ASAMM-Beaufort – Flight 38 – 27 September 2015

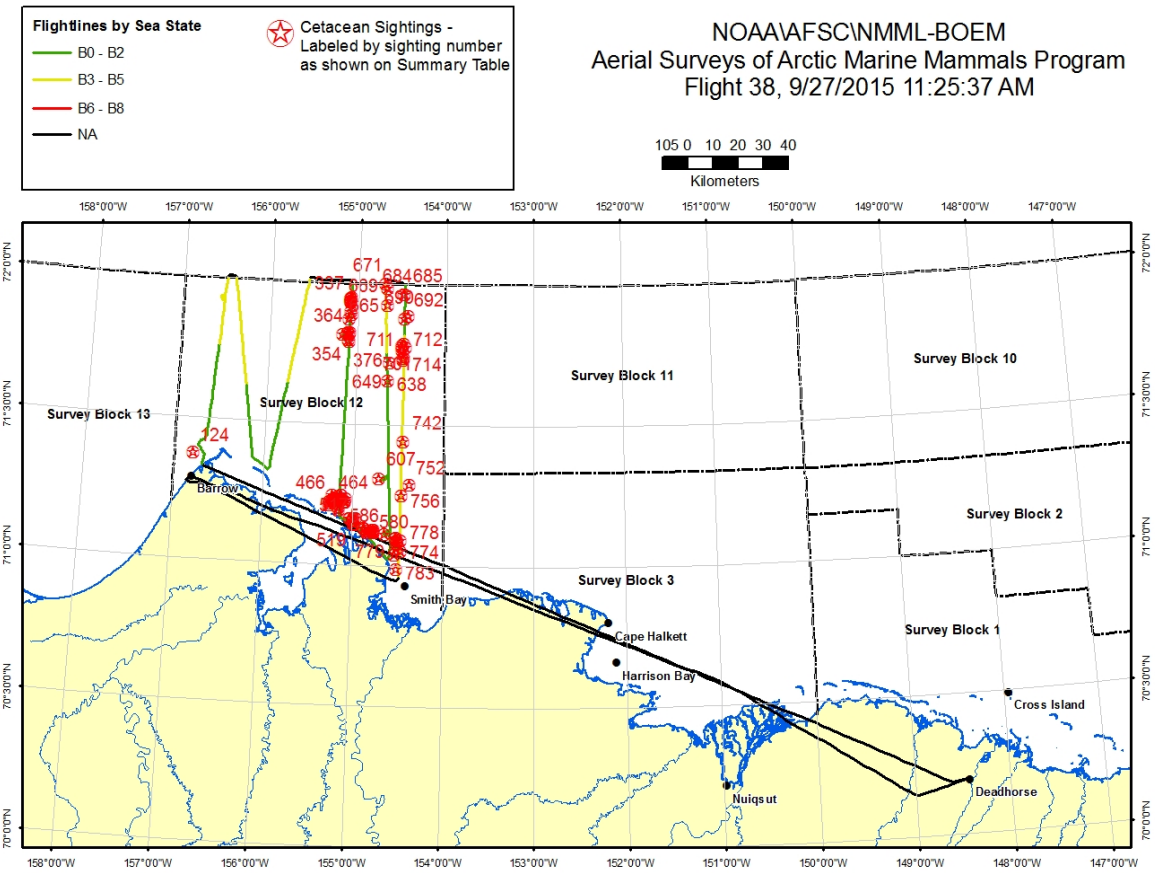
Area flown: Block 12, 6 complete transects. The survey aircraft diverted slightly on the farthest west transect to avoid interference with subsistence whalers.
Total hours flown: 6.0 (2 flights)
Total transect hours: 2.4
Number of bowhead whales seen: 187 (0 calves)
Weather and visibility: Skies were partly cloudy to overcast. Sea state ranged from Beaufort 2-3. Visibility varied from <1 km to unlimited, with visual impediments including haze, low ceiling, and precipitation. No sea ice was observed in the area surveyed.
Sightings: Bowhead whales, belugas (including 4 calves), unidentified cetaceans, one walrus, and small unidentified pinnipeds.

