## ASAMM-Beaufort – Flight 18 – 30 August 2014

Area flown: Block 5, five complete transects; block 7, six complete transects
Total hours flown: 8.8 (2 flights)
Total transect hours: 3.4
Number of bowheads seen: 38 (3 calves)
Weather and visibility: Skies were partly cloudy to clear. Sea state ranged from Beaufort 1-5. Visibility ranged from 10 km to unlimited, with glare and haze. There was no sea ice in the area surveyed.
Sightings: Bowhead whales, belugas (including 2 calves), unidentified cetaceans, small unidentified pinnipeds, and unidentified pinnipeds.

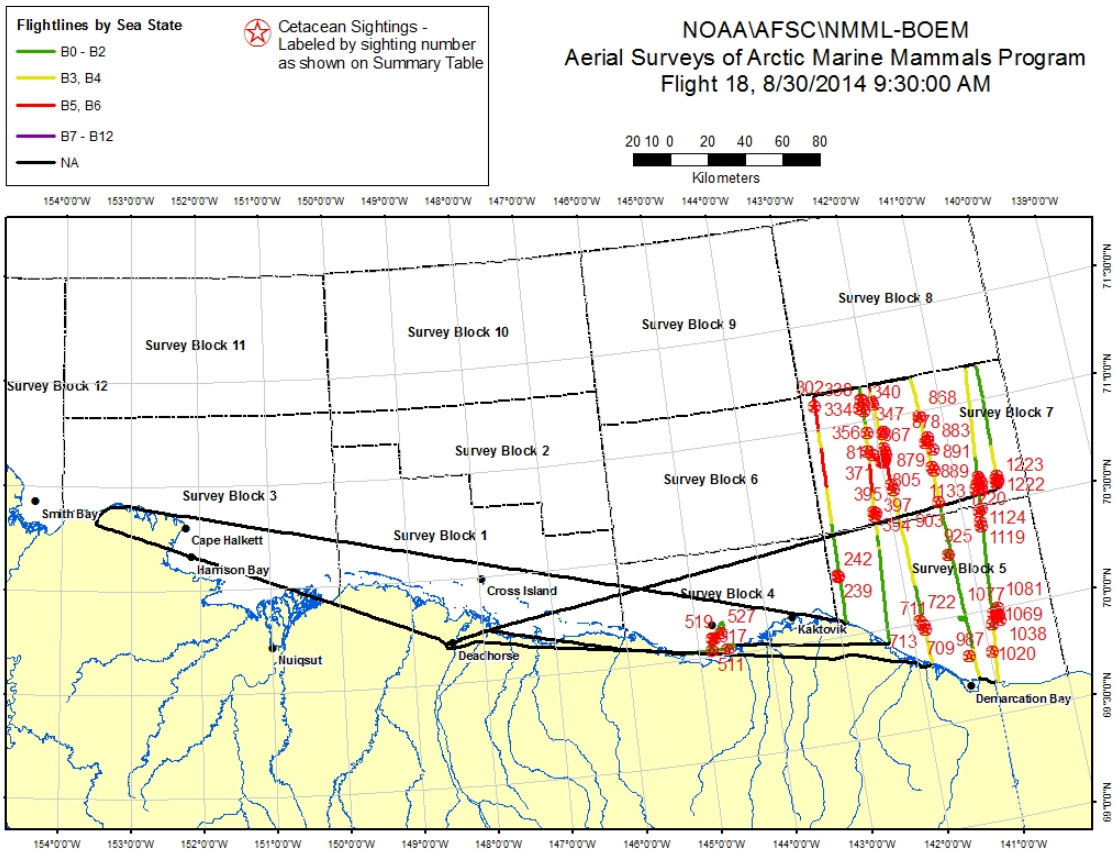
**Preliminary Summary, Flight 18 Date: 8/30/2014**

