ASAMM-Chukchi – Flight 232 – 4 September 2014

Area flown: Transects 34, 35, 38, 39, complete; transect 36 partial
Total hours flown: 9.7 (2 flights)
Total transect hours: 2.5
Number of bowheads seen: 0 (0 calves)
Weather and visibility: Skies were partly cloudy to clear. Sea state ranged from Beaufort 1-3. Visibility varied from 1 km to unlimited, with glare, fog, and low ceilings. There was no sea ice in the area surveyed.
Sightings: Gray whales (including one calf), fin whales, humpback whales (including two calves), one minke whale, walruses, unidentified pinnipeds, and small unidentified pinnipeds. One dead gray whale and one dead walrus were also seen.

Preliminary Summary, Flight 232 Date: 9/4/2014

Total bowhead whales: 0	Start time: 9/4/2014 11:44:44 AM	End time: 9/4/2014 10:04:31 PM
Bowhead whale sightings: 0	Transect minutes: 149	Transect km:515.8
Bowhead whales on transect: 0	Circling minutes: 173	Circling km: 515.2
Bowhead whale cow-calf pairs: 0	Trans+Circ minutes: 322	Trans+Circ km: 1031
Bowhead whale cow-calf pairs on transect: 0	Search minutes: 6	Search km: 19.6
Bowhead whale repeats: 0	Total minutes: 583	Total km: 2569.9
Possible repeats: 0	Deadhead minutes: 255	Deadhead km: 1519.3
Total gray whales: 206	Search blocks: 23, 0	
Total belugas: 0	Transect blocks: 23	
Other whale sightings: 79		
Total walrus: 2		
Total polar bears: 0		

Cetacean Sightings:

Event	Lat	Long	Block	Species	Total	Calves	Behavior	Swim Direction	On Effort
262	67.94	-168.13	23	gray whale	1	0	feed	-1	False
267	67.91	-168.12	23	gray whale	1	0	feed	-1	False
269	67.92	-168.1	23	gray whale	2	0	feed	-1	False
274	67.94	-168.14	23	gray whale	1	0	feed	-1	True
275	67.94	-168.15	23	gray whale	1	0	feed	-1	True
277	67.94	-168.16	23	gray whale	1	0	feed	-1	True
278	67.94	-168.17	23	gray whale	1	0	feed	-1	True
279	67.94	-168.18	23	gray whale	1	0	feed	-1	True
280	67.94	-168.18	23	gray whale	2	0	feed	-1	True
281	67.94	-168.19	23	gray whale	1	0	feed	-1	True
283	67.94	-168.21	23	gray whale	1	0	feed	-1	False
284	67.94	-168.22	23	gray whale	1	0	feed	-1	False
286	67.93	-168.26	23	gray whale	1	0	feed	-1	False
288	67.93	-168.24	23	gray whale	2	0	feed	-1	False
297	67.93	-168.18	23	gray whale	2	0	feed	-1	False
303	67.94	-168.27	23	gray whale	3	0	feed	-1	True
305	67.94	-168.28	23	gray whale	1	0	dead	-1	True
314	67.96	-168.25	23	gray whale	3	0	swim	-1	False
316	67.96	-168.29	23	gray whale	1	0	swim	-1	False
319	67.96	-168.3	23	gray whale	1	0	swim	-1	False
321	67.97	-168.29	23	gray whale	1	0	feed	-1	False
322	67.97	-168.32	23	gray whale	2	0	feed	-1	False
324	67.97	-168.31	23	gray whale	1	0	dive	-1	False
326	67.97	-168.34	23	gray whale	1	0	rest	-1	False
329	67.98	-168.35	23	gray whale	3	0	feed	-1	False

