ASAMM-Beaufort – Flight 8 – 30 July 2016

Area flown: Blocks 4 and 6, two complete transects; block 5, four complete transects; block 7, three complete transects and one partial transect; block 8, four partial transects; block 9, two partial transects. Transects extended into blocks 8 and 9, which were included this year to incorporate survey effort specific to the Eastern Chukchi Sea beluga stock.
Total hours flown: 9.0 (2 flights)
Total transect hours: 4.7
Number of bowhead whales seen: 17 (4 calves)
Weather and visibility: Skies were clear to overcast. Sea state ranged from Beaufort 1-6. Visibility ranged from 0 km to unlimited, with low ceilings, fog, precipitation, glare, and haze.
Sea ice ranged from 0 to 77 percent broken floe ice in the area surveyed.
Sightings: Bowhead whales, belugas (including 21 calves), one unidentified cetacean, and small unidentified pinnipeds.

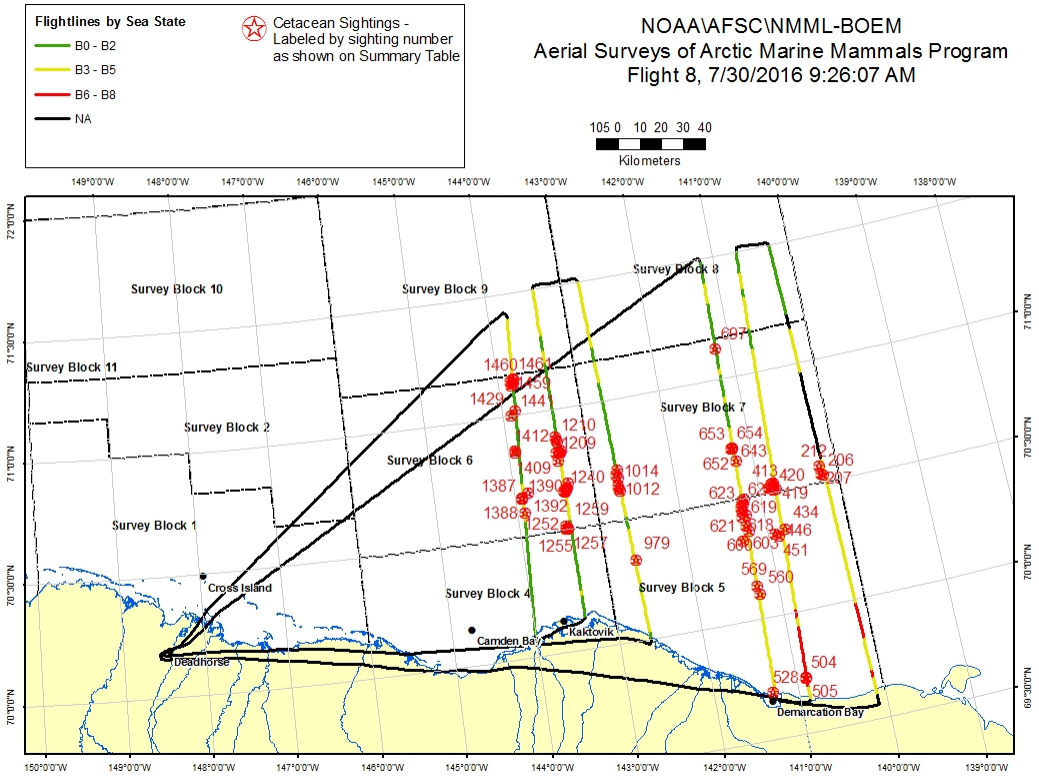
Preliminary Summary, Flight 8 Date: 7/30/2016