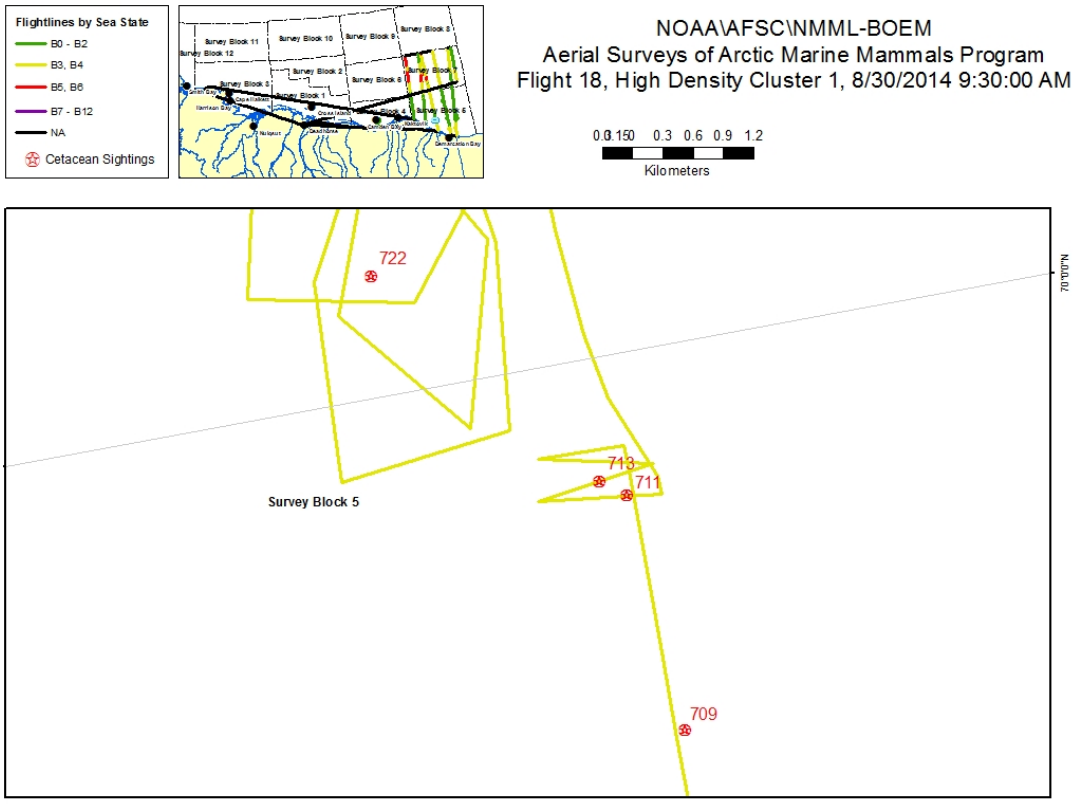
| | | |
|---|---|---|
| Total bowhead whales: 38 | Start time: 8/30/2014 9:38:29 AM | End time: 8/30/2014 7:23:42 PM |
| Bowhead whale sightings: 16 | Transect minutes: 201 | Transect km:800.7 |
| Bowhead whales on transect: 11 | Circling minutes: 70 | Circling km: 174.6 |
| Bowhead whale cow-calf pairs: 3 | Trans+Circ minutes: 271 | Trans+Circ km: 975.3 |
| Bowhead whale cow-calf pairs on transect: 1 | Search minutes: 5 | Search km: 26.3 |
| Bowhead whale repeats: 0 | Total minutes: 527 | Total km: 2466.6 |
| Possible repeats: 0 | Deadhead minutes: 251 | Deadhead km: 1465 |
| Total gray whales: 0 | Search blocks: 7, 5, 4 | |
| Total belugas: 63 | Transect blocks: 5, 7 | |
| Other whale sightings: 4 | | |
| Total walrus: 0 | | |
| Total polar bears: 0 | | |

