ASAMM-Chukchi – Flight 231 – 28 August 2016

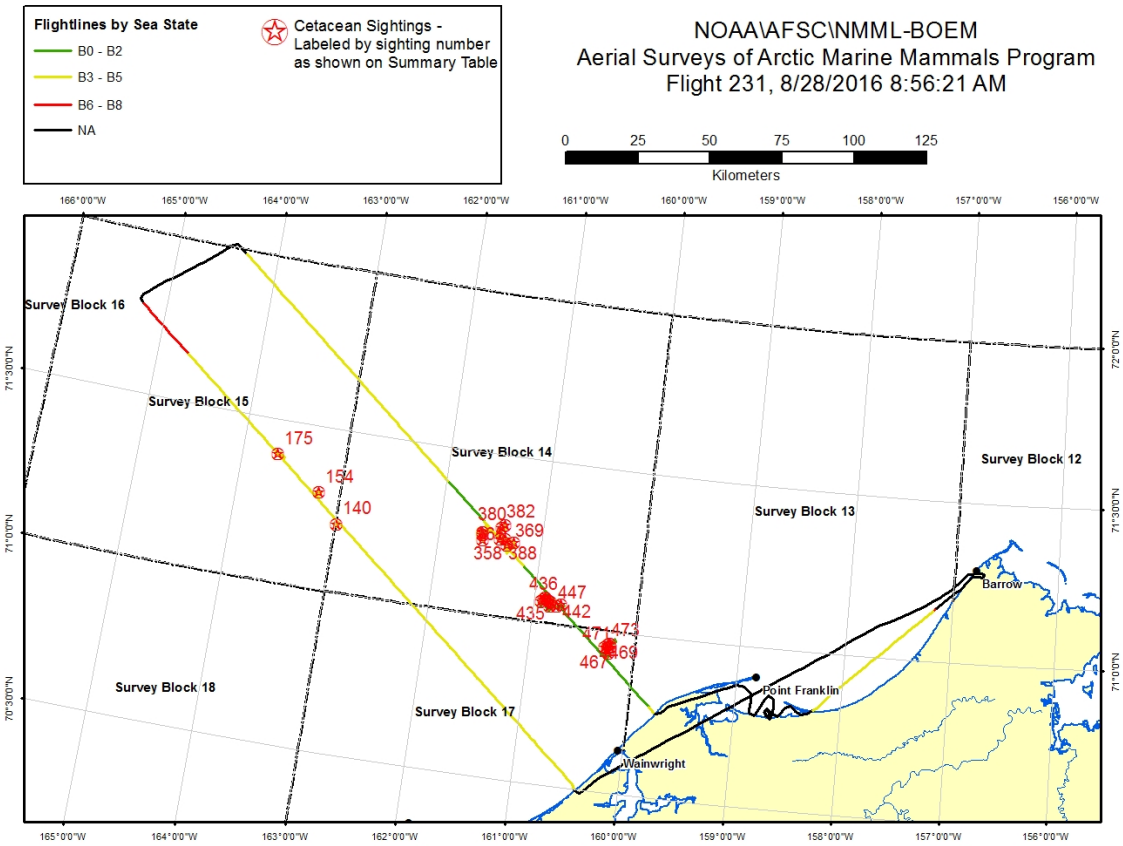
Area flown: Transect 9, complete; transect 11, partial; search effort between Point Franklin and Barrow.
Total hours flown: 4.4
Total transect hours: 2.0
Number of bowhead whales seen: 4 (0 calves)
Weather and visibility: Skies were partly cloudy to overcast. Sea state ranged from Beaufort 2-6. Visibility ranged from <1 km to 5 km, with fog, glare, haze, and low ceilings. Sea ice ranged from 0-3% broken floe ice in the area surveyed. High sea states offshore prevented complete coverage of transect 11.
Sightings: Bowhead whales, gray whales (including 6 calves), 1 unidentified cetacean, 1 bearded seal, unidentified pinnipeds, and 1 small unidentified pinniped.

