ASAMM-Chukchi – Flight 231 – 1 September 2015

Area flown: Arctic ACEs transects 212, 214, 216, 222, 224, 226, 228, 230, 232, 234, 236, 238, complete; and transects 218, 220, 240, 242, partial.
Total hours flown: 4.8
Total transect hours: 2.8
Number of bowhead whales seen: 17 (no calves)
Weather and visibility: Skies were overcast. Sea state ranged from Beaufort 2 to 5. Visibility ranged from 0 km to unlimited, with precipitation and low ceilings. There was no sea ice in the area surveyed. Low ceilings and precipitation precluded surveying in the study area.
Sightings: Bowhead whales, belugas (including 7 calves), unidentified cetaceans, walruses, unidentified pinnipeds, and small unidentified pinnipeds. There were more unidentified cetaceans than normal because the survey aircraft does not break off transect to circle sightings on the ACEs transects.

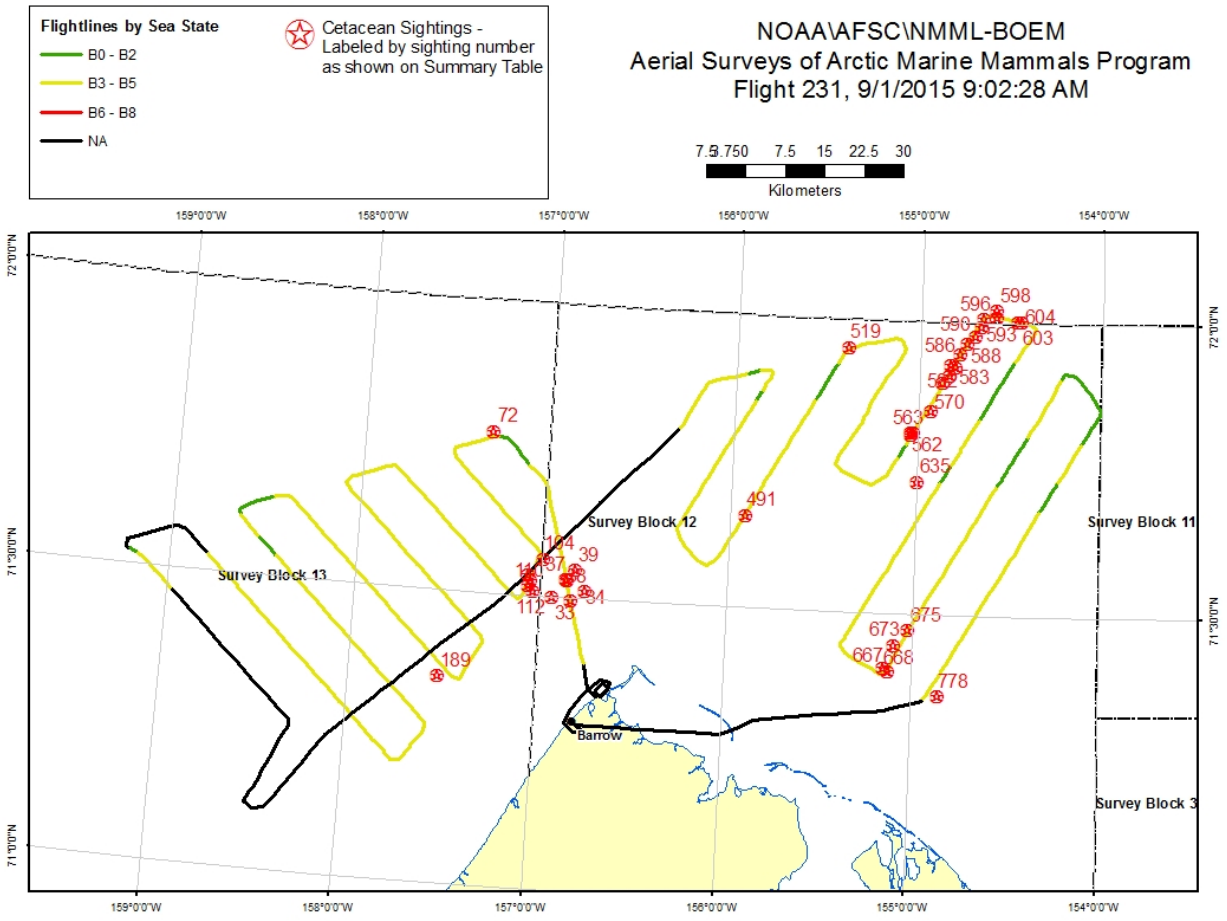
Preliminary Summary, Flight 231 Date: 9/1/2015

