

NRR-DRMAPEm Resource

From: Steve Weege <sweege@inwater.org>
Sent: Thursday, July 18, 2019 1:27 PM
To: Koperski, Meghan
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Subject: [External_Sender] June 2019 FPL Marine Turtle Removal Monthly Report
Attachments: Monthly Report Notes 2019.pdf; FPL St. Lucie Capture Summary 2019.pdf; June 2019 Marine Turtle Captures.pdf

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

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

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for June 2019. This month we captured 24 *Caretta caretta* and two *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 June. 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 strandings 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 June 18th, a juvenile loggerhead was captured in the tangle nets that was missing most of its right rear flipper and was underweight. The turtle was heavily encrusted with barnacles and had skin sloughage on the tips of all of its flippers. After consultation, FWC transported this animal to the Loggerhead Marinelife Center (LMC) in Juno Beach for rehabilitation. On June 26th, a subadult loggerhead was hand captured that was emaciated and lethargic. It also had a longitudinal crack in its anterior carapace. This turtle was taken to LMC (transported by rehab center personnel). 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 light loads of algae during the month. Underwater Engineering Services, Inc. (UESI) inspected the barrier net and removed accumulated algae and debris as needed. The short-term maintenance outage concluded in early June and Ballard Marine Construction finished dredging the intake canal east of the primary 5-inch barrier net. The bathymetry results for the dredging project were favorable and, therefore; Ballard will begin dredging west of the primary 5-inch barrier net next month. 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

Steve Weege

Sr. Environmental Specialist

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From: Steve Weege

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Files	Size	Date & Time
MESSAGE	2940	7/18/2019 1:27:29 PM
Monthly Report Notes 2019.pdf	71487	
FPL St. Lucie Capture Summary 2019.pdf		89925
June 2019 Marine Turtle Captures.pdf		90210

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NOTES

1. Adult female loggerhead. Tail length = 217 mm. Mating wounds on ventral side of neck.
2. Adult female loggerhead. Tail length = 197 mm.
3. Adult female loggerhead. Tail length = 204 mm.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08, 5/10/11, 6/13/11, 7/25/11, 7/7/12, 2/5/13, 3/20/13, 5/7/14, 1/3/15, 4/16/15, 6/15/15, 5/30/17, 7/24/17, 10/21/17, 11/20/17, and 6/3/19.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/27/18, 4/19/19, and 6/3/19.
6. Adult female loggerhead. Tail length = 289 mm. Old shark bite wounds in multiple flippers.
7. Adult female loggerhead. Tail length = 224 mm. Healed shark rakings in carapace and plastron. Turtle missing half of right front flipper (healed). Mating wound on dorsal side of neck.
8. Adult female loggerhead. Tail length = 284 mm. Mating wound on ventral side of neck.
9. Adult female loggerhead. Tail length = 225 mm.
10. Adult female loggerhead. Tail length = 224 mm.
11. Adult female loggerhead. Tail length = 209 mm.
12. STRANGE TAG (Inconel Tag), information request forwarded to the Archie Carr Center for Sea Turtle Research at the University of Florida. Large healing notch in left posterior carapace. Multiple fatty nodules in shoulders and one on neck behind lower jaw (don't appear to be papillomas).
13. REHAB (NON-CAUSAL). Stranding# RCW190618-01. Turtle missing 85% of right rear flipper and skin sloughage at tips of all four flippers. Heavy barnacle load on carapace and skin. Transported by FWC to the Loggerhead Marinelifelife Center in Juno Beach for rehab.
14. Adult female loggerhead. Tail length = 246 mm. Moderate fresh scrapes.
15. REHAB (NON-CAUSAL). Stranding# RMC190626-01. Longitudinal crack in left anterior carapace. Turtle is emaciated and lethargic with heavy epibiont load. Ventral measurements not taken due to carapace damage. Picked up and transported to rehab by Loggerhead Marinelifelife Center personnel.
16. Adult female loggerhead. Tail length = 108 mm. Mating wounds on ventral side of neck.