340	67.94	-168.36	23	gray whale	1	0	feed	-1	True
341	67.94	-168.36	23	gray whale	1	0	feed	-1	True
343	67.94	-168.37	23	gray whale	1	0	feed	-1	True
344	67.94	-168.37	23	gray whale	1	0	feed	-1	True
345	67.94	-168.39	23	gray whale	1	0	feed	-1	True
346	67.94	-168.39	23	gray whale	1	0	feed	-1	True
349	67.95	-168.41	23	gray whale	1	0	swim	-1	False
354	67.96	-168.38	23	gray whale	1	0	swim	-1	False
356	67.96	-168.36	23	gray whale	2	0	feed	-1	False
359	67.97	-168.36	23	gray whale	1	0	feed	-1	False
362	67.98	-168.39	23	gray whale	3	0	swim	-1	False
368	67.96	-168.43	23	gray whale	1	0	feed	-1	False
371	67.96	-168.43	23	gray whale	1	0	feed	-1	False
378	67.94	-168.42	23	gray whale	1	0	feed	-1	True
379	67.94	-168.42	23	gray whale	1	0	feed	-1	True
382	67.91	-168.44	23	gray whale	1	0	feed	-1	False
383	67.91	-168.43	23	gray whale	1	0	feed	-1	False
384	67.9	-168.42	23	gray whale	2	0	feed	-1	False
387	67.91	-168.42	23	gray whale	2	0	feed	-1	False
391	67.94	-168.44	23	gray whale	2	0	feed	-1	False
394	67.93	-168.45	23	gray whale	1	0	swim	-1	False
396	67.93	-168.46	23	gray whale	1	0	feed	-1	False
398	67.93	-168.49	23	gray whale	3	0	feed	-1	False
402	67.92	-168.5	23	gray whale	2	0	feed	-1	False
405	67.92	-168.55	23	gray whale	2	0	feed	-1	False
423	67.94	-168.54	23	gray whale	1	0	swim	180	True
430	67.94	-168.58	23	gray whale	1	0	swim	-1	True
431	67.94	-168.59	23	gray whale	3	1	feed	-1	True
434	67.92	-168.61	23	gray whale	1	0	dive	-1	False
441	67.94	-168.65	23	gray whale	1	0	tail slap	-1	True
446	67.95	-168.66	23	gray whale	1	0	feed	-1	False
448	67.95	-168.62	23	gray whale	2	0	swim	-1	False
449	67.95	-168.62	23	gray whale	1	0	feed	-1	False
451	67.96	-168.63	23	gray whale	5	0	feed	-1	False
455	67.94	-168.68	23	gray whale	2	0	feed	-1	False
458	67.94	-168.69	23	gray whale	1	0	feed	-1	False
463	67.94	-168.74	23	gray whale	2	0	mate	-1	True
467	67.92	-168.73	23	gray whale	1	0	.	-1	False
472	67.92	-168.75	23	gray whale	1	0	.	-1	False
473	67.92	-168.76	23	gray whale	1	0	.	-1	False
482	67.93	-168.73	23	gray whale	2	0	mate	-1	False
484	67.92	-168.74	23	gray whale	2	0	feed	-1	False
490	67.91	-168.67	23	gray whale	1	0	swim	-1	False
522	67.77	-168.23	23	gray whale	1	0	swim	269	True
529	67.77	-168.16	23	gray whale	2	0	feed	-1	True
536	67.78	-168.12	23	gray whale	1	0	.	-1	False
537	67.78	-168.12	23	gray whale	1	0	feed	-1	False
538	67.79	-168.13	23	gray whale	2	0	feed	-1	False
539	67.79	-168.13	23	gray whale	5	0	feed	-1	False
542	67.79	-168.12	23	gray whale	4	0	feed	-1	False
544	67.8	-168.12	23	gray whale	1	0	feed	-1	False
545	67.8	-168.12	23	gray whale	1	0	unknown	-1	False
549	67.82	-168.08	23	gray whale	1	0	feed	-1	False
551	67.83	-168.09	23	gray whale	1	0	feed	-1	False
552	67.83	-168.09	23	gray whale	3	0	feed	-1	False
554	67.83	-168.08	23	gray whale	2	0	feed	-1	False
558	67.82	-168.04	23	gray whale	2	0	feed	-1	False
559	67.82	-168.03	23	gray whale	4	0	feed	-1	False
561	67.83	-168.02	23	gray whale	1	0	feed	-1	False
562	67.83	-168.02	23	gray whale	3	0	feed	-1	False
564	67.85	-168.02	23	gray whale	1	0	swim	-1	False

