

## NRR-DRMAPEm Resource

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**From:** Steve Weege <sweege@inwater.org>  
**Sent:** Monday, August 19, 2019 3:04 PM  
**To:** Koperski, Meghan  
**Cc:** Ed Hollowell; Jodie\_Gless@fpl.com; Ken\_Frehafer@fpl.com; MTP@myfwc.com; 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; Ryan Chabot; Sciscente, Richard; Seth.Duston@fpl.com  
**Subject:** [External\_Sender] July 2019 FPL Marine Turtle Removal Monthly Report  
**Attachments:** July 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  
July 2019**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for July 2019. This month we captured 28 *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 in July.

On the morning of July 8<sup>th</sup>, a loggerhead nest was discovered in the southeast corner of the intake canal. The Florida Fish and Wildlife Conservation Commission (FWC) was promptly notified and the nest was relocated to the beach. This nest was marked and will be inventoried to determine hatch success in accordance with FWC protocols.

In the beginning of the month, Underwater Engineering Services, Inc. (UESI) inspected the velocity caps where water is entrained into the intake canal from offshore. The offshore structures were in good condition.

The primary 5-inch barrier net encountered moderate-to-severe loads of algae during the month. UESI inspected the barrier net and removed accumulated algae and debris as needed. Ballard Marine Construction began dredging west of the primary 5-inch barrier net and removed the 8-inch A-1-A barrier net on July 10<sup>th</sup> to facilitate the process. The secondary barrier net will be replaced after dredging concludes in August. 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

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**From:** Steve Weege

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<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	2270	8/19/2019 3:04:55 PM
July 2019 Marine Turtle Captures.pdf		87239
Monthly Report Notes 2019.pdf	68929	
FPL St. Lucie Capture Summary 2019.pdf		90466

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# MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL JULY 2019

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/1/2019	<i>Caretta caretta</i>	1	KKL0610/KKL0611	91.2	91.7	97.2	85.6	64.4	69.2	101.6	South net
7/1/2019	<i>Caretta caretta</i>	2	KKL0612/KKL0613	86.3	87.9	93.5	84.8	63.3	66.9	86.5	South net
7/3/2019	<i>Caretta caretta</i>	3	KKL0565/KKL0566	62.8	63.4	67.8	65.2	54.3	48.5	34.4	Hand capture
7/3/2019	<i>Caretta caretta</i>		KKL0614/KKL0615	75.0	76.7	81.3	71.9	58.1	57.0	64.1	Hand capture
7/3/2019	<i>Chelonia mydas</i>		KKL0616/KKL0617	55.9	56.9	59.8	49.5	42.8	46.2	22.2	Hand capture
7/5/2019	<i>Caretta caretta</i>	4	KKL0618/KKL0619	99.2	99.7	106.4	92.4	68.5	74.5	132.5	North net
7/5/2019	<i>Caretta caretta</i>	5	KKL0620/KKL0621	99.8	100.8	109.3	101.7	77.8	75.6	148.9	North net
7/8/2019	<i>Caretta caretta</i>	6	HH6401/HH6402/K KL0628	79.3	81.0	84.8	76.5	60.9	61.4	64.1	Hand capture
7/8/2019	<i>Caretta caretta</i>	7	KKL0622/KKL0623	87.9	90.0	96.1	85.8	66.5	67.6	89.9	Hand capture
7/8/2019	<i>Caretta caretta</i>		KKL0624/KKL0625	80.6	82.7	89.4	77.6	59.7	63.9	70.8	Hand capture
7/8/2019	<i>Caretta caretta</i>		KKL0626/KKL0627	68.8	70.1	75.4	70.8	58.2	55.8	52.4	Hand capture
7/8/2019	<i>Caretta caretta</i>		KKL0629/KKL0630	84.2	84.9	90.3	83.4	64.2	65.4	87.6	Hand capture
7/9/2019	<i>Caretta caretta</i>	8	KKL0631/KKL0632	89.5	90.8	95.0	88.0	70.2	70.7	99.9	South net
7/9/2019	<i>Caretta caretta</i>	9	KKL0633/KKL0634	88.4	89.3	93.5	84.9	67.1	67.0	90.6	North net
7/11/2019	<i>Caretta caretta</i>		KKL0635/KKL0636	44.2	45.5	49.7	46.5	39.1	36.3	14.9	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/13/2019	<i>Caretta caretta</i>	10	KKL0637/KKL0638	94.5	95.1	99.3	94.8	74.9	74.8	123.6	North net
7/15/2019	<i>Caretta caretta</i>	11	KKL0639/KKL0640	88.0	89.2	95.6	87.5	71.6	70.2	102.2	North net
7/15/2019	<i>Caretta caretta</i>	12	KKL0641/KKL0642	95.5	96.0	101.6	90.1	75.0	73.7	133.1	South net
7/15/2019	<i>Caretta caretta</i>		KKL0643/KKL0644	65.0	66.7	68.9	67.9	53.6	50.5	40.6	North net
7/15/2019	<i>Caretta caretta</i>		KKL0645/KKL0646	77.1	77.9	85.1	75.8	58.5	58.0	63.1	North net
7/17/2019	<i>Caretta caretta</i>		KKL0647/KKL0648	63.2	64.3	68.4	64.5	51.7	48.6	39.5	South net
7/17/2019	<i>Caretta caretta</i>		KKL0649/KKL0650	67.9	68.5	72.5	69.7	56.2	54.5	45.7	South net
7/21/2019	<i>Caretta caretta</i>	13	KKL0651/KKL0652	88.4	89.0	95.4	86.1	70.2	67.6	101.9	Hand capture
7/25/2019	<i>Caretta caretta</i>	14	KKL0653/KKL0654	94.5	94.7	99.9	91.9	72.7	73.6	126.9	North net
7/26/2019	<i>Caretta caretta</i>		KKL0655/KKL0656	66.9	67.2	71.5	64.5	55.5	53.6	43.6	South net
7/28/2019	<i>Caretta caretta</i>	15	KKL0657/KKL0658	92.4	92.8	98.3	88.4	66.0	70.1	110.3	North net
7/30/2019	<i>Caretta caretta</i>	16	KKL0659/KKL0660	92.8	95.5	104.4	87.3	68.1	71.0	111.9	North net
7/30/2019	<i>Caretta caretta</i>		KKL0661/KKL0662	68.6	70.2	73.1	69.5	58.1	53.6	50.8	North net
7/31/2019	<i>Caretta caretta</i>		KKL0663/KKL0664	80.8	81.9	88.0	82.9	63.4	62.4	82.2	South net

