ASAMM-Beaufort – Flight 10 – 5 August 2013

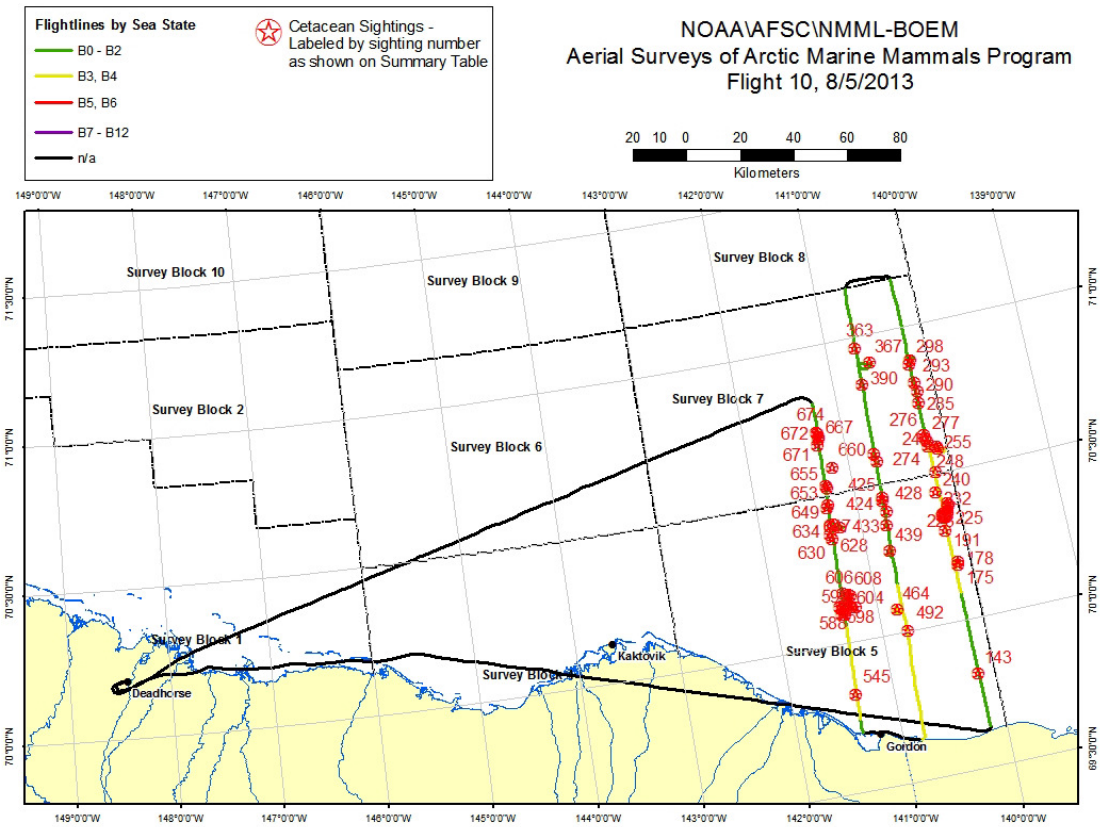
Area flown: Blocks 5 and 7, 2 complete transects and one partial transect.
Total hours flown: 5.2
Total transect hours: 2.2
Number of bowheads seen: 40 (6 calves)
Weather and visibility: Skies were partly cloudy. Sea state ranged from Beaufort 1-4. Visibility ranged from 0 to 10 km, with glare and fog; fog prevented completion of one transect. Sea ice cover ranged from 0-30% broken floe ice in the area surveyed.
Sightings: Bowhead whales, belugas (including 29 calves), unidentified cetaceans, bearded seals, and small unidentified pinnipeds. There were two separate incidences of bowhead whales with logs, one a cow-calf pair (event 464) and one a single whale (event 604).