582	67.77	-167.92	23	gray whale	1	0	feed	-1	True
583	67.77	-167.91	23	gray whale	1	0	feed	-1	True
586	67.76	-167.89	23	gray whale	1	0	feed	-1	False
588	67.76	-167.92	23	gray whale	2	0	feed	-1	False
592	67.74	-167.9	23	gray whale	3	0	feed	-1	False
593	67.74	-167.9	23	gray whale	2	0	feed	-1	False
595	67.74	-167.87	23	gray whale	1	0	feed	-1	False
596	67.75	-167.87	23	gray whale	1	0	feed	-1	False
597	67.75	-167.86	23	gray whale	3	0	feed	-1	False
598	67.76	-167.87	23	gray whale	3	0	feed	-1	False
601	67.75	-167.92	23	gray whale	1	0	feed	-1	False
603	67.75	-167.92	23	gray whale	1	0	feed	-1	False
604	67.76	-167.93	23	gray whale	1	0	feed	-1	False
606	67.76	-167.9	23	gray whale	1	0	feed	-1	False
607	67.77	-167.91	23	gray whale	1	0	swim	-1	False
612	67.77	-167.83	23	gray whale	3	0	mill	-1	True
614	67.77	-167.83	23	gray whale	3	0	feed	-1	True
615	67.77	-167.82	23	gray whale	1	0	feed	-1	True
626	67.77	-167.75	23	gray whale	1	0	swim	-1	True
630	67.76	-167.73	23	gray whale	4	0	feed	-1	False
632	67.76	-167.75	23	gray whale	1	0	feed	-1	False
634	67.75	-167.74	23	gray whale	1	0	swim	-1	False
636	67.75	-167.76	23	gray whale	1	0	rest	-1	False
638	67.74	-167.75	23	gray whale	2	0	mill	-1	False
643	67.73	-167.74	23	gray whale	3	0	feed	-1	False
646	67.72	-167.75	23	gray whale	2	0	feed	-1	False
647	67.71	-167.74	23	gray whale	2	0	feed	-1	False
649	67.73	-167.73	23	gray whale	2	0	feed	-1	False
651	67.72	-167.75	23	gray whale	1	0	swim	-1	False
655	67.72	-167.76	23	gray whale	2	0	feed	-1	False
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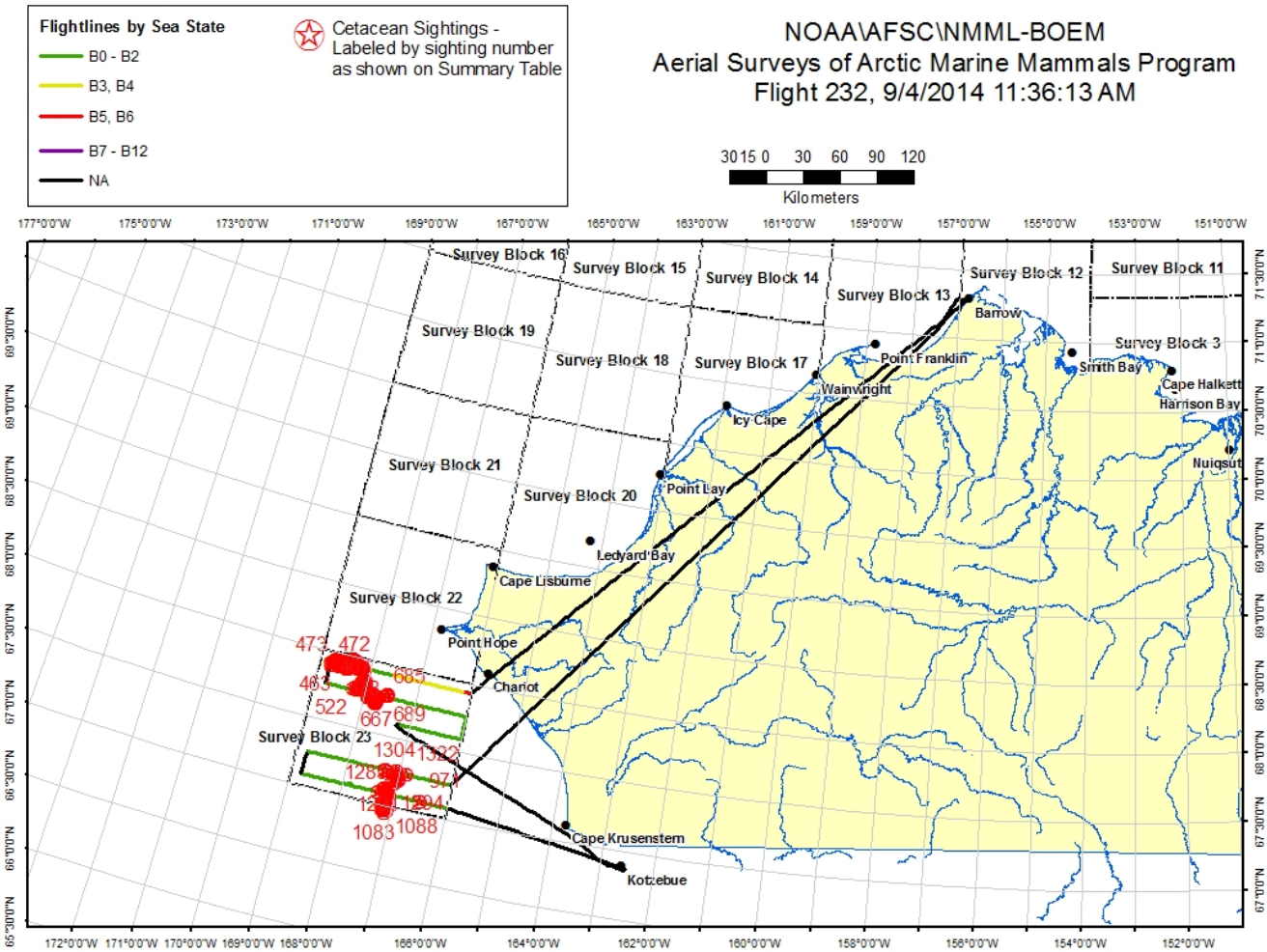
