

NRR-PMDAPEm Resource

From: Dave Clark [dclark@inwater.org]
Sent: Thursday, September 08, 2011 3:01 PM
To: Meghan Koperski; Terri Paylor
Cc: Bob Hoffman; Dave Niebch; RidsNrrDir Resource; Ed Hollowell; Jodie Gless; Ken Frehafer; Mike Bresette; Shelley Norton; Vince Munne; sweege; dclark@inwater.org
Subject: Revised August 2011 Marine Turtle Monthly Report
Attachments: Monthly Report Notes 2011.xls; August 2011 Marine Turtle Captures.rtf

Dear Meghan,

Attached is the revised August 2011 Marine Turtle Capture Table and notes section. The previous documents included only 13 of 14 turtles mentioned in the cover letter. The table and the note section now include the loggerhead hatchling found east of the primary barrier net by UESI divers cleaning the 5 inch net the night of the 25th, which was released unharmed. If you have any further questions please email or call me.

Thank you,

Dave Clark
Inwater Research Group Inc.
dclark@inwater.org
772-607-2054

Hearing Identifier: NRR_PMDA
Email Number: 139

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Subject: Revised August 2011 Marine Turtle Monthly Report
Sent Date: 9/8/2011 3:01:10 PM
Received Date: 9/8/2011 3:01:24 PM
From: Dave Clark

Created By: dclark@inwater.org

Recipients:

"Bob Hoffman" <Bob.Hoffman@NOAA.gov>
Tracking Status: None
"Dave Niebch" <david_niebch@fpl.com>
Tracking Status: None
"RidsNrrDlr Resource" <RidsNrrDlr.Resource@nrc.gov>
Tracking Status: None
"Ed Hollowell" <Ed_Hollowell@FPL.com>
Tracking Status: None
"Jodie Gless" <Jodie_Gless@FPL.com>
Tracking Status: None
"Ken Frehafer" <Ken_Frehafer@FPL.com>
Tracking Status: None
"Mike Bresette" <mbresette@inwater.org>
Tracking Status: None
"Shelley Norton" <Shelley.Norton@NOAA.gov>
Tracking Status: None
"Vince Munne" <Vince_Munne@fpl.com>
Tracking Status: None
"sweege" <sweege@inwater.org>
Tracking Status: None
"dclark@inwater.org" <dclark@inwater.org>
Tracking Status: None
"Meghan Koperski" <Meghan.Koperski@MyFWC.com>
Tracking Status: None
"Terri Paylor" <Terri.Paylor@fpl.com>
Tracking Status: None

Post Office: mbs3.homesteadmail.com

| Files | Size | Date & Time |
|--|--------|---------------------|
| MESSAGE | 531 | 9/8/2011 3:01:24 PM |
| Monthly Report Notes 2011.xls | 194112 | |
| August 2011 Marine Turtle Captures.rtf | 63548 | |

Options

Priority: Standard
Return Notification: No
Reply Requested: No
Sensitivity: Normal
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Monthly reports due by the 10th.

Notes should include the following:

Adults

Recaptures

Strange Tags

Tag Returns

Papillomas

Mortalities

Rehab Turtles

Hybrids (choose >)

NOTES

1. DEAD (NON-CAUSAL MORTALITY). RECAPTURE from 3/31/10. Found moderately decomposed on barrier net. Missing head. Most likely entrained post-mortem. Held in freezer for FFWCC state necropsy workshops.
2. PAPILLOMAS (Tumor Score = 30). Turtle released same day as capture.
3. PAPILLOMAS (Tumor Score = 1). Tumor is undergoing regression, located on trailing edge of LFF. Turtle released same day as capture.
4. PAPILLOMAS (Tumor Score = 1). One small regressed tumor on neck. Turtle released same day as capture.
5. PAPILLOMAS (Tumor Score = 60). Right eye is 60% obstructed by tumors. No large tumors on turtle. Power plant notifications made after contacting FWC. State later asked us to release turtle because rehab locations too full. Spoke to shift manager directly to advise of change. Turtle released same day as capture.
6. PAPILLOMAS (Tumor Score = 106). Lots of large tumors on hind flippers and tail. Power plant notifications made after contacting FWC. State later asked us to release turtle because rehab locations too full. Spoke to shift manager directly to advise of change. Turtle released same day as capture.
7. Strange Tag (PIT Tag #454A777870). Source of tag yet to be determined.
8. PAPILLOMAS (tumor score=47). Turtle released same day as capture.
9. DEAD (NON-CAUSAL MORTALITY). Found floating at surface of barrier net moderately decomposed. Held in freezer for FFWCC state necropsy workshops.
10. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/23/09, 3/23/10, 9/22/10, and 1/31/11.

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCL = Curved Standard Carapace Length

CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

NOTES

1. PAPILLOMAS (Tumor Score = 31). No inconel tags inserted because the tumors were in the way.
Turtle released same day as capture.
2. DEAD (NON-CAUSAL MORTALITY). Found floating at surface of barrier net severely decomposed.
No other wounds or abnormalities. Buried off beach after consultation with FWC.
3. DEAD (NON-CAUSAL MORTALITY). Found floating at surface of barrier net moderately decomposed.
No other wounds or abnormalities. Buried off beach after consultation with FWC.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on
6/15/03, 7/17/03, 11/26/03, 4/1/04, 5/14/05, 7/2/05, 7/23/05, 10/17/05, 5/10/06, 8/21/06, 9/25/06, 12/2/07,
3/15/08, 11/2/08, 2/14/09, 6/23/09, 12/7/09, 9/18/10 and 2/20/11.
5. DEAD (NON-CAUSAL MORTALITY). Turtle found moderately decomposed floating in FPL intake canal.
No other wounds or abnormalities. Buried off beach after consultation with FWC.

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NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/26/10 and 3/10/11.

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NOTES

1. REHAB. Turtle was sent to rehab for possible boat strike injury. This injury was not causal to power plant operations. 10% missing from posterior carapace (healing). All length measurements are estimates due to carapace damage. Hand captured at surface. Turtle was lethargic with heavy epibiont coverage. Transported to Marinelife Center in Juno Beach by FWC stranding coordinator.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/11/08 and 4/27/11. New inconel tag placed in RFF. LFF tag from initial capture missing.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/11/06, 3/24/10, 10/20/10 and 4/28/11.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/31/11 and 4/28/11.

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SMPL = Straight Midline Plastron Length

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/11/08, 4/27/11 and 5/1/11.
2. Adult female. Tail length = 176 mm.
3. Adult female. Tail length = 180 mm.
4. Adult female. Tail length = 225 mm. Old healing wounds on both front flippers possibly due to shark attack. Shark rakings also on plastron.
5. Male. Tail length = 392 mm. Sex was apparent from the animal's tail length, even though the turtle was not at least 85.0cm (the cut-off for adults).
6. REHAB (Not causal to power plant operation). Turtle was in poor condition when it was recovered from the intake canal by IRG biologists. It was hand captured at base of temporary 5-inch barrier net. Animal underweight and lethargic, with heavy epibiont coverage. Some marginals were cracked and/or missing from left posterior carapace. There was also a 4cm gash in the plastron near the intergular scute. Transported to Marinelife Center in Juno Beach by FWC stranding coordinator.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08 and 5/10/11. Inconel tag inserted today in the left front flipper (LFF).
8. Adult female. Tail length = 212 mm.
9. Adult female. Tail length = 209 mm.
10. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/28/09, 12/3/09, 2/11/10, 9/3/10 and 5/18/11.
11. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/15/03, 7/17/03, 11/26/03, 4/1/04, 5/14/05, 7/2/05, 7/23/05, 10/17/05, 5/10/06, 8/21/06, 9/25/06, 12/2/07, 3/15/08, 11/2/08, 2/14/09, 6/23/09, 12/7/09, 9/18/10, 2/20/11 and 5/18/11. Hook with 2.5ft of fishing line dislodged from ventral side of right shoulder during workup. Wound cleaned with betadine prior to release.
12. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/10/11 and 5/18/11.
13. Adult female. Tail length = 270 mm.
14. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/6/08 and 5/18/11. Inconel tags inserted today.
15. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/28/04, 5/20/05, 5/28/05, 7/20/05, 8/2/05, 8/12/05, 9/12/05, 4/16/06, 6/24/06, 8/14/06, 2/2/07, 3/10/08, 9/7/08, 12/22/08 and 5/18/11. New inconel tags inserted today.
16. Adult male. Tail length = 482 mm.
17. Adult female. Tail length = 221 mm. TAG RETURN, observed nesting in INBS zone "N" (just north of discharge canal) during FPL sponsored turtle walk on 6/3/11. Large indentation on right side of carapace (possible healed boat strike).
18. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/23/04, 8/11/06, 8/23/06, 9/30/06, 3/6/07, 8/19/07, 12/3/07, 1/14/08, 2/21/08, 3/19/08, 5/5/08, 5/31/08, 7/7/08, 9/17/08, 11/30/08, 1/26/09, 4/10/09, 4/19/09, 6/24/09, 1/11/10, 3/31/10, 6/5/10, 8/27/10, 10/10/10, 11/27/10 and 5/18/11. New inconel tag inserted today in LFF.
19. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/16/09 and 5/22/11. New inconel tag inserted today in right front flipper (RFF).
20. Adult female. Tail length = 240 mm.
21. Adult female. Tail length = 178 mm.
22. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/24/11 and 5/29/11. Previous PIT tag not found during scan (failed). New PIT tag inserted this capture.
23. Adult male. Tail length = 419 mm.
24. Adult male. Tail length = 549 mm.
25. Adult female. Tail length = 190 mm.