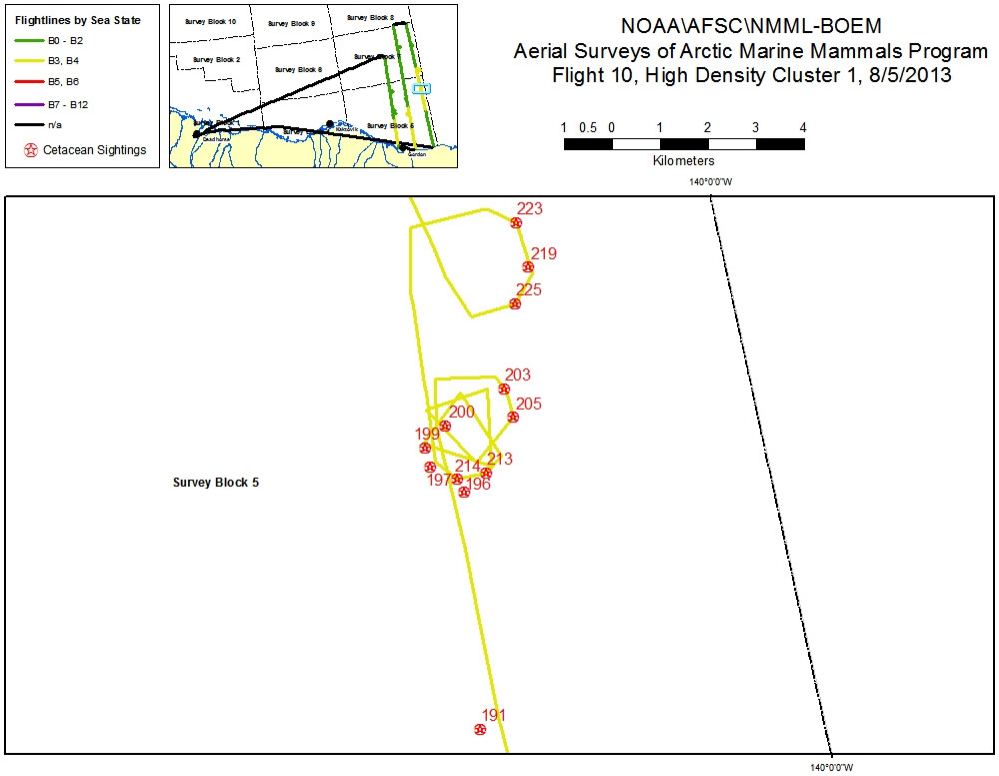
Preliminary Summary, Flight 10 Date: 8/5/2013

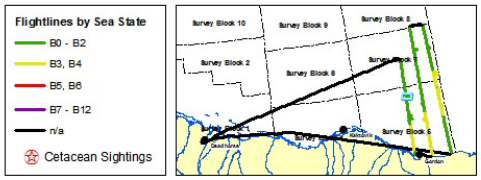
Total bowhead whales: 40	Start time: 8/5/2013 2:56:54 PM	End time: 8/5/2013 8:05:00 PM
Bowhead whale sightings: 25	Transect minutes: 131	Transect km:473.6
Bowhead whales on transect: 24	Circling minutes: 61	Circling km: 177.2
Bowhead whale cow-calf pairs: 6	Trans+Circ minutes: 192	Trans+Circ km: 650.8
Bowhead whale cow-calf pairs on transect: 6	Search minutes: 1	Search km: 4.5
Bowhead whale repeats: 0	Total minutes: 309	Total km: 1324.9
Possible repeats: 0	Deadhead minutes: 116	Deadhead km: 669.6
Total gray whales: 0	Search blocks: 7, 8, 5	
Total belugas: 111	Transect blocks: 5, 7	
Other whale sightings: 2		
Total walrus: 0		
Total polar bears: 0		

Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
143	69.81	-140.16	5	bowhead whale	1	0	swim	177	True
175	70.18	-140.17	5	beluga	6	0	swim	87	True
178	70.2	-140.13	5	beluga	1	0	rest	-1	False
191	70.3	-140.18	5	beluga	1	0	swim	358	True
196	70.35	-140.18	5	beluga	2	1	swim	-1	True
197	70.35	-140.18	5	beluga	1	0	swim	-1	True
199	70.36	-140.18	5	beluga	2	1	rest	-1	True
200	70.36	-140.18	5	bowhead whale	2	1	swim	-1	True
203	70.37	-140.13	5	beluga	1	0	swim	-1	False
205	70.36	-140.13	5	bowhead whale	1	0	swim	-1	False
213	70.35	-140.15	5	beluga	4	0	swim	-1	False
214	70.35	-140.17	5	beluga	2	1	swim	-1	False
219	70.39	-140.17	5	unid cetacean	1	0	swim	-1	True
223	70.39	-140.11	5	beluga	1	0	swim	-1	False
225	70.38	-140.12	5	beluga	2	1	swim	-1	False
232	70.44	-140.18	5	beluga	2	0	swim	-1	True
240	70.5	-140.18	7	beluga	3	1	mill	-1	True
246	70.58	-140.18	7	bowhead whale	4	2	mill	-1	True
248	70.59	-140.18	7	beluga	3	0	swim	-1	False
255	70.58	-140.09	7	bowhead whale	2	0	.	-1	False
274	70.61	-140.18	7	beluga	3	1	swim	-1	True
276	70.62	-140.18	7	beluga	8	4	swim	294	True
277	70.63	-140.18	7	beluga	3	1	swim	301	True
285	70.74	-140.19	7	beluga	2	1	rest	-1	True
290	70.78	-140.19	7	beluga	1	0	rest	-1	True
293	70.81	-140.19	7	beluga	3	1	swim	297	True
298	70.87	-140.19	7	beluga	2	0	rest	-1	True
300	70.89	-140.19	7	bowhead whale	2	1	swim	-1	True
363	70.96	-140.7	7	beluga	3	1	swim	331	True

367	70.91	-140.7	7	bowhead whale	2	0	swim	-1	True
390	70.84	-140.7	7	beluga	2	1	swim	300	True
408	70.61	-140.73	7	beluga	7	2	swim	330	True
412	70.58	-140.73	7	beluga	4	1	swim	270	True
424	70.45	-140.74	5	beluga	1	0	swim	-1	True
425	70.45	-140.74	5	bowhead whale	1	0	swim	271	True
428	70.41	-140.74	5	beluga	3	0	swim	302	True
433	70.36	-140.75	5	bowhead whale	1	0	swim	1	True
439	70.28	-140.75	5	bowhead whale	2	1	swim	357	True
464	70.08	-140.77	5	bowhead whale	2	1	log play	-1	True
492	70	-140.76	5	beluga	20	7	swim	183	True
545	69.83	-141.36	5	beluga	3	1	swim	124	True
565	70.1	-141.33	5	bowhead whale	1	0	.	-1	True
570	70.1	-141.34	5	bowhead whale	1	0	swim	-1	False
575	70.1	-141.33	5	bowhead whale	2	0	.	-1	False
581	70.12	-141.33	5	bowhead whale	1	0	.	-1	True
582	70.12	-141.33	5	bowhead whale	1	0	swim	97	True
586	70.13	-141.28	5	bowhead whale	1	0	.	-1	False
588	70.12	-141.25	5	bowhead whale	1	0	.	-1	False
592	70.11	-141.21	5	bowhead whale	2	0	.	-1	False
598	70.13	-141.34	5	bowhead whale	4	0	unknown	-1	False
604	70.15	-141.32	5	bowhead whale	1	0	log play	-1	True
606	70.17	-141.3	5	bowhead whale	1	0	swim	-1	False
608	70.16	-141.25	5	bowhead whale	1	0	swim	-1	False
628	70.35	-141.3	5	beluga	2	1	swim	183	True
630	70.37	-141.3	5	beluga	2	0	swim	61	True
632	70.38	-141.3	5	bowhead whale	2	0	rest	-1	True
634	70.4	-141.3	5	beluga	1	0	swim	-1	True
637	70.4	-141.26	5	beluga	1	0	swim	-1	False
647	70.46	-141.28	5	beluga	1	0	swim	91	True
649	70.47	-141.28	5	beluga	1	0	swim	272	True
653	70.52	-141.28	7	beluga	2	0	swim	304	True
655	70.53	-141.27	7	bowhead whale	1	0	swim	304	True
660	70.59	-141.27	7	unid cetacean	1	0	swim	122	True
667	70.67	-141.26	7	beluga	1	0	swim	270	True
669	70.69	-141.26	7	beluga	1	0	swim	-1	True
671	70.7	-141.26	7	beluga	1	1	swim	271	True
672	70.71	-141.25	7	beluga	1	1	rest	-1	True
674	70.71	-141.25	7	beluga	1	0	swim	-1	True

