

NRR-DMPSPEm Resource

From: Steve Weege <steveweege@gmail.com>
Sent: Thursday, September 20, 2018 10:47 AM
To: Meghan Koperski
Cc: Ed Hollowell; Jodie Gless; Ken Frehafer; Marine Turtle Permit; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; debbie.spring@noaa.gov; Eaton, Kristin; Jonathan Gorham; William.Nurnberger@fpl.com; Audra Livergood - NOAA Federal; Ryan Chabot
Subject: [External_Sender] August 2018 FPL Marine Turtle Removal Monthly Report
Attachments: August 2018 Marine Turtle Captures.pdf; Monthly Report Notes 2018.pdf; FPL St. Lucie Capture Summary 2018.pdf

Mrs. Meghan Koperski
Tequesta Field Laboratory
19100 SE Federal Highway
Tequesta, FL 33469

Subject: Marine Turtle Removal Monthly Summary August 2018

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for August 2018. This month we captured 28 *Caretta caretta* and four *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were no mortalities or sea turtles sent for rehabilitation in August.

The primary 5-inch barrier net encountered light-to-moderate loads of algae during the month. On August 10th, Underwater Engineering Services inspected and cleaned the 5-inch barrier net. Also, a scheduled short-term power plant outage began on August 26th. Nevertheless, the primary barrier net has performed as designed and no turtles have been observed beyond the 5-inch net.

The tag numbers and morphometric data for all turtles captured during the month have been included with this report (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for 2018. In addition, this spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year.

Please feel free to contact me with any questions.

Sincerely,

Steve

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Subject: [External_Sender] August 2018 FPL Marine Turtle Removal Monthly Report
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From: Steve Weege

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| August 2018 Marine Turtle Captures.pdf | | 75973 |
| Monthly Report Notes 2018.pdf | 55300 | |
| FPL St. Lucie Capture Summary 2018.pdf | | 74392 |

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
AUGUST 2018**

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-------------|------------------------|-------------|----------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|------------------------|---------------|
| 8/2/2018 | <i>Caretta caretta</i> | | MMY356/MMY357 | 70.5 | 72.0 | 78.5 | 74.2 | 60.9 | 57.2 | 51.4 | North net |
| 8/3/2018 | <i>Caretta caretta</i> | | MMY358/MMY359 | 77.4 | 79.0 | 85.6 | 77.5 | 57.9 | 60.7 | 64.7 | South net |
| 8/3/2018 | <i>Caretta caretta</i> | | MMY360/MMY361 | 77.9 | 79.6 | 87.0 | 80.2 | 61.7 | 62.5 | 71.5 | South net |
| 8/7/2018 | <i>Caretta caretta</i> | 1 | MML376/MML377 | 56.6 | 57.5 | 61.2 | 58.9 | 48.3 | 43.9 | 30.3 | Hand capture |
| 8/7/2018 | <i>Caretta caretta</i> | 2 | MMY360/MMY361 | 76.4 | 79.9 | 89.4 | 80.9 | 52.2 | 63.3 | 71.7 | North net |
| 8/7/2018 | <i>Caretta caretta</i> | | MMY362/MMY363 | 63.5 | 65.5 | 68.7 | 63.6 | 50.7 | 49.6 | 38.9 | Hand capture |
| 8/7/2018 | <i>Caretta caretta</i> | | MMY364/MMY365 | 65.7 | 67.3 | 72.4 | 68.7 | 53.8 | 51.2 | 40.8 | Hand capture |
| 8/7/2018 | <i>Caretta caretta</i> | 3 | MMY366/MMY367 | 86.3 | 88.1 | 94.6 | 83.8 | 63.6 | 65.8 | 94.6 | Hand capture |
| 8/9/2018 | <i>Caretta caretta</i> | | MMY368/MMY369 | 64.7 | 65.7 | 71.4 | 70.5 | 55.1 | 52.1 | 44.3 | North net |
| 8/10/2018 | <i>Caretta caretta</i> | | MMY370/MMY371 | 82.1 | 83.5 | 91.3 | 80.6 | 62.4 | 61.2 | 74.4 | South net |
| 8/10/2018 | <i>Caretta caretta</i> | | MMY372/MMY373 | 64.0 | 65.3 | 70.0 | 68.1 | 56.3 | 50.8 | 40.4 | South net |
| 8/12/2018 | <i>Chelonia mydas</i> | | MMY374/MMY375 | 44.0 | 44.1 | 46.4 | 42.0 | 36.5 | 36.9 | 11.2 | North net |
| 8/12/2018 | <i>Caretta caretta</i> | | MMY376/MMY377 | 64.5 | 66.4 | 71.4 | 68.2 | 50.8 | 55.5 | 44.9 | North net |
| 8/13/2018 | <i>Caretta caretta</i> | 4 | MMY378/MMY379 | 81.1 | 82.3 | 88.5 | 82.0 | 62.8 | 63.8 | 74.9 | North net |
| 8/15/2018 | <i>Caretta caretta</i> | 5 | MMY380 | 102.4 | 103.0 | 109.6 | 98.7 | 76.9 | 82.2 | 172.4 | North net |