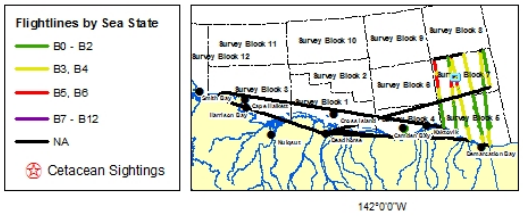
**Cetacean Sightings:**

| Event | Lat | Long | Block | Species | Total | Calves | Behavior | Swim Direction | On Effort |
|---|---|---|---|---|---|---|---|---|---|
| 239 | 70.29 | -142.88 | 5 | bowhead whale | 1 | 0 | swim | 63 | True |
| 242 | 70.29 | -142.9 | 5 | bowhead whale | 1 | 0 | swim | -1 | False |
| 302 | 71.11 | -142.82 | 7 | beluga | 1 | 0 | rest | -1 | False |
| 325 | 71.1 | -142.11 | 7 | beluga | 2 | 1 | swim | 34 | True |
| 334 | 71.1 | -142.11 | 7 | beluga | 1 | 0 | swim | 272 | False |
| 338 | 71.06 | -142.12 | 7 | beluga | 1 | 0 | rest | -1 | True |
| 340 | 71.05 | -142.12 | 7 | beluga | 1 | 0 | rest | -1 | True |
| 347 | 70.95 | -142.14 | 7 | beluga | 2 | 1 | swim | 184 | True |
| 356 | 70.85 | -142.16 | 7 | beluga | 1 | 0 | swim | 303 | True |
| 371 | 70.83 | -142.11 | 7 | beluga | 1 | 0 | swim | -1 | False |
| 394 | 70.56 | -142.22 | 7 | beluga | 1 | 0 | swim | 302 | True |
| 395 | 70.56 | -142.22 | 7 | beluga | 1 | 0 | swim | 302 | True |
| 397 | 70.54 | -142.22 | 7 | beluga | 1 | 0 | swim | 305 | True |
| 498 | 70.03 | -144.58 | 4 | bowhead whale | 8 | 1 | feed | -1 | False |
| 511 | 70.03 | -144.81 | 4 | bowhead whale | 3 | 0 | feed | -1 | False |
| 517 | 70.09 | -144.78 | 4 | bowhead whale | 7 | 0 | feed | -1 | False |
| 519 | 70.08 | -144.75 | 4 | bowhead whale | 2 | 0 | feed | -1 | False |
| 527 | 70.11 | -144.65 | 4 | bowhead whale | 1 | 0 | swim | -1 | False |
| 709 | 69.97 | -141.82 | 5 | beluga | 1 | 0 | swim | 60 | True |
| 711 | 69.99 | -141.82 | 5 | bowhead whale | 1 | 0 | swim | 120 | True |
| 713 | 69.99 | -141.82 | 5 | bowhead whale | 3 | 0 | swim | 120 | True |
| 722 | 70.01 | -141.82 | 5 | unid cetacean | 1 | 0 | swim | -1 | True |
| 785 | 70.65 | -141.91 | 7 | beluga | 1 | 0 | swim | 267 | True |
| 795 | 70.68 | -141.91 | 7 | beluga | 1 | 0 | swim | -1 | False |
| 805 | 70.79 | -141.93 | 7 | beluga | 2 | 0 | swim | 269 | True |
| 807 | 70.8 | -141.93 | 7 | beluga | 1 | 0 | swim | 270 | True |
| 808 | 70.8 | -141.93 | 7 | beluga | 1 | 0 | swim | -1 | True |
| 809 | 70.81 | -141.93 | 7 | beluga | 2 | 0 | swim | -1 | True |
| 810 | 70.81 | -141.93 | 7 | beluga | 1 | 0 | swim | -1 | True |
| 812 | 70.83 | -141.93 | 7 | beluga | 1 | 0 | swim | -1 | True |
| 814 | 70.84 | -141.93 | 7 | beluga | 1 | 0 | swim | 268 | True |
| 816 | 70.86 | -141.93 | 7 | beluga | 1 | 0 | swim | 267 | True |
| 821 | 70.93 | -141.94 | 7 | beluga | 1 | 0 | swim | 298 | True |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 822 | 70.93 | -141.94 | 7 | beluga | 1 | 0 | swim | 300 | True |
| 831 | 71.07 | -141.97 | 7 | beluga | 1 | 0 | swim | 298 | True |