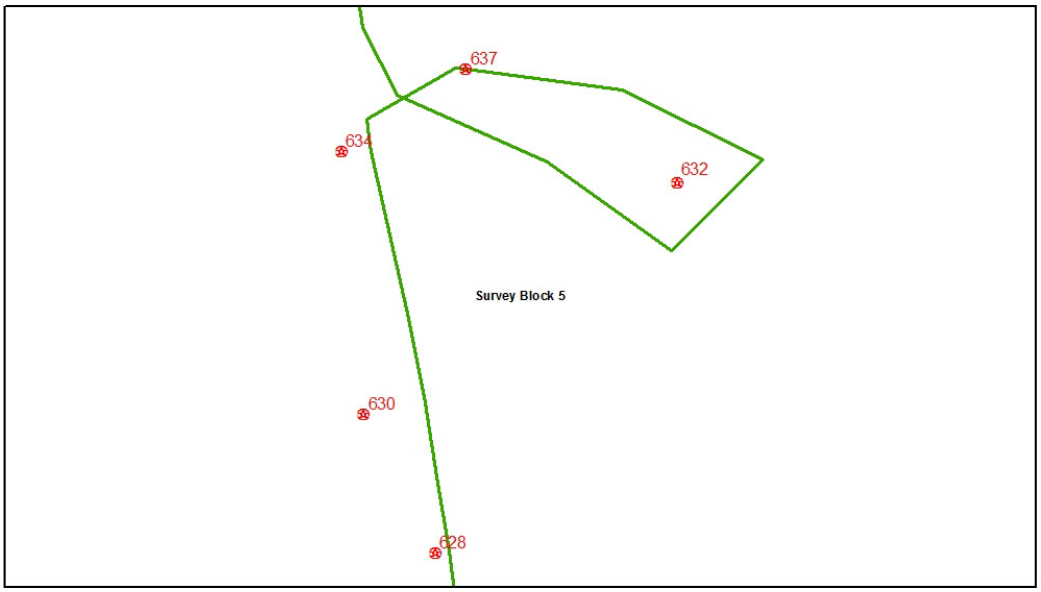

Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
n/a
Cetacean Sightings - Labeled by sighting number as shown on Summary Table
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, 8/5/2013
20 10 0 20 40 60 80
Kilometers
Survey Block 10
Survey Block 9
Survey Block 8
Survey Block 7
Survey Block 6
Survey Block 5
Survey Block 2
Survey Block 1
Deadhorse
Kaktovik
Gordon

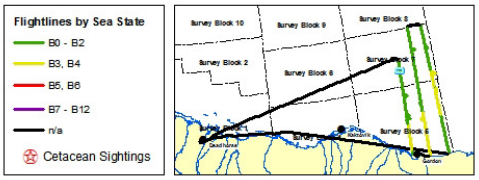

Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
n/a
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, High Density Cluster 1, 8/5/2013
1 0.5 0 1 2 3 4
Kilometers
Survey Block 5



NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, High Density Cluster 2, 8/5/2013

