

Aerial_Master_2018_2021_v2 Version History

Edits made by AAB

5 May 2022

ALW did a final QAQC of the 2009-2021 ASAMM data in April/May 2022, which resulted in the following edits.

E106, F215, 7/31/2018 – Calf_Detect_Cert = -1

E299, F208, 7/14/2018 – Entry = resume, copied environmental from previous entry, FltType 4

E300, F208, 7/14/2018 – Entry = deadhead, environmental = NA, FltType = 1, enttag = 1, added crew, PhotoTaken = 0

E103, F215, 7/31/2018 – Entry = divert to circling, environmental copied from previous entry, FltType = 6, enttag = 1, added crew, PhotoTaken = 0

E106, E107, F215, 7/31/2018 – Entry = s on circling - search, FltType = 6

E117, F215, 7/31/2018 – Entry = resume, enttag = 1

E748, F207, 7/12/2019 – Swimdir_True = 300, notes = “calf, behavior, swimdir, and swimdir_true updated based on BPC imagery”

E956, F207, 7/12/2019 – Swimdir_True = 120, notes = “swimdir & swimdir_true updated based on BPC imagery”

E526, F224, 8/20/2019 – Swimdir_True = 270, notes = “swimdir & swimdir_true updated based on BPC imagery”

E1046, F224, 8/20/2019 – Swimdir_True = 60, notes = “swimdir & swimdir_true updated based on BPC imagery”

E1085, F224, 8/20/2019 – Swimdir_True = 60, notes = “swimdir & swimdir_true updated based on BPC imagery”

E1099, F224, 8/20/2019 – Swimdir_True = 269, notes = “swimdir & swimdir_true updated based on BPC imagery”

E235, F226, 8/22/2019 – Swimdir_True = 180, notes = “swimdir & swimdir_true updated based on BPC imagery”

E302, F229, 8/26/2019 – Swimdir_True = 359, notes = “swimdir & swimdir_true updated based on BPC imagery”

E1074, F25, 8/30/2019 – Swimdir_True = 269, notes = “not relocated on circle. swimdir & swimdir_true updated based on BPC imagery”

E336, F37, 9/24/2019 – Swimdir_True = 209, notes = “swimdir & swimdir_true updated based on BPC imagery”

E549, F37, 9/24/2019 – Swimdir_True = 330, notes = “swimdir & swimdir_true updated based on BPC imagery”

E550, F37, 9/24/2019 – Swimdir_True = 329, notes = “behavior, swimdir, & swimdir_true updated based on BPC imagery”

E87, F41, 9/28/2019 – Swimdir_True = 300, notes = “swimdir & swimdir_true updated based on BPC imagery”

E528, F263, 10/22/2019 – Swimdir_True = 300, notes = “swimdir & swimdir_true updated based on BPC imagery”

E625, F263, 10/22/2019 – Swimdir_True = 30, notes = “swimdir & swimdir_true updated based on BPC imagery”

E938, F18, 8/21/2019 – notes = “R. Hold, frames 108-128, lots of birds. Cause of death unknown, likely KW predation; cannot exclude the possibility of shark scavenging.”

E155, F22, 8/27/2019 – notes = “R. Holt frames 20-63. Cause of death: probable KW predation”

E17, F234, 9/5/2019 – added to notes: “Resighted on 10/10/2019 F256, E418”

E22, F234, 9/5/2019 – added to notes: “Resighted on 10/10/2019 F256, E418”

E555, F1, 9/17/2020 – added to notes: “NSB-DWM confirmed remains are a bowhead whale tongue removed during aboriginal substance butchering.”

E425, F3, 9/25/2021 – added to notes: “severe injuries (semilunar bites wounds on what appears to be the chin, tongue removed, long linear flensing, eviscerated abdomen) consistent with killer whale predation. Not COY based on long baleen.”

E41, F4, 9/26/2021 (Er) – added to notes: “probable killer whale predation; jaw and pectoral flipper bones exposed; bite wounds forward and aft of genitalia and damage to flukes”

E102, F6, 9/28/2021 (DI) – add to notes: “intact; no visible injuries; stranding code 1-2”

E549, F6, 9/28/2021 – notes = “K.Scheimreiff frames 81-120; flensed blubber, likely from KW predation based on the bite marks and tearing; large cetacean based on size; and large oil slick”

E115, F8, 10/3/2021 – notes = “A.Willoughby fr 1-77; E304 is repeat sighting, E304 is more accurate position. severe injuries (lower R mandible & tongue removed, torn throat, bite wounds on chin, blubber flensing, tissue fraying on pecs & flukes) consistent w/ KW predation”

E304, F8, 10/3/2021 – notes = “this is a repeat sighting and better location of carcass E115. too many low clouds to circle for photos; photos taken during E155. Use this lat/long.”, PhotoTaken = 1

E465, F10, 10/9/2021 – notes = “A.Willoughby, frames 58-83. intact; no injuries visible; stranding code 1-2”

E583, F10, 10/9/2021 – added to notes, “based on shape/size, not a COY. ventral side laceration several feet long between pec flippers, is at least through the hypodermis, possibly into muscle on L side; COD = could not be determined”

E373, F33, 9/9/2019 – Entry = deadhead, envionmentals to NA, FltType = 1, enttag = 1, added crew, PhotoTaken = 0

E185, F262, 10/20/2019 – enttag = 5

E101, F26, 8/31/2019 – enttag = 2

E471, F242, 9/21/2019 – notes edited from congo to conga

Aerial_Master_2018_2021_v1 Version History

Edits made by AAB

3 Feb 2022

Appended "ASAMM_2021_v1.mdb" to "Aerial_Master_2018_2020_v3.mdb"

Within "ASAMM_2021_v1.mdb":

Output table:

Renamed "All_Flights" table to "Output".

Added Lat, Long, Icepercent, UTM6X, UTM6Y fields.

Appended to "Aerial_Master_2018_2020_v3.mdb"

Appended SummaryInfo, FlightInfo, Sightings_CAPs, and SummaryInfo_CAPs tables to "Aerial_Master_2018_2020_v3.mdb".

Aerial_Master_2018_2020_v3 Version History

Edits made by AAB

2 Feb 2022

Edits based off of BPC misidentification reconciliation:

E748, Flt207, 7/12/19: behavior = swim, calf no = 1, swim_dir = 4 o'clock, notes = calf, behavior, and swim_dir updated based on BPC imagery; data would need to be resummarized for new Swimdir_True value

E956, Flt207, 7/12/19: swim_dir = 4 o'clock, Swimdir_True = -1, notes = swim_dir updated corrected based on BPC imagery; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value

E1008, Flt207, 7/12/2019: enttag 8, notes = enttag 8 pooled sighting based on BPC imagery.

E185, Flt221, 8/17/19: final group = 3, calf no = 1, notes = calf detected during BPC imagery review.

E261, Flt222, 8/17/19: final group = 4, calf no = 1, notes = calf detected during BPC imagery review.

E361, Flt224, 8/20/19: final group = 2, calf no = 1, notes = calf detected during BPC imagery review.

E526, Flt224, 8/20/19: swim_dir = 3 o'clock, Swimdir_True = -1, notes = swim_dir updated based on BPC imagery review; data would need to be resummarized for new Swimdir_True value.

E1046, Flt224, 8/20/19: swim_dir = 2 o'clock, Swimdir_True = -1, notes = swim_dir corrected based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E1085, Flt224, 8/20/19: swim_dir = 2 o'clock, Swimdir_True = -1, notes = swim_dir was revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E1099, Flt224, 8/20/19: swim_dir = 9 o'clock, Swimdir_True = -1, notes = swim_dir was revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E1180, Flt224, 8/20/19: final group = 2, calf no = 1, notes = final group and calf no revised based on calf discovery during BPC imagery review.

E235, Flt226, 8/22/19: swim_dir = 6 o'clock, notes = swim_dir added based on BPC imagery review; data would need to be resummarized for new Swimdir_True value.

E220, Flt228, 8/25/19: final group = 2, calf no = 1, notes = final group and calf no revised based on calf detected during BPC imagery review.

E282, Flt228, 8/25/19: final group = 2, calf no = 1, notes = final group and calf no revised based on calf detected during BPC imagery review.

E302, Flt229, 8/26/19: swim_dir = 6 o'clock, Swimdir_True = -1, notes = swim_dir revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E1074, Flt25, 8/30/19: swim_dir = 3 o'clock, Swimdir_True = -1, notes = swim_dir revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E422, Flt30, 9/5/20: notes = Additional belugas found in BPC images that could not be added due to maintaining existing data integrity.

E423, Flt30, 9/5/19: final group = 2, calf no = 1, notes = final group and calf no revised based on calf detected during BPC image reviewed.

E424, Flt30, 9/5/19: notes = Additional belugas found in BPC images that could not be added due to maintaining existing data integrity.

E335, Flt37, 9/24/19: calf on circle = 0, notes = calf was detected first/on tx based on BPC image review (the mark on transect at 77 degrees is of a calf, not an adult).

E336, Flt37, 9/24/19: swim_dir = 7 o'clock, notes = swim_dir revised based on BPC imagery review; data would need to be resummarized for new Swimdir_True value.

E458, Flt37, 9/24/19: final group = 2, notes = final group was revised based on additional beluga detected during BPC imagery review.

E549, Flt37, 9/24/19: swim_dir = 11 o'clock, Swimdir_True, notes = swim_dir revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E550, Flt37, 9/24/19: behavior = swim, swim_dir = 11 o'clock, notes = behavior and swim_dir revised based on BPC imagery review; data would need to be resummarized for new Swimdir_True value.

E87, Flt41, 9/28/19: swim_dir = 10 o'clock, notes = swim_dir revised based on BPC imagery review; data would need to be resummarized for new Swimdir_True value.

E92, Flt41, 9/28/19: final group = 2, calf no = 1, notes = final group and calf no revised based on calf detected during BPC imagery review.

E277, Flt42, 9/29/19: calf no = 1, notes = calf no revised after second beluga was identified as a calf during BPC imagery review.

E396, Flt43, 9/30/19: final group = 7, notes = final group revised based on BPC imagery review.

E528, Flt263, 10/22/19: swim_dir = 10 o'clock, Swimdir_True = -1, notes = swim_dir revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E625, Flt263, 10/22/19: swim_dir = 7 o'clock, Swimdir_True = -1, notes = swim_dir revised based on BPC imagery review; Swimdir_True changed to -1; data would need to be resummarized for new Swimdir_True value.

E81, Flt265, 10/24/19: final group = 2, notes = final group revised after additional gray whale was detected during BPC imagery review.

E517, Flt265, 10/24/19: calf no = 0, notes = smaller beluga is not a COY, calf no revised based on BPC imagery review.

Aerial_Master_2018_2020_v2 Version History

Edits made by AAB

1 March 2021

FlightInfo table:

Aerial_Survey field – changed 2020 flights from “BWASP” to “NSB”.