| 833 | 71.08 | -141.97 | 7 | beluga | 1 | 0 | swim | 299 | True |
| 867 | 70.98 | -141.32 | 7 | beluga | 1 | 0 | swim | 208 | True |
| 868 | 70.97 | -141.32 | 7 | beluga | 1 | 0 | swim | 207 | True |
| 876 | 70.87 | -141.31 | 7 | beluga | 1 | 0 | swim | 89 | True |
| 878 | 70.85 | -141.31 | 7 | beluga | 1 | 0 | swim | 26 | True |
| 879 | 70.85 | -141.31 | 7 | beluga | 1 | 0 | swim | 147 | True |
| 883 | 70.81 | -141.31 | 7 | beluga | 1 | 0 | swim | 149 | True |
| 889 | 70.73 | -141.3 | 7 | beluga | 1 | 0 | dive | -1 | True |
| 891 | 70.71 | -141.3 | 7 | beluga | 1 | 0 | swim | 296 | True |
| 903 | 70.55 | -141.28 | 7 | beluga | 1 | 0 | swim | 240 | True |
| 925 | 70.3 | -141.26 | 5 | unid cetacean | 1 | 0 | swim | -1 | True |
| 987 | 69.8 | -141.21 | 5 | bowhead whale | 3 | 1 | swim | -1 | True |
| 1020 | 69.8 | -140.96 | 5 | bowhead whale | 1 | 0 | dive | -1 | False |
| 1036 | 69.93 | -140.88 | 5 | bowhead whale | 2 | 0 | dive | -1 | True |
| 1038 | 69.95 | -140.87 | 5 | unid cetacean | 1 | 0 | swim | -1 | True |
| 1055 | 69.98 | -140.86 | 5 | bowhead whale | 1 | 0 | swim | -1 | True |
| 1059 | 69.98 | -140.79 | 5 | bowhead whale | 2 | 1 | swim | -1 | False |
| 1062 | 69.98 | -140.78 | 5 | beluga | 1 | 0 | swim | -1 | False |
| 1066 | 69.97 | -140.76 | 5 | bowhead whale | 1 | 0 | swim | -1 | False |
| 1069 | 69.96 | -140.78 | 5 | bowhead whale | 1 | 0 | swim | -1 | False |
| 1077 | 69.98 | -140.83 | 5 | beluga | 1 | 0 | rest | -1 | False |
| 1081 | 70.01 | -140.85 | 5 | unid cetacean | 1 | 0 | swim | -1 | True |
| 1116 | 70.4 | -140.74 | 5 | beluga | 1 | 0 | swim | 36 | True |
| 1119 | 70.42 | -140.74 | 5 | beluga | 1 | 0 | rest | -1 | True |
| 1122 | 70.47 | -140.72 | 5 | beluga | 1 | 0 | swim | 276 | True |
| 1124 | 70.49 | -140.72 | 5 | beluga | 1 | 0 | swim | 33 | True |
| 1131 | 70.57 | -140.69 | 7 | beluga | 1 | 0 | swim | 94 | True |
| 1132 | 70.58 | -140.69 | 7 | beluga | 1 | 0 | swim | 65 | True |
| 1133 | 70.58 | -140.69 | 7 | beluga | 1 | 0 | swim | 275 | True |
| 1135 | 70.6 | -140.69 | 7 | beluga | 1 | 0 | swim | 65 | True |
| 1137 | 70.61 | -140.68 | 7 | beluga | 2 | 0 | swim | 124 | True |
| 1139 | 70.63 | -140.68 | 7 | beluga | 1 | 0 | swim | 129 | True |
| 1141 | 70.64 | -140.67 | 7 | beluga | 1 | 0 | swim | 96 | True |
| 1217 | 70.62 | -140.4 | 7 | beluga | 1 | 0 | swim | 58 | True |
| 1219 | 70.61 | -140.4 | 7 | beluga | 6 | 0 | swim | 2 | True |
| 1220 | 70.6 | -140.4 | 7 | beluga | 1 | 0 | swim | 63 | True |
| 1222 | 70.59 | -140.4 | 7 | beluga | 1 | 0 | swim | 63 | True |
| 1223 | 70.59 | -140.4 | 7 | beluga | 1 | 0 | swim | 32 | True |