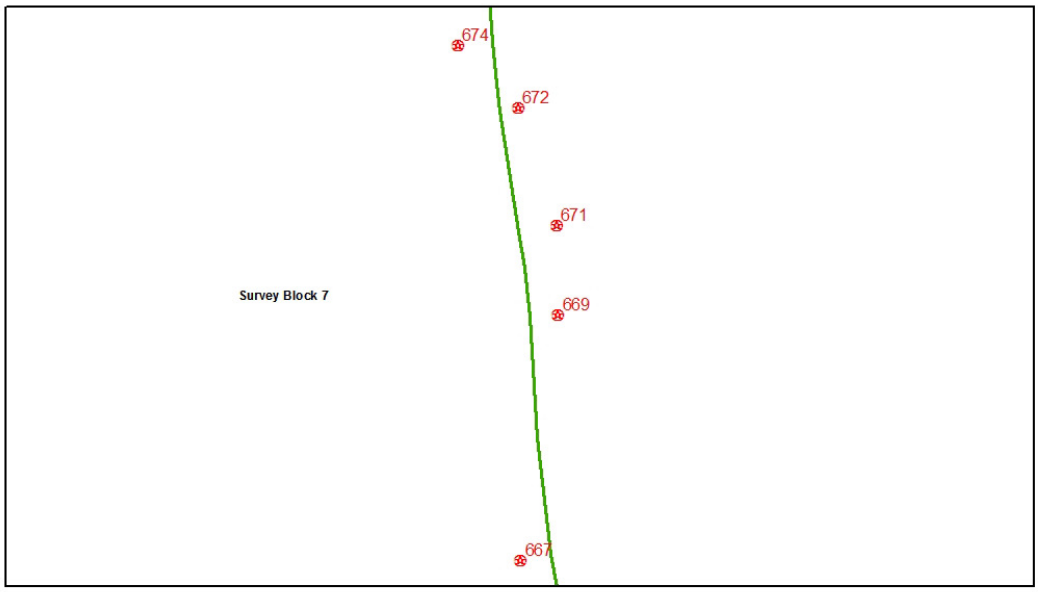
0.6 0.3 0 0.6 1.2 1.8 2.4
Kilometers

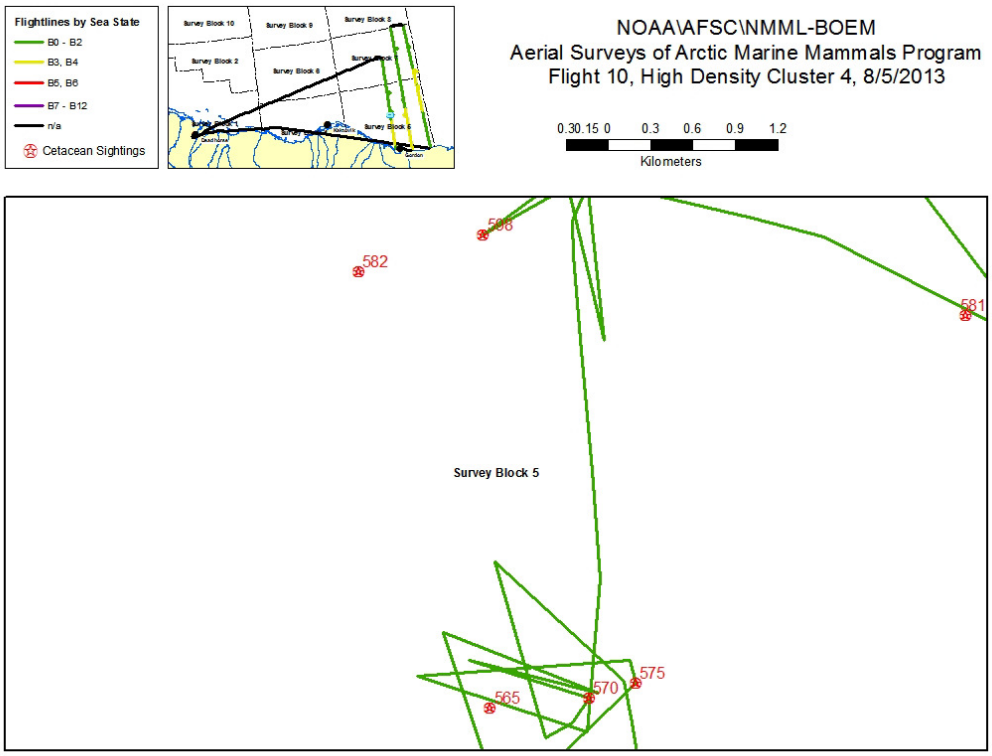


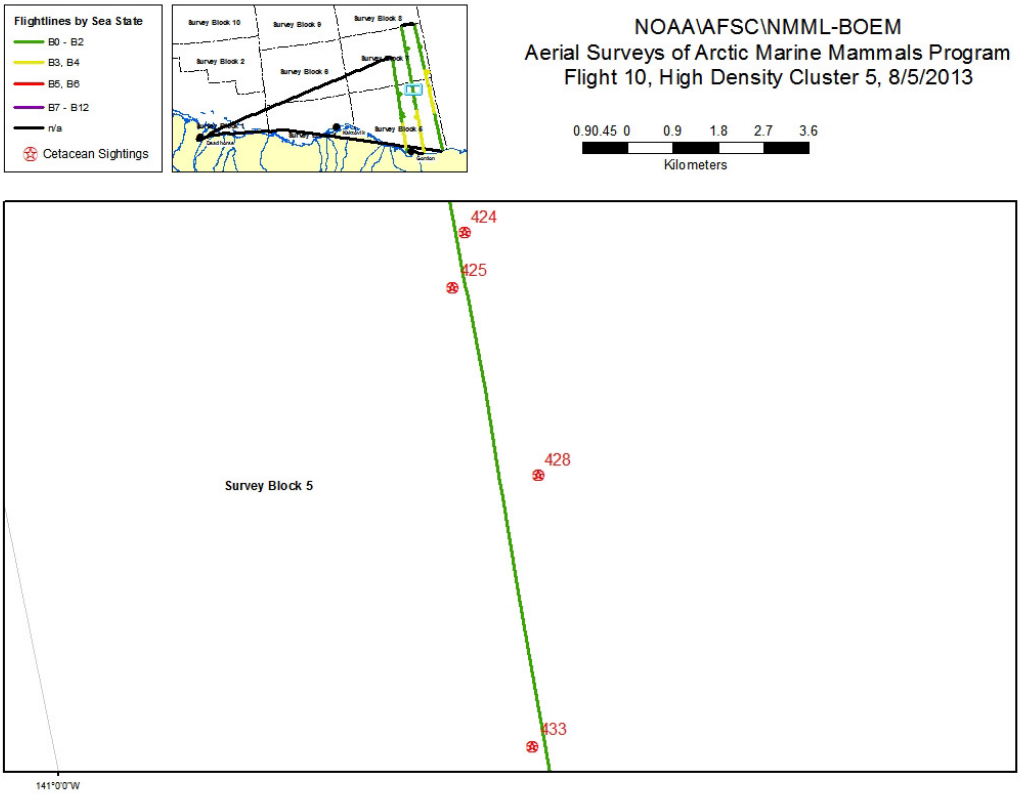


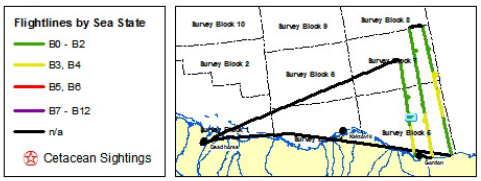
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, High Density Cluster 3, 8/5/2013

0.5 0.25 0 0.5 1 1.5 2
Kilometers




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 10, High Density Cluster 4, 8/5/2013
0.30.15 0 0.3 0.6 0.9 1.2
Kilometers
582
581
575
570
565
Survey Block 5


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 10, High Density Cluster 5, 8/5/2013
0.90.45 0 0.9 1.8 2.7 3.6
Kilometers
424
425
428
433
Survey Block 5
141°0'0"W



