ASAMM-Beaufort – Flight 6 – 29 July 2017

Area flown: Block 1, 5 complete transects; block 2, 5 complete transects; block 4, 3 complete transects; block 5, 2 complete transects; block 6, 3 complete transects; block 7, 4 complete transects.
Total hours flown: 9.4 (2 flights)
Total transect hours: 5.9
Number of bowhead whales seen: 27 (6 calves)
Weather and visibility: Skies were clear to partly cloudy. Sea state ranged from Beaufort 1 to 5. Visibility ranged from 5 km to unlimited, with haze and glare. Sea ice ranged from 0 to 15 percent broken floe in the area surveyed.
Sightings: Bowhead whales, belugas (including 31 calves), small unidentified pinnipeds, and polar bears. One polar bear was resting on the barrier island spit directly south of Cross Island, and one polar bear was swimming near 9% broken floe sea ice, approximately 90 km from shore north of Deadhorse.

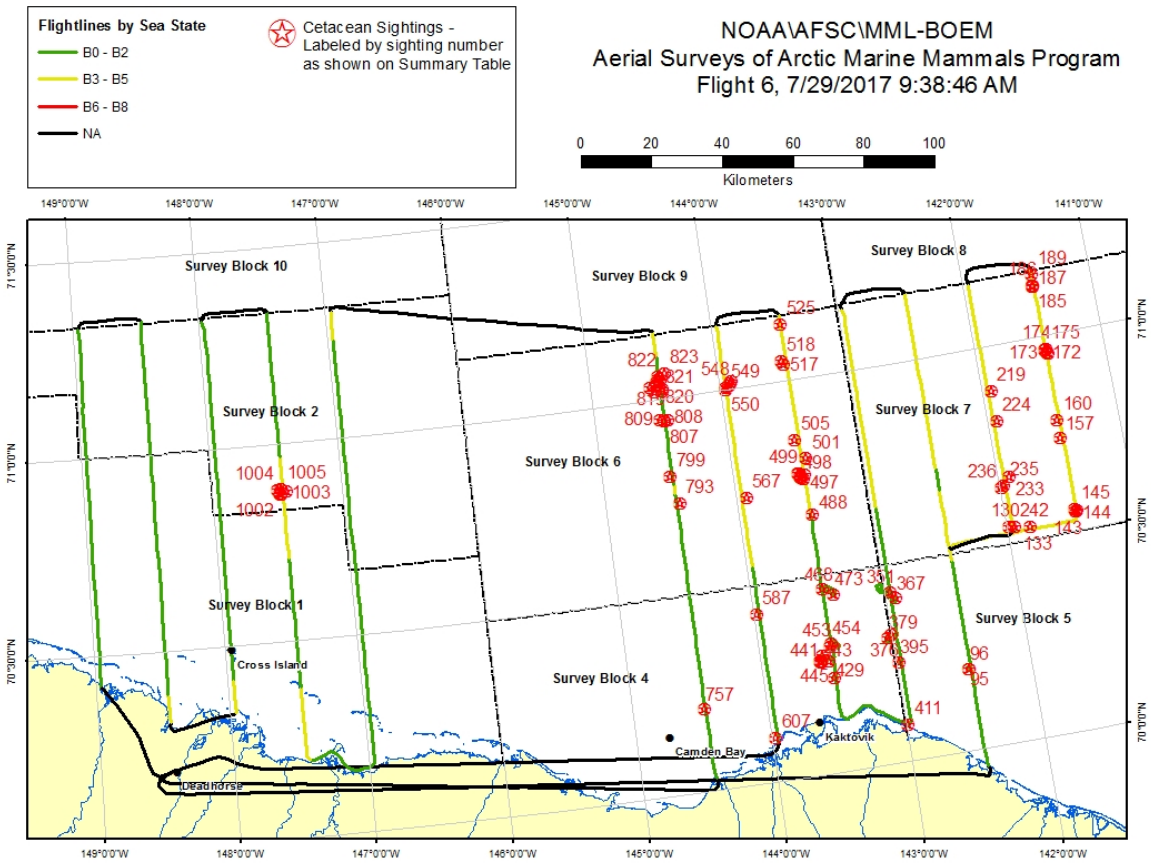
Preliminary Summary, Flight 6 Date: Saturday, July 29, 2017