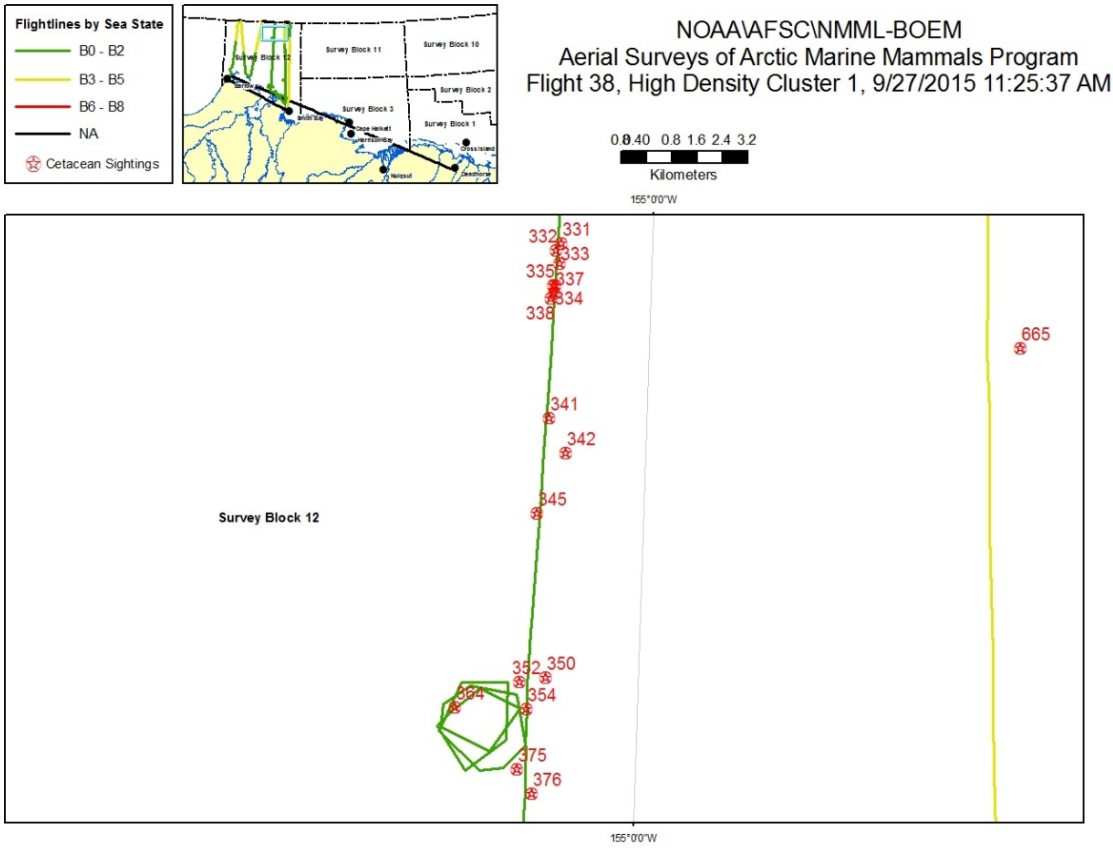
Preliminary Summary, Flight 38 Date: 9/27/2015