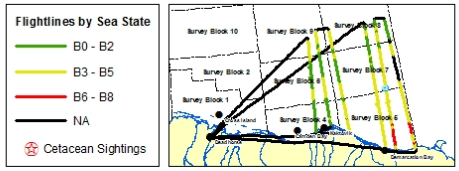
Total bowhead whales: 17	Start time: 7/30/2016 9:31:09 AM	End time: 7/30/2016 7:31:15 PM
Bowhead whale sightings: 13	Transect minutes: 281	Transect km:1037.9
Bowhead whales on transect: 11	Circling minutes: 29	Circling km: 86.6
Bowhead whale cow-calf pairs: 4	Trans+Circ minutes: 310	Trans+Circ km: 1124.5
Bowhead whale cow-calf pairs on transect: 2	Search minutes: 1	Search km: 3.5
Bowhead whale repeats: 0	Total minutes: 541	Total km: 2365.4
Possible repeats: 0	Deadhead minutes: 230	Deadhead km: 1237.4
Total gray whales: 0	Search blocks: 7, 8, 5, 4, 9	
Total belugas: 162	Transect blocks: 5, 7, 8, 9, 6, 4	
Other whale sightings: 1		
Walruses: No		
Total polar bears: 0		

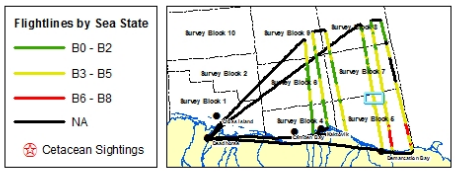
Cetacean Sightings:

Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
206	70.53	-140.17	7	beluga	1	0	swim	268	True
207	70.53	-140.17	7	beluga	1	0	swim	267	True
212	70.57	-140.17	7	beluga	1	0	swim	269	True
409	70.54	-140.8	7	beluga	2	0	swim	272	True
410	70.53	-140.8	7	beluga	1	0	swim	-1	True
411	70.53	-140.8	7	beluga	2	0	swim	272	True
413	70.53	-140.8	7	beluga	1	0	swim	272	True
414	70.52	-140.8	7	beluga	1	0	swim	272	True
415	70.52	-140.8	7	beluga	1	0	swim	272	True
416	70.52	-140.8	7	beluga	3	0	swim	272	True
418	70.51	-140.8	7	beluga	1	0	swim	272	True
419	70.51	-140.8	7	beluga	1	0	swim	302	True
420	70.51	-140.8	7	beluga	5	0	swim	272	True
434	70.34	-140.82	5	unid cetacean	1	0	swim	-1	True
446	70.32	-140.82	5	bowhead whale	1	0	swim	270	True
451	70.33	-140.9	5	bowhead whale	1	0	swim	-1	False
504	69.73	-140.88	5	beluga	12	0	swim	92	True
505	69.72	-140.88	5	beluga	5	0	swim	92	True
528	69.69	-141.28	5	beluga	3	0	swim	92	True
560	70.1	-141.25	5	bowhead whale	1	0	swim	271	True
569	70.14	-141.25	5	bowhead whale	1	0	swim	275	True
585	70.33	-141.24	5	bowhead whale	1	0	breach	-1	True
600	70.37	-141.23	5	beluga	1	0	swim	178	True
603	70.39	-141.24	5	bowhead whale	1	1	swim	87	True
618	70.43	-141.23	5	beluga	2	0	swim	119	True
619	70.43	-141.23	5	beluga	5	0	swim	271	True
621	70.45	-141.23	5	beluga	2	1	swim	242	True
623	70.46	-141.23	5	beluga	1	0	swim	210	True
625	70.48	-141.23	5	beluga	1	0	swim	271	True