Output table:

Aerial_Survey field – all entries for 2020 flights, changed from “MML_Cmdr” to NSB_Cmdr”.

Aerial_Master_2018_2020_v1 Version History

Edits made by AAB

3 February 2021

Appended 2020 data (ASAMM_2020.mdb) to Aerial_Master_2018_2019_v6.mdb.

ID155162 F10 E294 10/10/2020 – saved=0

ID155163 F10 E295 10/10/2020 – Final_group 3, notes “ALW frames 1-50. Final_group revised based on photos, Feb 2021; is 3 humpbacks, 0 fins.”

ID F224 E1052 8/20/2019 – Species = beluga (chgd from bowhead), notes “species changed based on BPC imagery cross analysis”

2018 FGF edits:

ID 38634 F33 E1021 9/20/2018 – saved=0

ID 38693 F33 E1075 9/20/2018 – saved=0

ID 38749 F33 E1124 9/20/2018 – saved=0

Background:

During FGF sessions, in the FGF windows, if the data recorder selects Quit Without Saving, a text file is generated in the flight text files folder, and the record is (at least sometimes) going into the flight data table as saved=1. Under normal data entry circumstances, if a data recorder selects Quit Without Saving, the a text file will be generated, and a record of saved=0 will be populated in the database; therefore, a few of these records need to be changed to saved=0 (see F33 notes below).

In some of these FGF records, when Quit Without Saving is selected, sometimes the text file is not generated in the FGF text files folder (that folder is stored within the flight's text files folder) and even if the text file is generated in the FGF text files folder, it's not going into the FGF table.

F33 (E1021, E1075, E1124 – saved=0):

Began with a failed FGF session (series 1), then had a successful FGF session (series 2). For series 1, E1021 (an enttag 9 event) is saved=1 in the flight 33 table, but is not in the FGF table. This event does have a text file in both the Flight 33 text files folder and the FGF text files folder. The fields that the DR would manually fill in (TotalWhales, Calfno, Certainty, Photos, Notes) were blank in the FGF text file. In series 2, two enttag 9 events (E1075 & 1124) are saved=1 in the flight 33 table, but are not in the FGF table. There are text files for both events in the Flight 33 text files folder. In the FGF text files folder, there is a text file for E1124, but not E1075. The E1124 FGF text file was blank in the fields the DR would manually fill in, and it would have been a down entry following a down entry, which is another thing that makes me think this was an event that was Quit Without Saving instead of Saved during data entry.

F25 (no change):

a failed FGF session, only 3 events with enttag 9 in F25 table, 2 of which were unsaved during post-flight editing (E368 & 369). In the FGF table, there are 2 events, one of them unsaved during post-flight editing (E369). E368 never made it into the FGF table. There is a text file for E368 in the flight text files folder, but there is no text file for E368 in the fgf text file folder.

Aerial_Master_2018_2019_v6 Version History

Edits made by AAB

11 August 2020

ID 131753 F40 E56 9/27/2019 – DIST_FROM_SHORE 1.52

Aerial_Master_2018_2019_v5 Version History

Edits made by AAB

29 April 2020

Updates based on ALW gray whale body condition assessment using photos:

ID 91969 F205 E352 7/7/2019 – Final_group 2, added to notes “final grp updated after img review”

ID 92003 F205 E383 7/7/2019 – notes “SH fr 96-148”

ID 92007 F205 E387 7/7/2019 – Final_group 2, notes “SH fr 149-186, final grp updated after img review”

ID 92204 F205 E565 7/7/2019 – Final_group 4, added to notes “final grp updated after img review”

ID 98219 F215 E106 8/2/2019 – Final_group 6, added to notes “final grp updated after img review”.
ALW notes about this edit: “E106 and 109 have lumped photos; as of now the final group for these two events = 4 whales (E106 = 3, E109 = 1), but there are 7 whales in the associated images. Since they call out the outlier that they mark at 109, I think it’s safe to add the 3 whales to E106.”

ID 98248 F215 E132 8/2/2019 – Final_group 6, notes “L.Barry frames 318-484; one smaller individual. Final grp updated after img review”

ID 98301 F215 E180 8/2/2019 – Final_group 3, notes “L.Barry renumbered frames 574-607, 623-629. Final grp updated after img review”

ID 98310 F215 E189 8/2/2019 – Final_group 1, notes “L.Barry renumbered frames 608-622, 630-631. Final grp updated after img review”

ID 98338 F215 E214 8/2/2019 – Final_group 2, notes “L. Barry renumbered frames 684-710. Final grp updated after img review.”

ID98352 F215 E227 8/2/2019 – notes “L. Barry renumbered frames 711-804. Final grp updated based on photos.”

ID 72257 F9 E247 8/4/2019 – notes “R. Holt, frames 40-50; photos also taken during repeat sighting E262, fr 69-79”

ID 72268 F9 E257 8/4/2019 – notes “.”, PhotoTaken 0

ID 72274 F9 E262 8/4/2019 – Repeat yes, notes “R. Holt, frames 69-79; photos also taken during original sighting E247, fr 40-50”

ID 72285 F9 E272 8/4/2019 – saved=0 (ALW notes for E272 & E283 edits: “E272 = 2 whale, images 93-108. Those whales are also in the photos for E283 images 128-194. Whale in image 93L = whale in 128-

134, 137-149 (matched the dark bits on 93T's left side of head) and the whale in 93R, 94-108 = whale in 160-171, 176-189.")

ID 72297 F9 E283 8/4/2019 – notes: updated frame #s to 93-108, 128-194.

Compacted & Repaired.

Aerial_Master_2018_2019_v4 Version History

Edits made by AAB
31 March 2020

Updates based on 2019 photo QAQC:

F204 E303 – notes “LB fr 1404 to 1465” (removed note about checking photos for calf; not sure why the note was there. AAB checked photos on 11 March 2020 and did not see a calf. There is a calf in the database, but did not edit that: just because there isn’t a calf in the photos doesn’t mean the observers didn’t see one.)

F204 E325 – notes “LB fr 1524 to 1540” (removed note about checking photos for calf; not sure why the note was there. AAB checked photos on 11 March 2020 and did not see a calf.)

F206 E611 – notes “LB fr 164-233, behavior was flipping and flopping - maybe feeding or scratching itself”

F207 E347, 478 – added to notes “FGF whales”

F207 E380 – notes “KP fr 310-392 during laptop swap, FGF whales”

F207 E402 – notes “.”, PhotoTaken 0

F208 E140 – notes “LB fr 219-293” (corrected frame #s, said 209 not 219)

F215 E78 – notes “L.Barry frames 1-28, 59-85”

F215 E97 – notes “L.Barry frames 29-58, 86-142; smaller animal”

F215 E106 – notes “L.Barry frames 143-285; group of 3 with additional singleton in area but >5 body lengths away”

F215 E109 – notes “L.Barry frames 143-285; individual > 5 body lengths away”

F215 E127 – notes “L.Barry frames 286-317”

F215 E132 – notes “L.Barry frames 318-484; one smaller individual at least three in photo series”

F215 E156 – notes “L.Barry frames 485-532; healed prop scar on dorsum”

F215 E160 – notes “L.Barry frames 533-537; (last frames on 1st card)”

F215 E167 – notes “L. Barry frames 1-36 (begin frames on 2nd card) (renumbered frames 538-573)”

F215 E180 – notes “L.Barry frames 37-70 (renumbered frames 574-607)”

F215 E189 – Final_group 2, notes “L.Barry frames 71-94 (renumbered frames 608-631). Final grp updated based on photos.”

F215 E199 – notes “L. Barry frames 95-129 (renumbered frames 632-666); photo frames are for this event and E204”

F215 E204 – notes “L. Barry frames 95-129 (renumbered frames 632-666); photo frames are for this event and E199”

F215 E210 – notes “L. Barry frames 130-146 (renumbered frames 667-683)”

F215 E214 – notes “L. Barry frames 147-171 (renumbered frames 684-708). Frames 709-710 may be part of this sighting also based on timing, which would make this a new whale, but photos are subsurface and tough to say for sure.”

F215 E227 – Final_group 6, notes “L. Barry frames 172-267 (renumbered frames 709-804. Final grp updated based on photos.”

F219 E169 – notes “S. Hanlan, frames 1-171; additional behavior for calf = log play”

F220 E367 – notes “C.Accardo, frames 720-882 (renumbered frames 1-163)”

F220 E522 – notes “C.Accardo, frames 883-937 (renumbered frames 165-218)”

F223 E646 – notes “S.Hanlan, frames 1-45, sup carcass being eaten by polar bear E658”

F223 E658 – notes “S.Hanlan, frames 1-45, sup carcass E646 being eaten by polar bear”

F232 E900 – Final_grp 5600, Low_estimate 5000, High_estimate 7000 (haulout count estimates from photos were not completed in the field, so AAB did estimates in March 2020)

F232 E902 – Final_grp 300, Low_estimate 300, High_estimate 500 (haulout count estimates from photos were not completed in the field, so AAB did estimates in March 2020)

F232 E903 – Final_grp 4400, Low_estimate 4000, High_estimate 6000 (haulout count estimates from photos were not completed in the field, so AAB did estimates in March 2020)

F234 E349 – notes “LB; frames 232-305 (1st whale in fr 232-269; 2nd whale in fr 270-305); spotted while circling on E406”

F234 E376 – Species bearded seal

F235 E255 – notes “NM; frames 1-5, 14-23 (1st fin fr 14-22; 2nd fin on circling fr 1-5, 23)”

F235 E261 – PhotoTaken 0

F242 E734 – corrected frame numbers in notes to 153-168

F248 E773 – corrected frame numbers in notes to 1-38

F257 E144 – corrected frame numbers in notes to 1-30

F259 E337 – corrected frame numbers in notes to 47-99

F259 E353 – corrected frame numbers in notes to 100-137

F269 E524 – added to notes “No polar bears were found in photos.”

F7 E1060 – Final_grp 24, High_estimate 24, Calfno 8, Calf_on_circle 8 (AAB recounted polar bears in photos while QAQC'ing photos March 2020)

F9 E257 – notes “R. Holt, frame 68 (is spacer photo, no whales), associated w/ E256”

F17 E734 – notes “RH fr 1-10, 16-17”

F23 E286 – notes “N. Metheny frames 93-122. belly up”

F40 E929 – corrected frame numbers in notes to 83-106

F42 E150 – notes “C.Accardo, frames 105, very white fluke”

F47 E940 – Final_group 7, added to notes “Final grp updated from photos”

F409 E149 – corrected frame numbers in notes to 1-13

F409 E164 – Calfno 0, notes “R.Hardee frames 14-17” (Originally in data as calf; time on photos matches this sighting and no others; photos show this is not a calf.)