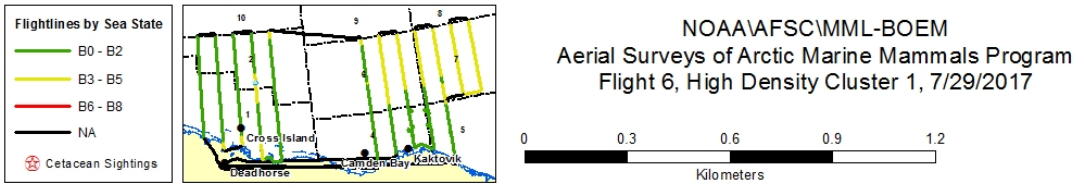
Total bowhead whales: 27	Start time: 7/29/2017 9:38:46 AM	End time: 7/29/2017 7:55:03 PM
Bowhead whale sightings: 17	Transect minutes: 354	Transect km: 1331.7
Bowhead whales on transect: 12	Circling minutes: 29	Circling km: 89.5
Bowhead whale calves: 6	Trans+Circ minutes: 383	Trans+Circ km: 1421.2
Bowhead whale calves on transect: 2	Search minutes: 24	Search km: 89.6
Bowhead whale repeats: 0	Total minutes: 562	Total km: 2365.8
Possible repeats: 0	Deadhead minutes: 155	Deadhead km: 855
Total gray whales: 0	Search blocks: 1,4,5,7,8,9,10	
Total belugas: 174	Transect blocks: 1,2,4,5,6,7	
Other whale sightings: 0		
walrus: no		
Total polar bears: 2		

Cetacean Sightings:

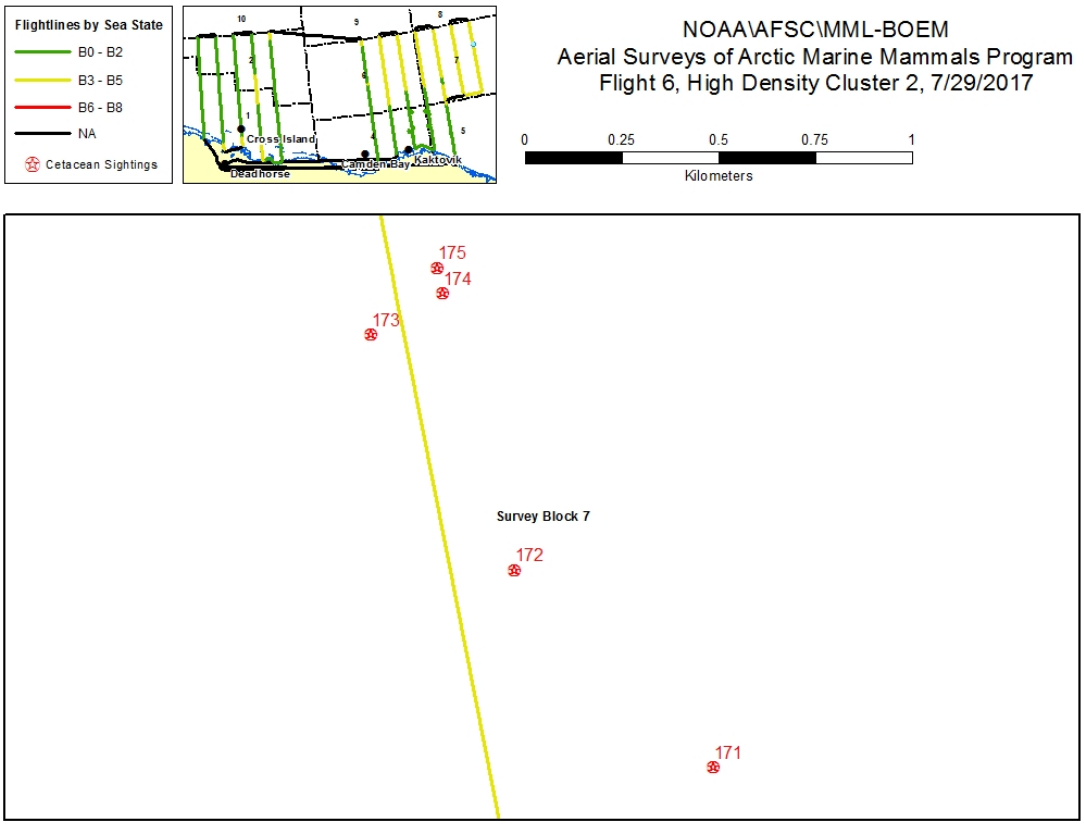
Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
95	70.21	-142.45	5	bowhead whale	1	0	swim	209	True
96	70.21	-142.45	5	bowhead whale	1	0	swim	209	True
130	70.52	-141.98	7	beluga	2	0	swim	271	False
133	70.53	-141.83	7	beluga	1	0	swim	180	False
143	70.55	-141.46	7	beluga	2	1	swim	273	True
144	70.55	-141.46	7	beluga	2	1	swim	60	True
145	70.56	-141.46	7	beluga	2	1	swim	270	True
157	70.74	-141.46	7	beluga	2	1	swim	270	True
160	70.78	-141.46	7	beluga	6	0	swim	300	True
171	70.95	-141.46	7	beluga	2	0	swim	240	True
172	70.96	-141.46	7	beluga	5	0	swim	270	True
173	70.96	-141.46	7	beluga	12	1	swim	240	True
174	70.97	-141.46	7	beluga	1	0	swim	269	True
175	70.97	-141.46	7	beluga	1	0	swim	269	True
185	71.13	-141.46	7	beluga	2	1	swim	270	True
186	71.13	-141.46	7	beluga	1	0	swim	270	True
187	71.13	-141.46	7	beluga	2	0	swim	270	True
189	71.16	-141.46	7	beluga	2	1	swim	271	True
219	70.89	-141.96	7	beluga	9	1	swim	300	True
224	70.81	-141.96	7	beluga	1	0	swim	300	True
233	70.67	-141.96	7	beluga	1	0	swim	240	True
235	70.65	-141.96	7	beluga	2	1	swim	270	True
236	70.64	-141.96	7	beluga	1	0	swim	270	True
242	70.54	-141.96	7	beluga	1	0	swim	240	True
351	70.43	-142.96	5	bowhead whale	2	1	rest	-1	False
367	70.41	-142.95	5	bowhead whale	1	0	swim	304	True
376	70.32	-142.96	5	bowhead whale	2	1	swim	60	True
379	70.32	-143.03	4	bowhead whale	1	0	rest	-1	False

