ASAMM-Beaufort – Flight 9 – 4 August 2013

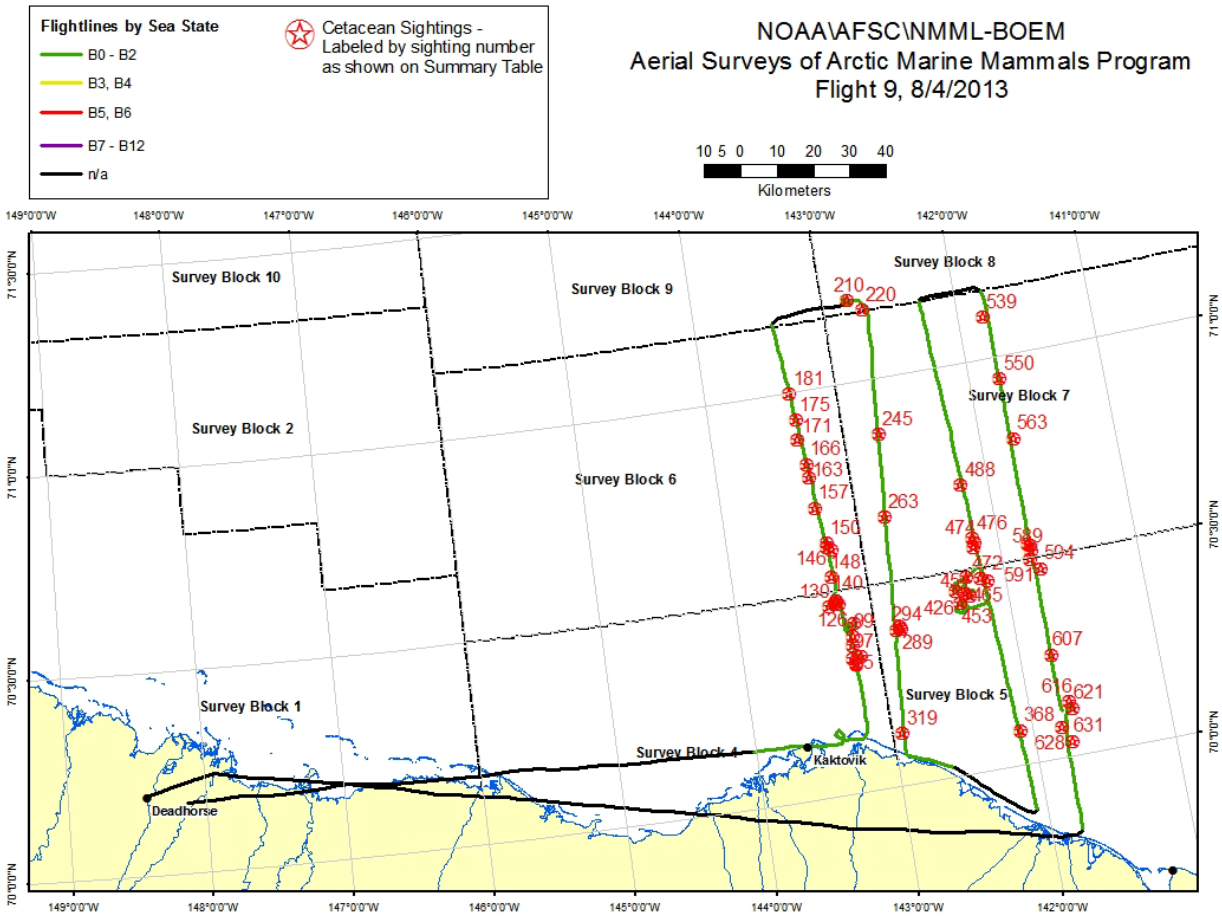
Area flown: Blocks 4 and 6, 1 complete transect; blocks 5 and 7, 3 complete transects
Total hours flown: 4.7
Total transect hours: 2.4
Number of bowheads seen: 38 (2 calves)
Weather and visibility: Skies were partly cloudy to overcast. Sea state ranged from Beaufort 0-2. Visibility ranged from 3 to 10 km, with glare. Sea ice cover ranged from 0-80% broken floe ice in the area surveyed.
Sightings: Bowhead whales, belugas (including 10 calves), bearded seals, small unidentified pinnipeds and polar bears. Both polar bears were seen approximately 90 km from land, in a region of 75% ice cover.

