

From: Steve Weege <sweege@inwater.org>
Sent: Tuesday, July 12, 2022 4:02 PM
To: Koperski, Meghan
Cc: Eldridge, Jodie; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Eaton, Kristin; William Nurnberger; Audra Livergood - NOAA Federal; Seth.Duston@fpl.com; Cody Mott; Jguertin
Subject: [External_Sender] June 2022 FPL Marine Turtle Removal Monthly Report
Attachments: June 2022 Marine Turtle Captures.pdf; Monthly Report Notes 2022.pdf; FPL St. Lucie Capture Summary 2022.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
June 2022**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for June 2022. This month we captured 21 *Caretta caretta* and one *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 this month.

FPL's contracted biologists inspect the banks of the intake canal east of the 5-inch mesh barrier net for turtle tracks or other signs of nesting each morning during nesting season (March 1st -October 31st). On June 26th, a loggerhead was found to have nested on the intake canal bank overnight. The egg chamber was found and the nest was relocated to the beach by 7:30 AM. The nest will be monitored daily and inventoried so that hatch success can be evaluated and reported to FWC.

The primary 5-inch barrier net encountered severe amounts of algae this past month. IRG performed around-the-clock monitoring of the intake canal and barrier net system either as warranted by sufficiently high debris intrusion levels or whenever directed by FPL oversight personnel. Furthermore, Underwater Engineering Services (UESI) divers inspected and cleaned the 5-inch barrier net as needed. 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 2022. 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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Files	Size	Date & Time
MESSAGE	2183	7/12/2022 4:02:25 PM
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Monthly Report Notes 2022.pdf	185710	
FPL St. Lucie Capture Summary 2022.pdf	252798	

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
JUNE 2022**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/1/2022	<i>Caretta caretta</i>		FFE681/FFE682	71.0	72.3	75.9	73.8	60.3	56.9	53.2	North net
6/2/2022	<i>Caretta caretta</i>	1	FFE683/FFE684	83.9	86.0	88.5	83.0	67.8	68.7	92.8	Hand capture
6/2/2022	<i>Caretta caretta</i>		FFE685/FFE686	77.2	78.6	79.5	72.4	59.0	60.1	67.6	Hand capture
6/6/2022	<i>Caretta caretta</i>	2	FFE687/FFE688	84.9	85.5	94.1	82.5	63.3	65.3	93.5	North net
6/6/2022	<i>Caretta caretta</i>	3	FFE689/FFE690	83.5	84.8	88.4	85.5	66.7	67.5	106.9	North net
6/6/2022	<i>Caretta caretta</i>	4	FFE691/FFE692	91.5	92.6	95.5	89.8	73.0	71.6	127.1	North net
6/7/2022	<i>Caretta caretta</i>	5	FFE693/FFE694	88.8	90.9	94.5	81.5	64.7	66.2	96.3	North net
6/8/2022	<i>Caretta caretta</i>		FFE695/FFE696	81.0	82.4	85.7	76.9	59.4	62.7	84.2	North net
6/8/2022	<i>Caretta caretta</i>		FFE697/FFE698	82.2	83.5	86.1	83.1	68.4	63.1	84.8	South net
6/10/2022	<i>Caretta caretta</i>	6	FFE699/FFE700	87.2	88.2	93.0	82.5	64.5	64.9	93.8	North net
6/12/2022	<i>Caretta caretta</i>	7	FFE701/FFE702	85.2	87.3	91.6	86.0	69.9	69.4	97.3	North net
6/13/2022	<i>Caretta caretta</i>		FFE703/FFE704	75.8	77.5		71.5	58.5	56.2	59.9	North net
6/16/2022	<i>Chelonia mydas</i>		FFE705/FFE706	37.8	37.9	40.1	34.2	29.1	30.6	7.1	Hand capture
6/16/2022	<i>Caretta caretta</i>		FFE707	73.0	74.2	77.5	75.0	60.1	58.6	64.0	Hand capture
6/17/2022	<i>Caretta caretta</i>		FFE708/FFE709	63.2	64.4	66.4	63.5	54.7	51.0	39.2	North net
6/18/2022	<i>Caretta caretta</i>	8	FFE710/FFE711	98.1	99.2	102.8	97.1	75.0	73.5	153.2	Hand capture
6/21/2022	<i>Caretta caretta</i>	9	FFE712/FFE713	90.1	91.7	97.8	95.5	75.2	71.6	119.0	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CACL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
6/26/2022	<i>Caretta caretta</i>	10	FFE714/FFE715	95.7	96.3	101.7	93.4	73.4	72.5	116.0	Hand capture
6/26/2022	<i>Caretta caretta</i>		FFE716/FFE717	81.8	82.5	87.9	77.9	63.0	63.6	84.2	Hand capture
6/27/2022	<i>Caretta caretta</i>	11	FFE718/FFE719	84.2	85.2	92.1	86.9	65.0	67.2	89.5	North net
6/27/2022	<i>Caretta caretta</i>	12	FFE720/FFE721	92.3	94.1	101.4	87.7	71.7	73.2	115.8	North net
6/30/2022	<i>Caretta caretta</i>		FFE722/FFE723	77.0	80.4	84.2	79.0	59.7	60.5	70.6	North net

NOTES

1. Adult female loggerhead. Tail length = 190 mm.
2. Adult female loggerhead. Tail length = 174 mm. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 1). Large 4cm papilloma tumor on left shoulder. Longitudinal 47cm healed crack in center of carapace from an apparent old boat strike injury. Carapace slightly kyphotic due to old injury. Abscess in left axilla (possibly due to an old hooking wound).
3. Adult female loggerhead. Tail length = 221 mm. Turtle missing small portion of posterior carapace from an old healed injury. Turtle is fat with recent mating wounds in neck and shoulders. Sex determination made at 84.8cm because the undamaged carapace would have been greater than 85cm.
4. Adult female loggerhead. Tail length = 218 mm.
5. Adult female loggerhead. Tail length = 210 mm.
6. Adult male loggerhead. Tail length = 265 mm. Sex determination based on appearance and size of tail.
7. Adult female loggerhead. Tail length = 230 mm.
8. Adult female loggerhead. Tail length = 271 mm.
9. Adult female loggerhead. Tail length = 181 mm.
10. Adult female loggerhead. Tail length = 210 mm. Mating scars in ventral side of neck.
11. Adult female loggerhead. Tail length = 194 mm. Partially healed 7cm laceration in dorsal surface of neck (not a fresh scrape). Smooth spherical 3.5cm diameter nodule in ventral surface of neck (not a fibropapilloma). Mating scar in ventral surface of neck.
12. Adult female loggerhead. Tail length = 209 mm. Posterior carapace deformed (irregular concavity, possibly from an old healed injury).

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	
	Jun-22	Year to Date	Jun-22	Year to Date	Jun-22	Year to Date	Jun-22	Year to Date	Jun-22	Year to Date	Jun-22	Year to Date
Captures	21	90	1	40	0	0	0	1	0	1	22	132
Causal Mortalities	0	0	0	0	0	0	0	0	0	1	0	1
Non-causal Mortalities	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
Sent to rehab	0	3	0	2	0	0	0	0	0	0	0	5
Fresh Scrapes		Year to Date		Year to Date		Year to Date		Year to Date		Year to Date		Year to Date
None	4	14	0	6	0	0	0	0	0	0	4	20
Minor	15	69	1	34	0	0	0	0	0	1	16	104
Moderate	2	7	0	0	0	0	0	1	0	0	2	8
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	9.5%	7.8%	0.0%	0.0%	N/A	N/A	N/A	100.0%	N/A	0.0%	9.1%	6.1%