

## NRR-PMDAPEm Resource

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**From:** Steve Weege <steveeweeg@gmail.com>  
**Sent:** Tuesday, December 06, 2016 10:07 AM  
**To:** Meghan Koperski  
**Cc:** Ed Hollowell; Jodie Gless; John Jones; 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; Kristin.Eaton@fpl.com; Jonathan Gorham; Terri.Taylor@fpl.com  
**Subject:** [External\_Sender] November 2016 FPL Marine Turtle Removal Monthly Report  
**Attachments:** November 2016 Marine Turtle Captures.pdf; Monthly Report Notes 2016.pdf; FPL St Lucie Capture Summary 2016.pdf; Power Plant Causal Turtles.pdf

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

### **Subject: Marine Turtle Removal Monthly Summary**

#### **November 2016**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for November 2016. This month, we captured nine (9) *Caretta caretta* and nine (9) *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. Only one sea turtle was sent for rehabilitation and there were no mortalities recorded during the month of November. 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.

There was one loggerhead sea turtle sent for rehabilitation for non-causal injuries this month. On November 28th, a subadult loggerhead in poor condition was recovered from the tangle nets. Approximately 7 feet of heavy monofilament line was protruding from the cloaca. After consultation with FWC, Inwater Research Group biologists transported the turtle to the Loggerhead Marinelife Center in Juno Beach for rehabilitation. From there, the turtle was transferred to the Gumbo Limbo Nature Center where it received further treatment and surgery to remove an ingested hook. This stranding was considered non-causal.

Net inspections were also performed during the month of November. On the 30th, UESI performed the quarterly net inspections on the barrier nets within the intake canal system (specifically, the 5-inch, 8-inch A-1-A, and 10-inch U.I.D.S. nets). In addition, trash was removed from the primary 5-inch barrier net and the support buoys for the 8-inch A-1-A net were adjusted following the outage. No holes in the netting were uncovered during the quarterly net inspections.

Throughout the month, the permanent 5-inch barrier net experienced negligible loads of algae and jellyfish that entered into the intake canal system. Overall, the 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 2016. In addition, this spreadsheet tracks fresh scrapes incurred on captured turtles for the current month, as well as the entire year. An additional Excel spreadsheet tracks all causal injuries and mortalities incurred by sea turtles at the St. Lucie Plant since 2003.

Please feel free to contact me with any questions.

Sincerely,

Steve

Steve Weege

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Files	Size	Date & Time
MESSAGE	2925	12/6/2016 10:07:29 AM
November 2016 Marine Turtle Captures.pdf		73226
Monthly Report Notes 2016.pdf	54566	

FPL St Lucie Capture Summary 2016.pdf  
Power Plant Causal Turtles.pdf

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# MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL NOVEMBER 2016