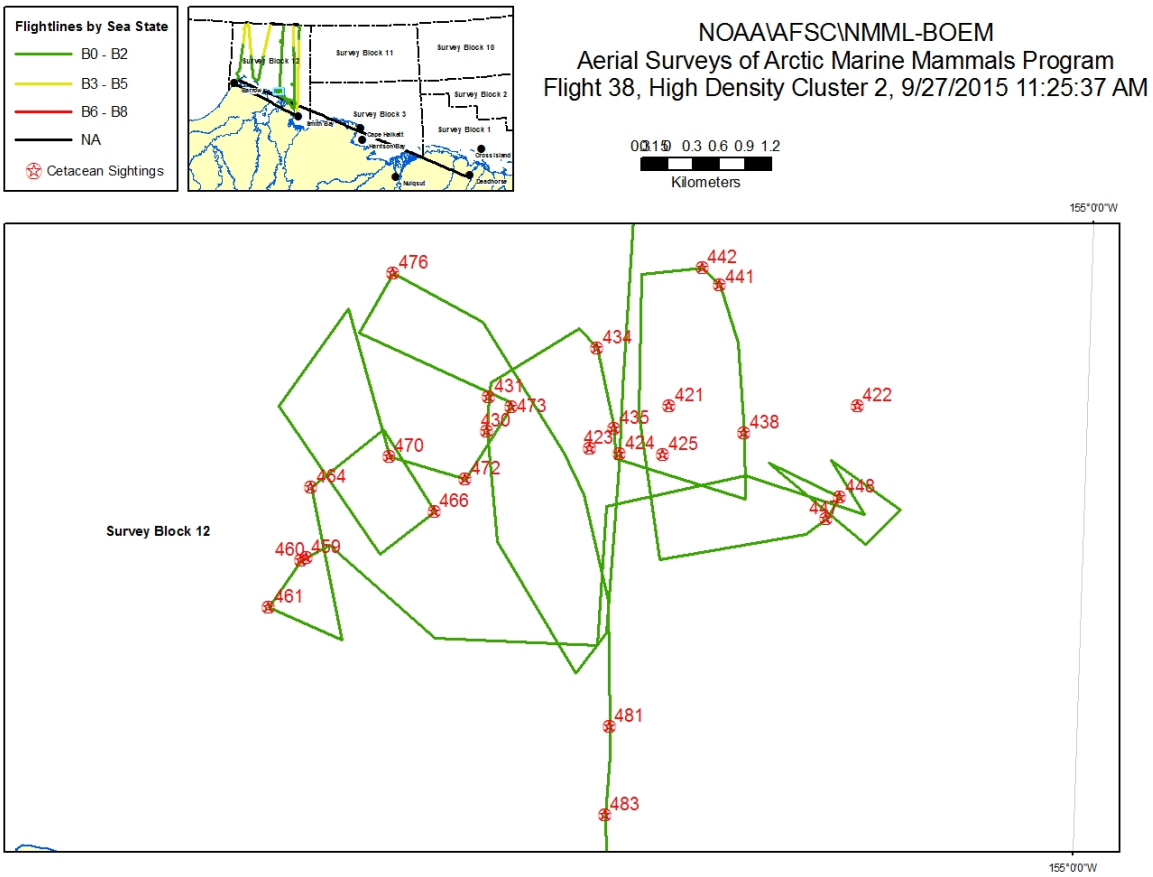
Total bowhead whales: 187	Start time: 9/27/2015 11:42:52 AM	End time: 9/27/2015 6:30:35 PM
Bowhead whale sightings: 56	Transect minutes: 144	Transect km:521.4
Bowhead whales on transect: 77	Circling minutes: 59	Circling km: 129.3
Bowhead whale cow-calf pairs: 0	Trans+Circ minutes: 203	Trans+Circ km: 650.7
Bowhead whale cow-calf pairs on transect: 0	Search minutes: 12	Search km: 47.2
Bowhead whale repeats: 1	Total minutes: 359	Total km: 1490.3
Possible repeats: 1	Deadhead minutes: 144	Deadhead km: 792.4
Total gray whales: 0	Search blocks: 12, 0	
Total belugas: 110	Transect blocks: 12, 0	
Other whale sightings: 3		
Walruses: Yes		
Total polar bears: 0		