Aerial_Master_2018_2019_v3 Version History

Edits made by Mike Hay

7 March 2020

2019 Distance from shore edits: (the previous entries were shown in meters instead of kilometers)

Flt_No	Event	GMT_Minus8	DIST_FROM_SHORE
32	454	9/8/2019	-0.152
32	456	9/8/2019	0.109
49	201	10/10/2019	-0.525
49	204	10/10/2019	-0.289

Aerial_Master_2018_2019_v2 Version History

Edits made by AAB

6 March 2020

F33, E298, 9/9/2019 – notes “VB fr 17-92. Cow-calf additional behavior = apparent nursing. Rosalind Rolland NEAQ hypothesizes the cow has congenital scoliosis per email 9/13/2019”

F206, E599, 7/11/2019 – notes “LB fr 133-163. Suspect killer whale predation: blunt trauma to chin, left jaw, and rostrum compromised”

F30, E602, 9/5/2019 – notes “V. Beaver frames 139-154. Confirmed species from photos. Partial carcass. Repeat from F19 E183 8/22/2019. Cause of death: killer whale predation via image review of 8/22/2019 F19 E183.”

F234, E728, 9/5/2019 – notes “LB; frames 331-356. ID changed after image review. Resight of F231 E314 8/30/2019. Cause of death: killer whale predation via image review of 8/30/2019 F231 E314.”

F27, E237, 9/2/2019 – notes “C. Accardo fr 5-36. Repeat sighting of carcass from F23 E86 8/28/2019. Resighted on 27 Sep F40 E929. Cause of death: killer whale predation via image review of 8/28/2019 F23 E86.”

F40, E929, 9/27/2019 – notes “C. Accardo, frames 50-106, repeat sighting from 28Aug2019 F23 E86 and 2Sep F27 E237. Cause of death: killer whale predation via image review of 8/28/2019 F23 E86.”

F25, E908, 8/30/2019 – notes “C. Accardo frames 1-32. Cause of death could not be determined.”

F234, E17, 9/5/2019 – notes “LB; frames 1-18, more accurate location in repeat E22; species identified from photos post flight. Cause of death: killer whale predation.”

F256, E418, 10/10/2019 – notes “VB, frames 49-59. Repeat of 9/5/2019 F234 E22. Cause of death: killer whale predation via image review of 9/5/2019 F234 E17”

F41, E1077, 9/28/2019 – notes “R. Hardee, frames 79-87; approx clino 60, polar bear from E1079 was swimming next to carcass. Cause of death could not be determined; carcass too decomposed/globster”

F18, E938, 8/21/2019 – notes “R. Holt, frames 108-128, lots of birds. Cause of death unknown, likely Greenland shark scavenging.”

F22, E155, 8/27/2019 – notes “R. Holt frames 20-63. right side up? Cause of death unknown, possible ship strike.”

F2, E131, 7/21/2019 – Behavior SAG, notes “VB, fr 72-95”

F256, E463, 10/10/2019 – Calf 1, Calf_on_circle 1, notes “VB, frames 82-84; G.Sheffield ID’d as young walrus on 10/16/2019 Level A email; Calf & Calf_on_circle changed to 1.”

Aerial_Master_2018_2019_v1 Version History

Edits made by AAB

19 February 2020

Mike Hay updated the Block field to "1a" for the following events:

YEAR	Flt_No	Event
2018	7	412
2018	7	421
2018	7	542
2018	7	556
2018	11	695
2018	11	704
2018	11	724
2018	11	760
2018	11	781
2018	15	787
2018	24	337
2018	24	424
2018	33	370
2018	33	371
2018	33	373
2018	33	395
2018	33	403
2018	33	580
2018	37	17
2018	207	396
2018	207	423
2018	207	426
2018	207	906
2018	207	955
2018	207	969
2018	240	173
2018	240	205
2019	4	300
2019	4	314
2019	4	323
2019	13	448
2019	15	274
2019	18	209
2019	22	199
2019	22	522
2019	23	43
2019	27	278
2019	27	279

2019	27	282
2019	27	297
2019	27	298
2019	28	190
2019	28	202
2019	33	627
2019	40	974
2019	40	981
2019	41	530
2019	44	567
2019	44	579
2019	44	593
2019	46	307
2019	48	589
2019	49	270
2019	49	271
2019	245	729
2019	245	809
2019	245	813
2019	245	814
2019	245	879
2019	264	688

AAB mapped all Block 1 events and found more sightings along the Block 1 shoreline that were not included in the Block 1 to Block 1a update because the Block 1a shapefile did not extend all the way to overlap the shoreline. AAB updated these events to Block 1a:

ID	Event	Flight	Date
4064	293	7	7/31/2018 15:12
4354	554	7	7/31/2018 17:04
7530	752	11	8/12/2018 15:46
71975	277	8	8/2/2019 11:32
72021	300	8	8/2/2019 11:43
127305	615	33	9/9/2019 13:38
127327	635	33	9/9/2019 13:48
127333	640	33	9/9/2019 13:50

Carcass updates:

2018:

7/30/2018 Flt 214 E1121 – Removed note about being resighted; was NOT resighted.

7/30/2018 Flt 214 E1130 – added to notes: Resighted on 8/8/18 F218 E24 (F218 unphotographed, resight based on position)

2019:

E525, F206, 7/11/2019 – added to notes: Cause of death could not be determined.

E223, F210, 7/18/2019 – added to notes: Killer whale predation “(based on images of original sighting).”

E361, F214, 7/27/2019 – added to notes: Killer whale predation.

E449, F247, 9/26/2019 – added to notes: Suspect killer whale predation.

E533, F256, 10/10/2019 – added to notes: Killer whale predation “(based on images of original sighting)”

E199, F260, 10/17/2019 – added to notes: Killer whale predation.

E186, F262, 10/20/2019 – added to notes: Killer whale predation “(based on images of original sighting)”

E113, F265, 10/24/2019 – added to notes: Killer whale predation

Compacted & Repaired.

Aerial_Master_2018_2019_v0 Version History

Edits made by AAB

5 February 2020

Copied "Aerial_Master_2018_v6" and renamed to "Aerial_Master_2018_2019_v0".

Appended 2019 data from "Aerial_Master_2019_v3" to the "Aerial_Master_2018_2019_v0" master database:

In "Aerial_Master_2019_v3", added Lat, Long, Icepercent, UTMZ6X, and UTMZ6Y fields to match master database for appending 2019 to 2018 master database. In the Design View of the table, tried to change the Data Type to Number and Field Properties Field Size to Single for Lat, Long, UTMZ6X/Y to match the master databases. Received error that "Microsoft Access can't change the data type. There isn't enough disk space or memory." So I appended anyway with the Data Types and Field Sizes not matching (thinking that it might not matter anyway since those fields are blank in these years; they fields only need to be there for when combining this data with the 1979-2011 database), and the append went fine.

In SummaryInfo table of "Aerial_Master_2018_2019_v0", inserted fields of CAPsCircMin and CAPsCircKilo to match 2019 table.

Ran Append queries for the FlightInfo & SummaryInfo tables.

Copied over the 2019 Sightings_CAPs & SummaryInfo_CAPs tables to "Aerial_Master_2018_2019_v0". (2018 CAPs info did not yet live in the 2018 master database.)

Copied the 2018 CAPs Sightings and CAPs SummaryInfo data into the respective tables in "Aerial_Master_2018_2019_v0".

All 2018 & 2019 data are now housed in the Aerial_Master_2018_2019_v0 master database.

Aerial_Master_2019_v3 Version History

Edits made by AAB

4 February 2020

F201 E564 (7/2/2019) – notes “LB fr 15-25, ID via image review. Resight from 2018: ID25057 E943 F214 7/30, ID26688 E330 F218 8/8, ID28436 E359 F222 8/19. Confirmed KW predation from 2018. Resighted on 7/23/2018 F213 E500, 10/10/2019 F256 E503”

F213 E500 (7/23/2019) – notes “LB fr 113-146. Resight from 2018: ID25057 E943 F214 7/30, ID26688 E330 F218 8/8, ID28436 E359 F222 8/19. Resighted in 2019: 7/2/2019 F201 E564, 10/10/2019 F256 E503. Approx clino 20. KW predation confirmed in 2018.”

F256 E503 (10/10/2019) notes “VB, fr 106, 110-113; ID via img review. Resight from 2018: ID25057 E943 F214 7/30, ID26688 E330 F218 8/8, ID28436 E359 F222 8/19. Resighted in 2019: 7/2/2019 E564 F201, 7/23/2019 F213 E500. KW predation confirmed in 2018.”

F246 E190 (9/25/2019) – notes “N. Metheny, frames 341-368. Resighted: F256 E533 10/10/2019, & F262 E186 10/20/2019”

F256 E533 (10/10/2019) – notes “VB, frames 132-146. Resight of F246 E190 9/25/2019, & resighted on F262 E186 10/20/2019”

F18 E938 – notes “R. Holt, frames 108-128, lots of birds. Killer whale predation & suspect shark scavenging.”

F19 E183 – notes “about 50 ft from shore in water, lots of birds; K. Jackson, frames 129-191; carcass resighted on F30 E602 9/5/2019. Killer whale predation.”

F22 E155 – notes “right side up? R. Holt frames 20-63. Killer whale predation and/or suspect ship strike.”

F23 E86 – notes “Species confirmed; N. Metheny frames 1-92; Carcass resighted on 2 Sep Flt 27 E237, and on 27 Sep F40 E929. Killer whale predation.”

F231 E314 – notes “frames 21-59, NM; clino angle was from observer, not approximated; resighted on 5Sep2019 F234 E728. Killer whale predation.”

F33 E523 – notes “VB fr 160-173; associated with 4 polar bears in E524. Killer whale predation.”

F40 E128 – notes “C.Accardo, frames 1-49. Killer whale predation.”

F234 E22 – notes “LB; frames 1-18, this is more accurate location than original sighting E17; species identified from photos post flight. Killer whale predation.”

F208 E206 – notes “LB fr 406-443; Resighted on 18July2019 F210 E223. Killer whale predation.”

F210 E223 – notes “N. Metheny, frames 1-27; Resight of Er from F208, E206, 7/13/2019. Killer whale predation.”

F246 E190 – notes “N. Metheny, frames 341-368. Resighted: F256 E533 10/10/2019, & F262 E186 10/20/2019. Killer whale predation.”

F256 E533 – notes “VB, frames 132-146. Resight of F246 E190 9/25/2019, & resighted on F262 E186 10/20/2019. Killer whale predation.”

F262 E186 – notes “Vicki Beaver, frames 1-13; resight of 9/25/19 F246 E190 and 10/10/19 F256 E533. Killer whale predation.”

F247 E449 – notes “S. Hanlan, frames 186-283. Killer whale predation.”

F256 E457 – notes “VB, frames 69-81. Killer whale predation.”