| Date | Species | Note | Tag #'s | SMCL (cm) | SSCL (cm) | CSCL (cm) | CMCW (cm) | SMCW (cm) | SMPL (cm) | Weight (kg) | Method |
|-----------|------------------------|------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------|--------------|
| 8/15/2018 | <i>Caretta caretta</i> | | MMY381/MMY382 | 62.8 | 63.5 | 69.8 | 65.7 | 55.1 | 50.3 | 39.4 | North net |
| 8/17/2018 | <i>Caretta caretta</i> | | MMY383/MMY384 | 64.0 | 65.0 | 70.0 | 68.3 | 54.3 | 51.8 | 40.8 | Hand capture |
| 8/17/2018 | <i>Caretta caretta</i> | | MMY385/MMY386 | 81.1 | 82.3 | 88.7 | 80.5 | 62.5 | 63.1 | 73.5 | Hand capture |
| 8/19/2018 | <i>Caretta caretta</i> | 6 | MMY387/MMY388 | 92.8 | 93.7 | 100.6 | 93.6 | 70.9 | 71.2 | 114.9 | Hand capture |
| 8/19/2018 | <i>Caretta caretta</i> | 7 | MMY389/MMY390 | 87.7 | 89.2 | 95.5 | 88.4 | 68.4 | 69.5 | 102.4 | North net |
| 8/23/2018 | <i>Caretta caretta</i> | 8 | MMY391/MMY392 | 87.4 | 87.5 | 91.7 | 84.1 | 67.3 | 65.9 | 97.4 | North net |
| 8/23/2018 | <i>Caretta caretta</i> | 9 | MMY393/MMY394 | 93.7 | 94.9 | 100.7 | 91.6 | 74.9 | 73.6 | 119.9 | North net |
| 8/24/2018 | <i>Caretta caretta</i> | | MMY395/MMY396 | 69.7 | 71.5 | 78.2 | 70.6 | 55.2 | 52.1 | 46.4 | North net |
| 8/25/2018 | <i>Caretta caretta</i> | | MMY397/MMY398 | 67.9 | 68.5 | 74.6 | 68.9 | 55.7 | 51.9 | 45.7 | North net |
| 8/26/2018 | <i>Chelonia mydas</i> | 10 | MMX449/KKG000 | 57.2 | 57.3 | 60.0 | 53.5 | 43.8 | 48.4 | 25.0 | North net |
| 8/26/2018 | <i>Caretta caretta</i> | | MMY399/MMY400 | 65.3 | 66.3 | 71.9 | 70.4 | 55.2 | 51.6 | 47.0 | North net |
| 8/27/2018 | <i>Caretta caretta</i> | | KKG001/KKG002 | 60.3 | 60.5 | 63.2 | 61.4 | 51.6 | 47.2 | 30.1 | South net |
| 8/27/2018 | <i>Chelonia mydas</i> | | KKG003/KKG004 | 51.4 | 51.8 | 54.9 | 48.4 | 40.2 | 41.7 | 16.7 | South net |
| 8/28/2018 | <i>Chelonia mydas</i> | 11 | MMX173/MMX174 | 57.7 | 57.9 | 62.5 | 54.6 | 45.0 | 46.9 | 25.8 | South net |
| 8/31/2018 | <i>Caretta caretta</i> | | KKG005/KKG006 | 68.4 | 69.1 | 75.2 | 73.1 | 60.0 | 54.0 | 48.3 | North net |
| 8/31/2018 | <i>Caretta caretta</i> | | KKG007/KKG008 | 82.5 | 84.0 | 88.4 | 82.3 | 63.9 | 59.6 | 76.2 | South net |
| 8/31/2018 | <i>Caretta caretta</i> | | KKG009/KKG010 | 61.1 | 62.0 | 65.1 | 68.3 | 55.8 | 49.9 | 39.9 | North net |