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	
	Jun-19	Year to Date	Jun-19	Year to Date	Jun-19	Year to Date	Jun-19	Year to Date	Jun-19	Year to Date	Jun-19	Year to Date	Jun-19	Year to Date
Captures	24	153	2	79	0	0	0	0	0	12	0	1	26	245
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	9	0	2	0	0	0	0	0	1	0	0	2	12
Fresh Scrapes														
None	1	19	0	9	0	0	0	0	0	1	0	0	1	29
Minor	22	131	2	66	0	0	0	0	0	11	0	1	24	209
Moderate	1	3	0	4	0	0	0	0	0	0	0	0	1	7
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	4.2%	2.0%	0.0%	5.1%	N/A	N/A	N/A	N/A	N/A	0.0%	N/A	0.0%	3.8%	2.9%

**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
JUNE 2019**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/1/2019	<i>Caretta caretta</i>	1	KKL0567/KKL0568	87.9	90.0	96.4	84.1	67.9	68.3	106.4	South net
6/2/2019	<i>Caretta caretta</i>		KKL0569/KKL0570	82.5	84.6	87.9	81.1	66.7	63.5	84.9	Hand capture
6/2/2019	<i>Caretta caretta</i>	2	KKL0571/KKL0572	87.8	89.5	95.9	90.7	71.7	70.8	104.6	Hand capture
6/2/2019	<i>Caretta caretta</i>	3	KKL0573/KKL0574	86.0	87.3	93.6	86.4	65.0	66.4	97.6	Hand capture
6/3/2019	<i>Chelonia mydas</i>	4	4A4E4A464D	59.8	60.0	63.9	59.3	47.8	48.5	28.7	Hand capture
6/3/2019	<i>Chelonia mydas</i>	5	MMY154/KKG378	44.1	44.4	46.6	39.1	34.4	34.9	10.4	Hand capture
6/4/2019	<i>Caretta caretta</i>	6	KKL0575/KKL0576	95.0	96.3	99.3	96.5	74.2	74.1	141.2	South net
6/6/2019	<i>Caretta caretta</i>	7	KKL0577/KKL0578	86.5	86.6	91.8	82.6	66.5	66.7	96.0	North net
6/10/2019	<i>Caretta caretta</i>	8	KKL0579/KKL0580	89.7	91.4	94.9	90.6	68.9	72.9	122.7	South net
6/10/2019	<i>Caretta caretta</i>	9	KKL0581/KKL0582	91.4	92.3	98.7	88.7	72.1	71.2	121.4	North net
6/12/2019	<i>Caretta caretta</i>		KKL0583/KKL0584	81.9	82.8	89.4	78.9	64.2	63.6	86.2	North net
6/12/2019	<i>Caretta caretta</i>		KKL0585/KKL0586	81.2	82.5	88.4	74.8	57.9	63.1	72.2	Hand capture
6/13/2019	<i>Caretta caretta</i>		KKL0587/KKL0588	73.9	75.0	79.5	72.9	61.5	56.7	55.5	North net
6/14/2019	<i>Caretta caretta</i>	10	KKL0589/KKL0590	88.9	89.8	95.5	84.9	69.8	66.9	102.8	Hand capture
6/14/2019	<i>Caretta caretta</i>	11	KKL0591/KKL0592	87.2	88.8	93.9	83.2	63.3	64.3	92.2	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPLE (cm)	Weight (kg)	Method
6/18/2019	<i>Caretta caretta</i>	12	HA5065/KKL0597	78.6	81.6	88.1	75.6	62.5	62.3	71.5	South net
6/18/2019	<i>Caretta caretta</i>		KKL0593/KKL0594	79.6	81.6	86.9	79.0	65.1	61.7	83.4	South net
6/18/2019	<i>Caretta caretta</i>		KKL0595/KKL0596	55.4	57.2	61.6	59.0	49.9	43.7	30.0	North net
6/18/2019	<i>Caretta caretta</i>		KKL0598/KKL0599	59.0	60.0	63.5	63.0	49.9	45.7	30.6	North net
6/18/2019	<i>Caretta caretta</i>	13	RCW190618-01	58.3	59.4	65.7	63.5	49.1	45.5	30.9	North net
6/19/2019	<i>Caretta caretta</i>		KKL0600/KKL0601	74.4	75.2	81.4	76.3	59.9	56.3	56.1	North net
6/19/2019	<i>Caretta caretta</i>		KKL0602/KKL0603	67.0	68.3	73.5	72.3	58.2	52.6	45.5	North net
6/20/2019	<i>Caretta caretta</i>		KKL0604/KKL0605	79.4	81.2	86.0	83.7	64.2	60.0	82.7	North net
6/25/2019	<i>Caretta caretta</i>	14	KKL0606/KKL0607	93.4	93.6	99.4	95.5	69.9	77.2	131.4	North net
6/26/2019	<i>Caretta caretta</i>	15	RMC190626-01	73.0	74.6	78.6	76.8	59.6			Hand capture
6/27/2019	<i>Caretta caretta</i>	16	KKL0608/KKL0609	87.4	89.6	93.9	83.2	67.7	69.1	90.8	North net