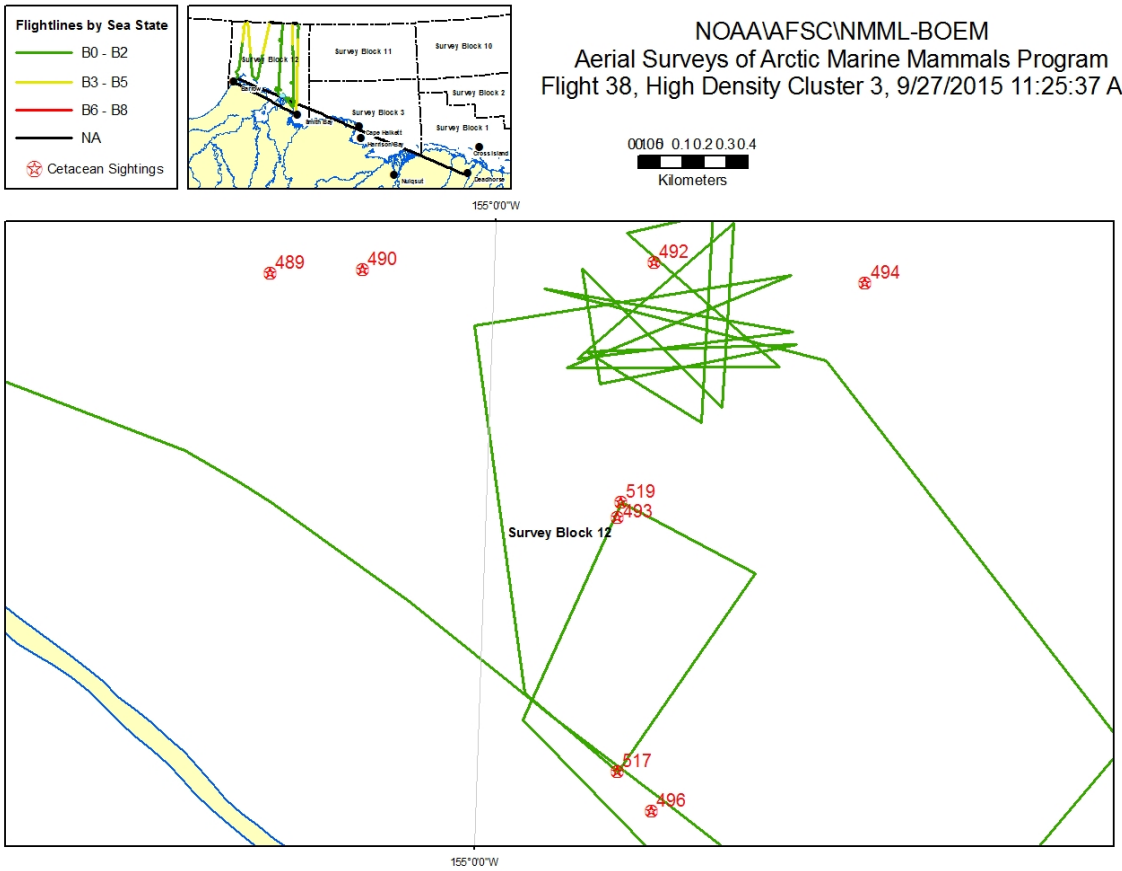
Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
124	71.39	-156.71	12	unid cetacean	2	0	unknown	-1	False
331	71.95	-155.09	12	beluga	1	0	swim	241	True
332	71.94	-155.09	12	beluga	1	0	swim	270	True
333	71.94	-155.09	12	beluga	1	0	swim	243	True
334	71.93	-155.09	12	beluga	1	0	swim	271	True
335	71.93	-155.09	12	beluga	1	0	swim	271	True
337	71.93	-155.09	12	beluga	10	2	mill	-1	True
338	71.93	-155.09	12	beluga	4	0	swim	242	True
341	71.9	-155.09	12	beluga	2	0	swim	183	True
342	71.89	-155.09	12	beluga	1	0	swim	243	True
345	71.87	-155.09	12	beluga	1	0	swim	210	True
350	71.82	-155.1	12	beluga	1	0	rest	-1	True
352	71.82	-155.1	12	beluga	3	0	swim	271	True
354	71.81	-155.1	12	beluga	4	0	rest	-1	True
364	71.81	-155.16	12	beluga	48	0	swim	-1	False
375	71.8	-155.1	12	beluga	1	0	swim	178	True
376	71.79	-155.1	12	beluga	2	1	mill	-1	True
421	71.23	-155.15	12	bowhead whale	1	0	feed	-1	True
422	71.23	-155.15	12	bowhead whale	1	0	feed	-1	True
423	71.23	-155.15	12	bowhead whale	2	0	feed	-1	True
424	71.23	-155.15	12	bowhead whale	1	0	feed	-1	True
425	71.23	-155.15	12	bowhead whale	1	0	feed	-1	True
430	71.23	-155.19	12	bowhead whale	2	0	feed	-1	False
431	71.23	-155.19	12	bowhead whale	1	0	mill	-1	False
434	71.24	-155.16	12	bowhead whale	1	0	feed	-1	False
435	71.23	-155.15	12	bowhead whale	1	0	feed	-1	False
438	71.23	-155.11	12	bowhead whale	1	0	mill	-1	False
441	71.25	-155.12	12	bowhead whale	1	0	mill	-1	False
442	71.25	-155.12	12	bowhead whale	1	0	feed	-1	False