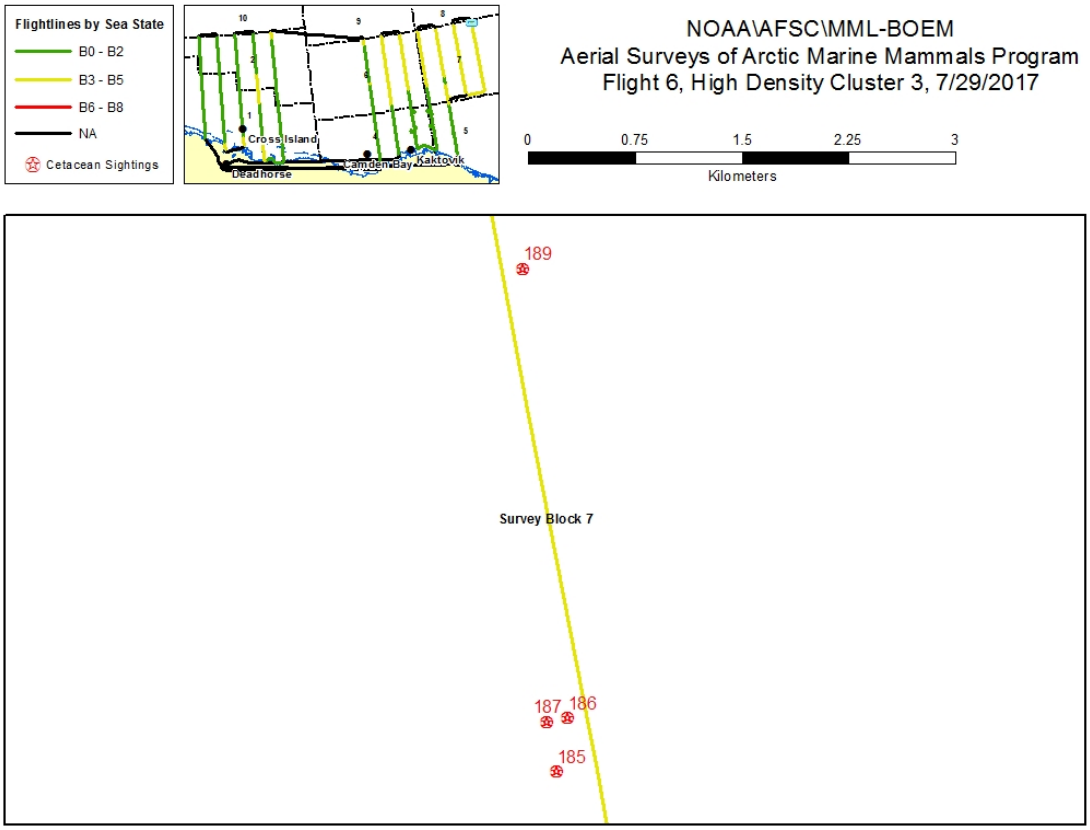
395	70.25	-142.96	5	bowhead whale	1	0	swim	180	True
411	70.09	-142.98	5	beluga	2	1	swim	275	False
429	70.24	-143.46	4	bowhead whale	2	1	swim	94	True
436	70.28	-143.46	4	bowhead whale	3	0	swim	-1	True
440	70.28	-143.54	4	bowhead whale	2	1	rest	-1	False
441	70.28	-143.55	4	bowhead whale	2	0	rest	-1	False
443	70.3	-143.53	4	bowhead whale	3	1	rest	-1	False
445	70.29	-143.55	4	bowhead whale	1	0	rest	-1	False
453	70.32	-143.45	4	beluga	1	0	swim	87	True
454	70.33	-143.45	4	bowhead whale	1	0	rest	-1	False
468	70.46	-143.46	4	bowhead whale	2	1	rest	-1	False
473	70.45	-143.38	4	bowhead whale	1	0	rest	-1	False
488	70.65	-143.46	6	beluga	2	1	swim	90	True
494	70.75	-143.46	6	beluga	1	0	swim	270	True
495	70.75	-143.46	6	beluga	2	1	swim	270	True
496	70.75	-143.46	6	beluga	1	0	swim	270	True
497	70.76	-143.46	6	beluga	2	1	swim	270	True
498	70.76	-143.46	6	beluga	1	0	swim	270	True
499	70.77	-143.46	6	beluga	1	0	swim	270	True
501	70.8	-143.46	6	beluga	1	0	swim	270	True
505	70.85	-143.46	6	beluga	1	0	swim	330	True
517	71.04	-143.46	6	beluga	3	2	swim	270	True
518	71.05	-143.46	6	beluga	3	0	swim	270	True
525	71.14	-143.46	6	beluga	2	0	swim	270	False
546	71.02	-143.96	6	beluga	4	0	swim	300	True