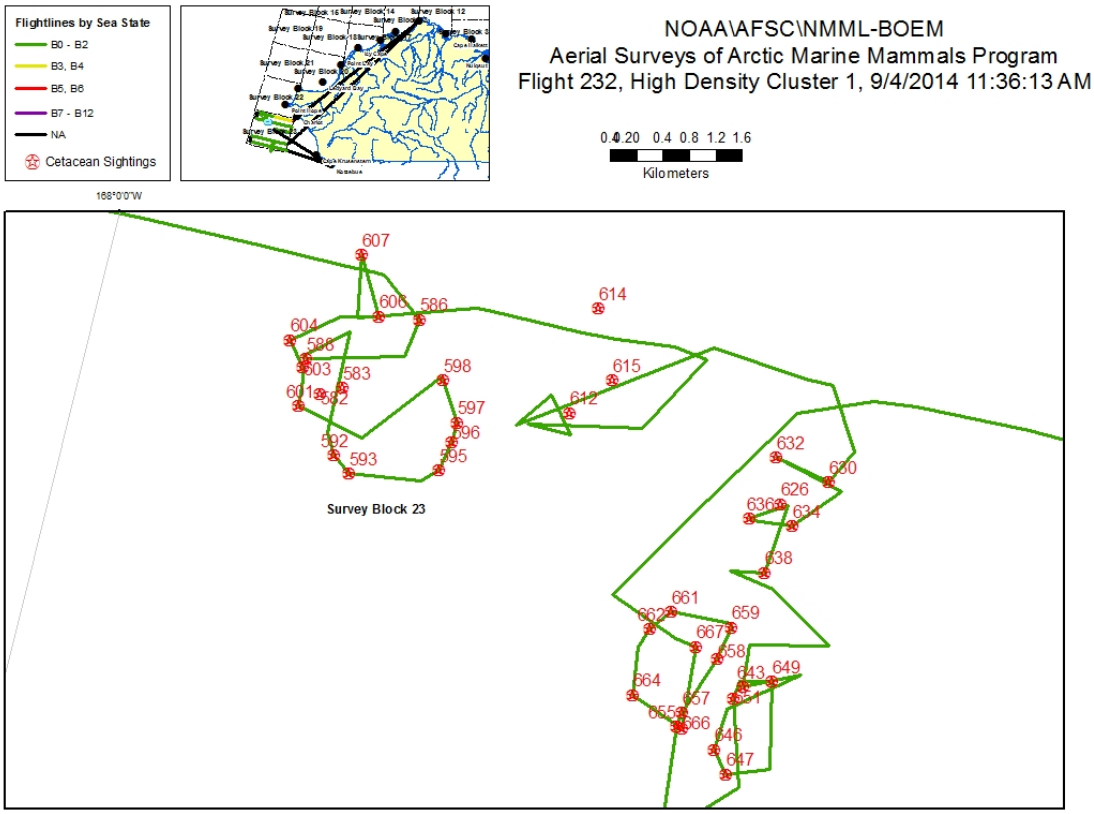
659	67.73	-167.75	23	gray whale	2	0	feed	-1	False
661	67.73	-167.77	23	gray whale	1	0	swim	-1	False
662	67.73	-167.78	23	gray whale	1	0	swim	-1	False
664	67.72	-167.78	23	gray whale	1	0	feed	-1	False
666	67.72	-167.76	23	gray whale	2	0	feed	-1	False
667	67.73	-167.76	23	gray whale	1	0	feed	-1	False
678	67.77	-167.54	23	gray whale	2	0	feed	-1	True
685	67.79	-167.56	23	gray whale	1	0	feed	-1	False
689	67.78	-167.57	23	gray whale	1	0	feed	-1	False
971	67.09	-166.51	23	minke whale	1	0	swim	-1	True
1024	67.09	-167.1	23	humpback whale	2	0	.	-1	True
1025	67.09	-167.11	23	gray whale	2	0	feed	-1	True
1031	67.03	-167.16	23	humpback whale	2	1	swim	-1	False
1033	67.02	-167.16	23	gray whale	1	0	feed	-1	False
1034	67.02	-167.16	23	humpback whale	1	0	feed	-1	False
1038	67.02	-167.15	23	humpback whale	1	0	feed	-1	False
1039	67.02	-167.13	23	humpback whale	3	0	feed	-1	False
1041	67.02	-167.14	23	humpback whale	2	0	feed	-1	False
1043	67.01	-167.16	23	fin whale	2	0	swim	-1	False
1048	66.98	-167.14	24	humpback whale	2	0	mill	-1	False
1051	66.97	-167.17	24	humpback whale	2	1	rest	-1	False
1054	66.98	-167.17	24	unid cetacean	1	0	unknown	-1	False
1057	66.99	-167.17	24	humpback whale	5	0	feed	-1	False
1060	67.01	-167.15	23	humpback whale	2	0	.	-1	False
1061	67.02	-167.17	23	fin whale	2	0	feed	-1	False
1063	67.02	-167.15	23	humpback whale	2	0	feed	-1	False
1066	67.03	-167.13	23	humpback whale	1	0	feed	-1	False
1070	67.03	-167.11	23	humpback whale	1	0	dive	-1	False
1075	66.98	-167.12	24	humpback whale	1	0	feed	-1	False