626	70.48	-141.23	5	beluga	2	1	swim	271	True
628	70.49	-141.23	5	beluga	1	0	swim	182	True
629	70.5	-141.23	5	beluga	1	0	swim	212	True
643	70.66	-141.22	7	beluga	2	0	swim	121	True
652	70.71	-141.22	7	beluga	6	1	swim	271	True
653	70.71	-141.22	7	beluga	1	0	swim	271	True
654	70.71	-141.22	7	beluga	3	1	swim	271	True
697	71.12	-141.19	7	beluga	2	1	swim	302	True
979	70.33	-142.66	5	bowhead whale	1	0	swim	267	True
1010	70.62	-142.69	7	beluga	2	1	swim	268	True
1012	70.63	-142.69	7	beluga	1	0	swim	298	True
1014	70.64	-142.69	7	beluga	2	0	swim	298	True
1019	70.68	-142.69	7	beluga	2	0	swim	358	True
1020	70.69	-142.69	7	beluga	2	0	swim	268	True
1022	70.71	-142.69	7	beluga	2	0	swim	-1	True
1209	70.89	-143.37	6	beluga	2	1	swim	300	True
1210	70.87	-143.37	6	beluga	2	1	swim	300	True
1212	70.86	-143.37	6	beluga	1	0	swim	270	True
1217	70.83	-143.37	6	beluga	1	0	swim	270	True
1218	70.82	-143.37	6	beluga	2	1	swim	-1	True
1219	70.82	-143.37	6	beluga	1	0	swim	270	True
1220	70.82	-143.37	6	beluga	2	1	swim	270	True
1223	70.78	-143.37	6	beluga	1	0	swim	300	True
1232	70.69	-143.37	6	beluga	2	0	swim	270	True
1234	70.67	-143.37	6	beluga	1	0	swim	240	True
1236	70.67	-143.37	6	beluga	5	1	swim	-1	True
1237	70.66	-143.37	6	beluga	2	1	swim	-1	True
1238	70.66	-143.37	6	beluga	17	0	swim	270	True
1239	70.66	-143.37	6	beluga	2	0	swim	270	True
1240	70.66	-143.37	6	beluga	2	1	mill	-1	True
1252	70.51	-143.37	6	bowhead whale	2	1	swim	270	True
1255	70.5	-143.4	6	bowhead whale	2	1	swim	-1	False
1257	70.51	-143.43	6	bowhead whale	2	1	swim	-1	False
1259	70.52	-143.42	6	bowhead whale	1	0	swim	-1	False
1383	70.59	-143.91	6	bowhead whale	1	0	swim	334	True
1387	70.65	-143.9	6	beluga	3	2	swim	64	True
1388	70.66	-143.9	6	beluga	2	1	swim	64	True
1390	70.66	-143.9	6	beluga	2	1	swim	64	True
1392	70.67	-143.89	6	beluga	1	0	swim	-1	True
1409	70.85	-143.86	6	beluga	9	2	swim	273	True
1412	70.85	-143.9	6	beluga	1	0	swim	-1	False
1429	71	-143.83	6	bowhead whale	2	0	swim	-1	True
1441	71.02	-143.83	6	beluga	2	1	swim	13	True
1455	71.12	-143.81	6	beluga	1	0	swim	244	True
1456	71.13	-143.81	6	beluga	2	0	swim	124	True
1457	71.13	-143.81	6	beluga	2	1	swim	214	True
1459	71.14	-143.81	6	beluga	5	0	swim	244	True
1460	71.14	-143.81	6	beluga	1	0	swim	212	True
1461	71.15	-143.81	6	beluga	6	0	swim	212	True