## NOTES

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1. Adult female loggerhead. Tail length = 214 mm.
2. Adult female loggerhead. Tail length = 185 mm. Mating scars on neck. Possible shark bite wounds in right front flipper and anterior plastron (old, mostly healed wounds).
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/29/19 and 7/3/19.
4. Adult female loggerhead. Tail length = 249 mm.
5. Adult female loggerhead. Tail length = 225 mm.
6. STRANGE TAG (Inconel tags #HH6401 & HH6402), originally tagged by UCF while nesting on 6/5/19.
7. Adult female loggerhead. Tail length = 195 mm.
8. Adult female loggerhead. Tail length = 225 mm.
9. Adult female loggerhead. Tail length = 249 mm.
10. Adult female loggerhead. Tail length = 210 mm. Possible old healed hooking wound in right axilla.
11. Adult female loggerhead. Tail length = 185 mm.
12. Adult female loggerhead. Tail length = 289 mm. Turtle missing 50% of right front flipper (healed). Scars in ventral side of neck.
13. Adult female loggerhead. Tail length = 238 mm. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 1). One small (1-4 cm) pap on right front shoulder.
14. Adult female loggerhead. Tail length = 238 mm. Turtle missing 40% of left front flipper (healed).
15. Adult female loggerhead. Tail length = 225 mm. Large scar on ventral left side of neck.
16. Adult female loggerhead. Tail length = 191 mm.

*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	
	Jul-19	Year to Date	Jul-19	Year to Date	Jul-19	Year to Date	Jul-19	Year to Date	Jul-19	Year to Date	Jul-19	Year to Date	Jul-19	Year to Date
Captures	28	181	1	80	0	0	0	0	0	12	0	1	29	274
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	0	9	0	2	0	0	0	0	0	1	0	0	0	12
Fresh Scrapes														
None	1	20	0	9	0	0	0	0	0	1	0	0	1	30
Minor	26	157	1	67	0	0	0	0	0	11	0	1	27	236
Moderate	1	4	0	4	0	0	0	0	0	0	0	0	1	8
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	3.6%	2.2%	0.0%	5.0%	N/A	N/A	N/A	N/A	N/A	0.0%	N/A	0.0%	3.4%	2.9%