1076	66.98	-167.14	24	humpback whale	4	0	feed	-1	False
1079	66.98	-167.12	24	humpback whale	3	0	feed	-1	False
1083	66.95	-167.12	24	humpback whale	2	0	feed	-1	False
1088	66.97	-167.09	24	fin whale	3	0	feed	-1	False
1104	67.09	-167.15	23	fin whale	2	0	swim	-1	True
1110	67.11	-167.15	23	fin whale	1	0	swim	-1	False
1112	67.11	-167.19	23	fin whale	1	0	swim	-1	False
1115	67.12	-167.22	23	fin whale	2	0	swim	-1	False
1116	67.12	-167.24	23	fin whale	1	0	swim	-1	False
1123	67.08	-167.18	23	humpback whale	1	0	rest	-1	False
1126	67.08	-167.14	23	fin whale	2	0	swim	-1	False
1134	67.09	-167.32	23	fin whale	3	0	swim	-1	False
1250	67.26	-167.26	23	fin whale	1	0	swim	-1	True
1254	67.26	-167.28	23	fin whale	1	0	swim	-1	False
1264	67.26	-167.05	23	fin whale	6	0	mill	-1	True
1274	67.23	-167.01	23	humpback whale	1	0	dive	-1	False
1282	67.21	-166.98	23	unid cetacean	1	0	.	-1	False
1285	67.2	-166.99	23	humpback whale	1	0	dive	-1	False
1291	67.18	-167.06	23	humpback whale	4	0	mill	-1	False
1294	67.17	-167.1	23	humpback whale	2	0	dive	-1	False
1304	67.27	-167.07	23	fin whale	2	0	feed	-1	False
1322	67.26	-166.86	23	fin whale	2	0	swim	-1	True




Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 1, 9/4/2014 11:36:13 AM
0.4 0.20 0.4 0.8 1.2 1.6
Kilometers
168°0'0"W
Survey Block 23
607
606
586
604
588
603
583
601
582
598
597
596
592
593
595
614
615
612
632
630
626
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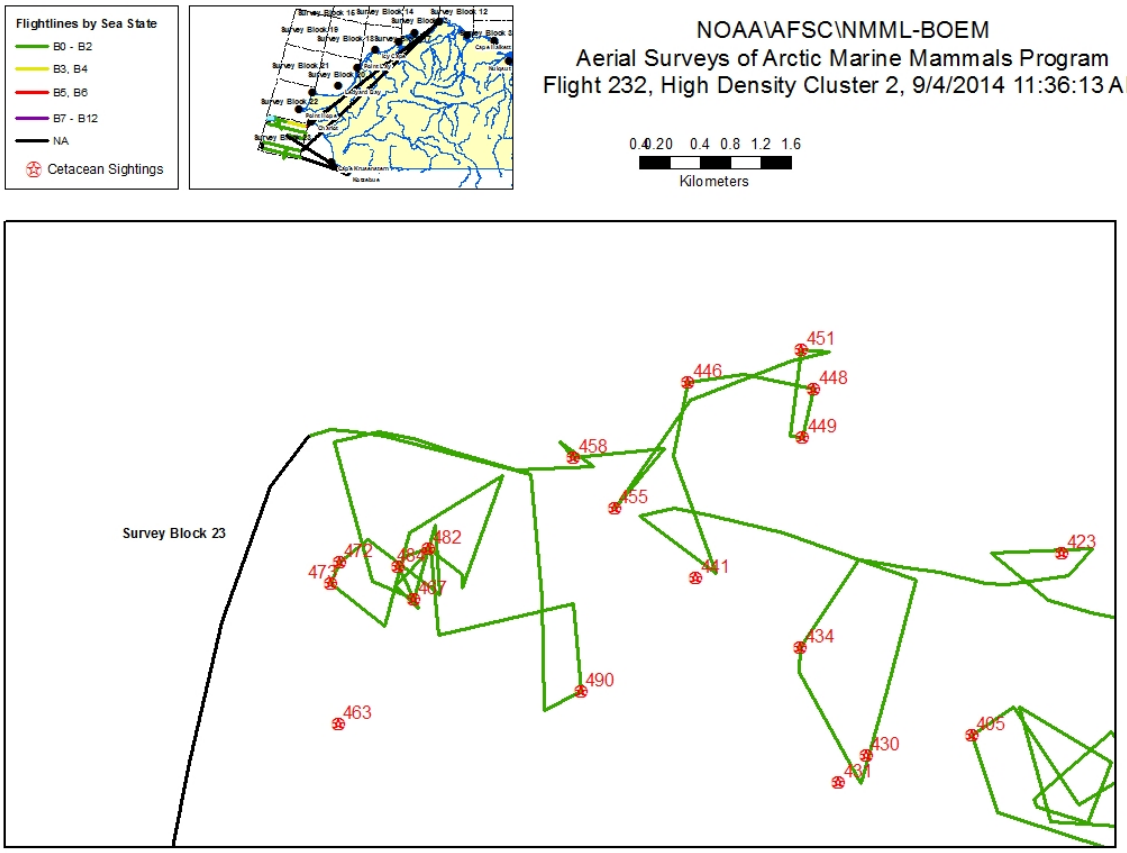
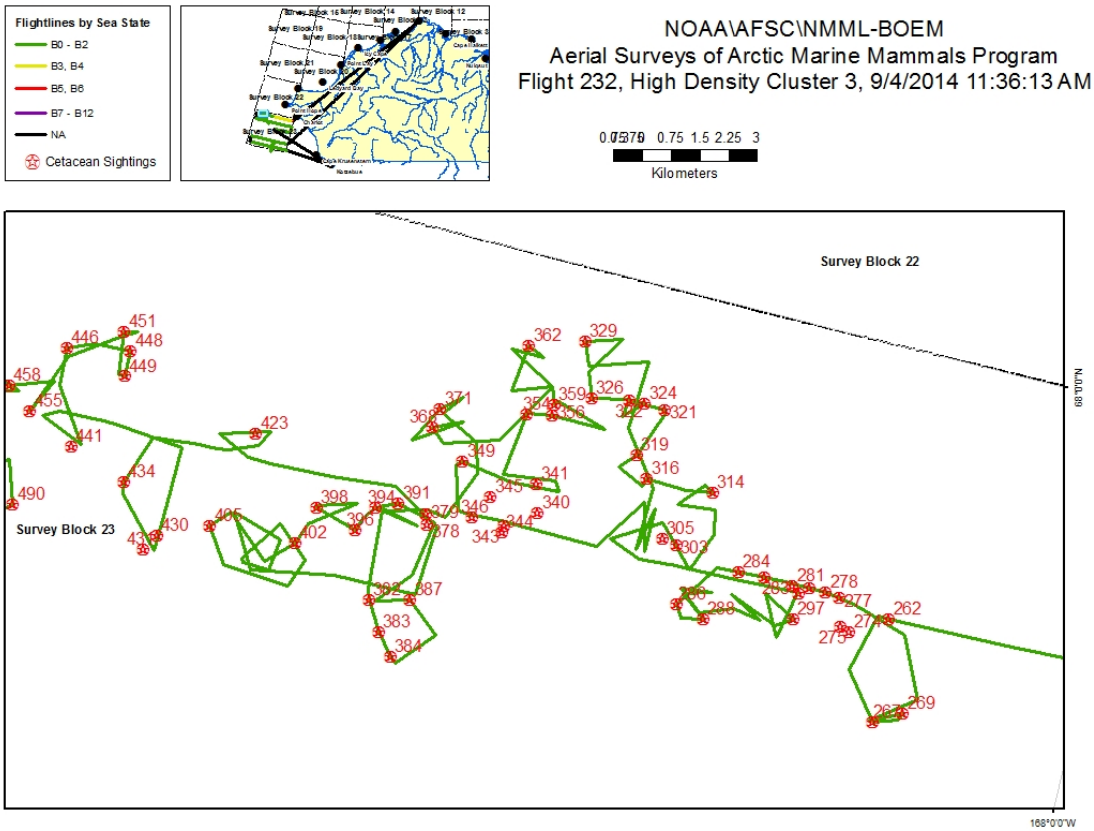
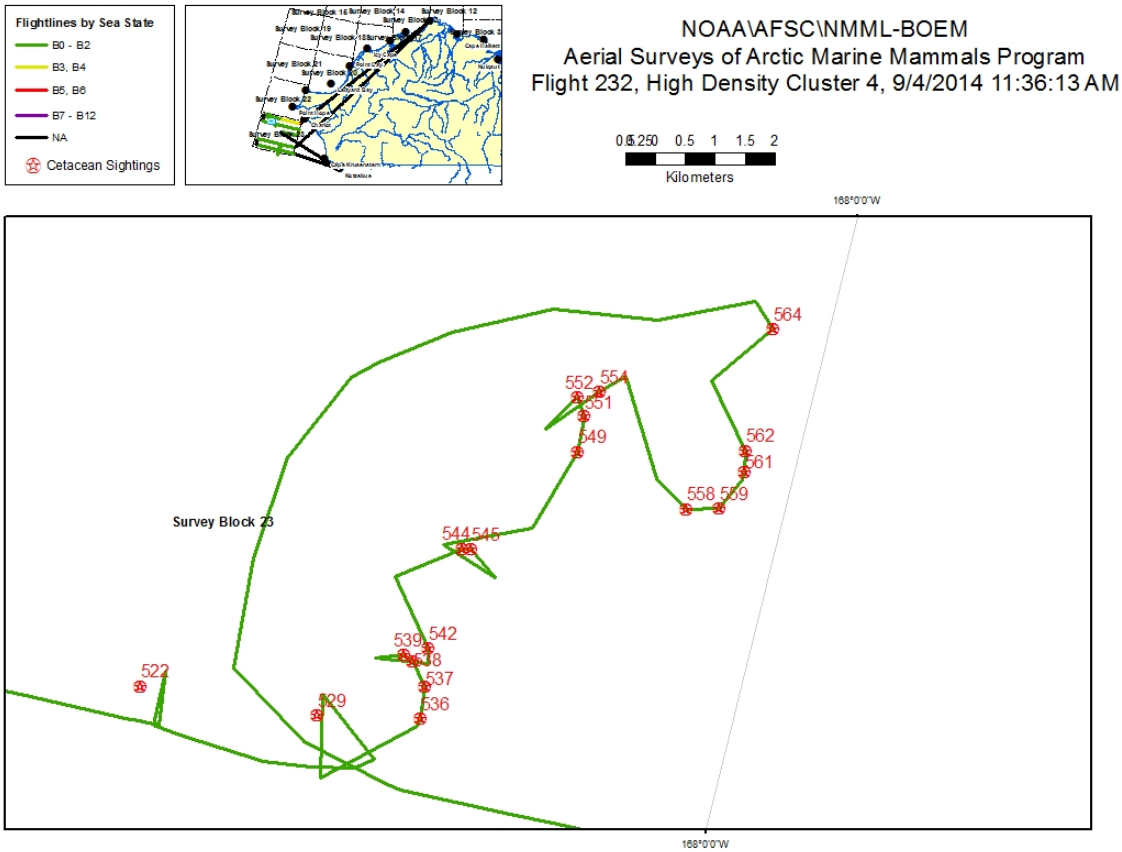
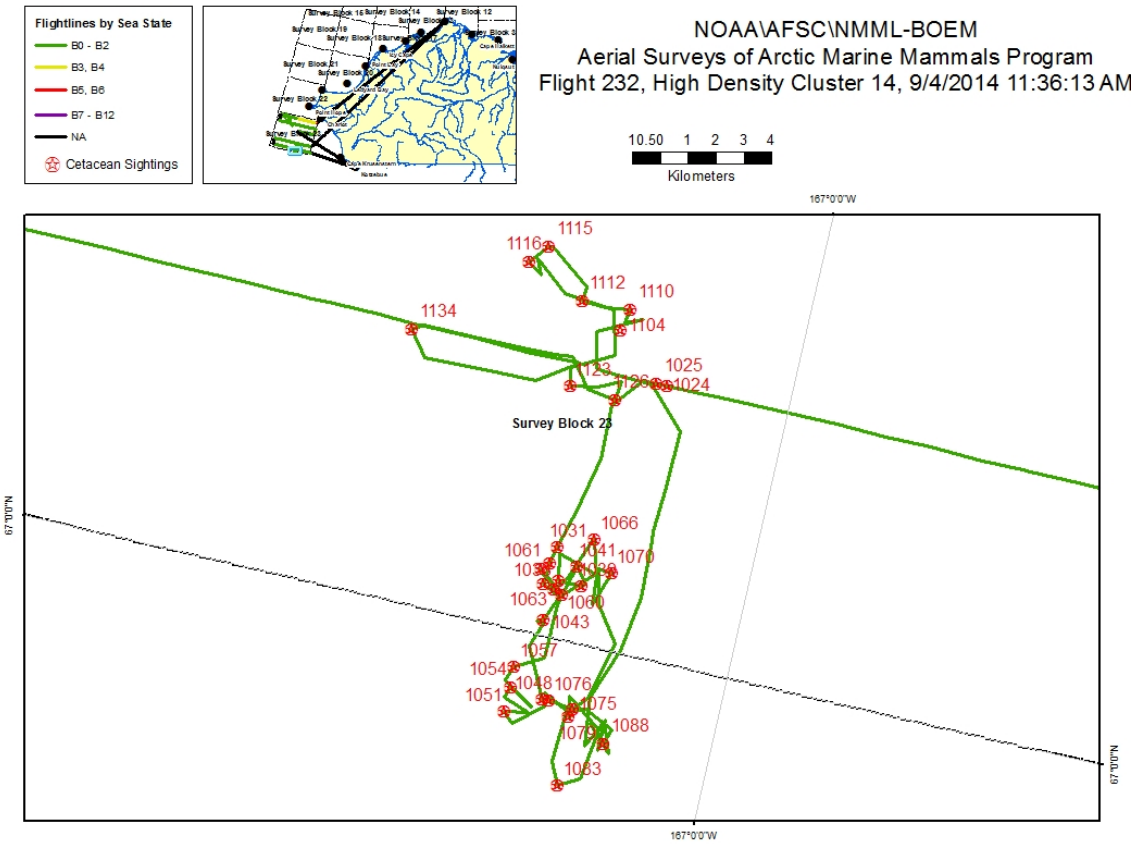
646
647


Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 2, 9/4/2014 11:36:13 AM
0.4 0.20 0.4 0.8 1.2 1.6
Kilometers
Survey Block 23
451
446
448
449
458
455
441
423
472
482
473
467
434
490
463
430
431
405


Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 3, 9/4/2014 11:36:13 AM
0.75 1.5 2.25 3
Kilometers
Survey Block 22
Survey Block 23
69°0'0"N
168°0'0"W


Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 4, 9/4/2014 11:36:13 AM
0.5 1 1.5 2
Kilometers
168°0'0"W
Survey Block 23
168°0'0"W


Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 14, 9/4/2014 11:36:13 AM
10.50 1 2 3 4
Kilometers
167°0'0"W
1115
1116
1112
1110
1104
1134
1025
1024
Survey Block 23
67°0'0"N
1031
1066
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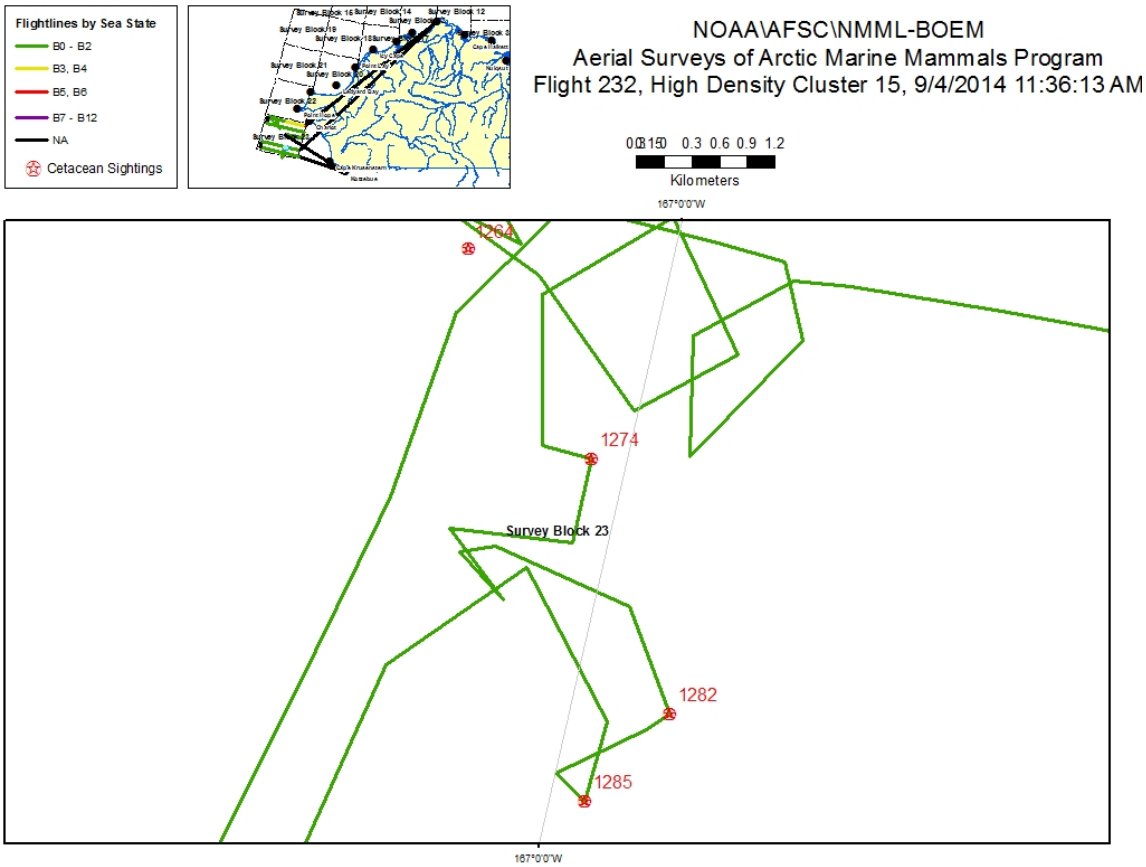
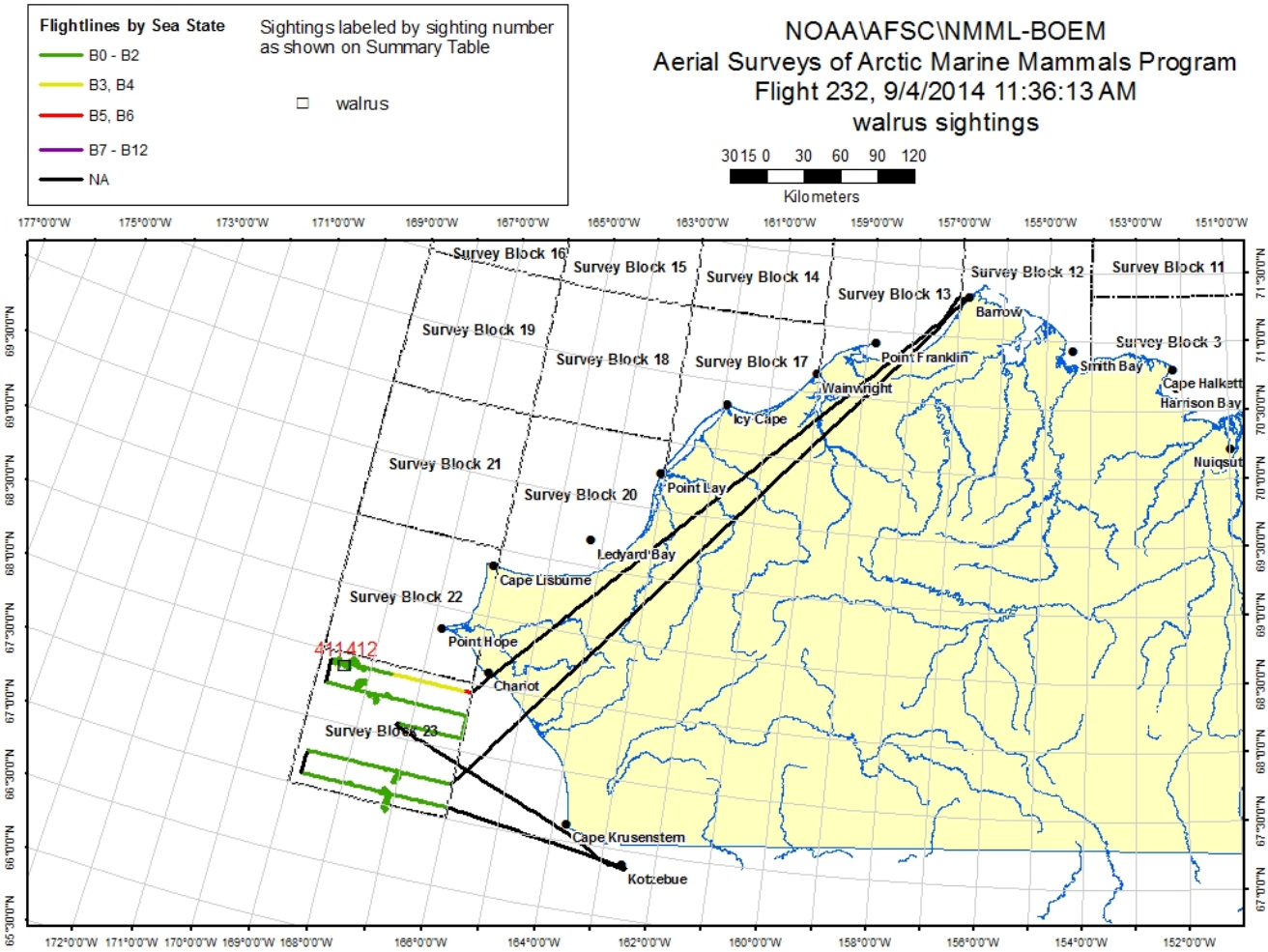

Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 232, High Density Cluster 15, 9/4/2014 11:36:13 AM
0.3 0.6 0.9 1.2
Kilometers
167°0'0"W
1264
1274
Survey Block 23
1282
1285

Walrus Sightings: