

NRR-DRMAPEm Resource

From: Steve Weege <sweege@inwater.org>
Sent: Saturday, September 14, 2019 9:53 AM
To: Koperski, Meghan
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Subject: [External_Sender] August 2019 FPL Marine Turtle Removal Monthly Report
Attachments: August 2019 Marine Turtle Captures.pdf; Monthly Report Notes 2019.pdf; FPL St. Lucie Capture Summary 2019.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
August 2019**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for August 2019. This month we captured 16 *Caretta caretta* and one *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. Two sea turtles were sent for rehabilitation for non-causal injuries and there were no mortalities during the month of August. 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 stranding forms were filed with the state through the Sea Turtle Stranding and Salvage Network.

Two turtles were sent to rehabilitation facilities for non-causal injuries this month. On August 2nd, an emaciated and lethargic subadult loggerhead was removed from the base of the 5-inch barrier net. There were multiple areas of exposed bone along the ventral marginals. The turtle was picked up and transported by the FWC stranding coordinator to the Loggerhead Marinelife Center (LMC) in Juno Beach for rehab. On August 8th, Inwater Research Group, Inc. (IRG) biologists dip-netted an underweight and lethargic subadult loggerhead with a heavy epibiont load. This turtle was transported by IRG personnel to LMC. Both turtles were sent to rehab for injuries or illness that were unrelated to the power plant and were therefore classified as non-causal.

The primary 5-inch barrier net encountered severe loads of algae during the month. Underwater Engineering Services, Inc. inspected the barrier net and removed accumulated algae and debris as needed. Ballard Marine Construction finished dredging the intake canal and replaced the 8-inch A-1-A barrier net upon completion. Altogether, 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 2019. 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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From: Steve Weege

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Files	Size	Date & Time
MESSAGE	2682	9/14/2019 9:53:36 AM
August 2019 Marine Turtle Captures.pdf		87978
Monthly Report Notes 2019.pdf	67363	
FPL St. Lucie Capture Summary 2019.pdf		89651

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MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL AUGUST 2019

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/1/2019	<i>Caretta caretta</i>		KKL0665/KKL0666	54.5	56.0	59.4	57.1	46.8	42.5	24.6	North net
8/2/2019	<i>Caretta caretta</i>		KKL0668/KKL0669	60.9	61.8	64.6	65.6	53.6	49.9	39.3	North net
8/2/2019	<i>Caretta caretta</i>	1	MML376/KKL0667	56.1	57.4	61.9	57.1	47.4	43.6	29.4	North net
8/2/2019	<i>Caretta caretta</i>	2	STW190802-01	62.9	64.0	67.4	66.3	50.7			Hand capture
8/5/2019	<i>Caretta caretta</i>	3	KKL0515/KKL0516	65.6	67.1	69.8	67.5	55.6	51.4	38.0	North net
8/6/2019	<i>Chelonia mydas</i>		KKL0670/KKL0671	84.2	84.9	90.7	81.7	66.1	70.3	77.4	North net
8/8/2019	<i>Caretta caretta</i>	4	RMC190808-01	63.0	64.2	67.3	63.7	51.4	48.6	31.1	Dip net
8/18/2019	<i>Caretta caretta</i>		KKL0672/KKL0673	59.4	60.5	64.9	62.4	50.9	46.4	34.5	North net
8/19/2019	<i>Caretta caretta</i>		KKL0674/KKL0675	59.4	61.6	64.4	60.4	49.5	46.2	29.1	Dip net
8/20/2019	<i>Caretta caretta</i>		KKL0676/KKL0677	79.3	80.6	85.1	81.6	63.7	60.2	71.4	North net
8/21/2019	<i>Caretta caretta</i>	5	4327270833	83.6	84.4	89.5	80.1	63.3	62.7	80.1	North net
8/22/2019	<i>Caretta caretta</i>		KKL0678/KKL0679	59.5	61.0	65.5	62.5	50.7	46.3	35.4	Dip net
8/23/2019	<i>Caretta caretta</i>	6	KKL0565/KKL0566	62.5	63.3	68.1	65.7	54.5	48.7	33.3	North net
8/23/2019	<i>Caretta caretta</i>		KKL0680/KKL0681	60.4	63.0	65.9	62.5	53.2	47.4	36.4	North net
8/27/2019	<i>Caretta caretta</i>		KKL0682/KKL0683	53.5	54.5	57.1	56.4	48.6	43.5	24.9	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/28/2019	<i>Caretta caretta</i>	7	KKL0684/MMA794	78.8	80.5	83.5	77.2	59.5	61.1	69.0	North net
8/30/2019	<i>Caretta caretta</i>		KKL0685/KKL0686	57.8	59.2	62.0	64.4	62.3	45.4	33.0	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, 8/7/18, 9/18/18, and 8/2/19.
2. REHAB (NON-CAUSAL). Stranding# STW190802-01. Emaciated and lethargic subadult loggerhead removed from base of 5-inch barrier net by divers. Multiple areas of exposed bone along ventral marginals. No ventral measurements were taken due to the animal's condition. Weight estimated at 30kg. The turtle was picked up and transported by the FWC stranding coordinator to the Loggerhead Marinelife Center (LMC) in Juno Beach for rehab.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/5/19 and 8/5/19.
4. REHAB (NON-CAUSAL). Stranding# RMC190808-01. Underweight and lethargic subadult loggerhead with a heavy barnacle/epibiont load. Transported by Inwater Research Group biologists to LMC for rehab.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/11/97, 7/21/99, 8/10/00, 11/3/00, 8/22/01, 3/21/02, 6/24/03, 11/2/04, 7/15/05, 8/6/06, 9/21/06, 9/16/08, 4/25/13, and 8/21/19.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/29/19, 7/3/19, and 8/23/19.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/4/17 and 8/28/19. Wounds in right front flipper consistent with shark bite.

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>)		Olive ridley (<i>Lepidochelys olivacea</i>)		Overall Totals	
	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date
Captures	16	197	1	81	0	0	0	0	0	12	0	1	17	291
Causal Mortalities	0	1	0	2	0	0	0	0	0	0	0	0	0	3
Non-Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	2	11	0	2	0	0	0	0	0	1	0	0	2	14
Fresh Scrapes	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date	Aug-19	Year to Date
None	2	22	0	9	0	0	0	0	0	1	0	0	2	32
Minor	14	171	1	68	0	0	0	0	0	11	0	1	15	251
Moderate	0	4	0	4	0	0	0	0	0	0	0	0	0	8
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	2.0%	0.0%	4.9%	N/A	N/A	N/A	N/A	N/A	0.0%	N/A	0.0%	0.0%	2.7%