

From: Steve Weege <sweege@inwater.org>
Sent: Thursday, September 23, 2021 10:38 AM
To: Koperski, Meghan
Cc: Ed Hollowell; Jodie_Gless@fpl.com; Ken_Frehafer@fpl.com; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; Eaton, Kristin; Jonathon Gorham; William.Nurnberger@fpl.com; audra.livergood@noaa.gov; Sciscente, Richard; Seth.Duston@fpl.com
Subject: [External_Sender] August 2021 FPL Marine Turtle Removal Monthly Report
Attachments: August 2021 Marine Turtle Captures.pdf; Monthly Report Notes 2021.pdf; FPL St. Lucie Capture Summary 2021.pdf

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

Subject: Marine Turtle Removal Monthly Summary August 2021

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for August 2021. This month we captured 13 *Caretta caretta* and three *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.

The primary 5-inch barrier net encountered light-to-moderate amounts of algae this past month. Underwater Engineering Services, Inc. inspected the primary barrier net and removed accumulated algae and debris 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 2021. 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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Hearing Identifier: NRR_DRMA
Email Number: 1356

Mail Envelope Properties (CAOA4+RJ0qr58pYzYzTUOPtSb9g2tuBm3bb0Q6URJywPOMnrWqA)

Subject: [External_Sender] August 2021 FPL Marine Turtle Removal Monthly Report
Sent Date: 9/23/2021 10:37:32 AM
Received Date: 9/23/2021 10:38:12 AM
From: Steve Weege

Created By: sweege@inwater.org

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Files	Size	Date & Time
MESSAGE	1496	9/23/2021 10:38:12 AM

August 2021 Marine Turtle Captures.pdf		186613
Monthly Report Notes 2021.pdf	183719	
FPL St. Lucie Capture Summary 2021.pdf		252125

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MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL AUGUST 2021

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/1/2021	Caretta caretta		FFE401/FFE402	62.00	63.00	67.10	64.80	51.80	48.50	34.60	Hand capture
8/1/2021	Caretta caretta	1	KKY342/KKY343	57.20	58.20	61.60	59.60	50.30	46.30	29.90	Hand capture
8/1/2021	Caretta caretta	2	KKY349/KKY350	89.70	91.60	98.20	87.40	70.00	69.50	103.80	Hand capture
8/6/2021	Caretta caretta	3	FFE403/FFE404	83.00	85.00	89.00	83.00	66.10	64.80	84.60	North net
8/7/2021	Caretta caretta		FFE407/FFE408	77.40	79.30	82.60	74.90	60.70	58.20	59.90	North net
8/7/2021	Caretta caretta		FFE405/FFE406	65.70	67.20	70.60	71.00	55.70	51.40	42.60	South net
8/8/2021	Caretta caretta		FFE411/FFE412	63.20	63.70	67.20	67.00	52.50	50.80	39.90	South net
8/8/2021	Caretta caretta	4	FFE409/FFE410	98.30	98.80	104.60	97.90	73.90	74.20	120.00	Hand capture
8/11/2021	Caretta caretta	5	KKL0680/KKL0681	64.00	65.50	69.00	64.20	53.60	47.80	35.50	South net
8/12/2021	Caretta caretta	6	FFE413/FFE414	96.20	97.20	99.40	89.00	70.20	75.50	120.80	North net
8/12/2021	Caretta caretta	7	FFE415/FFE416	95.10	95.90	100.90	89.20	74.70	70.40	104.90	North net
8/20/2021	Chelonia mydas	8	KKY224/KKY225	51.50	52.20	54.50	45.00	38.80	40.30	17.90	North net
8/21/2021	Chelonia mydas	9	KKY056/KKY057	49.70	50.10	51.80	43.00	38.30	39.10	14.00	South net
8/24/2021	Chelonia mydas		FFE418/FFE417	57.30	57.70	60.00	55.50	45.80	47.80	22.70	North net
8/24/2021	Caretta caretta		FFE422/FFE421	64.00	65.40	67.90	66.40	56.20	52.20	38.50	North net
8/24/2021	Caretta caretta		FFE419/FFE420	62.90	64.60	66.50	68.40	53.70	52.30	46.40	South net

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/25/21.
2. Adult female loggerhead. Tail length = 175 mm. Turtle missing 40% from terminal end of RFF (healed). Notch in terminal end of RFF.
3. Adult female loggerhead. Tail length = 205 mm.
4. Adult female loggerhead. Tail length = 224 mm. Small healed notch in distal trailing edge of RFF. Shark rakings in right anterior plastron and right axilla.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released on Hutchinson Island on 8/23/19, 12/15/19, 1/19/20, 7/24/20, 3/3/21, 6/8/21. Large healed notch in left posterior carapace. Turtle missing 10% from terminal ends of both rear flippers (flipper damage is healed).
6. Adult female loggerhead. Tail length = 235 mm. Healed notches in distal trailing edges of both front flippers.
7. Adult female loggerhead. Tail length = 255 mm. Turtle slightly underweight (plastron slightly concave, normal for end of the nesting season). Missing 40% from terminal end of LFF (healed).
8. RECAPTURE. Turtle was removed from the intake canal, tagged, and released at Hutchinson Island on 1/10/18, 3/14/18, 9/5/19, 12/15/20, 4/5/21. Small healed notch in marginals of left posterior carapace.
9. RECAPTURE. Turtle was removed from the intake canal, tagged, and released at Hutchinson Island on 11/12/20.

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-21	Year to Date	Aug-21	Year to Date	Aug-21	Year to Date	Aug-21	Year to Date	Aug-21	Year to Date	Aug-21	Year to Date
Captures	13	129	3	39	0	1	0	0	0	3	16	172
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
Non-causal Mortalities	0	1	0	0	0	0	0	0	0	0	0	1
Causal Injuries	0	0	0	1	0	0	0	0	0	0	0	1
Sent to rehab	0	11	0	1	0	1	0	0	0	0	0	13
Fresh Scrapes	Aug-	Year to Date	Aug-	Year to Date	Aug-	Year to Date	Aug-	Year to Date	Aug-	Year to Date	Aug-	Year to Date
None	1	21	1	7	0	1	0	0	0	1	2	30
Minor	12	106	2	30	0	0	0	0	0	2	14	138
Moderate	0	2	0	2	0	0	0	0	0	0	0	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	1.6%	0.0%	5.1%	N/A	0.0%	N/A	N/A	N/A	0.0%	0.0%	2.3%