547	71.02	-143.96	6	beluga	1	0	swim	300	True
548	71.01	-143.96	6	beluga	9	1	swim	300	True
549	71.01	-143.96	6	beluga	27	6	swim	90	True
550	71	-143.96	6	beluga	7	1	swim	301	True
567	70.72	-143.96	6	beluga	1	0	swim	30	True
587	70.43	-143.96	4	beluga	1	0	swim	90	True
607	70.11	-143.96	4	beluga	1	0	swim	-1	True
757	70.21	-144.46	4	bowhead whale	1	0	swim	182	True
793	70.73	-144.46	6	beluga	2	1	swim	-1	True
799	70.8	-144.46	6	beluga	2	1	swim	212	True
807	70.94	-144.46	6	beluga	2	1	swim	271	True
808	70.95	-144.46	6	beluga	1	0	swim	271	True
809	70.95	-144.46	6	beluga	1	0	swim	301	True
814	71.02	-144.46	6	beluga	1	0	swim	270	True
815	71.02	-144.46	6	beluga	1	0	swim	270	True
816	71.03	-144.46	6	beluga	1	0	swim	270	True
817	71.03	-144.46	6	beluga	1	0	swim	270	True
818	71.04	-144.46	6	beluga	3	0	swim	271	True
819	71.04	-144.46	6	beluga	2	1	swim	270	True
820	71.05	-144.46	6	beluga	2	1	swim	269	True
821	71.05	-144.46	6	beluga	2	2	swim	267	True
822	71.06	-144.46	6	beluga	1	1	swim	-1	True
823	71.06	-144.46	6	beluga	1	0	swim	267	True
1001	70.87	-147.46	2	beluga	1	0	swim	90	True
1002	70.88	-147.46	2	beluga	1	0	swim	90	True
1003	70.88	-147.46	2	beluga	4	0	swim	121	True
1004	70.88	-147.46	2	beluga	7	0	swim	93	True
1005	70.89	-147.46	2	beluga	4	0	swim	93	True