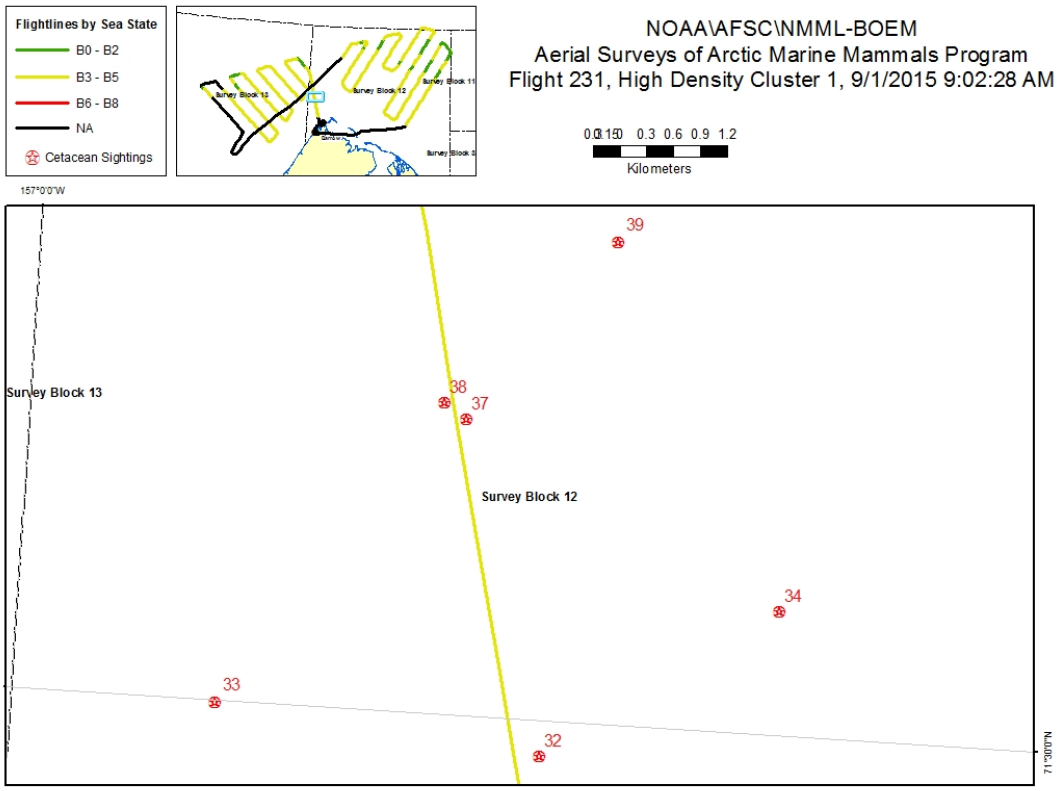
Total bowhead whales: 17	Start time: 9/1/2015 9:25:55 AM	End time: 9/1/2015 2:13:21 PM
Bowhead whale sightings: 16	Transect minutes: 166	Transect km:610.1
Bowhead whales on transect: 5	Circling minutes: 0	Circling km: 0
Bowhead whale cow-calf pairs: 0	Trans+Circ minutes: 166	Trans+Circ km: 610.1
Bowhead whale cow-calf pairs on transect: 0	Search minutes: 55	Search km: 195.3
Bowhead whale repeats: 0	Total minutes: 288	Total km: 1091.9
Possible repeats: 0	Deadhead minutes: 67	Deadhead km: 286.5
Total gray whales: 0	Search blocks: 12, 13, 0	
Total belugas: 49	Transect blocks: 13, 12	
Other whale sightings: 8		
Walruses: Yes		
Total polar bears: 0		