F41, E1079 – DIST_FROM_SHORE 1.7

Renamed “Size_” field to “Size”

Compacted & Repaired

Appended 2019 data to the Aerial_Master_2018_2019_v0 master database:

Added Lat, Long, Icepercent, UTMZ6X, and UTMZ6Y fields to match master database for appending 2019 to 2018 master database. In the Design View of the table, tried to change the Data Type to Number and Field Properties Field Size to Single for Lat, Long, UTMZ6X/Y to match the master databases. Received error that “Microsoft Access can't change the data type. There isn't enough disk space or memory.” So I appended anyway with the Data Types and Field Sizes not matching (thinking that it might not matter anyway since those fields are blank in these years; they fields only need to be there for when combining this data with the 1979-2011 database), and the append went fine.

Ran Append queries for the FlightInfo & SummaryInfo tables. (Prior to SummaryInfo append, needed to add CAPsCircMin and CAPsCircKilo fields to the 2018-2019 master SummaryInfo table.)

Copied over the Sightings_CAPs & SummaryInfo_CAPs tables. (2018 CAPs info did not yet live in the master database.)

2019 data is now housed in the Aerial_Master_2018_2019_v0 master database.

Aerial_Master_2019_v2.mdb

Edited by AAB
15 November 2019

Response=no, NoReacted=0

Event	Flt_No
709	7
195	20
214	20
302	20
305	20
307	20
318	20
319	20
328	20
365	20
366	20
367	20
368	20
371	20
372	20
373	20
374	20
375	20
389	20
392	20
393	20
396	20
405	20
407	20
424	20
208	231
232	231
233	231
238	231
242	231
250	231
259	231
261	231
262	231
388	231
409	231
450	231

465	231
466	231
471	231
506	231
512	231
599	231
604	231
606	231

F36 E795 – Species vessel research, Sightcue vessel, Family 4

F231 E795 – Species buoy

Aerial_Master_2019_v1.mdb

Edited by AAB
7 November 2019

These are edits that were made to v5 & v6 of "ASAMM_ABA_JulAug2019.mdb". Mike used v4 when he combined the final Jul-Aug data with the Sep-Oct data, so I made these edits again, this time to his "Aerial_Master_2019_v0" Jul-Oct resummarized data.

F16 E97 – Dist_from_Shore 0.066

F201 E76, 79, 82, 83, 86; F211 E462, 478, 486 – Block 0

Aerial_Master_2019_v2.mdb

Edited by AAB

15 November 2019

Response=no, NoReacted=0

Event	Flt_No
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709	7
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195	20
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214	20
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302	20
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305	20
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307	20
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375	20
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389	20
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392	20
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393	20
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396	20
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405	20
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407	20
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424	20
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208	231
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232	231
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233	231
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238	231
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242	231
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259	231
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261	231
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262	231
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388	231
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409	231
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450	231
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465	231
466	231
471	231
506	231
512	231
599	231
604	231
606	231

F36 E795 – Species vessel research, Sightcue vessel, Family 4

F231 E795 – Species buoy

Aerial_Master_2019_v1.mdb

Edited by AAB

7 November 2019

These are edits that were made to v5 & v6 of "ASAMM_ABA_JulAug2019.mdb". Mike used v4 when he combined the final Jul-Aug data with the Sep-Oct data, so I made these edits again, this time to his "Aerial_Master_2019_v0" Jul-Oct resummarized data.

F16 E97 – Dist_from_Shore 0.066

F201 E76, 79, 82, 83, 86; F211 E462, 478, 486 – Block 0

Aerial_Master_2018_v6 Version History

Edits made by AAB
4 February 2020

ID 56137, E602, F240 (9/26/2018) – notes “N.BrandtTurner fr37-51. Likely yearling. R.Stimmelmayer 11/29/18 orca predation=extensive soft tissue damage, missing tongue + soft tissue lower jaw, blubber stripping abdomen/chest; ventral evisceration/muscle damage; tissue defects fluke n both flippers”

ID 57931, E240, F243 (9/30/2018) – notes “K.Pagan, fr 1-47. Likely yearling. R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= chin tissue defect; right throat bite marks/tissue defects; partial rostrum missing (img 0029); img 0024 suggests bite marks to tip of L and R flukes”

Replaced all “FFOV”, “p on FFOV”, and “s on FFOV” with “FOV”, “p on FOV”, and “s on FOV”

F249 10/8/2018:

*ID61593 E160 – end transect, changed all sighting info to null, saved=1, notes “backtracking to begin CAPs”, FltType 4, enttag 1, copied ArcLat/Long to Lat/LongTemp

*ID61594 E161 – deadhead, changed all sighting info to null, changed environmental conditions to NA, saved=1, FltType 1, Transect_id “.”, enttag 1, copied ArcLat/Long to Lat/LongTemp

*ID 61595 E162, ID 61596 E163, ID 61597 E164, ID 61602 E169, ID 61604 E170 – p on deadhead, changed all sighting info to null, changed environmental conditions to NA, saved=1, FltType 1, Transect_id “.”, enttag 2, copied ArcLat/Long to Lat/LongTemp

*ID 61805 E352 – end transect, changed all sighting info to null, saved=1, notes “backtracking to begin CAPs”, FltType 4, Transect_id “.”, enttag 1, copied ArcLat/Long to Lat/LongTemp

*ID 61806 E353 – deadhead, changed all sighting info to null, changed environmental conditions to NA, saved=1, FltType 1, Transect_id “.”, enttag 1, copied ArcLat/Long to Lat/LongTemp

*ID 61807 E354, ID 61808 E355, ID 61816 E362, ID 61818 E364, ID 61819 E364 – p on deadhead, changed all sighting info to null, changed environmental conditions to NA, saved=1, FltType 1, Transect_id “.”, enttag 2, copied ArcLat/Long to Lat/LongTemp

ID25057 E943 F214 (7/30/2018) – notes “LB fr17-73. Resight: 8/8/18 F218 E330, 8/19/18 F222 E359; in 2019 7/2 F201 E564, 7/23 F213 E500, 10/10 F256 E503. FOV target 7/31/18 F214 E102. R.Stimmelmayer 11/29/18 orca predation=rostrum jaw head part missing w/skin peeled; bite marks: R flipr+fluke”

ID 26688 E330 F218 (8/8/2018) – notes “LB1-28;Floater7/30/18F214E943,7/31/18F215E102.FOVtarg,8/19/18F222E359.R.Stimmelmayer11/29/18Orcapred=Peeled;R.BonesExposd;partl head/throat/tongue gone;Ped damage;FlukePartlyGone;BlubrBruising(18)LatAnal;Bite;DefectBlowHole(27).Resighted7/2/2019F201E564”

ID 28436 E359 F222 (8/19/2018) – notes “CAfr103-117. Resight 7/30/18F214E943, 7/31/18F215E102 unphoto’d FOV target, 8/8/18F218E330. R.Stimmelmayer11/29/18 orca predation=partial carc; HeadMostlyGone; RostrumBoneExposed; R FliprPhalangesExposed;TisDefect L FliprW/rakeMarks. Resight 7/2/19F201E564”

Compacted & Repaired.

Aerial_Master_2018_v5 Version History

Edits made by AAB

7 June 2019

ID1894 F211 E380 7/21/2018 – Behavior dead

ID61967 F249 E499 – sop “I”

ID15410 F202 E256 – Species polar bear, Family 3, notes "M.Foster frames 1-14; polar bear with fresh bearded seal carcass found in post-flight photo review, frame 12, kill site is old"

ID15408 F202 E257 – s on transect, Species bearded seal, Sightcue body, Habitat broken floes, Behavior dead, Final_group 1, Response no, NoReacted 0, Observer Amy Willoughby, PrimObs 1, Block 13, Depth_m -55, notes "M.Foster frames 1-14; polar bear with fresh bearded seal carcass found in post-flight photo review, frames 10, 12, kill site is old", FltType 2, Family 2, enttag 3, DIST_FROM_SHORE 59.1957959516958, PhotoTaken 1

ID15409 F202 E258 – divert to circling, added environmental, FltType 5, Transect_id 5, enttag 1, filled in crew, PhotoTaken 0

ID18815 F207 E280 – added to notes "post-flight photo review: mouth open"

ID22746 F213 E1024 – notes - edited frame #s: 27 only (removed 28)

ID4083 F214 E1130 – notes – edited frame #s to start at 119

ID28466 F222 E386 – notes – edited frame #s: 127-128, 131-138

ID14473 F21 E402 – notes – edited frame #s: 1-11

ID32709 F23 E475 – notes – edited frame #s: 42-52

ID33687 F25 E153 – notes – edited frame #s: 1-14

ID33880 F25 E327 – notes – edited frame #s: 15-27

ID36236 F28 E311 – notes – edited frame #s: 1-25

ID39826 F33 E989 - notes "photos taken during FGF effort, E1172"

ID49900 F232 E415 – notes – edited frame #s: C.Accardo, fr 19-27 & 32-37, zoomed out photos all 3 grps 28-31, USGS camp fr 38-45

ID49907 F232 E422 – notes – edited frame #s: C.Accardo, fr 1-14 & 17, zoomed out photos all 3 grps fr 28-31

ID51408 F234 E421 – notes – edited frame #s: 17-33

ID51410 F234 E423 – notes – edited frame #s: 11, 15-16

ID51411 F234 E424 – notes – edited frame #s: 9-16

ID54782 F239 E282 – notes – edited frame #s: 11-22

ID59397 F245 E105 – notes – edited frame #s: 1-11, 14-21

ID59398 F245 E106 – notes – edited frame #s: 4-5, 10-13, 21-27

ID62887 F250 E91 – notes, added "Event triggered CAPs, chgd to saved=0"

Aerial_Master_2018_v4 Version History

Edits made by AAB

5 February 2019

ID 28320 F222, E254 – Habitat barrier island, Behavior hauled out

Aerial_Master_2018_v3 Version History

Edits made by AAB

11 December 2018

A diversion out to 5 km lateral distance from the walrus haulout was in the data as coastal transect, and we decided to change it to search since at 5 km, the coast isn't really being surveyed (i.e., the haulout may be visible, but smaller things like carcasses will not be visible) and it doesn't make sense to call it a coastal transect. Mike reran the SummaryInfo table to reflect the km and min on transect, search, and total km and min. Replaced the SummaryInfo table.

Added notes for course diversions when pilots had inaccurate gps waypoint, when start of transect was a little off, or when transect was diverted due to whaling:

ID 15341 F202 E196 – notes “transect waypoints entered into pilot gps incorrectly; course adjustment corrected at E271”

ID 15423 F202 E271 – notes “transect waypoints entered into pilot gps incorrectly at start of this transect (E196); course adjusted here.”