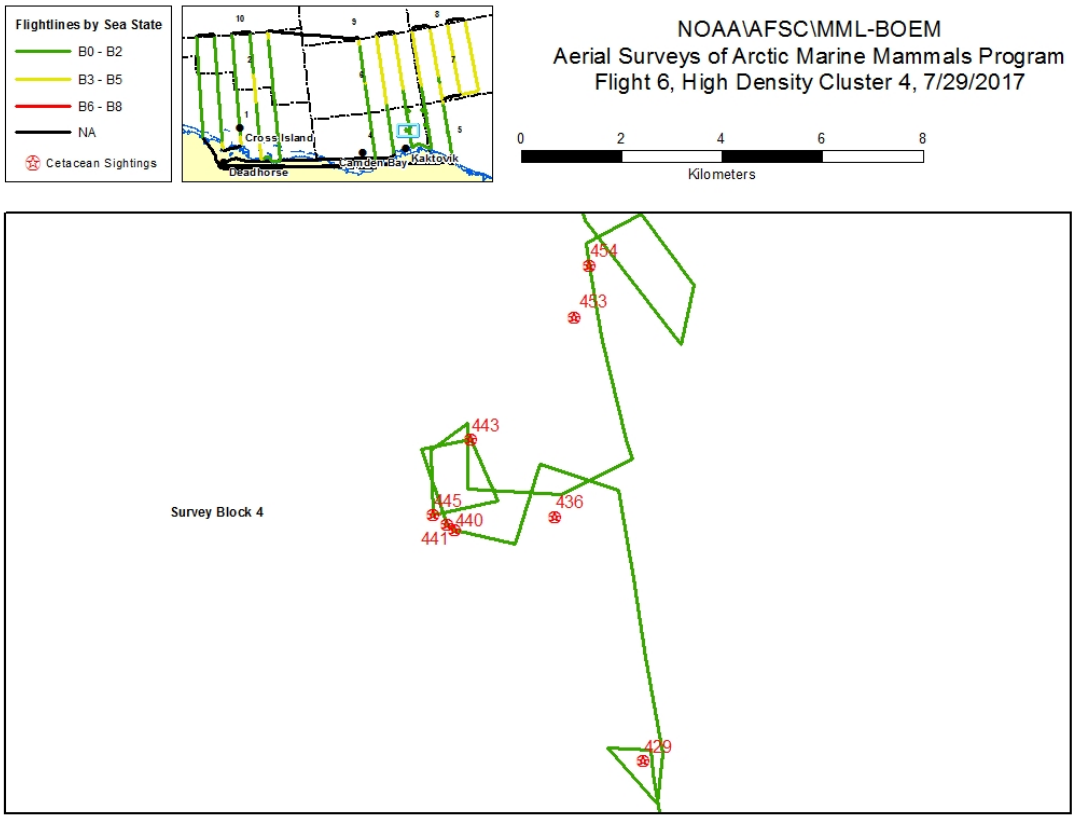

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings - Labeled by sighting number as shown on Summary Table
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, 7/29/2017 9:38:46 AM
0 20 40 60 80 100
Kilometers
Survey Block 10
Survey Block 9
Survey Block 8
Survey Block 7
Survey Block 6
Survey Block 5
Survey Block 4
Survey Block 2
Survey Block 1
Cross Island
Deadhorse
Camden Bay
Kaktovik

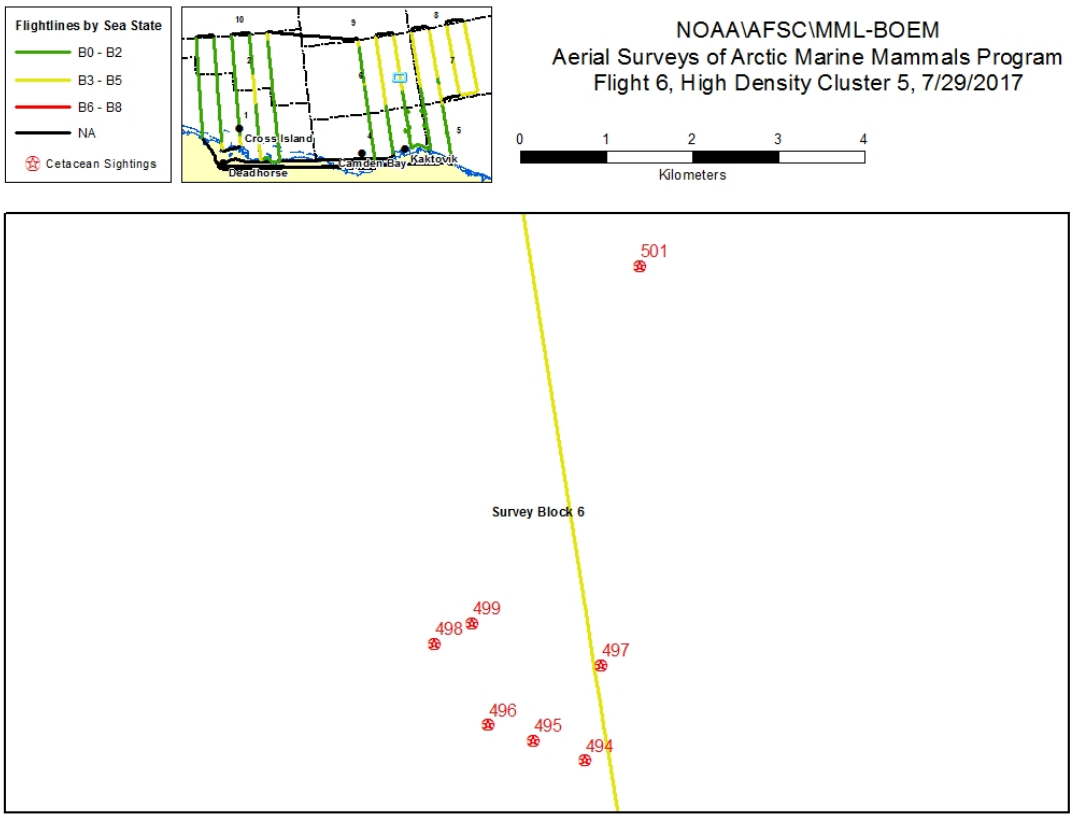

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 1, 7/29/2017
0 0.3 0.6 0.9 1.2
Kilometers