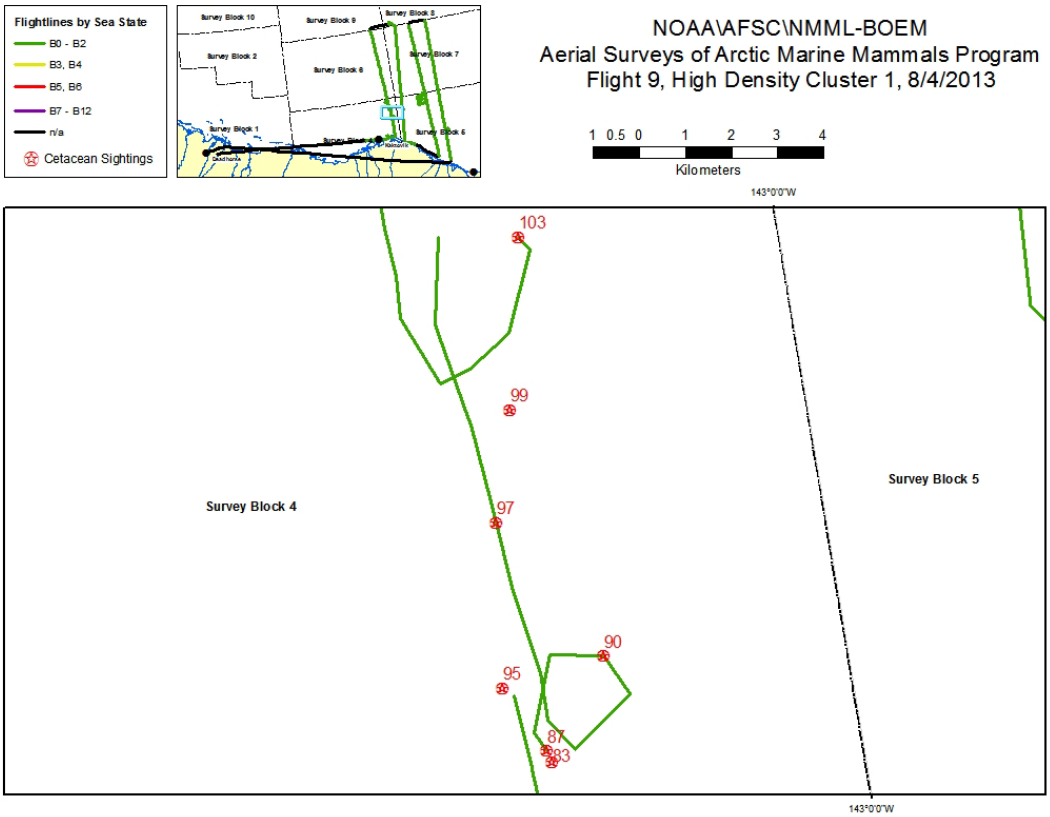
Preliminary Summary, Flight 9 Date: 8/4/2013

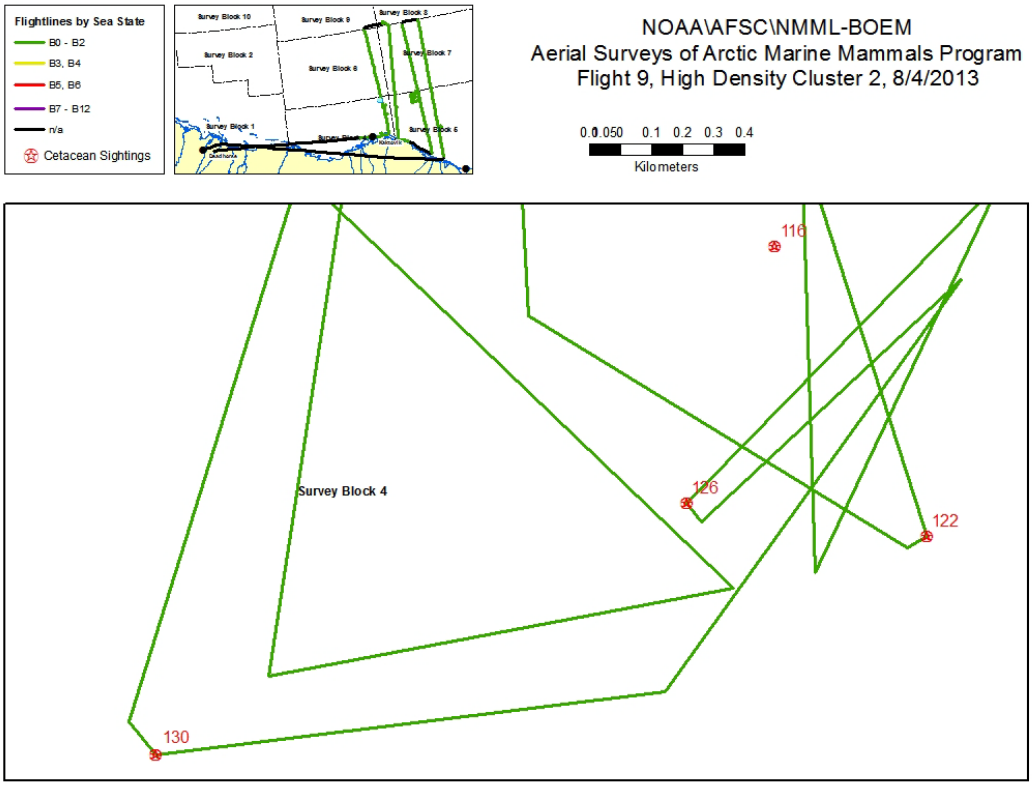
Total bowhead whales: 38	Start time: 8/4/2013 4:51:03 PM	End time: 8/4/2013 9:33:57 PM
Bowhead whale sightings: 27	Transect minutes: 142	Transect km:525.6
Bowhead whales on transect: 17	Circling minutes: 41	Circling km: 140.6
Bowhead whale cow-calf pairs: 2	Trans+Circ minutes: 183	Trans+Circ km: 666.2
Bowhead whale cow-calf pairs on transect: 1	Search minutes: 16	Search km: 78.5
Bowhead whale repeats: 0	Total minutes: 282	Total km: 1226.2
Possible repeats: 1	Deadhead minutes: 83	Deadhead km: 481.5
Total gray whales: 0	Search blocks: 4, 9, 8, 5, 7	
Total belugas: 65	Transect blocks: 4, 0, 6, 7, 5	
Other whale sightings: 2		
Total walrus: 0		
Total polar bears: 2		

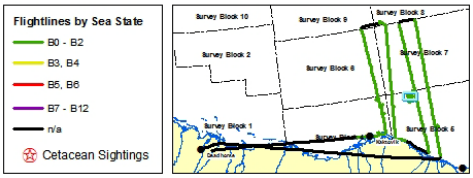
Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
83	70.31	-143.19	4	bowhead whale	1	0	rest	178	True
87	70.32	-143.18	4	bowhead whale	1	0	swim	-1	False
90	70.33	-143.14	4	bowhead whale	1	0	swim	-1	False
95	70.33	-143.18	4	bowhead whale	1	0	swim	49	True
97	70.36	-143.19	4	bowhead whale	2	0	swim	56	True
99	70.38	-143.19	4	bowhead whale	2	0	swim	170	True
103	70.42	-143.15	4	bowhead whale	1	0	swim	-1	False
116	70.48	-143.23	4	bowhead whale	2	1	mill	-1	True
122	70.47	-143.24	4	bowhead whale	1	0	swim	245	False
126	70.47	-143.26	4	bowhead whale	3	0	swim	-1	False
130	70.47	-143.31	4	beluga	1	0	swim	-1	False
140	70.54	-143.24	6	bowhead whale	2	0	swim	56	True
146	70.6	-143.25	6	beluga	3	0	swim	176	True
148	70.61	-143.26	6	beluga	7	0	swim	85	False
150	70.62	-143.26	6	beluga	2	0	swim	82	True
157	70.71	-143.29	6	beluga	2	0	swim	143	True
163	70.79	-143.29	6	beluga	1	0	swim	296	True
166	70.82	-143.31	6	beluga	1	0	swim	351	True
171	70.88	-143.33	6	beluga	10	1	swim	294	True
175	70.93	-143.34	6	beluga	2	1	swim	352	True
181	71	-143.35	6	beluga	2	1	swim	-1	True
210	71.19	-142.81	8	bowhead whale	1	0	swim	273	False
220	71.17	-142.67	8	beluga	1	0	swim	163	False
245	70.86	-142.75	7	beluga	1	0	swim	335	True
263	70.66	-142.8	7	beluga	3	1	swim	306	True
286	70.39	-142.86	5	bowhead whale	1	0	tail slap	-1	True
289	70.38	-142.82	5	bowhead whale	1	0	swim	-1	False
294	70.38	-142.85	5	bowhead whale	1	0	swim	-1	False
319	70.13	-142.92	5	small unid marine mammal	1	0	rest	-1	True

368	70.09	-142.1	5	beluga	10	3	swim	117	True
405	70.46	-142.16	5	bowhead whale	1	0	swim	268	True
408	70.48	-142.16	5	bowhead whale	1	0	swim	-1	True
426	70.45	-142.37	5	bowhead whale	1	1	swim	-1	False
445	70.44	-142.31	5	bowhead whale	1	0	swim	-1	False
451	70.43	-142.28	5	bowhead whale	1	0	swim	244	False
453	70.42	-142.36	5	bowhead whale	6	0	swim	-1	False
465	70.47	-142.16	5	bowhead whale	1	0	swim	276	False
472	70.55	-142.17	7	beluga	1	0	swim	59	True
474	70.56	-142.17	7	beluga	1	0	swim	270	True
476	70.57	-142.17	7	beluga	2	0	swim	268	True
488	70.71	-142.19	7	beluga	3	1	swim	268	True
539	71.1	-141.78	7	beluga	1	0	swim	266	True
550	70.95	-141.78	7	beluga	2	1	mill	-1	True
563	70.79	-141.78	7	beluga	1	0	swim	271	True
586	70.53	-141.78	7	beluga	1	0	swim	358	True
587	70.53	-141.78	7	beluga	1	0	swim	29	True
589	70.51	-141.78	7	beluga	5	1	swim	357	True
591	70.5	-141.78	5	beluga	1	0	swim	300	True
594	70.47	-141.78	5	unid cetacean	1	0	swim	-1	True
607	70.26	-141.78	5	bowhead whale	1	0	swim	271	True
616	70.13	-141.78	5	bowhead whale	1	0	swim	179	True
621	70.12	-141.69	5	bowhead whale	1	0	swim	-1	False
628	70.08	-141.76	5	bowhead whale	1	0	breach	-1	True
631	70.04	-141.77	5	bowhead whale	1	0	unknown	-1	True



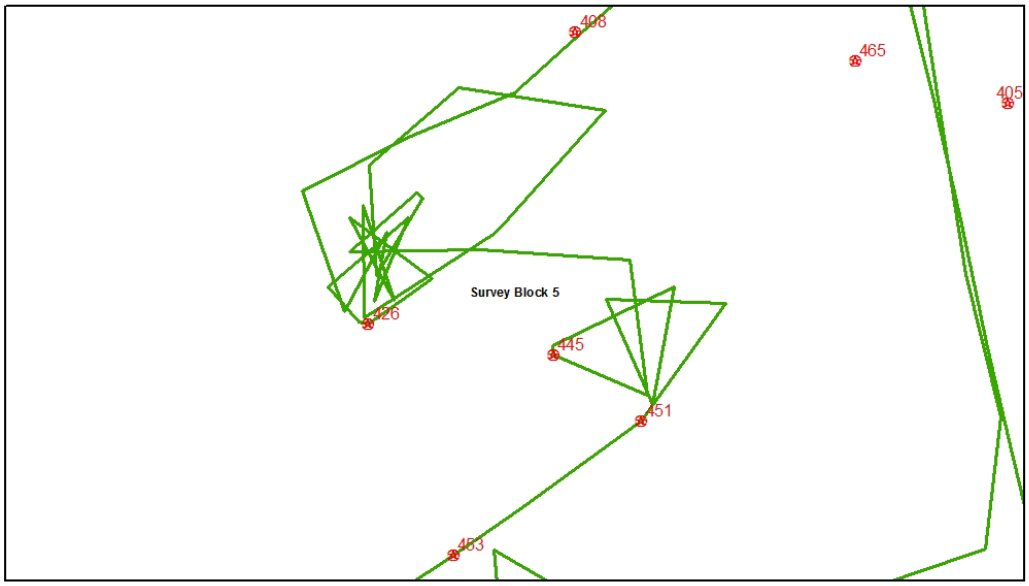

Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
n/a
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 9, High Density Cluster 1, 8/4/2013
1 0.5 0 1 2 3 4
Kilometers
143°0'0"W
103
99
97
90
95
87
83
Survey Block 4
Survey Block 5
143°0'0"W

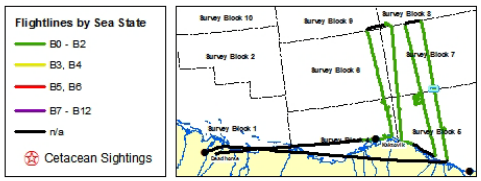

Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
n/a
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 9, High Density Cluster 2, 8/4/2013
0.0 0.050 0.1 0.2 0.3 0.4
Kilometers
116
126
122
130
Survey Block 4



NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 9, High Density Cluster 3, 8/4/2013