ID 15254 F202 E118 – notes “overshot start of transect by ~4 km”

ID 21718 F211 E222 – notes “pilots had inaccurate heading; course adjustment and back on transect line at E251”

ID 33457 F24 E346 – notes “deviating around Cross Island due to whaling”

ID 16804 F204 E227 – notes “transect waypoint was off; course adjustment until E243 when on transect line”

Carcass updates based on R.Stimmelmayer image review and genetics results from sampling of carcasses documented by ASAMM in 2018 (Resightings of the **SAME** whale are color coded. E.g., all **blue** headings are the same carcass.):

ID23326, E450, F213, 7/29/2018

Notes = Pagan fr 1-13; sp. chgd post flt; R.Stimmelmayer 11/29/18: orca predation=L flpr tissue defect w/circular bites (img2) & bite to insertion leading edge; R flpr sm. circular tis. defect; throat missing; mid ped circular bite mark (img12) Sp. likely Er

ID25057, E943, F214, 7/30/2018

Notes = Barry fr17-73, resighted 8/8/18 F218 E330 & 8/19/18 F222 E359; unphotographed but FFOV target on 7/31/18 F214 E102; R.Stimmelmayer 11/29/18: orca predation=rostrum, jaw, & head partially missing w/skin peeled; bite marks to leading edge R flpr + fluke.

ID24073, E1121, F214, 7/30/2018

Species = gray whale

Notes = Barry, fr96-118; post-flt chg=Er&LevelA, R.Stimmelmayer8/3/18Site vis chg=unid?Rorqual, genetics=Er12/4/18; position likely unphoto'd/resited 8/8/18F218E24; R.Stimmelmayer11/29/18: orca predation=head/jawMissing;TibiaRadiusRemain;TisDefectAnusArea;NoFlukes

ID24083, E1130, F214, 7/30/2018

Notes = L.Barry, fr 118-131; R.Stimmelmayer 11/29/2018: injuries consistent with killer whale predation = head and rostrum missing; chest evisceration; interesting cut in the back

ID25124, E102, F215, 7/31/2018

Notes = FFOV target, whale was originally sighted/photographed on F214 7/30/18 E943 and again on 8/8/2018 F218 E330 & 8/19/2018 F222 E359; see notes field for add'l sightings for details on killer whale predation with decomposition progression

ID26588, E24, F218, 8/8/2018

Habitat = beach

Notes = Unphotographed; Likely resight of 7/30/2018 Flt 214 E1130 based on plotted positions

ID26688, E330, F218, 8/8/2018

Notes = Barry1-28; Floater7/30/18F214E943,7/31/18F215E102 unphoto'd FFOV targ, 8/19/18F222E359. R.Stimmelmayer11/29/18Orca pred=Peeled; R bones exposd; partl head/throat/tongue gone;Ped damage; FlukePartllyGone;BlubrBruising(18)LatAnal;Bite; DefectBlowHole(27)

ID27038, E121, F219, 8/9/2018

Notes = Pagan fr 1-13; R.Stimmelmayer 11/29/18: injuries consistent w/killer whale predation=bruising chest neck region; L flipper bite marks; pos tissue defect behind L flipper; belly eviscerated - see skin flap left side; beautiful bite marks on dorsum

ID28379, E306, F222, 8/19/2018

Notes = Accardo70-83. R.Stimmelmayer11/29/18 injuries consistent w/killer whale predation=lg tissue defect R jaw, head, chest region w/ribs exposed; jaw bone exposed; 2 half-moon shaped bite marks dorsal mid body; R fluke trailing edge tissue defects right

ID28436, E359, F222, 8/19/2018

Notes = Accardo 103-117. Resight 7/30/18F214E943, 7/31/18F215E102 unphoto'd FFOV target, 8/8/18 F218 E330. R.Stimmelmayer11/29/18 orca predation=partial carc; head mostly gone; Rostrum Bone Exposed; R Flipr Phalanges Exposed; tis defect L flipr w/rake marks

ID28477, E396, F222, 8/19/2018

Notes = C.Accardo fr139-150; Resighted 9/2/18 F228 E267; R.Stimmelmayer 11/29/18 img review + site visit orca predation=body bruising; broken jaw; gut evisceration; tongue/throat missing; fluke bite marks, R flipr bites; NSB sent LevelA not ASAMM

ID47225, E267, F228, 9/2/2018

Notes = E287BetterPosition, copd E287 ArcLat/Long&Lat/LongTemp Beaver 57-65 1st seen 8/19/18F222E396. R.Stimmelmayer 11/29/18 img+site vis orca predation=lg tis defects ab/chest w/evisceration; brkn jaw, imgs 1 month later carcass has scavenging

ID47240, E280, F228, 9/2/2018

Species = bowhead whale

Notes = Beaver fr 66-74 Resighted 9/22/18 F237E106; R.Stimmelmayer 11/29/18 img+site vis; orca kill; clear slash/bites head reg; jaw/head is missing; evisceration; fluke only fray of thin tissue. Genetic=Bm; NSB sent LevelA not ASAMM

ID47420, E391, F228, 9/2/2018

Species = unid cetacean

Notes = Beaver 75-89 (calf?) email w/R.Stimmelmayer 11/8/18 chgd to unid cet; Stimmelmayer 11/29/18 orca predation=R flip bites leading edge; L fluke tips, leading, +trailing edge bites; 2 half-moon tis defects throat+insertion R fluke; img 88 bites to chest @R bod wall

ID47711, E672, F228, 9/2/2018

Notes = VB, frames 92-104; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=eviscerated; rostrum/throat/jaw partially missing; L flipper missing; (what are the linear cuts see img 0099 at the head); extensive predation

ID50511, E440, F233, 9/16/2018

Notes = C.Accardo, fr 1-16, likely throat grooves, size of minke, small humpback, or fin. R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=head and partial chest missing; flippers missing; flukes tissue defect; extensive tissue loss

ID53353, E99, F237, 9/22/2018

Notes = C.Accardo 1-10. Originally sighted 8/19/18 F222 E396, resighted on 9/2/18 F228 E267; Stimmelmayer 11/29/18 img review+site visit; orca predation=jaw exposed and it looks like tissue damage to head, throat and chest massive tissue defect

ID53137, E106, F237, 9/22/2018

Species = bowhead whale

Notes = C.Accardo, fr 11-21. genetic results = Bm. Resight of 9/2/18 F228 E280; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= see notes field 9/2/18 F228 E280

ID56137, E602, F240, 9/26/2018

Notes = N. Brandt Turner 37-51; R.Stimmelmayer 11/29/18 orca predation=extensive soft tissue damage, missing tongue + soft tissue lower jaw, blubber stripping abdomen/chest; ventral evisceration/muscle damage; tissue defects fluke n both flippers

ID57931, E240, F243, 9/30/2018

Notes = K.Pagan, fr 1-47; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= chin tissue defect; right throat bite marks/tissue defects; partial rostrum missing (img 0029); img 0024 suggests bite marks to the tip of L and R flukes

Compacted & Repaired.

Aerial_Master_2018_v2 Version History

Edits made by AAB

6 December 2018

We realized that on Flight 253, a small diversion near the walrus haulout at 5 nm from shore should have been recorded as search instead of as the coastal transect since at 5 nm, the coast isn't really being surveyed (i.e., although the walrus haulout can still be seen, smaller things like carcasses cannot). We made the following changes:

ID 64088 F2523 E319 - resume, added environmentals, FltType 2, Transect_id C, enttag 1, filled in crew, PhotoTaken 0

ID 64089 F253 E320 - end transect, added environmentals, FltType 4, enttag 1, filled in crew, PhotoTaken 0

ID 64090 F253 E321 - p on search, FltType 4, Transect_id "."

ID 64097 F253 E328 - p on search, FltType 4, Transect_id "."

ID 64101 F253 E331 - p on search, FltType 4, Transect_id "."

ID 64093 F253 E324 - p on search, FltType 4, Transect_id ".", enttag 2

ID 64100 F253 E330 - s on search, FltType 4, Transect_id "."

ID 64103 F253 E333 - s on search, FltType 4, Transect_id "."

ID 64104 F253 E334 - s on search, FltType 4, Transect_id "."

ID 64107 F253 E337 - FltType 6, Transect_id "."

ID 64117 F253 E346 - FltType 4, Transect_id "."

ID 64123 F253 E351 - p on search, FltType 4, Transect_id "."

ID 64124 F253 E352 - p on search, FltType 4, Transect_id "."

ID 64130 F253 E358 - start transect, enttag 1

Aerial_Master_2018_v1 Version History

Edits made by AAB

14 November 2018

Changed "All_Flights" table name to "Output"

Renamed Size field from "Size_" to "Size"

Added fields:

ID

Lat

Long

Icepercent (this field was already added in the data sent from Mike: Aerial_Master_2018_v0.)

UTMZ6X

UTMZ6Y

In Design View of the Output table, copy/pasted the Description entries for each field from the 2015-2017 master database.

Added Icepercent_l Description: Estimate of the percent of ocean surface within the visual range of the left observer (beginning in 2018)

Added Icepercent_r Description: Estimate of the percent of ocean surface within the visual range of the right observer (beginning in 2018)

Added assoc_event Description: FltType 8, enttags 6 & 7 are populated with the Event number of the FltType 8, enttag 3 they are associated with. FltType 8, enttag 3 are populated with the Event numbers of the FltType 8, enttags 6 & 7 they are associated with.

F1 E31654 – changed to E140 (note from Mike as to why it got changed to 31654: I think that happens when a particular keyboard shortcut combo is used and some cell in the database is selected.)

Flt203 E830 – notes: corrected "analysis" misspelling

Aerial_Master_2018_v0 Version History

Edits made by AAB
14 November 2018

This is the Aerial_Master_2018 mdb sent from Mike with the final resummarization and Depth and Distance from Shore fields populated.