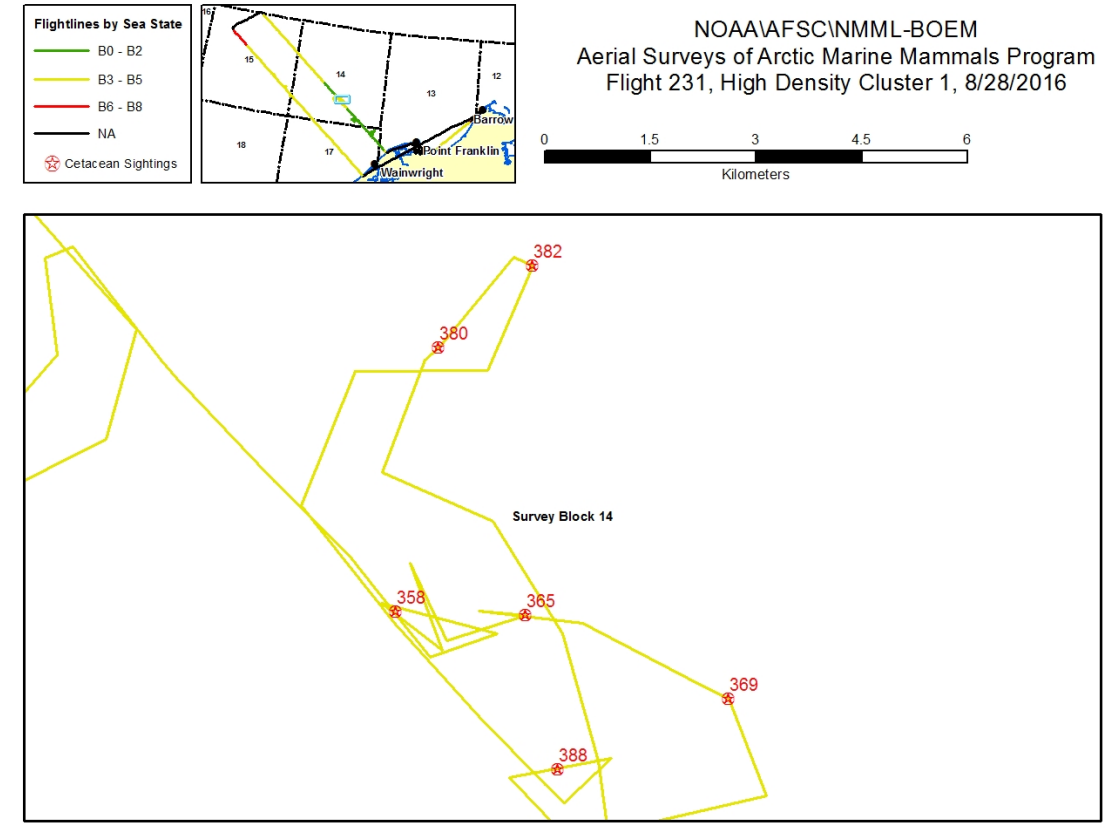
Preliminary Summary, Flight 231 Date: Sunday, August 28, 2016