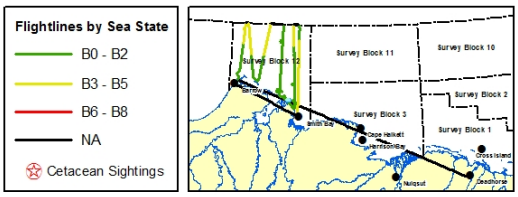
447	71.22	-155.08	12	bowhead whale	2	0	feed	-1	False
448	71.22	-155.08	12	bowhead whale	1	0	feed	-1	False
459	71.22	-155.25	12	bowhead whale	1	0	mill	-1	False
460	71.22	-155.25	12	bowhead whale	1	0	mill	-1	False
461	71.21	-155.26	12	bowhead whale	1	0	mill	-1	False
464	71.22	-155.25	12	bowhead whale	1	0	mill	-1	False
466	71.22	-155.21	12	bowhead whale	2	0	feed	-1	False
470	71.23	-155.22	12	bowhead whale	3	0	feed	-1	False
472	71.22	-155.2	12	bowhead whale	3	0	mill	-1	False
473	71.23	-155.18	12	bowhead whale	3	0	feed	-1	False
476	71.25	-155.22	12	bowhead whale	1	0	feed	-1	False
481	71.2	-155.15	12	bowhead whale	1	0	feed	-1	False
483	71.19	-155.15	12	bowhead whale	1	0	mill	-1	False
489	71.16	-155.04	12	bowhead whale	1	0	mill	-1	False
490	71.16	-155.03	12	bowhead whale	1	0	mill	-1	False
492	71.15	-155.01	12	bowhead whale	18	0	feed	-1	False
493	71.15	-155	12	bowhead whale	2	0	mill	-1	False
494	71.15	-154.99	12	bowhead whale	1	0	mill	-1	False
496	71.14	-154.98	12	bowhead whale	1	0	feed	-1	False
517	71.14	-154.98	12	bowhead whale	9	0	feed	-1	False
519	71.16	-154.98	12	bowhead whale	1	0	feed	-1	False
525	71.12	-154.89	12	bowhead whale	2	0	feed	-1	False
526	71.12	-154.88	12	bowhead whale	4	0	feed	-1	False
534	71.12	-154.81	12	bowhead whale	1	0	feed	-1	False
535	71.12	-154.82	12	bowhead whale	1	0	feed	-1	False
537	71.11	-154.83	12	bowhead whale	1	0	feed	-1	False
540	71.12	-154.79	12	bowhead whale	2	0	feed	-1	False
541	71.12	-154.76	12	beluga	1	0	swim	-1	False
542	71.12	-154.76	12	beluga	2	0	swim	-1	False
544	71.12	-154.76	12	bowhead whale	1	0	feed	-1	False
545	71.13	-154.76	12	bowhead whale	1	0	feed	-1	False
548	71.13	-154.76	12	bowhead whale	1	0	feed	-1	False
563	71.06	-154.58	12	bowhead whale	40	0	feed	-1	True
574	71.08	-154.49	12	bowhead whale	4	0	feed	-1	False
575	71.09	-154.49	12	bowhead whale	18	0	feed	-1	False
577	71.1	-154.51	12	bowhead whale	6	0	feed	-1	False
578	71.1	-154.52	12	bowhead whale	2	0	feed	-1	False
580	71.09	-154.5	12	bowhead whale	3	0	feed	-1	False
586	71.11	-154.58	12	bowhead whale	20	0	feed	-1	True
607	71.31	-154.61	12	bowhead whale	2	0	feed	-1	True
638	71.65	-154.66	12	bowhead whale	1	0	swim	267	True
649	71.72	-154.66	12	beluga	2	0	swim	240	True
665	71.92	-154.69	12	beluga	1	0	swim	209	True
669	71.98	-154.7	12	beluga	3	1	swim	268	True
671	72	-154.7	12	beluga	2	0	rest	-1	True
684	71.96	-154.48	12	beluga	3	0	swim	268	True
685	71.96	-154.48	12	beluga	1	0	swim	268	True
690	71.88	-154.47	12	beluga	1	0	rest	-1	True
692	71.88	-154.47	12	beluga	1	0	rest	-1	True
701	71.79	-154.47	12	beluga	1	0	swim	-1	True
703	71.78	-154.47	12	beluga	1	0	swim	360	True
704	71.77	-154.47	12	beluga	1	0	swim	241	True
705	71.77	-154.47	12	beluga	1	0	swim	-1	True
706	71.76	-154.47	12	beluga	1	0	swim	277	True
711	71.74	-154.48	12	beluga	1	0	swim	266	True
712	71.74	-154.48	12	beluga	2	0	swim	236	True
714	71.73	-154.48	12	beluga	2	0	swim	298	True
742	71.44	-154.47	12	bowhead whale	1	0	swim	180	True
752	71.29	-154.47	12	unid cetacean	1	0	swim	-1	True
756	71.25	-154.47	12	bowhead whale	2	0	mill	-1	True
774	71.09	-154.47	12	bowhead whale	3	0	feed	-1	True
778	71.05	-154.48	12	bowhead whale	1	0	dive	-1	True
779	71.04	-154.48	12	bowhead whale	1	0	swim	181	True
783	70.99	-154.48	12	beluga	1	0	swim	86	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 38, 9/27/2015 11:25:37 AM
105 0 10 20 30 40
Kilometers
Survey Block 13
Survey Block 12
Survey Block 11
Survey Block 10
Survey Block 3
Survey Block 2
Survey Block 1
Barrow
Smith Bay
Cape Halkett
Harrison Bay
Cross Island
Nuiqsut
Deadhorse