Aerial_Master_2018_v5 Version History

Edits made by AAB

7 June 2019

ID1894 F211 E380 7/21/2018 – Behavior dead

ID61967 F249 E499 – sop “I”

ID15410 F202 E256 – Species polar bear, Family 3, notes "M.Foster frames 1-14; polar bear with fresh bearded seal carcass found in post-flight photo review, frame 12, kill site is old"

ID15408 F202 E257 – s on transect, Species bearded seal, Sightcue body, Habitat broken floes, Behavior dead, Final_group 1, Response no, NoReacted 0, Observer Amy Willoughby, PrimObs 1, Block 13, Depth_m -55, notes "M.Foster frames 1-14; polar bear with fresh bearded seal carcass found in post-flight photo review, frames 10, 12, kill site is old", FltType 2, Family 2, enttag 3, DIST_FROM_SHORE 59.1957959516958, PhotoTaken 1

ID15409 F202 E258 – divert to circling, added environmentals, FltType 5, Transect_id 5, enttag 1, filled in crew, PhotoTaken 0

ID18815 F207 E280 – added to notes "post-flight photo review: mouth open"

ID22746 F213 E1024 – notes - edited frame #s: 27 only (removed 28)

ID4083 F214 E1130 – notes – edited frame #s to start at 119

ID28466 F222 E386 – notes – edited frame #s: 127-128, 131-138

ID14473 F21 E402 – notes – edited frame #s: 1-11

ID32709 F23 E475 – notes – edited frame #s: 42-52

ID33687 F25 E153 – notes – edited frame #s: 1-14

ID33880 F25 E327 – notes – edited frame #s: 15-27

ID36236 F28 E311 – notes – edited frame #s: 1-25

ID39826 F33 E989 - notes "photos taken during FGF effort, E1172"

ID49900 F232 E415 – notes – edited frame #s: C.Accardo, fr 19-27 & 32-37, zoomed out photos all 3 grps 28-31, USGS camp fr 38-45

ID49907 F232 E422 – notes – edited frame #s: C.Accardo, fr 1-14 & 17, zoomed out photos all 3 grps fr 28-31

ID51408 F234 E421 – notes – edited frame #s: 17-33

ID51410 F234 E423 – notes – edited frame #s: 11, 15-16

ID51411 F234 E424 – notes – edited frame #s: 9-16

ID54782 F239 E282 – notes – edited frame #s: 11-22

ID59397 F245 E105 – notes – edited frame #s: 1-11, 14-21

ID59398 F245 E106 – notes – edited frame #s: 4-5, 10-13, 21-27

ID62887 F250 E91 – notes, added "Event triggered CAPs, chgd to saved=0"

Aerial_Master_2018_v4 Version History

Edits made by AAB

5 February 2019

ID 28320 F222, E254 – Habitat barrier island, Behavior hauled out

Aerial_Master_2018_v3 Version History

Edits made by AAB

11 December 2018

A diversion out to 5 km lateral distance from the walrus haulout was in the data as coastal transect, and we decided to change it to search since at 5 km, the coast isn't really being surveyed (i.e., the haulout may be visible, but smaller things like carcasses will not be visible) and it doesn't make sense to call it a coastal transect. Mike reran the SummaryInfo table to reflect the km and min on transect, search, and total km and min. Replaced the SummaryInfo table.

Added notes for course diversions when pilots had inaccurate gps waypoint, when start of transect was a little off, or when transect was diverted due to whaling:

ID 15341 F202 E196 – notes “transect waypoints entered into pilot gps incorrectly; course adjustment corrected at E271”

ID 15423 F202 E271 – notes “transect waypoints entered into pilot gps incorrectly at start of this transect (E196); course adjusted here.”

ID 15254 F202 E118 – notes “overshot start of transect by ~4 km”

ID 21718 F211 E222 – notes “pilots had inaccurate heading; course adjustment and back on transect line at E251”

ID 33457 F24 E346 – notes “deviating around Cross Island due to whaling”

ID 16804 F204 E227 – notes “transect waypoint was off; course adjustment until E243 when on transect line”

Carcass updates based on R.Stimmelmayer image review and genetics results from sampling of carcasses documented by ASAMM in 2018 (Resightings of the **SAME** whale are color coded. E.g., all **blue** headings are the same carcass.):

ID23326, E450, F213, 7/29/2018

Notes = Pagan fr 1-13; sp. chgd post flt; R.Stimmelmayer 11/29/18: orca predation=L flpr tissue defect w/circular bites (img2) & bite to insertion leading edge; R flpr sm. circular tis. defect; throat missing; mid ped circular bite mark (img12) Sp. likely Er

ID25057, E943, F214, 7/30/2018

Notes = Barry fr17-73, resighted 8/8/18 F218 E330 & 8/19/18 F222 E359; unphotographed but FFOV target on 7/31/18 F214 E102; R.Stimmelmayer 11/29/18: orca predation=rostrum, jaw, & head partially missing w/skin peeled; bite marks to leading edge R flpr + fluke.

ID24073, E1121, F214, 7/30/2018

Species = gray whale

Notes = Barry, fr96-118; post-flt chg=Er&LevelA, R.Stimmelmayer8/3/18Site vis chg=unid?Rorqual, genetics=Er12/4/18; position likely unphoto'd/resited 8/8/18F218E24; R.Stimmelmayer11/29/18: orca predation=head/jawMissing;TibiaRadiusRemain;TisDefectAnusArea;NoFlukes

ID24083, E1130, F214, 7/30/2018

Notes = L.Barry, fr 118-131; R.Stimmelmayer 11/29/2018: injuries consistent with killer whale predation = head and rostrum missing; chest evisceration; interesting cut in the back

ID25124, E102, F215, 7/31/2018

Notes = FFOV target, whale was originally sighted/photographed on F214 7/30/18 E943 and again on 8/8/2018 F218 E330 & 8/19/2018 F222 E359; see notes field for add'l sightings for details on killer whale predation with decomposition progression

ID26588, E24, F218, 8/8/2018

Habitat = beach

Notes = Unphotographed; Likely resight of 7/30/2018 Flt 214 E1130 based on plotted positions

ID26688, E330, F218, 8/8/2018

Notes = Barry1-28; Floater7/30/18F214E943,7/31/18F215E102 unphoto'd FFOV targ, 8/19/18F222E359. R.Stimmelmayer11/29/18Orca pred=Peeled; R bones exposd; partl head/throat/tongue gone;Ped damage; FlukePartllyGone;BlubrBruising(18)LatAnal;Bite; DefectBlowHole(27)

ID27038, E121, F219, 8/9/2018

Notes = Pagan fr 1-13; R.Stimmelmayer 11/29/18: injuries consistent w/killer whale predation=bruising chest neck region; L flipper bite marks; pos tissue defect behind L flipper; belly eviscerated - see skin flap left side; beautiful bite marks on dorsum

ID28379, E306, F222, 8/19/2018

Notes = Accardo70-83. R.Stimmelmayer11/29/18 injuries consistent w/killer whale predation=lg tissue defect R jaw, head, chest region w/ribs exposed; jaw bone exposed; 2 half-moon shaped bite marks dorsal mid body; R fluke trailing edge tissue defects right

ID28436, E359, F222, 8/19/2018

Notes = Accardo 103-117. Resight 7/30/18F214E943, 7/31/18F215E102 unphoto'd FFOV target, 8/8/18 F218 E330. R.Stimmelmayer11/29/18 orca predation=partial carc; head mostly gone; Rostrum Bone Exposed; R Flipr Phalanges Exposed; tis defect L flipr w/rake marks

ID28477, E396, F222, 8/19/2018

Notes = C.Accardo fr139-150; Resighted 9/2/18 F228 E267; R.Stimmelmayer 11/29/18 img review + site visit orca predation=body bruising; broken jaw; gut evisceration; tongue/throat missing; fluke bite marks, R flipr bites; NSB sent LevelA not ASAMM

ID47225, E267, F228, 9/2/2018

Notes = E287BetterPosition, copd E287 ArcLat/Long&Lat/LongTemp Beaver 57-65 1st seen 8/19/18F222E396. R.Stimmelmayer 11/29/18 img+site vis orca predation=lg tis defects ab/chest w/evisceration; brkn jaw, imgs 1 month later carcass has scavenging

ID47240, E280, F228, 9/2/2018

Species = bowhead whale

Notes = Beaver fr 66-74 Resighted 9/22/18 F237E106; R.Stimmelmayer 11/29/18 img+site vis; orca kill; clear slash/bites head reg; jaw/head is missing; evisceration; fluke only fray of thin tissue. Genetic=Bm; NSB sent LevelA not ASAMM

ID47420, E391, F228, 9/2/2018

Species = unid cetacean

Notes = Beaver 75-89 (calf?) email w/R.Stimmelmayer 11/8/18 chgd to unid cet; Stimmelmayer 11/29/18 orca predation=R flip bites leading edge; L fluke tips, leading, +trailing edge bites; 2 half-moon tis defects throat+insertion R fluke; img 88 bites to chest @R bod wall

ID47711, E672, F228, 9/2/2018

Notes = VB, frames 92-104; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=eviscerated; rostrum/throat/jaw partially missing; L flipper missing; (what are the linear cuts see img 0099 at the head); extensive predation

ID50511, E440, F233, 9/16/2018

Notes = C.Accardo, fr 1-16, likely throat grooves, size of minke, small humpback, or fin. R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=head and partial chest missing; flippers missing; flukes tissue defect; extensive tissue loss

ID53353, E99, F237, 9/22/2018

Notes = C.Accardo 1-10. Originally sighted 8/19/18 F222 E396, resighted on 9/2/18 F228 E267; Stimmelmayer 11/29/18 img review+site visit; orca predation=jaw exposed and it looks like tissue damage to head, throat and chest massive tissue defect

ID53137, E106, F237, 9/22/2018

Species = bowhead whale

Notes = C.Accardo, fr 11-21. genetic results = Bm. Resight of 9/2/18 F228 E280; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= see notes field 9/2/18 F228 E280

ID56137, E602, F240, 9/26/2018

Notes = N. Brandt Turner 37-51; R.Stimmelmayer 11/29/18 orca predation=extensive soft tissue damage, missing tongue + soft tissue lower jaw, blubber stripping abdomen/chest; ventral evisceration/muscle damage; tissue defects fluke n both flippers

ID57931, E240, F243, 9/30/2018

Notes = K.Pagan, fr 1-47; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= chin tissue defect; right throat bite marks/tissue defects; partial rostrum missing (img 0029); img 0024 suggests bite marks to the tip of L and R flukes

Compacted & Repaired.

Aerial_Master_2018_v2 Version History

Edits made by AAB

6 December 2018

We realized that on Flight 253, a small diversion near the walrus haulout at 5 nm from shore should have been recorded as search instead of as the coastal transect since at 5 nm, the coast isn't really being surveyed (i.e., although the walrus haulout can still be seen, smaller things like carcasses cannot). We made the following changes:

ID 64088 F2523 E319 - resume, added environmentals, FltType 2, Transect_id C, enttag 1, filled in crew, PhotoTaken 0

ID 64089 F253 E320 - end transect, added environmentals, FltType 4, enttag 1, filled in crew, PhotoTaken 0

ID 64090 F253 E321 - p on search, FltType 4, Transect_id "."

ID 64097 F253 E328 - p on search, FltType 4, Transect_id "."

ID 64101 F253 E331 - p on search, FltType 4, Transect_id "."

ID 64093 F253 E324 - p on search, FltType 4, Transect_id ".", enttag 2

ID 64100 F253 E330 - s on search, FltType 4, Transect_id "."

ID 64103 F253 E333 - s on search, FltType 4, Transect_id "."

ID 64104 F253 E334 - s on search, FltType 4, Transect_id "."

ID 64107 F253 E337 - FltType 6, Transect_id "."

ID 64117 F253 E346 - FltType 4, Transect_id "."

ID 64123 F253 E351 - p on search, FltType 4, Transect_id "."

ID 64124 F253 E352 - p on search, FltType 4, Transect_id "."

