

NRR-DMPSPeM Resource

From: Steve Weege <steveweege@gmail.com>
Sent: Tuesday, May 8, 2018 7:27 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] April 2018 FPL Marine Turtle Removal Monthly Report
Attachments: April 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

April 2018

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for April 2018. This month we captured five *Caretta caretta* and ten *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. One sea turtle was sent for rehabilitation (non-causal) and there were no mortalities during the month of April. As with all sea turtle strandings at the Saint Lucie Plant (alive or dead), the Florida Fish and Wildlife Conservation Commission (FWC) was consulted and a stranding form was filed with the state through the Sea Turtle Stranding and Salvage Network. One adult loggerhead was sent to a rehabilitation facility for non-causal injuries this month. On April 7th, an emaciated and lethargic adult male loggerhead was hand-captured from the boat while lingering at the surface of the intake canal. The animal was in poor condition and its heartbeat was visible. After consultation with FWC, Inwater Research Group biologists transported the turtle partway to rehab (taken to Loggerhead Marinelifelife Center and later transferred to the Gumbo Limbo Nature Center, Boca Raton).

The primary 5-inch barrier net encountered light-to-moderate amounts of algae during the month of April. Furthermore, the planned power plant outage that began in March concluded and water levels and flow rates in the intake canal have returned to normal operation levels. The new 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

Steve Weege

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Files	Size	Date & Time
MESSAGE	2361	5/8/2018 7:27:10 AM

April 2018 Marine Turtle Captures.pdf		70744
Monthly Report Notes 2018.pdf	54587	
FPL St. Lucie Capture Summary 2018.pdf		74162

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

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
4/1/2018	<i>Caretta caretta</i>		MMY132/MMY133	61.8	62.5	67.5	67.4	52.4	48.0	34.4	South net
4/1/2018	<i>Chelonia mydas</i>		MMY134	27.0	27.3	28.6	24.9	21.7	22.6	3.0	Dip net
4/6/2018	<i>Chelonia mydas</i>	1	44577D0830	62.2	62.7	67.3	63.5	49.1	50.2	31.5	South net
4/7/2018	<i>Caretta caretta</i>	2	STW180407-01	90.4	91.6	98.0	91.0	68.7	64.2	93.4	Hand capture
4/10/2018	<i>Chelonia mydas</i>	3	4A611A1445	48.5	48.7	53.4	46.6	37.2	40.6	15.8	Dip net
4/13/2018	<i>Chelonia mydas</i>		MMY135/MMY136	52.9	53.1	56.8	50.2	40.7	44.0	19.4	South net
4/13/2018	<i>Caretta caretta</i>		MMY137/MMY138	57.0	58.2	62.6	58.2	48.8	44.9	29.0	South net
4/14/2018	<i>Chelonia mydas</i>		MMY139/MMY140	38.1	39.0	41.5	36.1	31.7	31.3	7.5	South net
4/19/2018	<i>Chelonia mydas</i>		MMY141/MMY142	34.0	34.1	35.8	29.7	26.4	27.9	4.5	Dip net
4/21/2018	<i>Chelonia mydas</i>		MMY143/MMY144	46.1	46.2	49.2	42.1	34.8	36.8	11.8	South net
4/23/2018	<i>Chelonia mydas</i>		MMY145/MMY146	54.9	55.5	58.3	51.4	43.1	45.3	20.9	South net
4/24/2018	<i>Chelonia mydas</i>		MMY147/MMY148	54.3	54.4	57.8	48.3	41.8	44.4	20.0	South net
4/25/2018	<i>Caretta caretta</i>		MMY149/MMY150	67.3	68.5	74.5	72.5	58.2	53.1	48.1	South net
4/27/2018	<i>Caretta caretta</i>		MMY151/MMY152	58.5	59.2	61.4	61.6	50.9	49.1	35.0	South net
4/27/2018	<i>Chelonia mydas</i>		MMY153/MMY154	41.9	42.3	44.2	36.6	32.4	33.2	7.6	Dip net

NOTES

1. 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, 7/25/11, 10/13/11, 7/12/12, 12/16/12, 8/19/13, 2/12/14, 5/7/14, 1/4/16, 4/26/16, 10/23/17, 11/14/17, and 4/6/18. No new Inconel tags inserted because of tag scars.
2. REHAB (NON-CAUSAL). Stranding# STW180407-01. Emaciated and lethargic adult male loggerhead. Tail length = 455 mm. The turtle was hand-captured from the boat while lingering at the surface. The heartbeat was visible. After consultation with FWC, Inwater Research Group biologists transported the turtle partway to rehab (taken to Loggerhead Marinelife Center and later transferred to Gumbo Limbo Nature Center).
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/25/11, 10/21/15, 12/28/15, 3/8/16, 2/2/17, and 4/10/18. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 15). Pap growing out of tag scar in right front flipper.

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	
	Apr-18	Year to Date	Apr-18	Year to Date	Apr-18	Year to Date	Apr-18	Year to Date	Apr-18	Year to Date	Apr-18	Year to Date
Captures	5	74	10	211	0	0	0	0	0	10	15	295
Causal Mortalities	0	0	0	5	0	0	0	0	0	0	0	5
Non-causal Mortalities	0	0	0	2	0	0	0	0	0	0	0	2
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	1	5	0	5	0	0	0	0	0	0	1	10
Fresh Scrapes												
None	0	7	1	128	0	0	0	0	0	0	1	135
Minor	5	66	8	79	0	0	0	0	0	10	13	155
Moderate	0	1	1	4	0	0	0	0	0	0	1	5
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	1.4%	10.0%	1.9%	N/A	N/A	N/A	N/A	N/A	0.0%	6.7%	1.7%