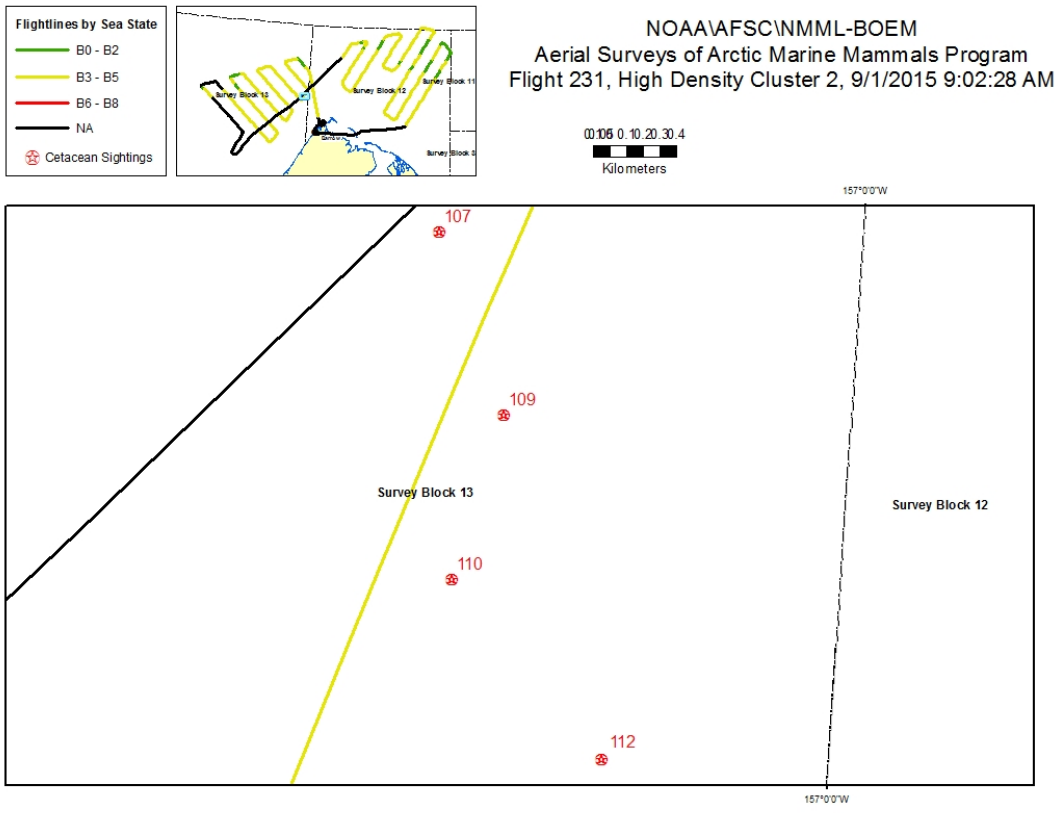
Cetacean Sightings:

Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
32	71.5	-156.84	12	bowhead whale	1	0	rest	-1	False
33	71.51	-156.85	12	unid cetacean	1	0	unknown	-1	False
34	71.51	-156.85	12	bowhead whale	1	0	unknown	-1	False
37	71.53	-156.87	12	bowhead whale	2	0	swim	347	False
38	71.53	-156.87	12	bowhead whale	1	0	rest	-1	False
39	71.54	-156.88	12	unid cetacean	1	0	unknown	-1	False
72	71.77	-157.3	13	unid cetacean	1	0	unknown	-1	False
104	71.57	-157.01	12	bowhead whale	1	0	swim	145	False
107	71.53	-157.06	13	bowhead whale	1	0	dive	-1	False
109	71.53	-157.07	13	bowhead whale	1	0	swim	19	False
110	71.52	-157.08	13	bowhead whale	1	0	swim	138	False
112	71.51	-157.08	13	unid cetacean	1	0	unknown	-1	False
189	71.36	-157.48	13	unid cetacean	1	0	unknown	-1	True
491	71.66	-155.92	12	bowhead whale	1	0	rest	-1	True
519	71.95	-155.38	12	bowhead whale	1	0	swim	26	False
562	71.8	-155.04	12	bowhead whale	1	0	rest	-1	False
563	71.81	-155.03	12	bowhead whale	1	0	rest	-1	True
565	71.81	-155.03	12	bowhead whale	1	0	rest	-1	True
570	71.85	-154.95	12	unid cetacean	1	0	dive	-1	True
575	71.9	-154.87	12	beluga	2	1	rest	-1	True
578	71.91	-154.84	12	beluga	5	1	rest	-1	True
582	71.92	-154.82	12	beluga	5	0	rest	-1	True
583	71.92	-154.81	12	beluga	5	1	rest	-1	True
586	71.94	-154.78	12	beluga	7	0	swim	209	True
588	71.96	-154.74	12	beluga	5	1	swim	210	True
590	71.98	-154.71	12	beluga	1	0	swim	210	True

593	72	-154.68	12	beluga	3	0	swim	210	True
596	72.01	-154.66	0	beluga	2	0	rest	-1	False
598	72.01	-154.59	0	beluga	1	0	swim	277	False
600	72.01	-154.58	0	beluga	2	1	rest	-1	False
603	72	-154.46	0	beluga	7	2	swim	-1	False
604	72	-154.45	0	beluga	2	0	swim	-1	False
635	71.71	-154.9	12	unid cetacean	1	0	swim	331	True
667	71.4	-155.12	12	unid cetacean	1	0	dive	-1	False
668	71.4	-155.12	12	bowhead whale	1	0	swim	-1	False
673	71.44	-155.07	12	bowhead whale	1	0	swim	360	True
675	71.47	-155.02	12	beluga	2	0	swim	-1	True
778	71.37	-154.9	12	bowhead whale	1	0	swim	360	True