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CMCW = Curved Maximum Carapace Width

SMCW = Straight Maximum Carapace Width

SMPL = Straight Midline Plastron Length

NOTES

1. Adult female. Tail length = 257 mm.
2. Adult female. Tail length = 220 mm.
3. Adult female. Tail length = 266 mm.
4. Adult female. Tail length = 198 mm.
5. Adult female. Tail length = 232 mm. Moderate fresh scrape above left eye (skull exposed).
6. Adult female. Tail length = 260 mm. Mating scar on ventral surface of neck (bite mark evident). Entanglement scar on RFF (furrow from line or rope circumscribes flipper).
7. STRANGE TAG (Inconel tag in LFF). Source of tag yet to be determined. PIT tag inserted today. Adult female. Tail length = 205 mm. Moderate fresh scrape below right eye.
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/11/04, 9/13/05, 4/26/06, 7/16/06, 12/3/07, 2/1/08, 4/23/08, 9/2/08 10/15/08, 11/12/08 and 6/9/11. New inconel tags inserted today.
9. Adult female. Tail length = 215 mm. Healing shark wounds on dorsal surface of head, and ventral surface of neck all four flippers. No broken bones. Injuries appear to be healing well (granulated tissue). Classified condition as fair and released adult female to nest.
10. Adult female. Tail length = 275 mm. Multiple deep fresh scrapes on head (skull exposed).
11. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08, 5/10/11 and 6/13/11. Hooking wound in ventral base of right front flipper (healing).
12. Adult male. Tail length = 400mm. Sex determination obvious from tail length even though turtle is not yet 85.0cm straight standard carapace length (85.0 SSCL is the cut-off for adult loggerheads).
13. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/10/05, 9/21/06, 12/18/06, 4/21/07, 12/6/07, 5/25/08, 10/9/08, 6/15/09 and 6/13/11.
14. Adult male. Tail length = 440mm. Necrotic wounds present on all four flippers. Granulated tissue on neck, possibly mating wounds.
15. Adult female. Tail length = 250 mm. STRANGE TAG (PIT tag in rear flipper). Source of tag yet to be determined. Necrotic patch on dorsal surface of tail.
16. Adult female. Tail length = 235. Mating wounds on dorsal surface of neck and both shoulders.
17. Adult female. Tail length = 276 mm.
18. Adult female. Tail length = 212 mm. Possible boat strike injury to posterior carapace (healed carapace damage).
19. STRANGE TAG (Inconel tag #HA1509 in RFF). Source of tag yet to be determined. Inconel tag #UUX679 and PIT tag inserted today. Adult female. Tail length = 243 mm. Moderate fresh scrapes on head (skull exposed). Cut above right eye (fresh scrape).
20. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 1/12/07, 2/28/07, 7/12/07, 8/5/07, 9/8/07, 3/31/09, 12/2/09, 3/22/10, 10/12/10 and 6/23/11.
21. Adult female. Tail length = 283 mm.
22. Adult female. Tail length = 211 mm.
23. Adult female. Tail length = 197 mm.
24. Adult female. Tail length = 240 mm.
25. Adult female. Tail length = 183 mm.

