

## **NRR-DMPSPeM Resource**

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**From:** Ryan Chabot <ryan.chabot@gmail.com>  
**Sent:** Thursday, August 16, 2018 10:03 AM  
**To:** Steve Weege  
**Cc:** Meghan Koperski; Ed Hollowell; Jodie Gless; Ken Frehafer; Marine Turtle Permit; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; debbie.spring@noaa.gov; Eaton, Kristin; Jonathan Gorham; William Nurnberger; Audra Livergood - NOAA Federal  
**Subject:** [External\_Sender] July 2018 FPL Marine Turtle Removal Monthly Report  
**Attachments:** July '18 Sea Turtle Monthly Report.PDF

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

**Subject: Marine Turtle Removal Monthly Summary  
July 2018**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for July 2018. This month we captured 46 *Caretta caretta*, two *Chelonia mydas* and one *Lepidochelys kempii* in the intake canal of the St. Lucie power plant on Hutchinson Island. One sea turtle was sent for rehabilitation (non-causal) 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 a stranding form was filed with the state through the Sea Turtle Stranding and Salvage Network.

One loggerhead was sent to a rehabilitation facility for a non-causal injury this month. On July 19th, an adult male loggerhead was hand-captured with a large crack throughout the posterior of its carapace and with an extremely swollen tail and cloaca possibly from an old boat strike injury. The turtle was not turned over due to its injuries, so ventral measurements were not taken. Loggerhead Marinelifelife Center personnel transported the turtle to their facility for rehab.

The primary 5-inch barrier net encountered severe loads of filamentous algae from July 18th through July 26th. UESI was called in to clean the 5-inch primary barrier net on July 19th and again on July 26th. The primary barrier net 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 for the month of July. 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.

Ryan

Ryan Chabot, MSc  
Inwater Research Group, Inc.  
4160 NE Hyline Drive  
Jensen Beach, FL 34957

**Hearing Identifier:** NRR\_DMPS  
**Email Number:** 524

**Mail Envelope Properties** (CAO=LXs6Avsh20GUB17RfN4job\_OafN4z1SHsBKMy0-s7JwVAvQ)

**Subject:** [External\_Sender] July 2018 FPL Marine Turtle Removal Monthly Report  
**Sent Date:** 8/16/2018 10:02:58 AM  
**Received Date:** 8/16/2018 10:03:06 AM  
**From:** Ryan Chabot

**Created By:** ryan.chabot@gmail.com

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July '18 Sea Turtle Monthly Report.PDF

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**Recipients Received:**

Mrs. Meghan Koperski  
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Please feel free to contact me with any questions.