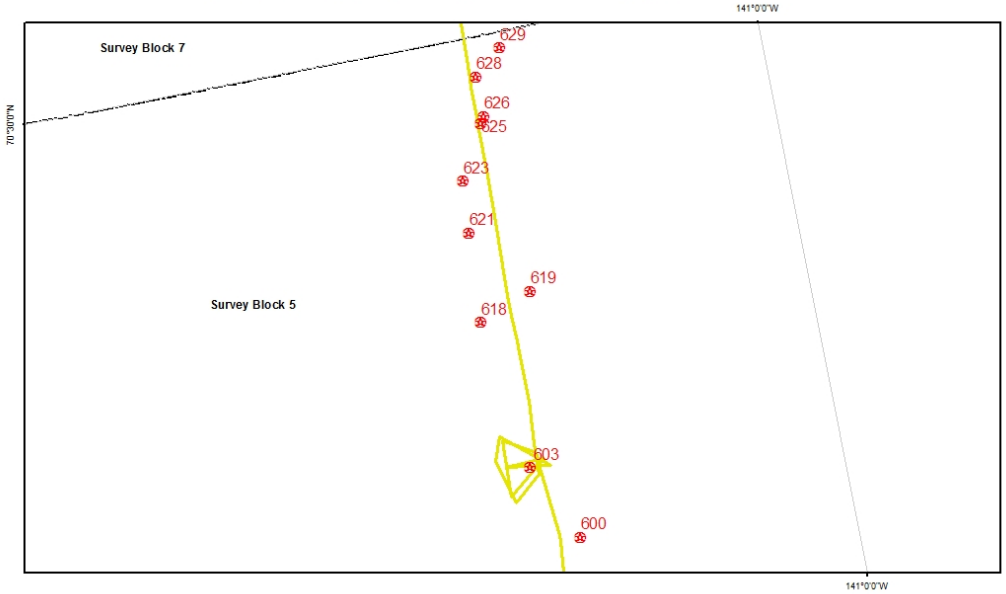

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings - Labeled by sighting number as shown on Summary Table
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, 7/30/2016 9:26:07 AM
105 0 10 20 30 40
Kilometers
Survey Block 10
Survey Block 9
Survey Block 8
Survey Block 11
Survey Block 7
Survey Block 2
Survey Block 6
Survey Block 1
Survey Block 4
Survey Block 5
Cross Island
Camden Bay
Kaktovik
Deadhorse
Demarcation Bay

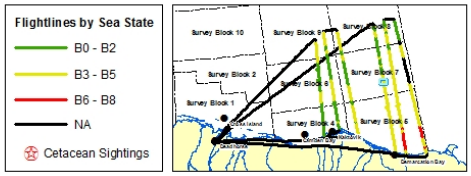

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 1, 7/30/2016 9:26:07 AM
0.2 0 0.2 0.4 0.6 0.8
Kilometers
Survey Block 7
Survey Block 5



NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 2, 7/30/2016 9:26:07 AM

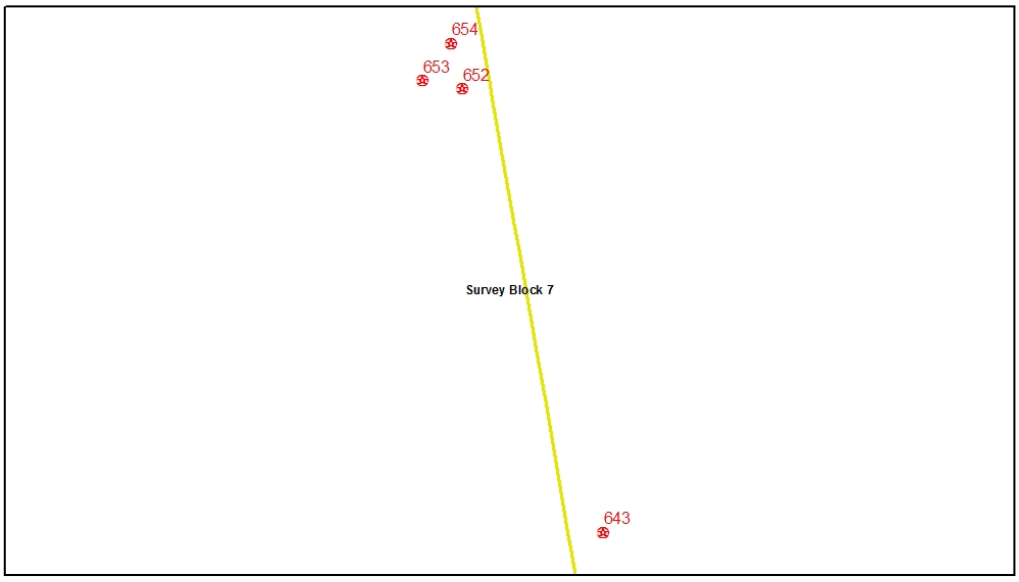
0 0.375 0.75 1.5 2.25 3
Kilometers

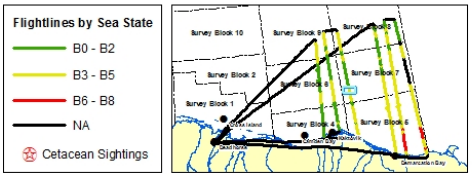




NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 3, 7/30/2016 9:26:07 AM

0 0.15 0.3 0.6 0.9 1.2
Kilometers





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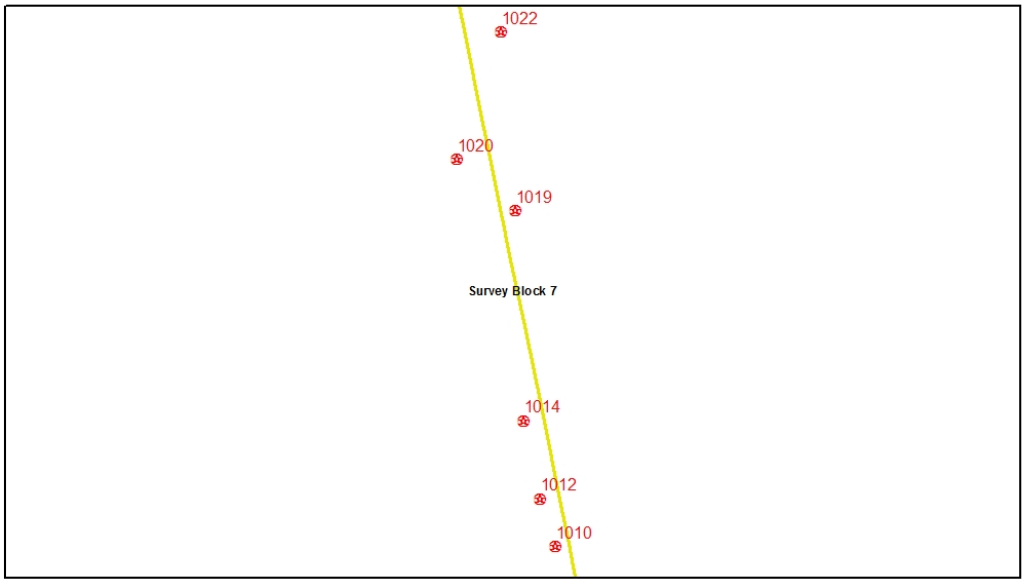
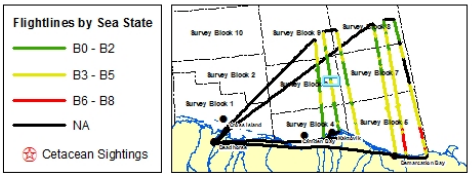
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 4, 7/30/2016 9:26:07 AM