Flightlines by Sea State
B0 - B2
B3, B4
B5, B6
B7 - B12
NA
Cetacean Sightings - Labeled by sighting number as shown on Summary Table
NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 18, 8/30/2014 9:30:00 AM
20 10 0 20 40 60 80
Kilometers
Survey Block 1
Survey Block 2
Survey Block 3
Survey Block 4
Survey Block 5
Survey Block 6
Survey Block 7
Survey Block 8
Survey Block 9
Survey Block 10
Survey Block 11
Survey Block 12
Smith Bay
Cape Halkett
Harrison Bay
Nuiqsut
Cross Island
Deadhorse
Kaktovik
Demarcation Bay


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 18, High Density Cluster 1, 8/30/2014 9:30:00 AM
0.0 0.150 0.3 0.6 0.9 1.2
Kilometers
Survey Block 5
722
713
711
709

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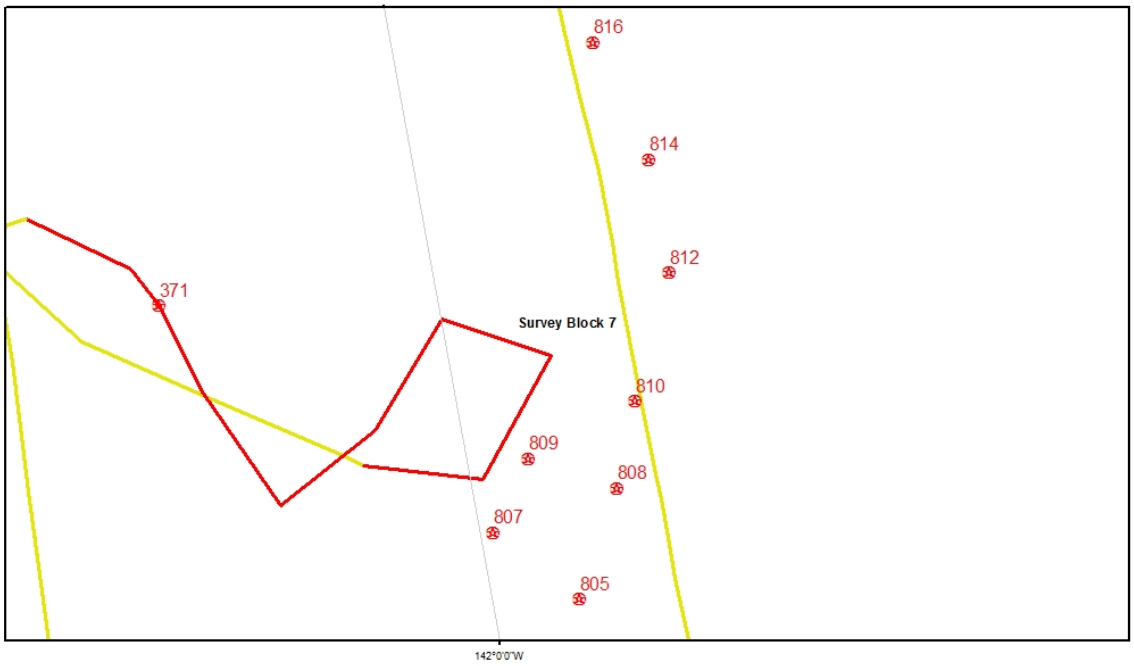
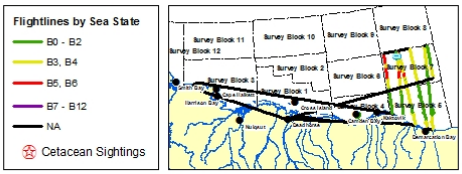
Aerial Surveys of Arctic Marine Mammals Program
Flight 18, High Density Cluster 2, 8/30/2014 9:30:00 AM