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/14/17, 8/24/17, 3/3/18, 3/18/18, and 8/7/18.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/3/18 and 8/7/18.
3. Adult female. Tail length = 230 mm.
4. STRANGE TAG (PIT TAG). An information request was sent to the Archie Carr Center for Sea Turtle Research, University of Florida (no additional information is available at this time).
5. Adult female. Tail length = 277 mm. Turtle missing 90% of right front flipper (partially healed). PIT tag inserted in left front flipper. Multiple partially healed lacerations to neck, head, and flippers. Despite significant injuries turtle is robust, active, and wounds are healing.
6. Adult female. Tail length = 214 mm.
7. Adult female. Tail length = 191 mm.
8. Adult female. Tail length = 225 mm.
9. Adult female. Tail length = 204 mm. Turtle missing 50% of right rear flipper (healed).
10. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/24/14, 1/8/16, 1/26/18, 3/24/18, and 8/26/18.
11. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/29/08, 1/17/14, 5/7/14, 1/27/15, 3/1/15, 12/23/15, 1/30/16, 6/2/16, 1/5/17, 6/1/17, 9/27/17, 1/2/18, 7/3/18, and 8/28/18. Turtle missing 25% from right rear flipper (healed). Multiple deep moderate fresh scrapes in anterior carapace. Old hooking wound in lower left jaw. Fishing lure in left front flipper (fell out during work-up).

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

| | Loggerheads (<i>Caretta caretta</i>) | | Green turtles (<i>Chelonia mydas</i>) | | Hawksbills (<i>Eretmochelys imbricata</i>) | | Leatherbacks (<i>Dermochelys coriacea</i>) | | Kemp's ridley (<i>Lepidochelys kempii</i>) | | Overall Totals | |
|------------------------------|---|--------------|--|--------------|---|--------------|---|--------------|---|--------------|----------------|--------------|
| | Aug-18 | Year to Date | Aug-18 | Year to Date | Aug-18 | Year to Date | Aug-18 | Year to Date | Aug-18 | Year to Date | Aug-18 | Year to Date |
| Captures | 28 | 201 | 4 | 231 | 0 | 0 | 0 | 0 | 0 | 11 | 32 | 443 |
| Causal Mortalities | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Non-causal Mortalities | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Causal Injuries | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sent to rehab | 0 | 9 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Fresh Scrapes | | | | | | | | | | | | |
| None | 2 | 16 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 40 |
| Minor | 25 | 176 | 3 | 201 | 0 | 0 | 0 | 0 | 0 | 11 | 28 | 388 |
| Moderate | 1 | 9 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 15 |
| Severe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Percent with mod/sev scrapes | 3.6% | 4.5% | 25.0% | 2.6% | N/A | N/A | N/A | N/A | N/A | 0.0% | 6.3% | 3.4% |