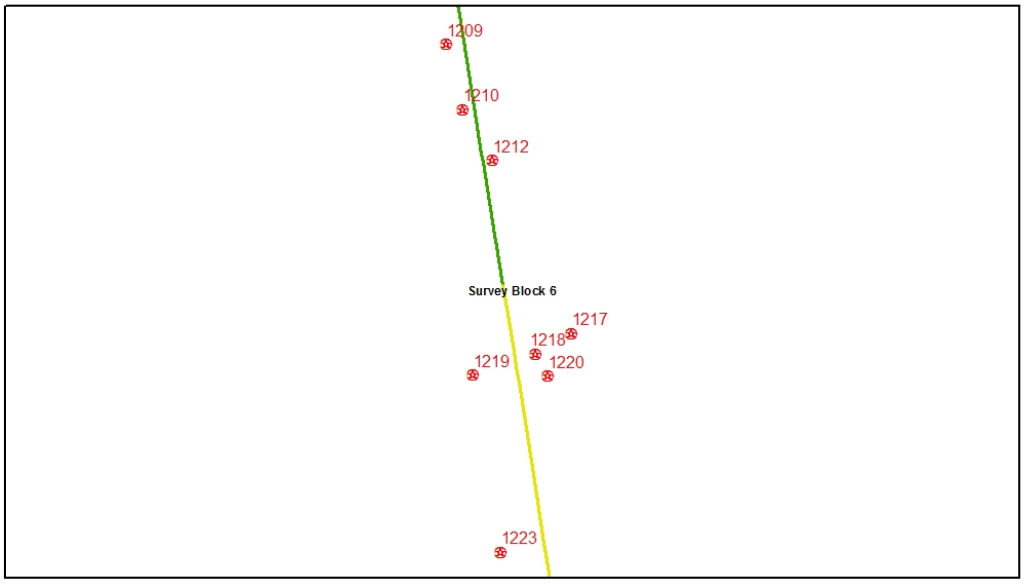
0 0.25 0.5 1 1.5 2
Kilometers

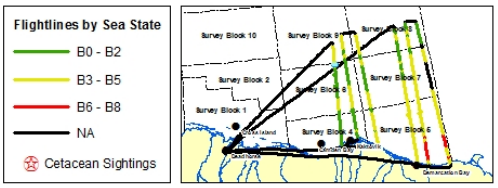




NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 5, 7/30/2016 9:26:07 AM

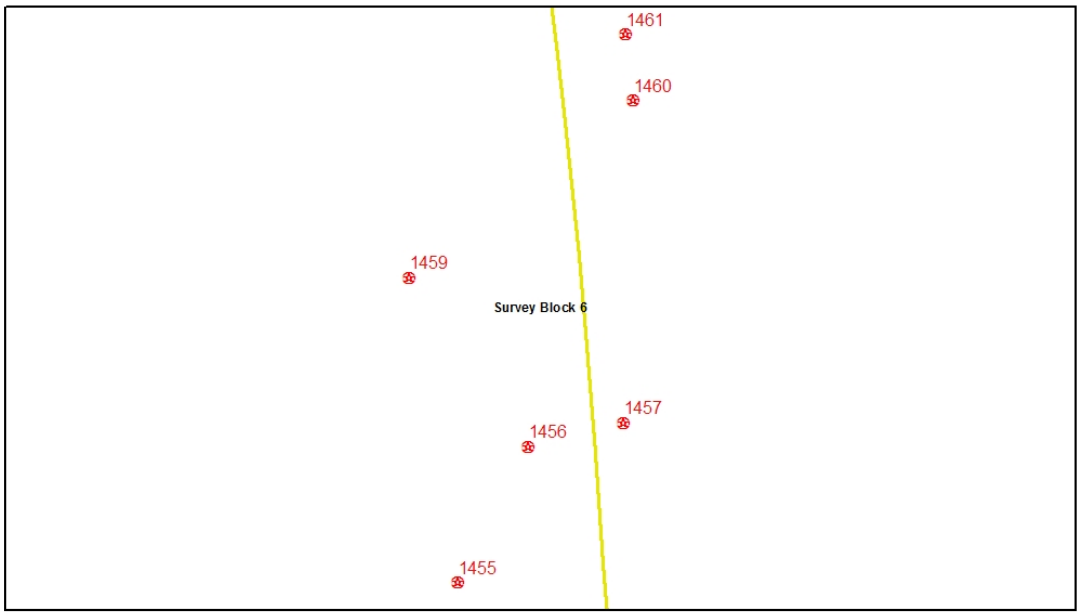
0 0.3 0.6 1.2 1.8 2.4
Kilometers

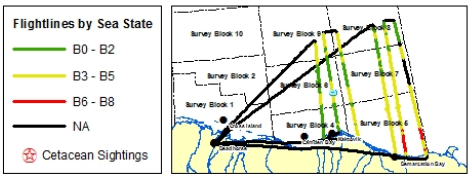




NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 6, 7/30/2016 9:26:07 AM

0 0.1 0.2 0.3 0.4
Kilometers





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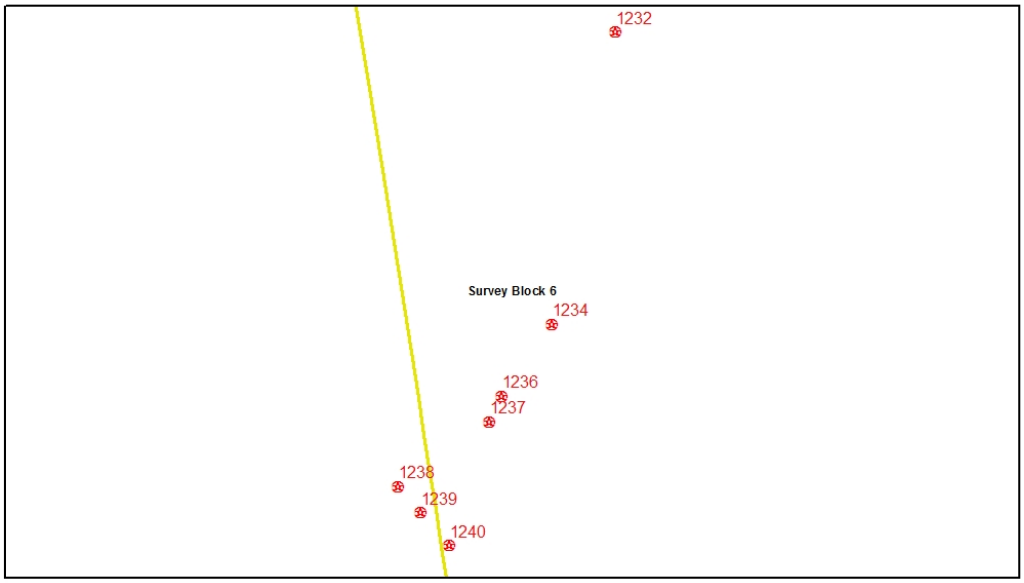
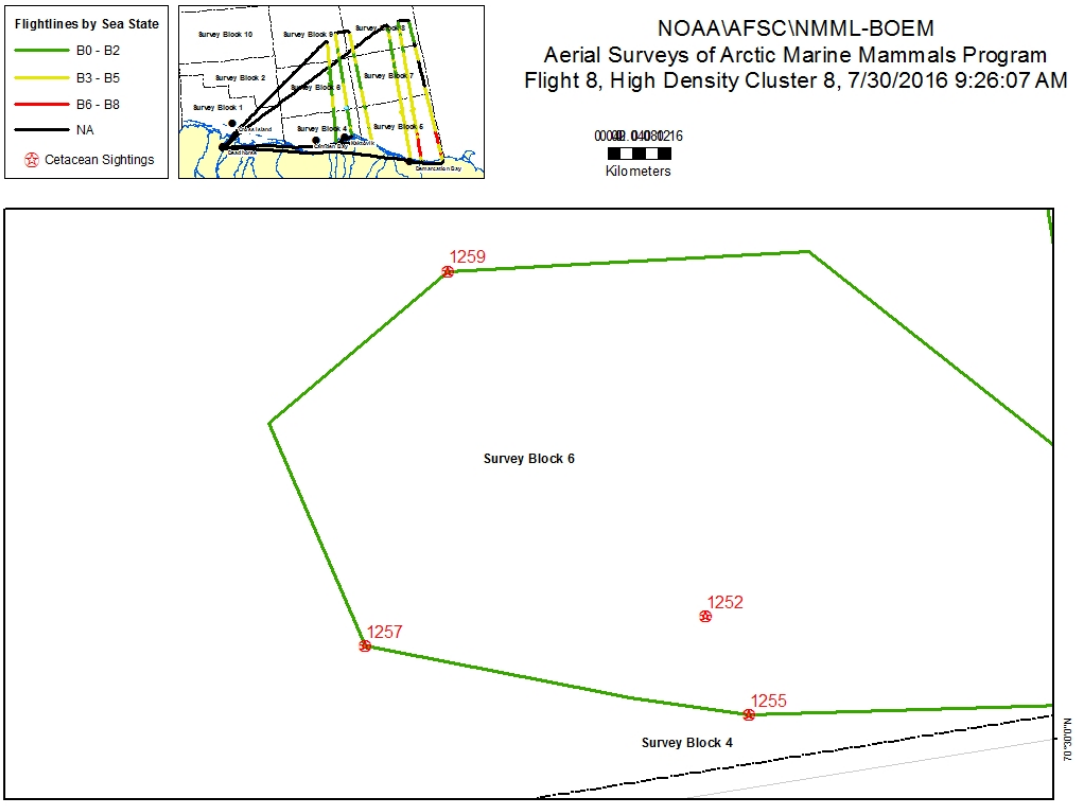
Aerial Surveys of Arctic Marine Mammals Program
Flight 8, High Density Cluster 7, 7/30/2016 9:26:07 AM

Kilometers





Adult bowhead whale resting at the surface in between breaches. Sighted approximately 80 km north of Demarcation Bay (Event 585), ASAMM-Beaufort Flight 8, 30 July 2016.

Adult bowhead whale sighted breaching approximately 80 km north of Demarcation Bay (Event 585), ASAMM-Beaufort Flight 8, 30 July 2016.

The view from 1500 ft over the Beaufort Sea, at approximately 71.37ºN, 140.24ºW. ASAMM-Beaufort Flight 8, 30 July 2016.

Coastal sunshine (70.1ºN, 143.72ºW). ASAMM-Beaufort Flight 8, 30 July 2016.