0 0.25 0.5 1 1.5 2
Kilometers

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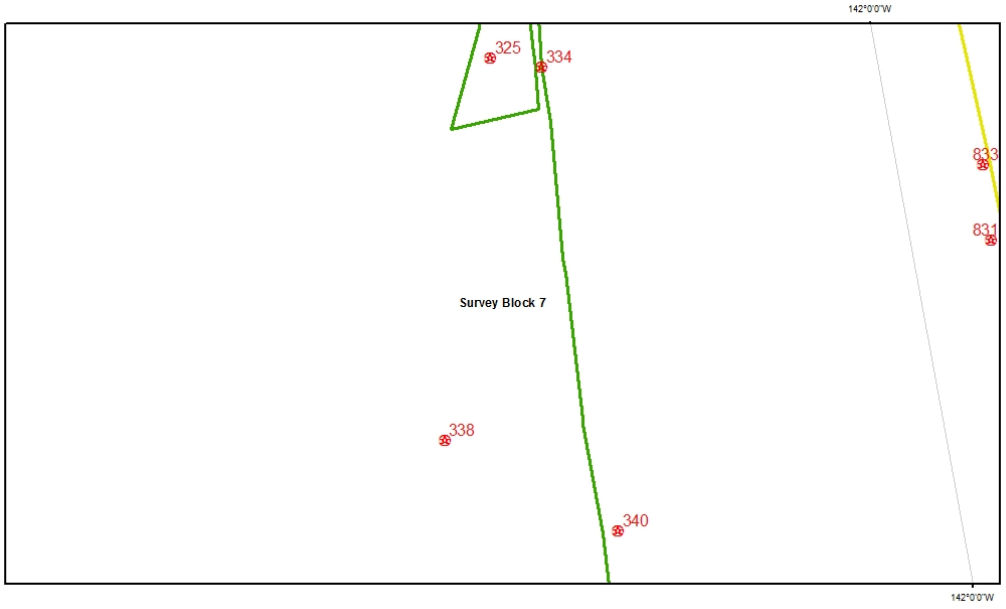
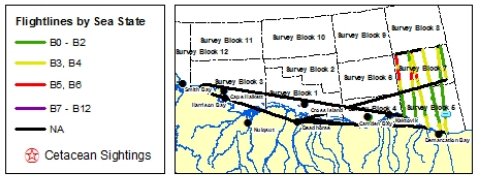
Aerial Surveys of Arctic Marine Mammals Program
Flight 18, High Density Cluster 3, 8/30/2014 9:30:00 AM

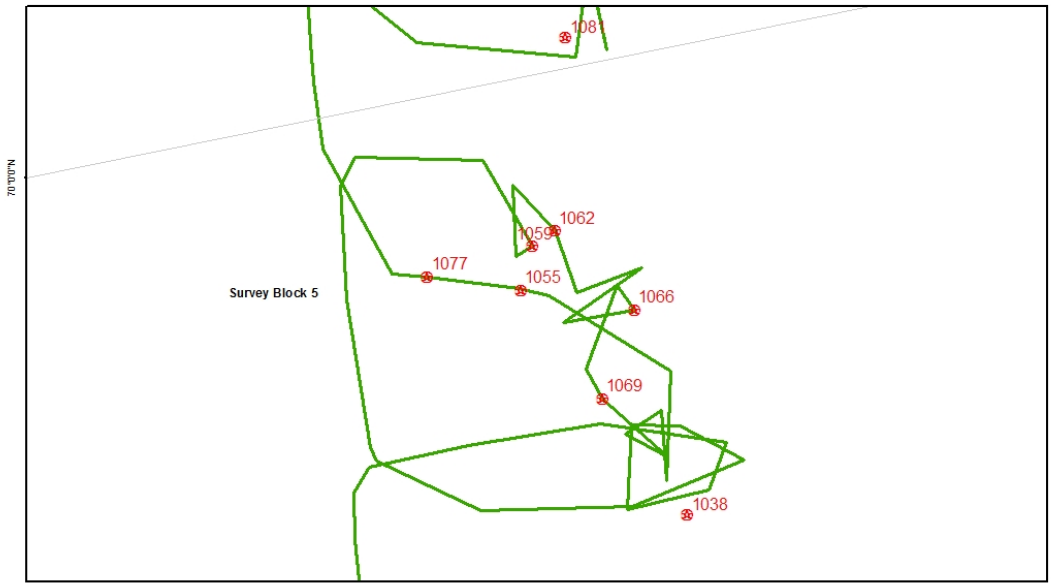
0.4 0.2 0 0.4 0.8 1.2 1.6
Kilometers

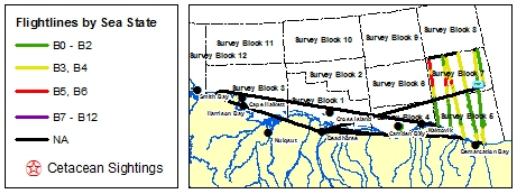





NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 18, High Density Cluster 4, 8/30/2014 9:30:00 AM