Sincerely,



Ryan Welsh  
Sr. Environmental Specialist  
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**MARINE TURTLE REMOVALS  
ST. LUCIE PLANT INTAKE CANAL  
JULY 2018**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/1/2018	<i>Caretta caretta</i>	1	MMY264/MMY265	88.60	88.60	93.40	88.50	66.00	68.40	99.90	North net
7/1/2018	<i>Caretta caretta</i>	2	MMY266/MMY267	85.80	87.40	93.10	87.80	69.60	66.70	91.70	North net
7/1/2018	<i>Caretta caretta</i>	3	MMY268/MMY269	89.10	91.60	96.00	93.00	73.80	67.90	103.00	South net
7/2/2018	<i>Caretta caretta</i>		MMY270/MMY271	67.20	68.60	72.60	69.20	58.40	55.40	48.50	North net
7/3/2018	<i>Chelonia mydas</i>	4	MMX173/MMX174	58.20	58.40	62.40	54.00	45.10	47.10	25.50	South net
7/3/2018	<i>Caretta caretta</i>		MMY272/MMY273	71.40	73.30	77.00	75.00	61.40	56.00	53.80	North net
7/5/2018	<i>Caretta caretta</i>		MMY274/MMY275	77.30	79.00	84.70	76.50	61.50	58.50	57.80	North net
7/5/2018	<i>Caretta caretta</i>		MMY276/MMY277	60.60	61.90	66.80	62.60	52.00	48.20	31.60	North net
7/5/2018	<i>Caretta caretta</i>		MMY278/MMY279	68.10	69.50	74.50	70.30	57.50	53.50	47.50	North net
7/5/2018	<i>Caretta caretta</i>	5	MMY280/MMY281	82.10	85.30	90.10	85.50	67.80	66.10	93.20	North net
7/5/2018	<i>Caretta caretta</i>		MMY282/MMY283	81.20	83.00	88.40	79.30	61.60	59.10	72.40	South net
7/5/2018	<i>Caretta caretta</i>		MMY284/MMY285	64.70	65.90	69.20	70.70	57.30	53.20	45.40	North net
7/5/2018	<i>Caretta caretta</i>		MMY286/MMY287	81.10	82.50	89.20	80.80	64.10	63.50	75.00	South net
7/6/2018	<i>Caretta caretta</i>	6	MMY288/MMY289	96.10	97.30	106.30	92.00	69.00	73.70	126.80	Hand capture
7/6/2018	<i>Caretta caretta</i>	7	MMY290/MMY291	81.70	85.00	90.70	82.30	66.70	66.00	80.80	Hand capture
7/6/2018	<i>Caretta caretta</i>		MMY292/MMY293	65.50	66.00	70.40	69.70	55.40	50.70	37.20	South net
7/6/2018	<i>Caretta caretta</i>		MMY294/MMY295	83.50	84.80	90.90	82.90	67.80	64.60	91.30	North net
7/6/2018	<i>Caretta caretta</i>	8	MMY296/MMY297	90.40	92.30	99.70	90.20	69.90	70.10	108.20	North net
7/7/2018	<i>Caretta caretta</i>		MMY298/MMY299	53.00	53.80	57.60	57.90	47.90	43.00	24.80	North net
7/7/2018	<i>Caretta caretta</i>	9	982000402168816	72.40	74.10	78.40	75.10	61.20	57.00	56.40	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/8/2018	<i>Caretta caretta</i>	10	MMY300/MMY301	93.70	97.70	102.10	95.70	74.20	73.20	125.60	South net
7/9/2018	<i>Caretta caretta</i>	11	MMY302/MMY303	93.90	94.40	98.00	92.90	74.60	71.90	119.80	North net
7/9/2018	<i>Caretta caretta</i>	12	MMY304/MMY305	96.70	96.70	100.50	98.00	72.20	74.60	141.40	South net
7/9/2018	<i>Caretta caretta</i>	13	MMY306/MMY307	93.70	95.80	102.00	92.10	71.50	72.20	115.60	North net
7/10/2018	<i>Caretta caretta</i>		MMY308/MMY309	64.60	65.80	70.30	68.00	56.10	50.50	38.70	North net
7/11/2018	<i>Caretta caretta</i>	14	MMY310/MMY311	87.70	88.90	96.40	88.10	67.90	67.20	98.40	North net
7/11/2018	<i>Caretta caretta</i>	15	MMY312/MMY313	89.70	90.40	96.70	88.80	70.10	68.20	102.80	North net
7/11/2018	<i>Caretta caretta</i>		MMY314/MMY315	73.90	75.00	80.30	77.00	58.90	60.70	62.40	North net
7/12/2018	<i>Caretta caretta</i>		MMY316/MMY317	82.70	84.70	91.60	84.60	63.30	62.10	82.00	South net
7/12/2018	<i>Caretta caretta</i>		MMY318/MMY319	78.50	80.80	88.20	78.60	62.70	62.50	72.20	South net
7/12/2018	<i>Caretta caretta</i>		MMY320/MMY321	56.70	57.60	64.00	64.20	50.30	44.20	31.80	North net
7/13/2018	<i>Caretta caretta</i>		MMY322/MMY323	75.20	76.20	82.60	76.90	62.30	58.30	61.70	North net
7/13/2018	<i>Caretta caretta</i>		MMY324/MMY325	83.40	84.50	90.40	80.60	64.70	64.20	86.70	North net
7/14/2018	<i>Caretta caretta</i>		MMY326/MMY327	57.50	58.70	62.50	59.60	50.00	47.10	32.40	North net
7/15/2018	<i>Caretta caretta</i>	16	MMY328/MMY329	87.20	89.20	95.90	88.70	69.30	67.60	89.30	North net
7/15/2018	<i>Lepidochelys kempii</i>		MMY330/MMY331	55.40	55.90	59.80	60.60	55.30	42.70	24.70	Hand capture
7/15/2018	<i>Caretta caretta</i>		MMY332/MMY333	49.10	50.00	53.60	50.60	43.20	39.90	19.90	Hand capture
7/15/2018	<i>Caretta caretta</i>		MMY334/MMY335	68.00	69.20	73.10	70.90	58.50	54.00	51.10	North net
7/18/2018	<i>Caretta caretta</i>	17	MMY336/MMY337	96.50	99.50	104.90	94.50	75.40	75.30	123.90	Hand capture
7/19/2018	<i>Caretta caretta</i>	18	MMY338/MMY339	97.80	97.90	103.00	97.70	74.10	78.20	127.10	Hand capture
7/19/2018	<i>Caretta caretta</i>	19	MMY340/MMY341	84.90	86.00	90.60	81.70	65.00	65.90	84.30	Hand capture
7/19/2018	<i>Caretta caretta</i>		MMY342/MMY343	72.70	74.10	81.70	76.50	61.00	58.30	58.70	Hand capture
7/19/2018	<i>Caretta caretta</i>		MMY344/MMY345	79.30	81.20	87.40	77.30	60.70	60.90	68.90	Hand capture
7/19/2018	<i>Chelonia mydas</i>		MMY346/MMY347	46.30	46.50	50.00	44.70	36.50	38.30	14.80	Hand capture
7/19/2018	<i>Caretta caretta</i>	20	STW180719-01	85.30	86.60	93.10	86.40	67.30		96.20	Hand capture
7/21/2018	<i>Caretta caretta</i>		MMY348/MMY349	79.60	81.70	87.50	78.50	62.60	63.50	77.00	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
7/23/2018	<i>Caretta caretta</i>	21	MMY350/MMY351	88.60	89.70	95.10	87.20	65.40	66.10	97.90	Hand capture
7/30/2018	<i>Caretta caretta</i>		MMY352/MMY353	66.50	67.70	75.50	76.10	59.90	53.20	50.00	South net
7/31/2018	<i>Caretta caretta</i>	22	MMY354/MMY355	91.90	92.50	98.70	90.60	73.40	71.90	120.20	North net