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
11/1/2016	<i>Chelonia mydas</i>		982000365058291	27.8	28.1	29.0	25.2	22.6	22.8	2.7	Dip net
11/5/2016	<i>Chelonia mydas</i>		MMA670/MMA671	47.7	47.9	50.4	44.0	38.6	39.6	12.9	South net
11/6/2016	<i>Caretta caretta</i>		MMA672/MMA673	62.1	63.5	65.8	68.1	54.3	49.8	37.7	South net
11/9/2016	<i>Caretta caretta</i>		MMA674/MMA675	61.2	62.4	67.0	63.6	52.2	48.2	36.1	South net
11/11/2016	<i>Chelonia mydas</i>		MMA676/MMA677	33.8	34.4	35.7	29.5	27.3	27.1	4.5	South net
11/11/2016	<i>Chelonia mydas</i>		MMA678/MMA679	30.4	31.0	31.7	25.1	24.1	24.3	3.3	North net
11/11/2016	<i>Chelonia mydas</i>		MMA680	27.5	28.1	28.5	23.6	21.4	22.0	2.6	South net
11/12/2016	<i>Chelonia mydas</i>		MMA681/MMA682	48.3	49.8	52.2	46.1	40.5	41.8	15.9	South net
11/12/2016	<i>Caretta caretta</i>		MMA683/MMA684	61.8	63.4	68.0	64.8	51.3	47.8	35.5	South net
11/13/2016	<i>Caretta caretta</i>		MMA685/MMA686	60.4	61.9	65.3	65.2	56.0	48.3	36.7	North net
11/16/2016	<i>Chelonia mydas</i>		MMA687	27.2	27.5	28.0	25.5	23.3	22.4	2.5	Dip net
11/17/2016	<i>Caretta caretta</i>		MMA688/MMA689	52.2	53.0	56.6	55.0	45.0	41.2	23.3	North net
11/19/2016	<i>Chelonia mydas</i>		MMA690/MMA691	43.9	44.5	46.3	40.9	36.2	37.9	10.2	North net
11/20/2016	<i>Caretta caretta</i>	1	MMA649/MMA650	59.7	61.3	64.5	63.9	51.7	47.5	37.9	North net
11/26/2016	<i>Caretta caretta</i>		MMA692/MMA693	61.7	62.7	68.0	62.9	50.7	47.9	32.9	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
11/27/2016	<i>Chelonia mydas</i>		MMA694/MMA695	47.0	47.8	49.4	40.6	36.1	38.5	13.3	South net
11/27/2016	<i>Caretta caretta</i>		MMA696/MMA697	71.9	72.9	77.8	73.0	59.3	55.9	58.1	South net
11/28/2016	<i>Caretta caretta</i>	2	RCW161128-01	70.6	72.4	75.9	71.4	57.0	56.0	46.7	North net

## NOTES

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1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/19/16 and 11/20/16.
2. REHAB (NON-CAUSAL). Stranding# RCW161128-01. Underweight subadult loggerhead in poor condition recovered from the tangle nets. Heavy monofilament line (7ft) protruding from cloaca. After consultation with FWC, Inwater Research Group biologists transported the turtle to the Loggerhead Marinelife Center in Juno Beach for rehabilitation.

*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	
	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date
Captures	9	306	9	155	0	4	0	1	0	6	18	472
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	1
Non-Causal Mortalities	0	0	0	8	0	0	0	0	0	0	0	8
Causal Injuries	0	1	0	1	0	0	0	0	0	0	0	0
Sent to Rehab	1	16	0	6	0	1	0	0	0	2	1	25
Fresh Scrapes	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date	Nov-16	Year to Date
None	2	42	1	29	0	1	0	0	0	0	3	72
Minor	7	240	8	109	0	3	0	0	0	6	15	358
Moderate	0	24	0	17	0	0	0	1	0	0	0	42
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with Mod/Sev Scrapes	0.0%	7.8%	0.0%	11.0%	N/A	0.0%	N/A	100.0%	N/A	0.0%	0.0%	8.9%



St Lucie Power Plant Causal Turtles		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	**2016	Injury / Mortality Totals by Species
Loggerhead	Total Captures	538	623	484	419	227	420	260	295	302	232	302	275	274	306	4,957
	Injuries	0	0	1	*3	0	1	1	0	0	1	1	0	0	0	5
	Mortalities	0	1	0	*21	0	0	0	1	0	0	0	0	0	1	3
Green	Total Captures	394	286	428	267	101	299	161	444	217	127	197	134	181	155	3,391
	Injuries	1	0	3	7	0	2	2	1	0	0	0	0	0	0	16
	Mortalities	1	1	1	1	1	2	0	3	1	2	2	0	4	0	19
Leatherback	Total Captures	4	2	0	1	1	0	1	2	0	2	2	0	2	1	18
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's Ridley	Total Captures	2	1	3	3	0	2	0	7	0	0	0	2	7	6	33
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawksbill	Total Captures	6	2	2	2	1	4	2	3	2	1	2	3	1	4	35
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Injury & Mortality Yearly Totals		2	2	5	32	1	5	3	5	1	3	3	0	4	1	67
Total Captures per Year		944	914	917	692	330	725	424	751	521	362	503	414	465	472	8,434

\* The loggerhead causal injuries and mortalities in 2006 were all hatchlings.

\*\* 2016 is a partial year.