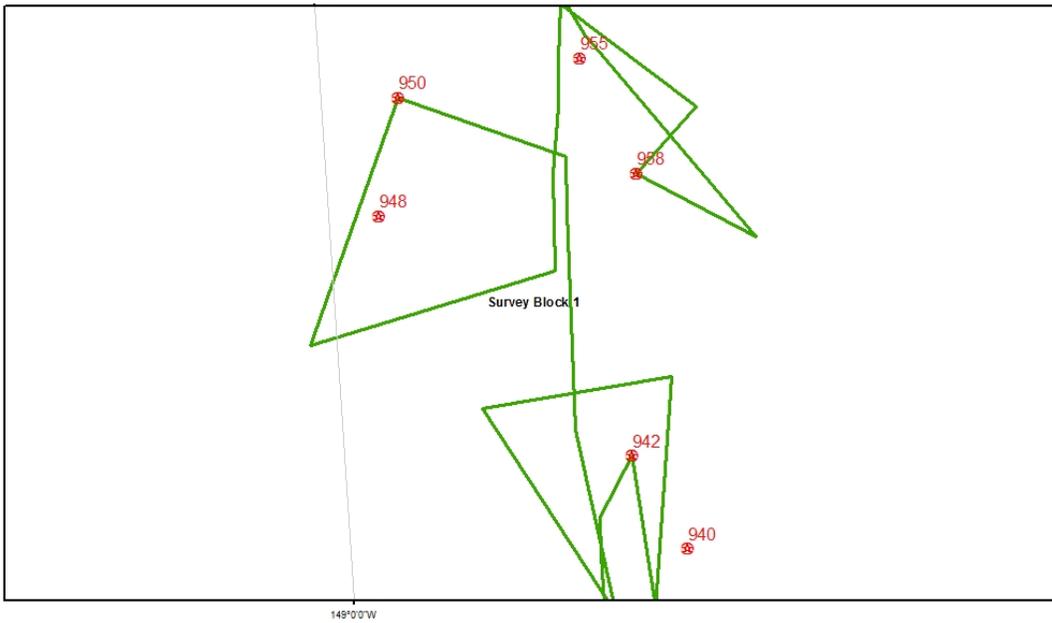
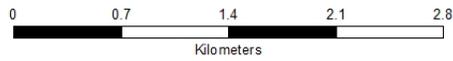


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 Aerial Surveys of Arctic Marine Mammals Program
 Flight 30, High Density Cluster 6, 9/14/2017



Lisa Barry
 NOAA/NMFS/AFSC/MML
 NMFS Permit No. 20465
 Funded by BOEM (IA Contract No. M17PG00031)

Bowhead whale cow and calf (Event 329) sighted during ASAMM-Beaufort Flight 30, 14 September 2017.