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NOTES

1. REHAB (NON-CAUSAL). STSSN# CRM110705-01. Turtle dip netted by IRG biologists near temporary 5-inch barrier net. Animal was severely underweight and lethargic (heart beat visible). Turtle transported to Marinelife Center by IRG personnel. Old healed injury to right anterior carapace (several marginals missing). Turtle later died in rehab (necropsy results pending).
2. Adult female. Tail length = 275 mm. Bite marks on face from fighting with other adult female loggerhead turtle in canal (two cuts 3cm and 4cm on left side of jaw). Animals were observed biting each other at the water's surface prior to capture.
3. Adult female. Tail length = 255 mm.
4. REHAB (NON-CAUSAL). STSSN# CRM110706-01. Turtle hand captured by IRG biologists near temporary 5-inch barrier net. Animal was severely underweight and lethargic (heart beat visible). Turtle transported to Marinelife Center by IRG personnel. Scutes sloughing off on carapace.
5. Adult female. Tail length = 226 mm. Shark attack victim. Approximately 15% missing from right posterior carapace (healed shark bite).
6. Adult female. Tail length = 205 mm.
7. PAPILLOMAS, possible papillomas (cauliflower-like tissue at base of tail). Large smooth nodule at base of left rear flipper (5cm in diameter).
8. Adult female. Tail length = 198 mm.
9. Adult female. Tail length = 225 mm.
10. STRANGE TAG (Inconel #HA9442 in LFF, #HA9443 in RFF, PIT #4B627D2058). Source of tag yet to be determined. Adult female. Tail length = 187 mm.
11. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/24/11, 5/29/11 and 7/10/11. Turtle has two PIT tags (4A5E20453A & 4B11757F5C). Previous PIT tag #4A5E20453A reported as failed on 5/29/11. Concave plastron.
12. Adult female. Tail length = 175 mm.
13. Adult female. Tail length = 194 mm. Moderate fresh scrape between nares and right eye.
14. Adult female. Tail length = 228 mm.
15. Adult female. Tail length = 185 mm.
16. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/7/05, 8/30/05, 8/6/06, 9/19/06, 8/29/07, 4/30/08, 1/26/09, 10/1/09, 2/13/10, 3/27/10 and 7/19/11.
17. Adult female. Tail length = 213 mm.
18. Adult female. Tail length = 203 mm.
19. Adult female. Tail length = 231 mm.
20. Adult female. Tail length = 238 mm. Skull exposed from moderate fresh scrape to the head. Mating scar on ventral surface of neck.
21. Adult male. Tail length = 360mm. Moderate deep fresh scrape under jaw.
22. Adult female. Tail length = 215 mm.
23. Adult female. Tail length = 176mm. STRANGE TAG (Inconel tag in LFF). Tagged by Lauren Smith (FAU Graduate student) on Hutchinson Island, INBS Zone S, for her blood project. New inconel and PIT tags inserted today into RFF. Healed prop scar across last right costal and vertebral scutes (16cm in length).
24. Adult female. Tail length = 156mm. Deep wound in carapace from entrainment (moderate fresh scrape).
25. Adult female. Tail length = 189mm. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/23/11 and 7/23/11. Old PIT tag #4A0E17124B may have failed (not detected this capture). New inconel tag inserted today in RFF.
26. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/19/11 and 7/25/11.
27. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/7/04, 11/3/04, 11/23/04, 1/24/06, 1/4/08, 2/18/08, 10/4/08, 12/13/08, 10/15/10, 10/20/10 and 7/25/11. Moderate fresh scrape on head. New inconel tag inserted today in RFF.
28. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on

- 8/5/08, 5/10/11, 6/13/11 and 7/25/11. New inconel tag inserted today in RFF.
29. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/1/04, 11/3/04, 11/21/04, 7/8/05, 8/12/05, 9/13/05, 4/24/06, 9/29/06, 11/19/06, 12/4/06, 12/9/07, 2/10/08, 4/3/08, 9/14/08, 11/26/08, 12/18/08, 12/14/09, 1/11/10, 9/21/10 and 7/25/11. New inconel tag inserted today in LFF. Large cut in left corner of mouth from entrainment (moderate fresh scrape).
30. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/1/04, 1/11/05, 11/24/10 and 7/25/11.
31. Adult female. Tail length = 184mm. Turtle missing 75% from terminal end of LFF.
32. Adult female. Tail length = 225mm.
33. Adult female. Tail length = 246mm.
34. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/15/02, 5/24/02, 4/28/03, 7/16/05, 9/16/06, 12/27/06, 7/11/08 and 7/27/11.
35. Adult female. Tail length = 258mm. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/5/11 and 7/27/11.
36. Adult female. Tail length = 178mm. Missing 50% of LRF, 20% of RRF, and 50% of RFF (all healed). Moderate deep fresh scrapes in carapace.