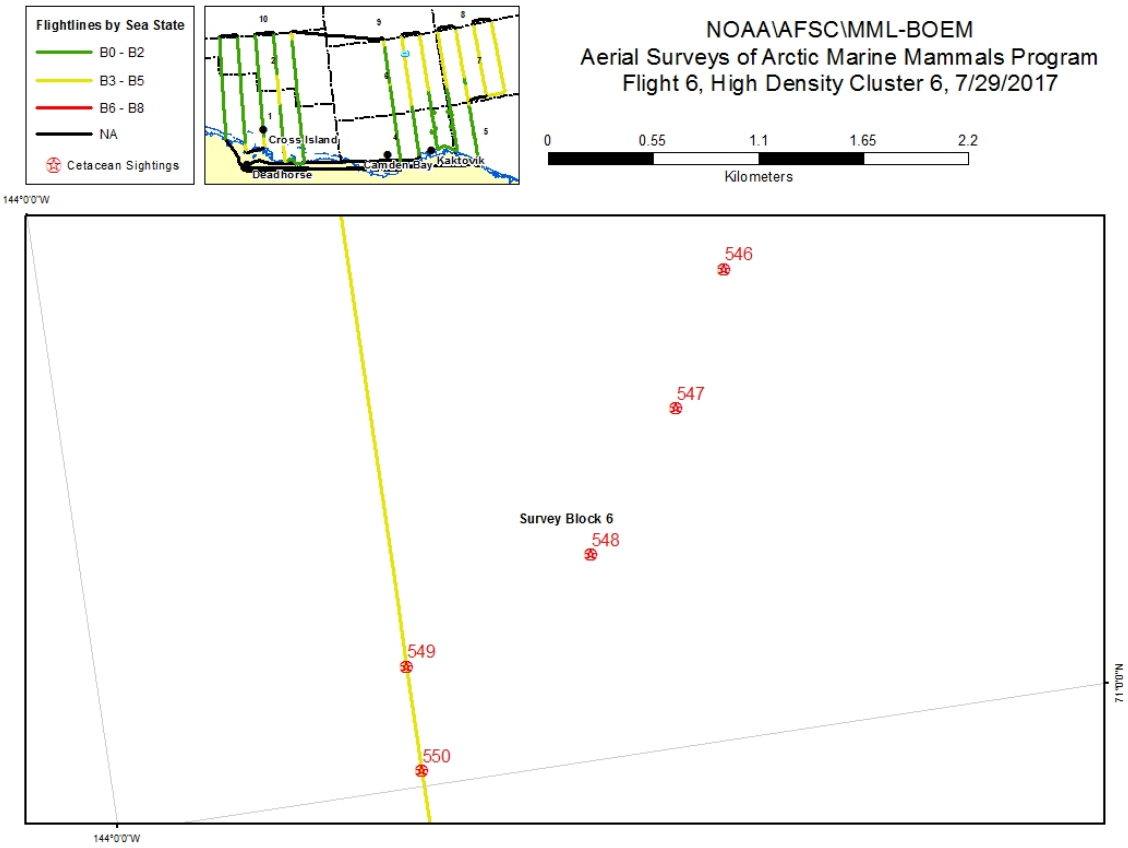
1005
1004
1003
Survey Block 2
1002
1001

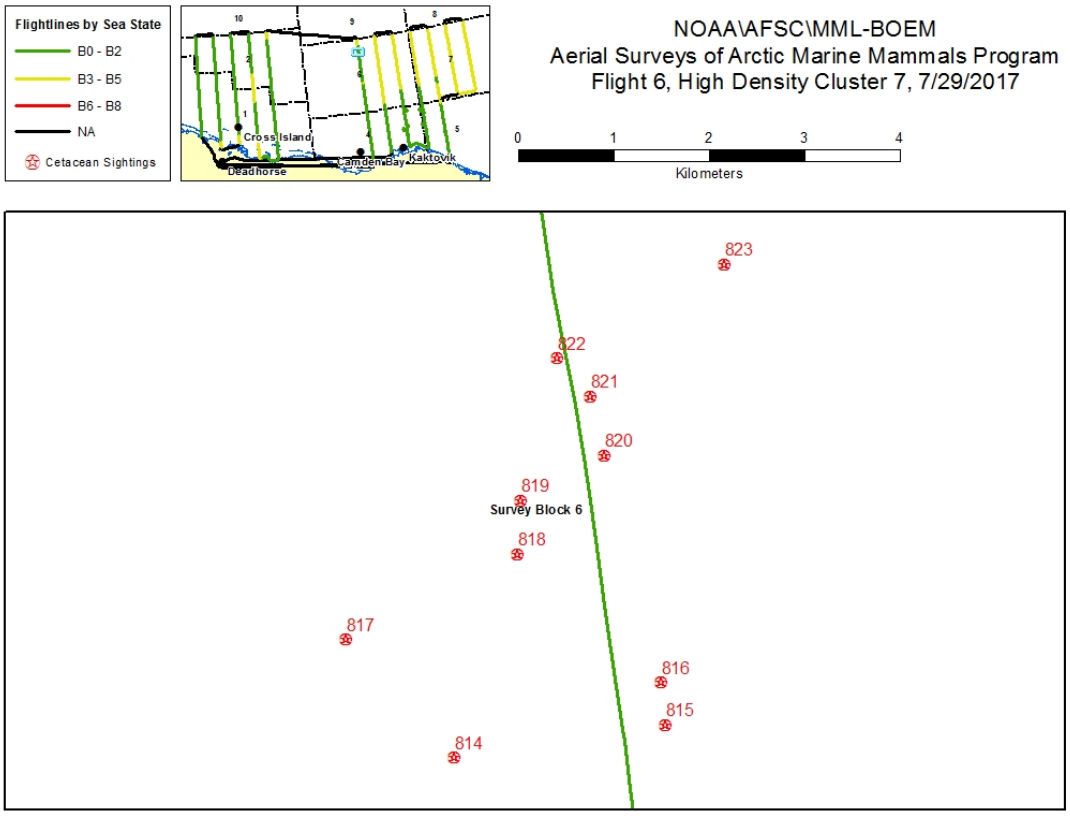

Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 2, 7/29/2017
0
0.25
0.5
0.75
1
Kilometers
175
174
173
Survey Block 7
172
171


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 3, 7/29/2017
0
0.75
1.5
2.25
3
Kilometers
189
Survey Block 7
187
186
185


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 4, 7/29/2017
0 2 4 6 8
Kilometers
Survey Block 4
454
453
443
445
440
441
436
429


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 5, 7/29/2017
0 1 2 3 4
Kilometers
Survey Block 6
501
499
498
497
496
495
494


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 6, 7/29/2017
0
0.55
1.1
1.65
2.2
Kilometers
144°0'0"W
546
547
Survey Block 6
548
549
550
71°0'0"N
144°0'0"W


Flightlines by Sea State
B0 - B2
B3 - B5
B6 - B8
NA
Cetacean Sightings
Cross Island
Deadhorse
Camden Bay
Kaktovik
NOAA\AFSC\MML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 6, High Density Cluster 7, 7/29/2017
0
1
2
3
4
Kilometers
823
822
821
820
819
Survey Block 6
818
817
816
815
814