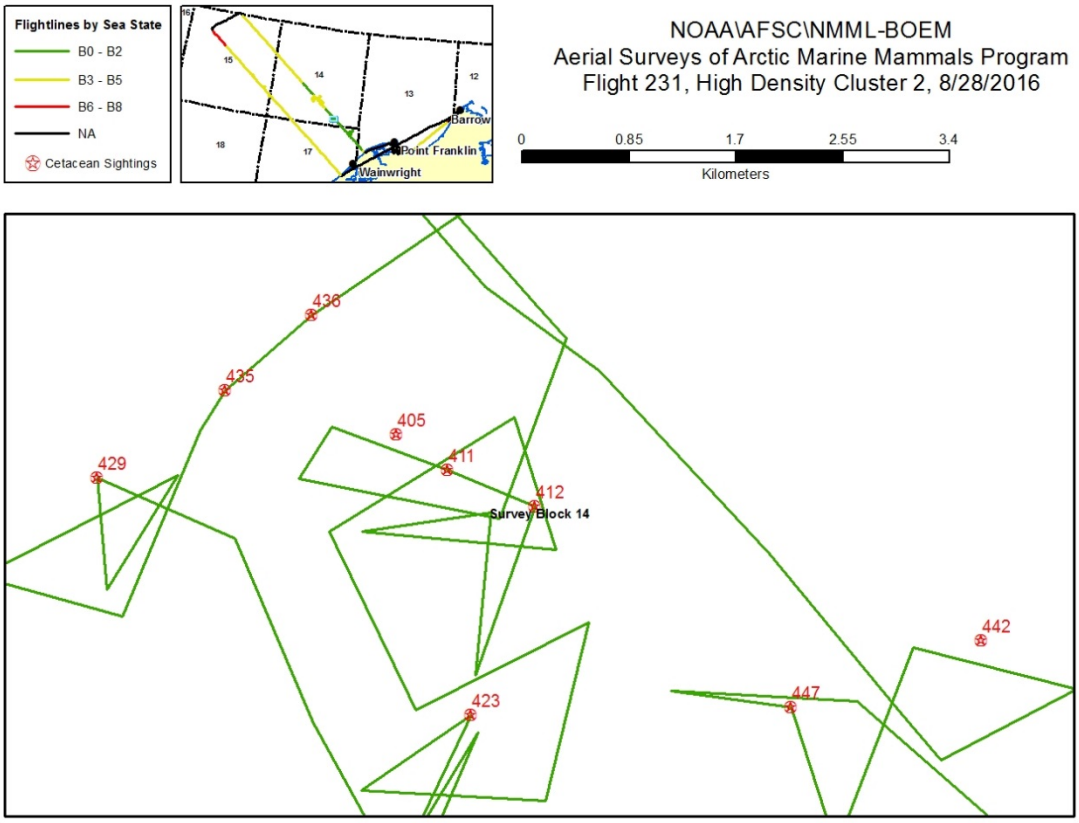
Total bowhead whales: 4	Start time: 8/28/2016 9:06:24 AM	End time: 8/28/2016 1:29:26 PM
Bowhead whale sightings: 2	Transect minutes: 120	Transect km: 430.4
Bowhead whales on transect: 4	Circling minutes: 63	Circling km: 186.3
Bowhead whale cow-calf pairs: 0	Trans+Circ minutes: 183	Trans+Circ km: 616.7
Bowhead whale cow-calf pairs on transect: 0	Search minutes: 10	Search km: 56.7
Bowhead whale repeats: 0	Total minutes: 263	Total km: 996
Possible repeats: 0	Deadhead minutes: 70	Deadhead km: 322.6
Total gray whales: 54	Search blocks: 13,15	
Total belugas: 0	Transect blocks: 13,14,15,17	
Other whale sightings: 1		
walrus: no		
Total polar bears: 0		

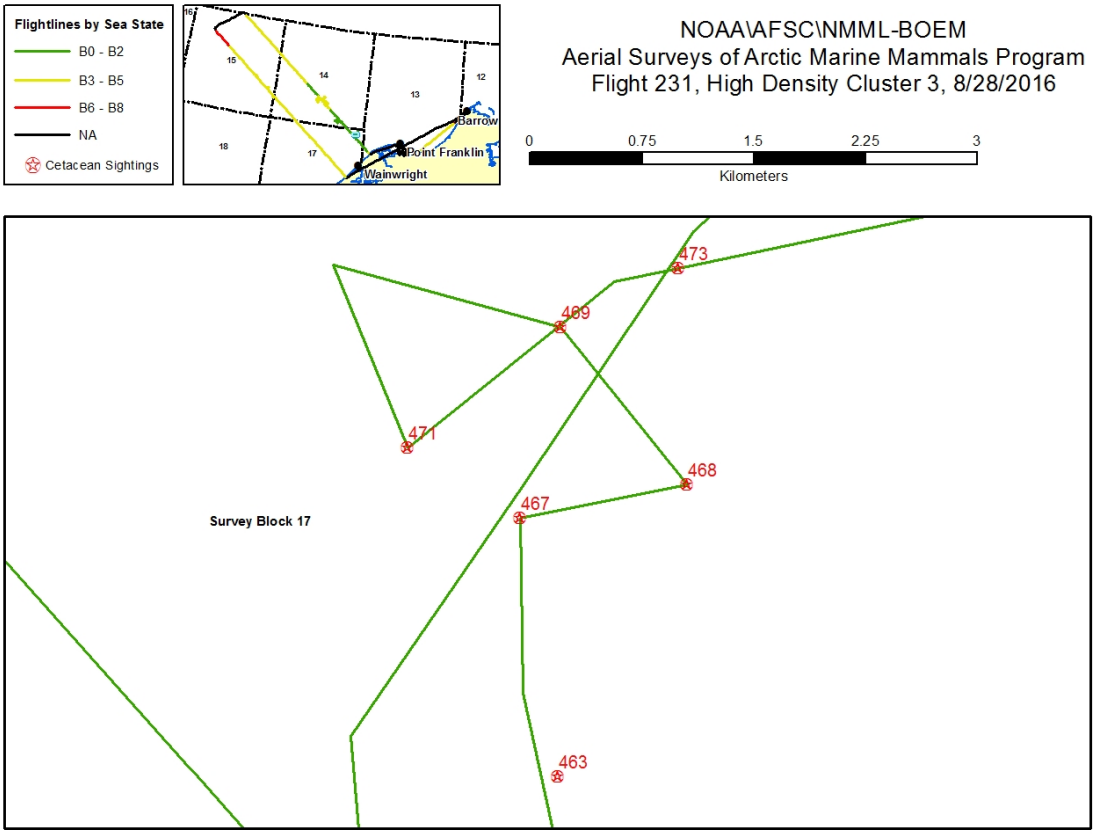
Cetacean Sightings:

Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
140	71.22	-162.96	14	bowhead whale	1	0	rest	-1	True
154	71.28	-163.23	15	bowhead whale	3	0	mill	-1	True
175	71.39	-163.65	15	unid cetacean	1	0	dive	-1	False
323	71.27	-161.53	14	gray whale	2	1	feed	-1	True
338	71.23	-161.57	14	gray whale	1	0	feed	-1	False
342	71.25	-161.57	14	gray whale	1	0	feed	-1	False
358	71.24	-161.4	14	gray whale	1	0	feed	-1	True
365	71.24	-161.35	14	gray whale	1	0	feed	-1	False
369	71.23	-161.26	14	gray whale	1	0	feed	-1	False
380	71.27	-161.4	14	gray whale	1	0	feed	-1	False
382	71.29	-161.36	14	gray whale	2	0	feed	-1	False
388	71.22	-161.33	14	gray whale	1	0	feed	-1	True
405	71.08	-160.84	14	gray whale	1	0	feed	-1	True
411	71.07	-160.86	14	gray whale	2	0	feed	-1	False
412	71.07	-160.84	14	gray whale	2	1	swim	-1	False
423	71.05	-160.84	14	gray whale	4	0	rest	-1	False
429	71.07	-160.93	14	gray whale	11	1	feed	-1	False
435	71.07	-160.91	14	gray whale	1	1	rest	-1	False
436	71.08	-160.89	14	gray whale	2	1	swim	-1	False
442	71.06	-160.75	14	gray whale	1	0	feed	-1	True
447	71.06	-160.77	14	gray whale	2	0	feed	-1	False
463	70.92	-160.27	17	gray whale	1	0	feed	-1	True
467	70.95	-160.25	17	gray whale	1	0	feed	-1	False
468	70.95	-160.22	17	gray whale	1	0	feed	-1	False
469	70.96	-160.25	17	gray whale	2	1	swim	-1	False
471	70.95	-160.27	17	gray whale	5	0	feed	-1	False
473	70.96	-160.23	17	gray whale	7	0	feed	-1	False


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 231, 8/28/2016 8:56:21 AM
0 25 50 75 100 125
Kilometers
Survey Block 16
Survey Block 15
Survey Block 14
Survey Block 13
Survey Block 12
Survey Block 18
Survey Block 17
175
154
140
380
382
369
358
388
436
447
435
442
471
473
467
469
Barrow
Point Franklin
Wainwright


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 231, High Density Cluster 1, 8/28/2016
0 1.5 3 4.5 6
Kilometers
Barrow
Point Franklin
Wainwright
Survey Block 14
382
380
358
365
369
388


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Barrow
Point Franklin
Wainwright
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 231, High Density Cluster 2, 8/28/2016
0
0.85
1.7
2.55
3.4
Kilometers
436
435
405
411
429
412
Survey Block 14
442
447
423


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Barrow
Point Franklin
Wainwright
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 231, High Density Cluster 3, 8/28/2016
0
0.75
1.5
2.25
3
Kilometers
473
469
471
468
467
Survey Block 17
463