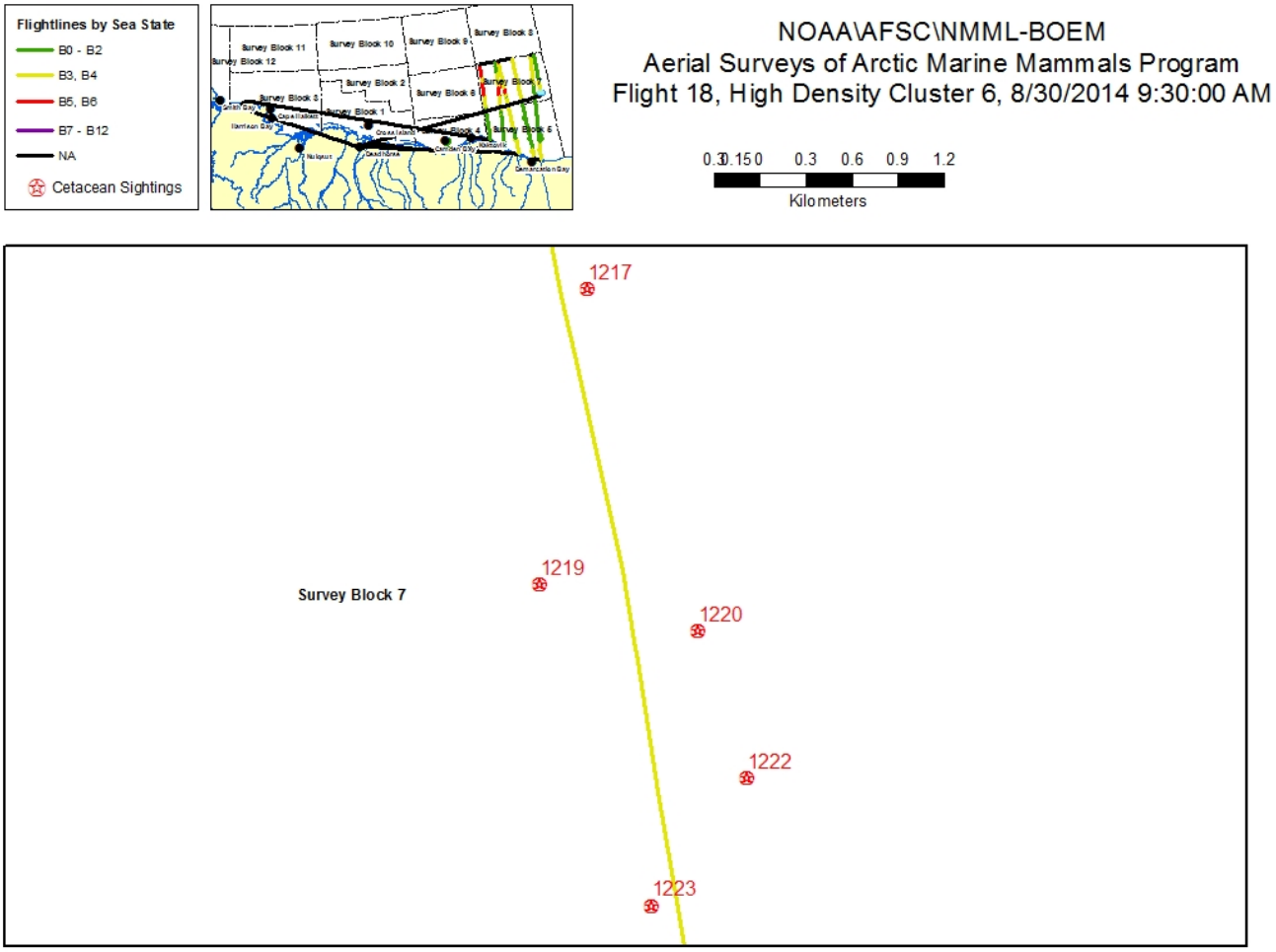
0.5 0.25 0 0.5 1 1.5 2
Kilometers




NOAA\AFSC\NMML-BOEM
Aerial Surveys of Arctic Marine Mammals Program
Flight 18, High Density Cluster 5, 8/30/2014 9:30:00 AM

0.6 0.3 0 0.6 1.2 1.8 2.4
Kilometers




**Walrus and Polar Bear Sightings: None**