0.4 0.20 0.4 0.8 1.2 1.6
Kilometers





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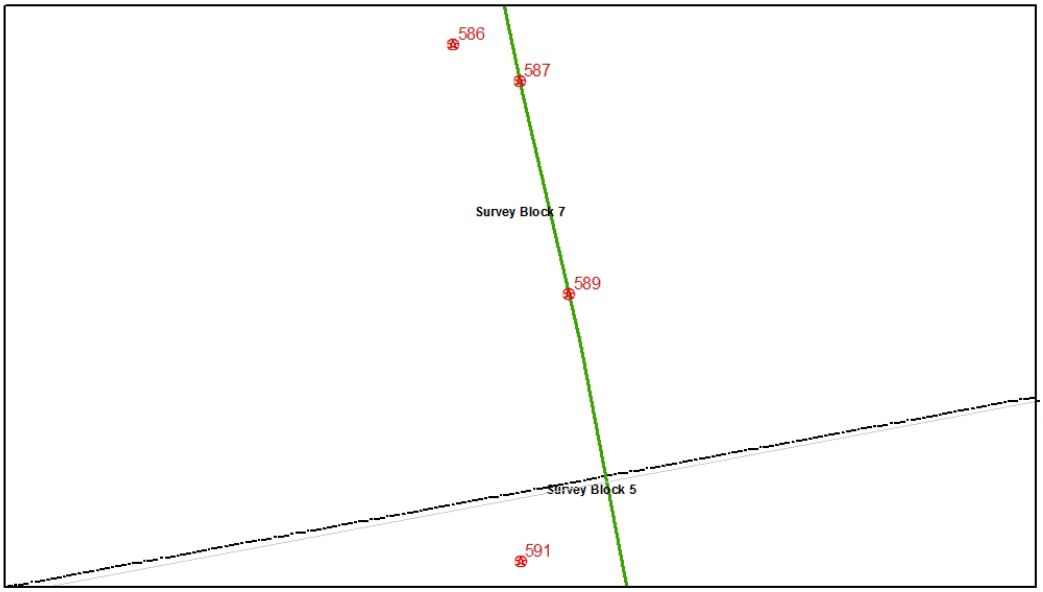
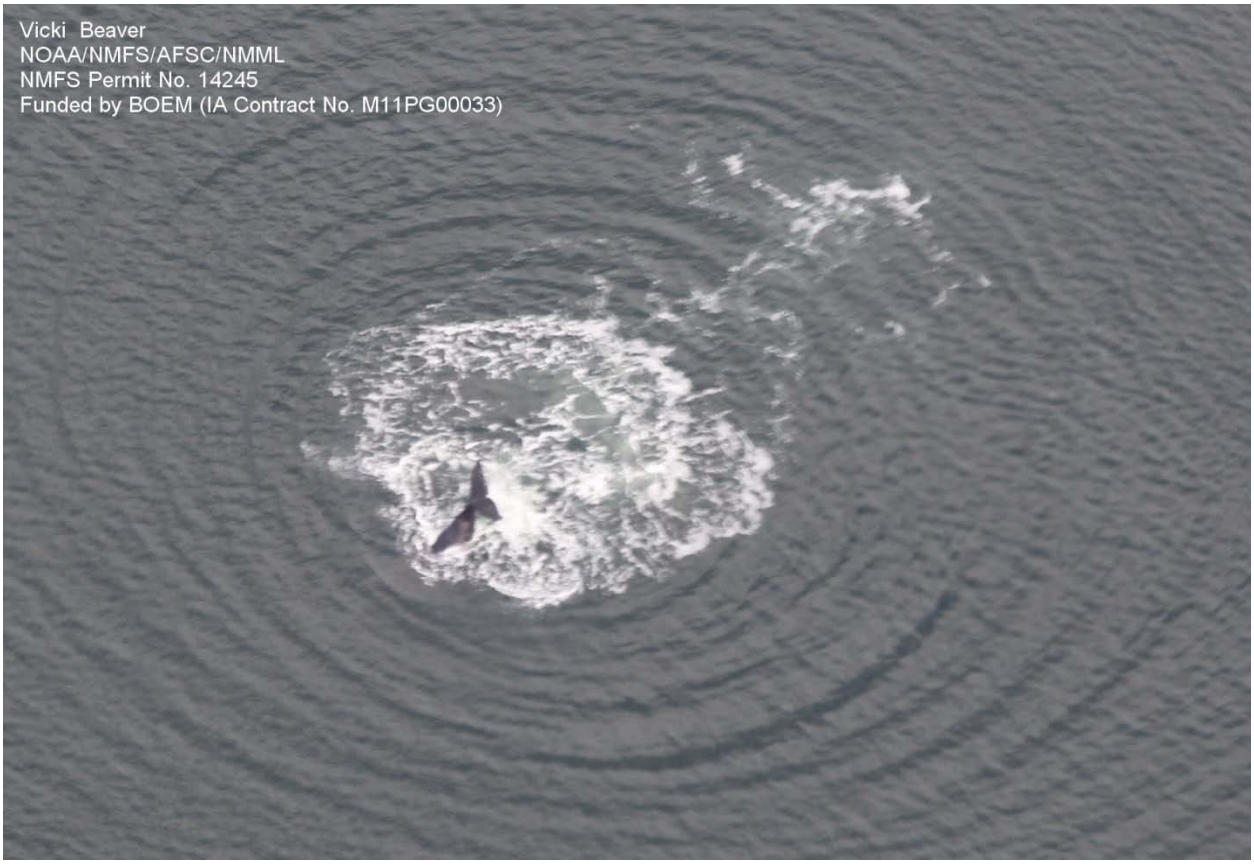
Aerial Surveys of Arctic Marine Mammals Program
Flight 9, High Density Cluster 4, 8/4/2013

0.0125 0.0250 0.25 0.5 0.75 1
Kilometers





Bowhead whale tail-slapping in the western Beaufort Sea northeast of Kaktovik (event 286), ASAMM-Beaufort Flight 9, 4 August 2013.