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 38, High Density Cluster 1, 9/27/2015 11:25:37 AM
0.8 0.40 0.8 1.6 2.4 3.2
Kilometers
Survey Block 12

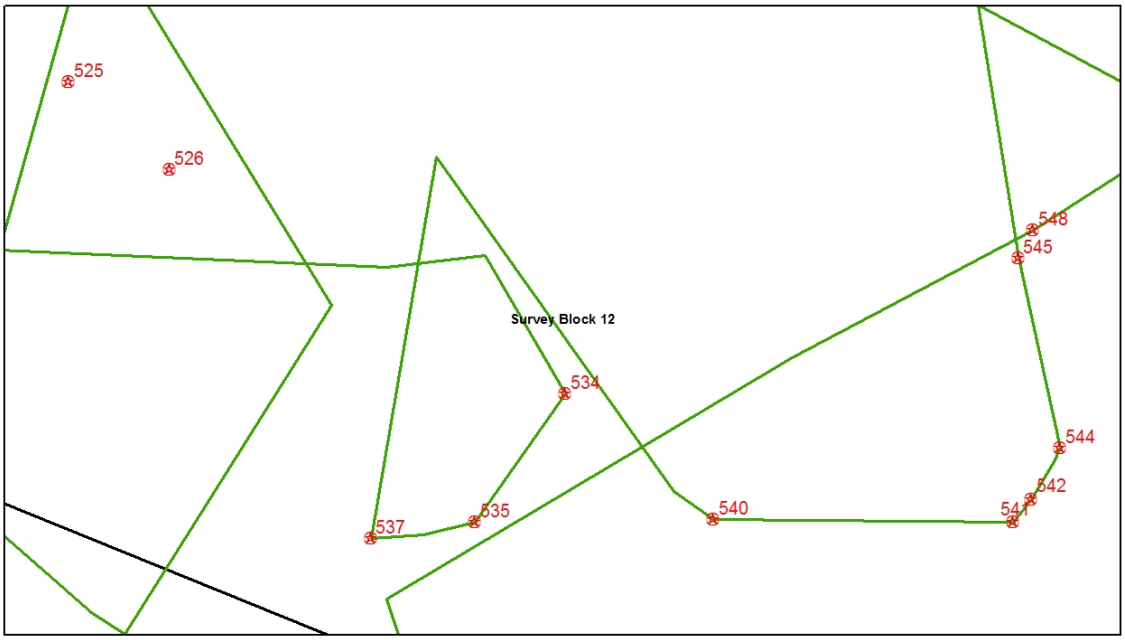

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Survey Block 12
Survey Block 11
Survey Block 10
Survey Block 3
Survey Block 2
Survey Block 1
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 38, High Density Cluster 2, 9/27/2015 11:25:37 AM
0 0.15 0.3 0.6 0.9 1.2
Kilometers
155°0'0"W
476
442
441
434
431
473
421
422
430
435
438
423
424
425
470
472
464
466
448
460
459
461
481
483

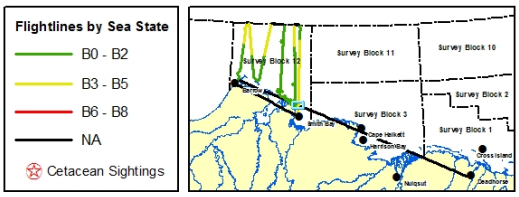

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Survey Block 12
Survey Block 11
Survey Block 10
Survey Block 3
Survey Block 2
Survey Block 1
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 38, High Density Cluster 3, 9/27/2015 11:25:37 AM
0 0.1 0.2 0.3 0.4
Kilometers
155°0'0"W
489
490
492
494
519
493
517
496



NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 38, High Density Cluster 4, 9/27/2015 11:25:37 AM