## NOTES

1. Adult female. Tail length = 207 mm. Turtle missing 5% from terminal end of RRF and 10% from terminal end of LRF (flipper damage is healed).
2. Adult female. Tail length = 208 mm. Small healed notch in distal trailing edge of LFF. Small healed notch in posterior marginals along right side of carapace.
3. Adult female. Tail length = 245 mm. Two inch stingray spine removed from mouth/tongue.
4. RECAPTURE, from 10/29/08, 1/17/14, 5/7/14, 1/27/15, 3/1/15, 12/23/15, 1/30/16, 6/2/16, 1/5/17, 6/1/17, 9/27/17, 1/2/18. Turtle missing 15% from terminal end of RRF and two large notches in terminal end of LRF; Flipper damage is healed.
5. Adult female. Tail length = 205 mm. Turtle missing 10% from terminal end of LRF (healed). Small section of left posterior carapace missing (part of last vertebral and left costal scute). Crack in posterior carapace into last vertebral. Carapace damage is old/healed. Tail also injured/deformed.
6. Adult female. Tail length = 240 mm. Phalanges protruding through dorsal side of LFF (injury is old/healed). Two partially healed lacerations in ventral side of LFF measuring 7 cm and 9 cm in length. Turtle also missing 10% from distal trailing edge of LFF (healed). Small healed notch in distal trailing edge of RFF. Missing 5% from terminal end of RRF (healed). Scar in ventral side of RRF.
7. Adult female. Tail length = 172 mm. Shark rakings in left side of plastron. Small notch in terminal end of LRF. Two notches in marginals of posterior end of carapace.
8. Adult female. Tail length = 216 mm. Moderate 12 cm deep fresh scrape in left anterior carapace. Notches in leading edges of each front flipper.
9. Partially healed laceration measuring 6 cm on right side of head. Healing sores in scales of proximal trailing edges of both front flippers (appear to be infected puncture wounds). No external tags applied due to flipper damage.
10. Adult female. Tail length = 265 mm. Turtle missing 40% from terminal end of LFF (healed).
11. Adult female. Tail length = 275 mm. Turtle missing 40% from terminal end of LRF (healed). Old hooking wound in left side of jaw.
12. Adult female. Tail length = 304 mm.
13. Adult female. Tail length = 202 mm. Turtle missing 40% from terminal end RFF (partially healed) and 10% from distal trailing edge of LFF (healed). Healed laceration in dorsal side of LRF. Partially healed lacerations on ventral sides of both rear flippers and inguinal area; appear to be from shark bites.
14. Adult female. Tail length = 227 mm.
15. Adult female. Tail length = 245 mm.
16. Adult female. Tail length = 194 mm.
17. Adult female. Tail length = 232 mm. Mating wound on dorsal surface of neck.
18. Adult female. Tail length = 209 mm. Mating scar in ventral surface of neck. Old healed hooking wound in proximal ventral LFF and healed notch in terminal end of RFF.
19. Adult female. Tail length = 186 mm.
20. Adult male. REHAB (NON-CAUSAL). STSSN# STW180719-01. Adult male loggerhead with large crack through posterior carapace. Tail and surrounding area swollen. No ventral measurements were taken due to the condition of the animal. The turtle was euthanized after arrival at LMC. A necropsy was performed and the turtle was determined to be a male.
21. Adult female. Tail length = 221 mm.
22. Adult female. Tail length = 207 mm. Turtle missing 25% from terminal end of LRF (healed). Two healed notches in terminal end of RRF.

*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	
	Year Jul-18 to Date	Year to Date	Year Jul-18 to Date	Year to Date	Year Jul-18 to Date	Year to Date	Year Jul-18 to Date	Year to Date	Year Jul-18 to Date	Year to Date	Year Jul-18 to Date	Year to Date
Captures	46	173	2	227	0	0	0	0	1	11	49	411
Causal Mortalities	0	0	0	6	0	0	0	0	0	0	0	6
Non-causal Mortalities	0	0	0	3	0	0	0	0	0	0	0	3
Causal Injuries	0	0	0	0	0	0	0	0	0	0	0	0
Sent to rehab	1	9	0	5	0	0	0	0	0	0	1	14
Fresh Scrapes	4	14	0	133	0	0	0	0	0	0	4	147
None	4	151	2	89	0	0	0	0	1	11	41	251
Minor	38	8	0	5	0	0	0	0	0	0	4	13
Moderate	4	0	0	0	0	0	0	0	0	0	0	0
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	8.7%	4.6%	0.0%	2.2%	N/A	N/A	N/A	N/A	0.0%	0.0%	8.2%	3.2%