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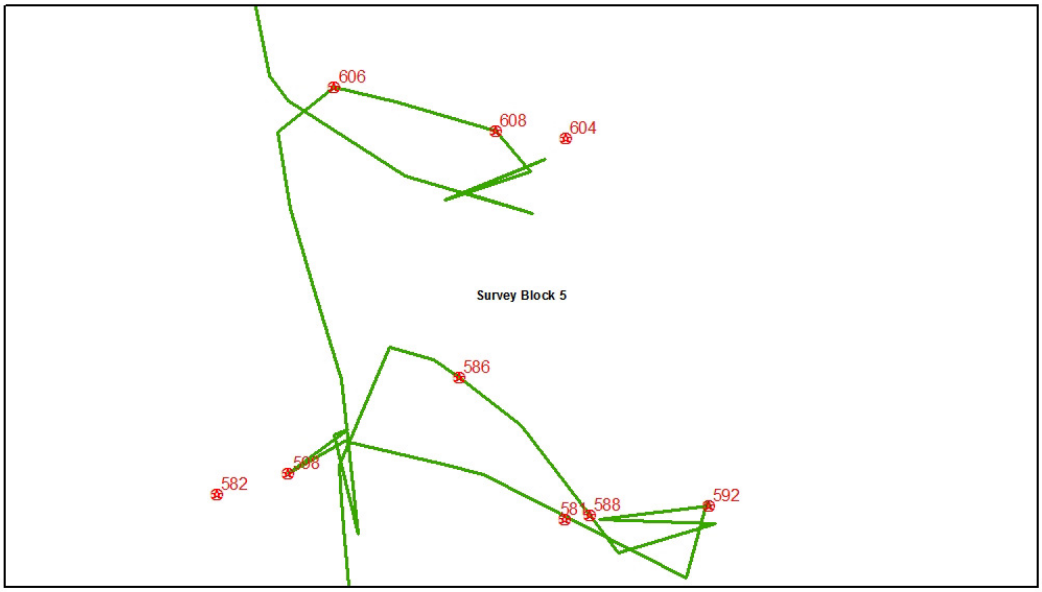
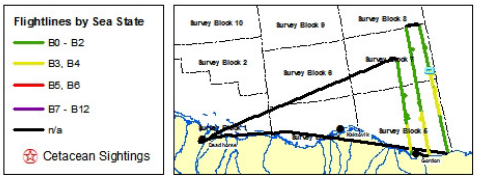
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, High Density Cluster 6, 8/5/2013

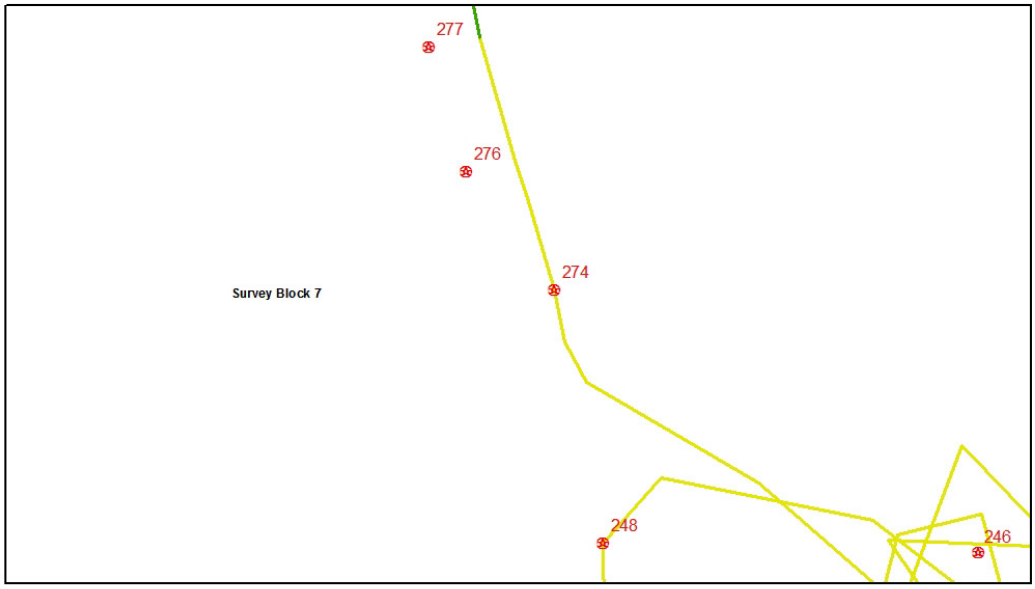
0.6 0.3 0 0.6 1.2 1.8 2.4
Kilometers





NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 10, High Density Cluster 7, 8/5/2013

0.4 0.2 0 0.4 0.8 1.2 1.6
Kilometers



Two bowhead whale cow-calf pairs milling in the western Beaufort Sea (event 246), ASAMM-Beaufort Flight 10, 5 August 2013. The calf is to the left of the cow in the bottom of the photo but not clearly visible.

Bowhead whale cow-calf pair with log in the western Beaufort Sea (event 464), ASAMM-Beaufort Flight 10, 5 August 2013. The calf is to the right of the cow.

Bowhead whale with log in the western Beaufort Sea (event 604), ASAMM-Beaufort Flight 10, 5 August 2013. The whale's back is flexed as it lifts the log out of the water.