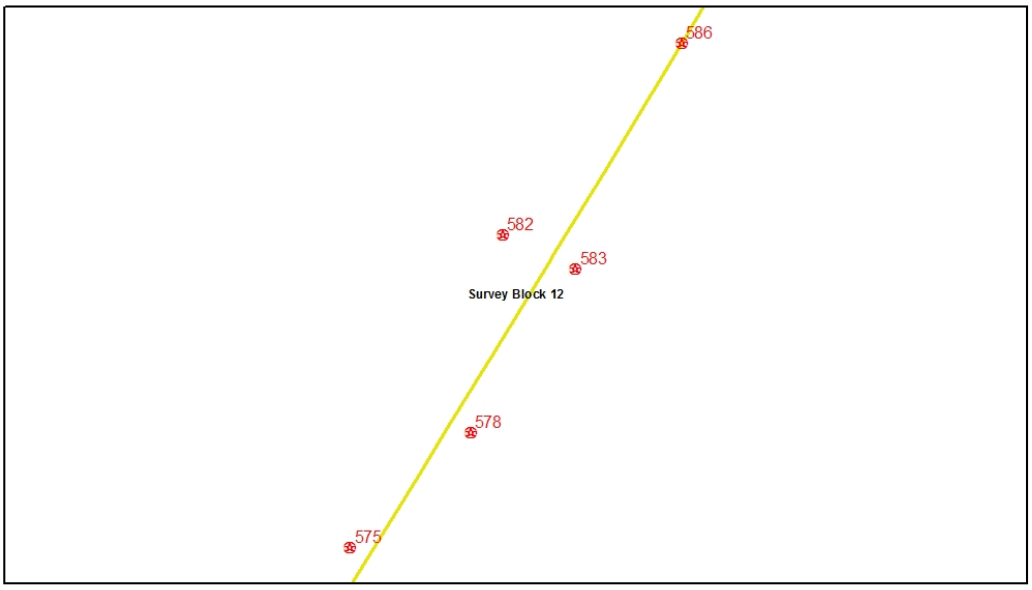


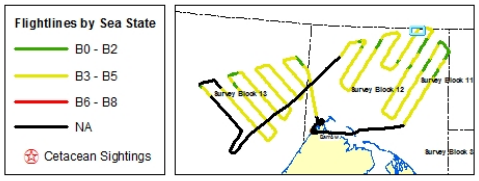

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Survey Block 13
Survey Block 12
Survey Block 11
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 231, High Density Cluster 1, 9/1/2015 9:02:28 AM
0.3 0.6 0.9 1.2
Kilometers
157°0'0"W
39
38
37
34
33
32
Survey Block 13
Survey Block 12
71°30'0"N
71°30'0"N


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Survey Block 13
Survey Block 12
Survey Block 11
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 231, High Density Cluster 2, 9/1/2015 9:02:28 AM
0.1 0.2 0.3 0.4
Kilometers
157°0'0"W
107
109
110
112
Survey Block 13
Survey Block 12
157°0'0"W

NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 231, High Density Cluster 3, 9/1/2015 9:02:28 AM

0.0 0.1 0.2 0.4 0.6 0.8
Kilometers





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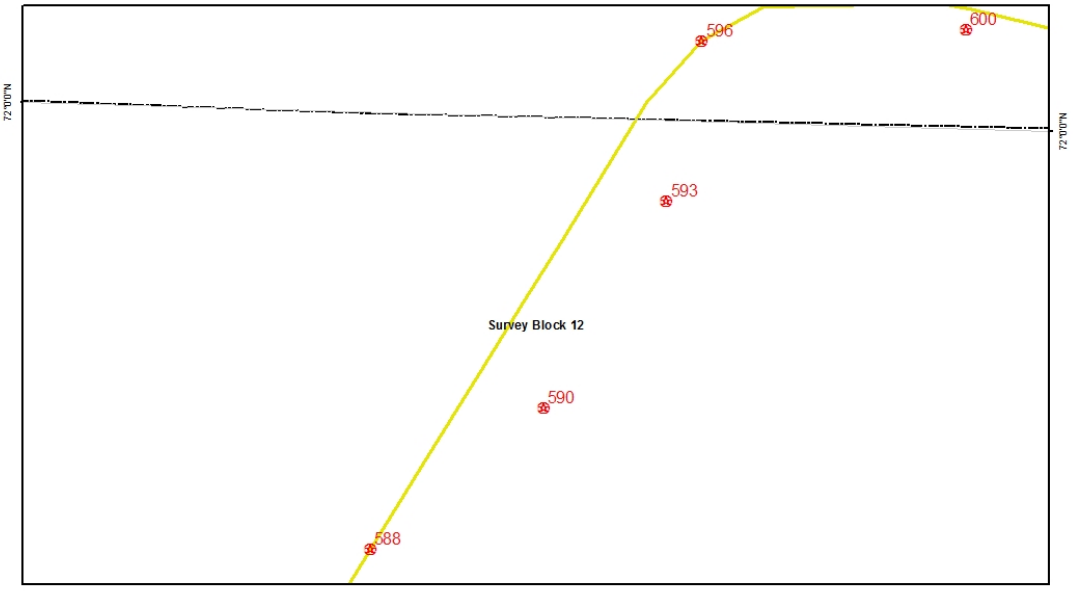
0.0 0.1 0.2 0.4 0.6 0.8
Kilometers