ID 64130 F253 E358 - start transect, enttag 1

Aerial_Master_2018_v1 Version History

Edits made by AAB

14 November 2018

Changed "All_Flights" table name to "Output"

Renamed Size field from "Size_" to "Size"

Added fields:

ID

Lat

Long

Icepercent (this field was already added in the data sent from Mike: Aerial_Master_2018_v0.)

UTMZ6X

UTMZ6Y

In Design View of the Output table, copy/pasted the Description entries for each field from the 2015-2017 master database.

Added Icepercent_l Description: Estimate of the percent of ocean surface within the visual range of the left observer (beginning in 2018)

Added Icepercent_r Description: Estimate of the percent of ocean surface within the visual range of the right observer (beginning in 2018)

Added assoc_event Description: FltType 8, enttags 6 & 7 are populated with the Event number of the FltType 8, enttag 3 they are associated with. FltType 8, enttag 3 are populated with the Event numbers of the FltType 8, enttags 6 & 7 they are associated with.

F1 E31654 – changed to E140 (note from Mike as to why it got changed to 31654: I think that happens when a particular keyboard shortcut combo is used and some cell in the database is selected.)

Flt203 E830 – notes: corrected "analysis" misspelling

Aerial_Master_2018_v0 Version History

Edits made by AAB
14 November 2018

This is the Aerial_Master_2018 mdb sent from Mike with the final resummarization and Depth and Distance from Shore fields populated.

Aerial_Master_2018_v4 Version History

Edits made by AAB

5 February 2019

ID 28320 F222, E254 – Habitat barrier island, Behavior hauled out

Aerial_Master_2018_v3 Version History

Edits made by AAB

11 December 2018

A diversion out to 5 km lateral distance from the walrus haulout was in the data as coastal transect, and we decided to change it to search since at 5 km, the coast isn't really being surveyed (i.e., the haulout may be visible, but smaller things like carcasses will not be visible) and it doesn't make sense to call it a coastal transect. Mike reran the SummaryInfo table to reflect the km and min on transect, search, and total km and min. Replaced the SummaryInfo table.

Added notes for course diversions when pilots had inaccurate gps waypoint, when start of transect was a little off, or when transect was diverted due to whaling:

ID 15341 F202 E196 – notes “transect waypoints entered into pilot gps incorrectly; course adjustment corrected at E271”

ID 15423 F202 E271 – notes “transect waypoints entered into pilot gps incorrectly at start of this transect (E196); course adjusted here.”

ID 15254 F202 E118 – notes “overshot start of transect by ~4 km”

ID 21718 F211 E222 – notes “pilots had inaccurate heading; course adjustment and back on transect line at E251”

ID 33457 F24 E346 – notes “deviating around Cross Island due to whaling”

ID 16804 F204 E227 – notes “transect waypoint was off; course adjustment until E243 when on transect line”

Carcass updates based on R.Stimmelmayer image review and genetics results from sampling of carcasses documented by ASAMM in 2018 (Resightings of the **SAME** whale are color coded. E.g., all **blue** headings are the same carcass.):

ID23326, E450, F213, 7/29/2018

Notes = Pagan fr 1-13; sp. chgd post flt; R.Stimmelmayer 11/29/18: orca predation=L flpr tissue defect w/circular bites (img2) & bite to insertion leading edge; R flpr sm. circular tis. defect; throat missing; mid ped circular bite mark (img12) Sp. likely Er

ID25057, E943, F214, 7/30/2018

Notes = Barry fr17-73, resighted 8/8/18 F218 E330 & 8/19/18 F222 E359; unphotographed but FFOV target on 7/31/18 F214 E102; R.Stimmelmayer 11/29/18: orca predation=rostrum, jaw, & head partially missing w/skin peeled; bite marks to leading edge R flpr + fluke.

ID24073, E1121, F214, 7/30/2018

Species = gray whale

Notes = Barry, fr96-118; post-flt chg=Er&LevelA, R.Stimmelmayer8/3/18Site vis chg=unid?Rorqual, genetics=Er12/4/18; position likely unphoto'd/resited 8/8/18F218E24; R.Stimmelmayer11/29/18: orca predation=head/jawMissing;TibiaRadiusRemain;TisDefectAnusArea;NoFlukes

ID24083, E1130, F214, 7/30/2018

Notes = L.Barry, fr 118-131; R.Stimmelmayer 11/29/2018: injuries consistent with killer whale predation = head and rostrum missing; chest evisceration; interesting cut in the back

ID25124, E102, F215, 7/31/2018

Notes = FFOV target, whale was originally sighted/photographed on F214 7/30/18 E943 and again on 8/8/2018 F218 E330 & 8/19/2018 F222 E359; see notes field for add'l sightings for details on killer whale predation with decomposition progression

ID26588, E24, F218, 8/8/2018

Habitat = beach

Notes = Unphotographed; Likely resight of 7/30/2018 Flt 214 E1130 based on plotted positions

ID26688, E330, F218, 8/8/2018

Notes = Barry1-28; Floater7/30/18F214E943,7/31/18F215E102 unphoto'd FFOV targ, 8/19/18F222E359. R.Stimmelmayer11/29/18Orca pred=Peeled; R bones exposd; partl head/throat/tongue gone;Ped damage; FlukePartllyGone;BlubrBruising(18)LatAnal;Bite; DefectBlowHole(27)

ID27038, E121, F219, 8/9/2018

Notes = Pagan fr 1-13; R.Stimmelmayer 11/29/18: injuries consistent w/killer whale predation=bruising chest neck region; L flipper bite marks; pos tissue defect behind L flipper; belly eviscerated - see skin flap left side; beautiful bite marks on dorsum

ID28379, E306, F222, 8/19/2018

Notes = Accardo70-83. R.Stimmelmayer11/29/18 injuries consistent w/killer whale predation=lg tissue defect R jaw, head, chest region w/ribs exposed; jaw bone exposed; 2 half-moon shaped bite marks dorsal mid body; R fluke trailing edge tissue defects right

ID28436, E359, F222, 8/19/2018

Notes = Accardo 103-117. Resight 7/30/18F214E943, 7/31/18F215E102 unphoto'd FFOV target, 8/8/18 F218 E330. R.Stimmelmayer11/29/18 orca predation=partial carc; head mostly gone; Rostrum Bone Exposed; R Flipr Phalanges Exposed; tis defect L flipr w/rake marks

ID28477, E396, F222, 8/19/2018

Notes = C.Accardo fr139-150; Resighted 9/2/18 F228 E267; R.Stimmelmayer 11/29/18 img review + site visit orca predation=body bruising; broken jaw; gut evisceration; tongue/throat missing; fluke bite marks, R flipr bites; NSB sent LevelA not ASAMM

ID47225, E267, F228, 9/2/2018

Notes = E287BetterPosition, copd E287 ArcLat/Long&Lat/LongTemp Beaver 57-65 1st seen 8/19/18F222E396. R.Stimmelmayer 11/29/18 img+site vis orca predation=lg tis defects ab/chest w/evisceration; brkn jaw, imgs 1 month later carcass has scavenging

ID47240, E280, F228, 9/2/2018

Species = bowhead whale

Notes = Beaver fr 66-74 Resighted 9/22/18 F237E106; R.Stimmelmayer 11/29/18 img+site vis; orca kill; clear slash/bites head reg; jaw/head is missing; evisceration; fluke only fray of thin tissue. Genetic=Bm; NSB sent LevelA not ASAMM

ID47420, E391, F228, 9/2/2018

Species = unid cetacean

Notes = Beaver 75-89 (calf?) email w/R.Stimmelmayer 11/8/18 chgd to unid cet; Stimmelmayer 11/29/18 orca predation=R flip bites leading edge; L fluke tips, leading, +trailing edge bites; 2 half-moon tis defects throat+insertion R fluke; img 88 bites to chest @R bod wall

ID47711, E672, F228, 9/2/2018

Notes = VB, frames 92-104; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=eviscerated; rostrum/throat/jaw partially missing; L flipper missing; (what are the linear cuts see img 0099 at the head); extensive predation

ID50511, E440, F233, 9/16/2018

Notes = C.Accardo, fr 1-16, likely throat grooves, size of minke, small humpback, or fin. R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=head and partial chest missing; flippers missing; flukes tissue defect; extensive tissue loss

ID53353, E99, F237, 9/22/2018

Notes = C.Accardo 1-10. Originally sighted 8/19/18 F222 E396, resighted on 9/2/18 F228 E267; Stimmelmayer 11/29/18 img review+site visit; orca predation=jaw exposed and it looks like tissue damage to head, throat and chest massive tissue defect

ID53137, E106, F237, 9/22/2018

Species = bowhead whale

Notes = C.Accardo, fr 11-21. genetic results = Bm. Resight of 9/2/18 F228 E280; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= see notes field 9/2/18 F228 E280

ID56137, E602, F240, 9/26/2018

Notes = N. Brandt Turner 37-51; R.Stimmelmayer 11/29/18 orca predation=extensive soft tissue damage, missing tongue + soft tissue lower jaw, blubber stripping abdomen/chest; ventral evisceration/muscle damage; tissue defects fluke n both flippers

ID57931, E240, F243, 9/30/2018

Notes = K.Pagan, fr 1-47; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= chin tissue defect; right throat bite marks/tissue defects; partial rostrum missing (img 0029); img 0024 suggests bite marks to the tip of L and R flukes

Compacted & Repaired.

Aerial_Master_2018_v2 Version History

Edits made by AAB

6 December 2018

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ID 64089 F253 E320 - end transect, added environmentals, FltType 4, enttag 1, filled in crew, PhotoTaken 0

ID 64090 F253 E321 - p on search, FltType 4, Transect_id "."

ID 64097 F253 E328 - p on search, FltType 4, Transect_id "."

ID 64101 F253 E331 - p on search, FltType 4, Transect_id "."

ID 64093 F253 E324 - p on search, FltType 4, Transect_id ".", enttag 2

ID 64100 F253 E330 - s on search, FltType 4, Transect_id "."

ID 64103 F253 E333 - s on search, FltType 4, Transect_id "."

ID 64104 F253 E334 - s on search, FltType 4, Transect_id "."

ID 64107 F253 E337 - FltType 6, Transect_id "."

ID 64117 F253 E346 - FltType 4, Transect_id "."

ID 64123 F253 E351 - p on search, FltType 4, Transect_id "."

ID 64124 F253 E352 - p on search, FltType 4, Transect_id "."

ID 64130 F253 E358 - start transect, enttag 1

Aerial_Master_2018_v1 Version History

Edits made by AAB

14 November 2018

Changed "All_Flights" table name to "Output"

Renamed Size field from "Size_" to "Size"

Added fields:

ID

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Long

Icepercent (this field was already added in the data sent from Mike: Aerial_Master_2018_v0.)

UTMZ6X

UTMZ6Y

In Design View of the Output table, copy/pasted the Description entries for each field from the 2015-2017 master database.