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NOTES

1. DEAD (NON-CAUSAL MORTALITY). STSSN# STW110801-01. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/3/11. Turtle recovered postmortem from surface of 5-inch barrier net on the morning of 8/1/11. Turtle was underweight. Transported to Marinelife Center on ice by IRG personnel for necropsy. Preliminary determination by IRG biologists was causal due to drowning. This was later changed to non-causal. Final determination was made by veterinarian Nancy Mettee following necropsy and pathology reports.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/28/11 and 8/6/11.
3. Adult female. Tail length = 275 mm.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/23/11 and 8/16/11.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/18/11 and 8/16/11. Turtle work-up witnessed by Loggerhead Marinelife Center visitors.
6. DEAD (NON-CAUSAL MORTALITY). STSSN# CRM110820-01. Skeletal carapace and lower jaw found on the bottom of the intake canal. Lower jaw confirmed it was a loggerhead. Animal remains not salvaged. Measurements estimated. Most likely entrained into the canal postmortem.
7. Hatchling. Turtle was found by UESI divers east of primary barrier net while cleaning jellyfish from the net. Released by IRG biologist

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MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL AUGUST 2011

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-----------|------------------------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 8/1/2011 | <i>Chelonia mydas</i> | 1 | | 27.2 | 27.5 | 29.5 | 25.5 | 22.3 | 22.5 | 2.1 | Barrier net |
| 8/2/2011 | <i>Caretta caretta</i> | | BBP145/BBP146 | 82.2 | 83.9 | 89.3 | 81.2 | 64.4 | 62.5 | 74.7 | South net |
| 8/6/2011 | <i>Caretta caretta</i> | 2 | BBP139/BBP140 | 64.5 | 65.7 | 69.8 | 68.5 | 54.3 | 49.3 | 35.9 | Hand capture |
| 8/6/2011 | <i>Caretta caretta</i> | | BBP147/BBP148 | 60.3 | 60.8 | 63.4 | 64.0 | 50.6 | 47.6 | 34.2 | Hand capture |
| 8/9/2011 | <i>Caretta caretta</i> | | BBP149/BBP150 | 70.5 | 71.8 | 76.1 | 73.4 | 61.4 | 55.7 | 54.9 | Hand capture |
| 8/14/2011 | <i>Caretta caretta</i> | 3 | BBP151/BBP152 | 92.0 | 92.6 | 95.3 | 87.5 | 68.9 | 71.5 | 104.5 | South net |
| 8/16/2011 | <i>Caretta caretta</i> | 4 | BBP107/BBP108 | 69.1 | 71.0 | 74.6 | 70.5 | 55.5 | 54.2 | 47.3 | South net |
| 8/16/2011 | <i>Caretta caretta</i> | 5 | UUX562/UUX563 | 60.7 | 61.9 | 67.6 | 63.2 | 50.5 | 47.4 | 33.8 | Hand capture |
| 8/20/2011 | <i>Caretta caretta</i> | 6 | | | 70.0 | | | | | 75.0 | Hand capture |
| 8/20/2011 | <i>Caretta caretta</i> | | BBP153/BBP154 | 68.2 | 68.8 | 73.5 | 73.1 | 57.3 | 53.1 | 51.8 | Hand capture |
| 8/20/2011 | <i>Caretta caretta</i> | | BBP155/BBP156 | 61.2 | 61.7 | 66.5 | 64.6 | 51.6 | 48.5 | 34.8 | Hand capture |
| 8/20/2011 | <i>Caretta caretta</i> | | BBP157/BBP158 | 48.6 | 48.6 | 52.0 | 63.7 | 52.1 | 47.7 | 29.1 | Hand capture |
| 8/20/2011 | <i>Caretta caretta</i> | | BBP159/BBP161 | 66.1 | 67.2 | 70.8 | 69.4 | 56.9 | 52.8 | 45.3 | Hand capture |
| 8/25/2011 | <i>Caretta caretta</i> | 7 | | | 5.0 | | | | | | Hand capture |