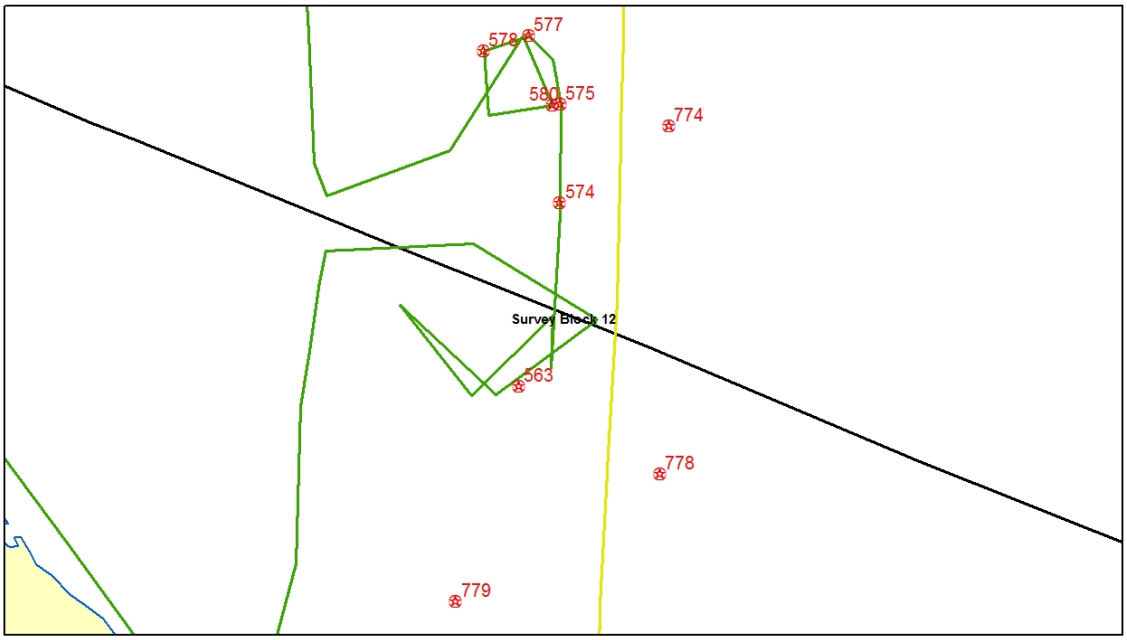
0 0.045 0.09 0.18 0.27 0.36
Kilometers

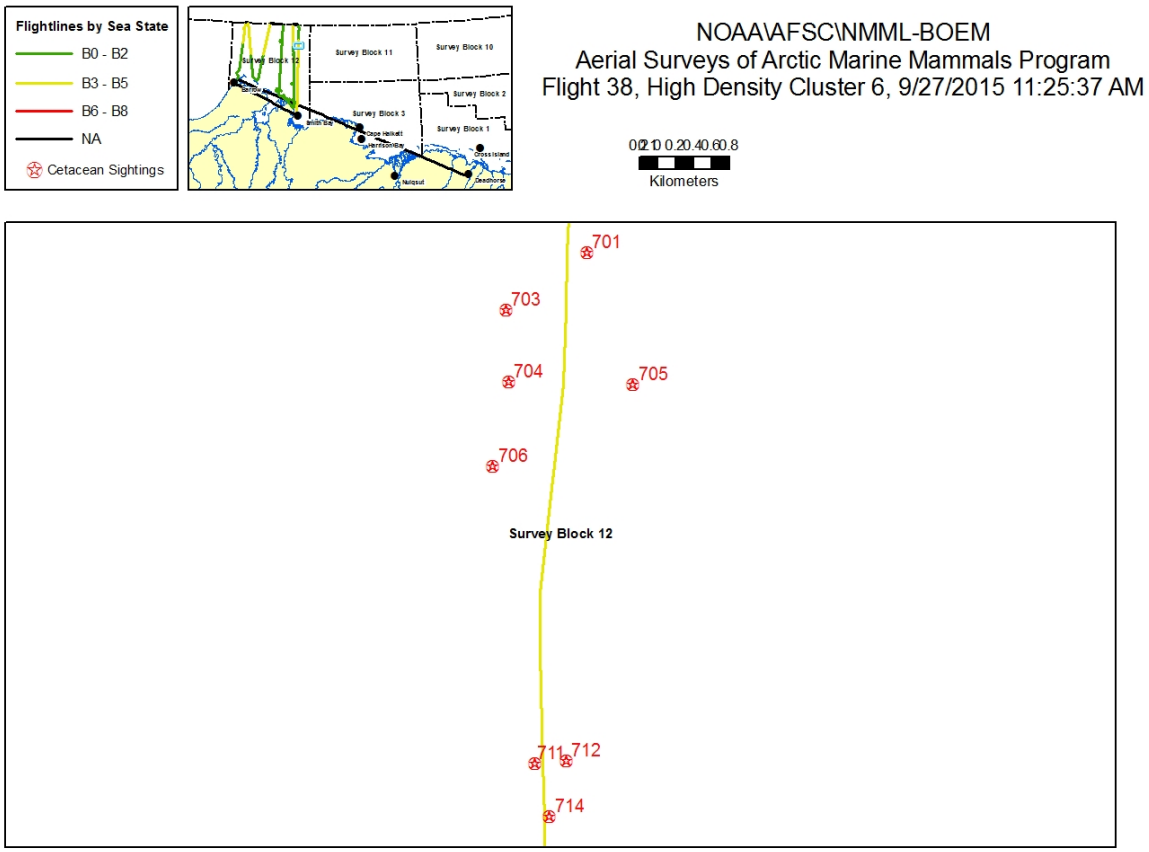




NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 38, High Density Cluster 5, 9/27/2015 11:25:37 AM

0 0.125 0.25 0.5 0.75 1
Kilometers





Bowhead whales sighted skim feeding in the western Alaskan Beaufort Sea, ~60 km SE of Point Barrow (Event 492), ASAMM-Beaufort Flight 38, 27 September 2015. These whales were a part of a larger group of 18 bowhead whales.

Bowhead whale feeding aggregation sighted in the western Alaskan Beaufort Sea, ~75 km SE of Point Barrow (Event 563), ASAMM-Beaufort Flight 38, 27 September 2015. These whales were a part of a larger group of approximately 40 feeding bowhead whales.

Two bowhead whales sighted feeding in the western Alaskan Beaufort Sea, ~75 km SE of Point Barrow (Event 563), ASAMM-Beaufort Flight 38, 27 September 2015. These whales were a part of a larger group of approximately 40 feeding bowhead whales. Only the upper rostrum, gum line, and baleen are visible on the whale skim feeding in the upper middle portion of the image. The second whale below it is side feeding with white chin spots, right lower lip, right baleen rack, and rostrum visible.