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Aerial_Master_2018_v0 Version History

Edits made by AAB
14 November 2018

This is the Aerial_Master_2018 mdb sent from Mike with the final resummarization and Depth and Distance from Shore fields populated.

Aerial_Master_2018_v3 Version History

Edits made by AAB

11 December 2018

A diversion out to 5 km lateral distance from the walrus haulout was in the data as coastal transect, and we decided to change it to search since at 5 km, the coast isn't really being surveyed (i.e., the haulout may be visible, but smaller things like carcasses will not be visible) and it doesn't make sense to call it a coastal transect. Mike reran the SummaryInfo table to reflect the km and min on transect, search, and total km and min. Replaced the SummaryInfo table.

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ID 15423 F202 E271 – notes “transect waypoints entered into pilot gps incorrectly at start of this transect (E196); course adjusted here.”

ID 15254 F202 E118 – notes “overshot start of transect by ~4 km”

ID 21718 F211 E222 – notes “pilots had inaccurate heading; course adjustment and back on transect line at E251”

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Carcass updates based on R.Stimmelmayer image review and genetics results from sampling of carcasses documented by ASAMM in 2018 (Resightings of the **SAME** whale are color coded. E.g., all **blue** headings are the same carcass.):

ID23326, E450, F213, 7/29/2018

Notes = Pagan fr 1-13; sp. chgd post flt; R.Stimmelmayer 11/29/18: orca predation=L flpr tissue defect w/circular bites (img2) & bite to insertion leading edge; R flpr sm. circular tis. defect; throat missing; mid ped circular bite mark (img12) Sp. likely Er

ID25057, E943, F214, 7/30/2018

Notes = Barry fr17-73, resighted 8/8/18 F218 E330 & 8/19/18 F222 E359; unphotographed but FFOV target on 7/31/18 F214 E102; R.Stimmelmayer 11/29/18: orca predation=rostrum, jaw, & head partially missing w/skin peeled; bite marks to leading edge R flpr + fluke.

ID24073, E1121, F214, 7/30/2018

Species = gray whale

Notes = Barry, fr96-118; post-flt chg=Er&LevelA, R.Stimmelmayer8/3/18Site vis chg=unid?Rorqual, genetics=Er12/4/18; position likely unphoto'd/resited 8/8/18F218E24; R.Stimmelmayer11/29/18: orca predation=head/jawMissing;TibiaRadiusRemain;TisDefectAnusArea;NoFlukes

ID24083, E1130, F214, 7/30/2018

Notes = L.Barry, fr 118-131; R.Stimmelmayer 11/29/2018: injuries consistent with killer whale predation = head and rostrum missing; chest evisceration; interesting cut in the back

ID25124, E102, F215, 7/31/2018

Notes = FFOV target, whale was originally sighted/photographed on F214 7/30/18 E943 and again on 8/8/2018 F218 E330 & 8/19/2018 F222 E359; see notes field for add'l sightings for details on killer whale predation with decomposition progression

ID26588, E24, F218, 8/8/2018

Habitat = beach

Notes = Unphotographed; Likely resight of 7/30/2018 Flt 214 E1130 based on plotted positions

ID26688, E330, F218, 8/8/2018

Notes = Barry1-28; Floater7/30/18F214E943,7/31/18F215E102 unphoto'd FFOV targ, 8/19/18F222E359. R.Stimmelmayer11/29/18Orca pred=Peeled; R bones exposd; partl head/throat/tongue gone;Ped damage; FlukePartllyGone;BlubrBruising(18)LatAnal;Bite; DefectBlowHole(27)

ID27038, E121, F219, 8/9/2018

Notes = Pagan fr 1-13; R.Stimmelmayer 11/29/18: injuries consistent w/killer whale predation=bruising chest neck region; L flipper bite marks; pos tissue defect behind L flipper; belly eviscerated - see skin flap left side; beautiful bite marks on dorsum

ID28379, E306, F222, 8/19/2018

Notes = Accardo70-83. R.Stimmelmayer11/29/18 injuries consistent w/killer whale predation=lg tissue defect R jaw, head, chest region w/ribs exposed; jaw bone exposed; 2 half-moon shaped bite marks dorsal mid body; R fluke trailing edge tissue defects right

ID28436, E359, F222, 8/19/2018

Notes = Accardo 103-117. Resight 7/30/18F214E943, 7/31/18F215E102 unphoto'd FFOV target, 8/8/18 F218 E330. R.Stimmelmayer11/29/18 orca predation=partial carc; head mostly gone; Rostrum Bone Exposed; R Flipr Phalanges Exposed; tis defect L flipr w/rake marks

ID28477, E396, F222, 8/19/2018

Notes = C.Accardo fr139-150; Resighted 9/2/18 F228 E267; R.Stimmelmayer 11/29/18 img review + site visit orca predation=body bruising; broken jaw; gut evisceration; tongue/throat missing; fluke bite marks, R flipr bites; NSB sent LevelA not ASAMM

ID47225, E267, F228, 9/2/2018

Notes = E287BetterPosition, copd E287 ArcLat/Long&Lat/LongTemp Beaver 57-65 1st seen 8/19/18F222E396. R.Stimmelmayer 11/29/18 img+site vis orca predation=lg tis defects ab/chest w/evisceration; brkn jaw, imgs 1 month later carcass has scavenging

ID47240, E280, F228, 9/2/2018

Species = bowhead whale

Notes = Beaver fr 66-74 Resighted 9/22/18 F237E106; R.Stimmelmayer 11/29/18 img+site vis; orca kill; clear slash/bites head reg; jaw/head is missing; evisceration; fluke only fray of thin tissue. Genetic=Bm; NSB sent LevelA not ASAMM

ID47420, E391, F228, 9/2/2018

Species = unid cetacean

Notes = Beaver 75-89 (calf?) email w/R.Stimmelmayer 11/8/18 chgd to unid cet; Stimmelmayer 11/29/18 orca predation=R flip bites leading edge; L fluke tips, leading, +trailing edge bites; 2 half-moon tis defects throat+insertion R fluke; img 88 bites to chest @R bod wall

ID47711, E672, F228, 9/2/2018

Notes = VB, frames 92-104; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=eviscerated; rostrum/throat/jaw partially missing; L flipper missing; (what are the linear cuts see img 0099 at the head); extensive predation

ID50511, E440, F233, 9/16/2018

Notes = C.Accardo, fr 1-16, likely throat grooves, size of minke, small humpback, or fin. R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation=head and partial chest missing; flippers missing; flukes tissue defect; extensive tissue loss

ID53353, E99, F237, 9/22/2018

Notes = C.Accardo 1-10. Originally sighted 8/19/18 F222 E396, resighted on 9/2/18 F228 E267; Stimmelmayer 11/29/18 img review+site visit; orca predation=jaw exposed and it looks like tissue damage to head, throat and chest massive tissue defect

ID53137, E106, F237, 9/22/2018

Species = bowhead whale

Notes = C.Accardo, fr 11-21. genetic results = Bm. Resight of 9/2/18 F228 E280; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= see notes field 9/2/18 F228 E280

ID56137, E602, F240, 9/26/2018

Notes = N. Brandt Turner 37-51; R.Stimmelmayer 11/29/18 orca predation=extensive soft tissue damage, missing tongue + soft tissue lower jaw, blubber stripping abdomen/chest; ventral evisceration/muscle damage; tissue defects fluke n both flippers

ID57931, E240, F243, 9/30/2018

Notes = K.Pagan, fr 1-47; R.Stimmelmayer 11/29/18 injuries consistent w/killer whale predation= chin tissue defect; right throat bite marks/tissue defects; partial rostrum missing (img 0029); img 0024 suggests bite marks to the tip of L and R flukes

Compacted & Repaired.

Aerial_Master_2018_v2 Version History

Edits made by AAB

6 December 2018

We realized that on Flight 253, a small diversion near the walrus haulout at 5 nm from shore should have been recorded as search instead of as the coastal transect since at 5 nm, the coast isn't really being surveyed (i.e., although the walrus haulout can still be seen, smaller things like carcasses cannot). We made the following changes:

ID 64088 F2523 E319 - resume, added environmentals, FltType 2, Transect_id C, enttag 1, filled in crew, PhotoTaken 0

ID 64089 F253 E320 - end transect, added environmentals, FltType 4, enttag 1, filled in crew, PhotoTaken 0

ID 64090 F253 E321 - p on search, FltType 4, Transect_id "."

ID 64097 F253 E328 - p on search, FltType 4, Transect_id "."

ID 64101 F253 E331 - p on search, FltType 4, Transect_id "."

ID 64093 F253 E324 - p on search, FltType 4, Transect_id ".", enttag 2

ID 64100 F253 E330 - s on search, FltType 4, Transect_id "."

ID 64103 F253 E333 - s on search, FltType 4, Transect_id "."

ID 64104 F253 E334 - s on search, FltType 4, Transect_id "."

ID 64107 F253 E337 - FltType 6, Transect_id "."

ID 64117 F253 E346 - FltType 4, Transect_id "."

ID 64123 F253 E351 - p on search, FltType 4, Transect_id "."

ID 64124 F253 E352 - p on search, FltType 4, Transect_id "."

ID 64130 F253 E358 - start transect, enttag 1

Aerial_Master_2018_v1 Version History

Edits made by AAB

14 November 2018

Changed "All_Flights" table name to "Output"

Renamed Size field from "Size_" to "Size"

Added fields:

ID

Lat

Long

Icepercent (this field was already added in the data sent from Mike: Aerial_Master_2018_v0.)

UTMZ6X

UTMZ6Y

In Design View of the Output table, copy/pasted the Description entries for each field from the 2015-2017 master database.

Added Icepercent_l Description: Estimate of the percent of ocean surface within the visual range of the left observer (beginning in 2018)

Added Icepercent_r Description: Estimate of the percent of ocean surface within the visual range of the right observer (beginning in 2018)

Added assoc_event Description: FltType 8, enttags 6 & 7 are populated with the Event number of the FltType 8, enttag 3 they are associated with. FltType 8, enttag 3 are populated with the Event numbers of the FltType 8, enttags 6 & 7 they are associated with.

F1 E31654 – changed to E140 (note from Mike as to why it got changed to 31654: I think that happens when a particular keyboard shortcut combo is used and some cell in the database is selected.)

Flt203 E830 – notes: corrected "analysis" misspelling

Aerial_Master_2018_v0 Version History

Edits made by AAB
14 November 2018

This is the Aerial_Master_2018 mdb sent from Mike with the final resummarization and Depth and Distance from Shore fields populated.

Aerial_Master_2018_v2 Version History

Edits made by AAB

6 December 2018

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14 November 2018

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Aerial_Master_2018_v1 Version History

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Aerial_Master_2018_v0 Version History

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14 November 2018

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Aerial_Master_2018_v0 Version History

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14 November 2018

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