

NRR-PMDAPEm Resource

From: Steve Weege <steveweege@gmail.com>
Sent: Monday, November 13, 2017 8:46 AM
To: Meghan Koperski
Cc: 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@fpl.com; Audra Livergood - NOAA Federal
Subject: [External_Sender] October 2017 FPL Marine Turtle Removal Monthly Report
Attachments: October 2017 Marine Turtle Captures.pdf; Monthly Report Notes 2017.pdf; FPL St. Lucie Capture Summary 2017.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

October 2017

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for October 2017. This month, we captured 34 *Caretta caretta* and 77 *Chelonia mydas* in the intake canal of the St. Lucie Power Plant on Hutchinson Island. There were two sea turtle mortalities and four turtles were sent for rehabilitation. 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 were two causal mortalities this month. On October 3rd, a juvenile green turtle was retrieved from the power plant intake wells in poor condition. The turtle died while in transit to rehab and was transferred to Dr. Nancy Mettee, DVM for necropsy. It was found that blunt force trauma had caused internal bleeding and the mortality was deemed causal. On October 7th, a fresh dead juvenile green turtle was removed from the intake wells with four deep wounds in its carapace. These injuries were believed to have been caused by the travelling screen and rake system utilized by the power plant and a later necropsy supported the preliminary causality determination. Both mortalities were considered causal and go against the take limit established by the most recent Biological Opinion set forth by the National Marine Fisheries Service (NMFS).

There was one causal injury this month. On October 7th, a juvenile green turtle was removed from the power plant intake wells with a puncture wound in its carapace from the travelling screen and rake system. Inwater Research Group (IRG) biologists transported the turtle partway to the Loggerhead Marinelifelife Center (LMC) in Juno Beach for rehabilitation. This injury was classified as causal.

Three turtles were sent to rehabilitation centers for non-causal injuries this month. On October 18th, a juvenile green turtle was recovered from the intake canal with recent shark attack injuries. It was missing 90% of its left front flipper and had a crack in the anterior carapace. There were shark bite marks in the carapace and other cuts in the soft tissue. After consultation with FWC, IRG biologists transported the turtle to LMC for rehab. On October 8th, two emaciated and lethargic subadult loggerheads were removed from the primary 5-inch barrier net. After coordinating with FWC, Brevard Zoo personnel picked up and transported both turtles to their rehab facility for treatment. All three strandings were classified as non-causal.

On October 8th, UESI determined that the primary 5-inch barrier net had been impacted by Hurricane Irma, allowing larger turtles to pass through the net. After consultation with FWC, FPL directed UESI to fasten a 5-inch mesh net atop the existing 8-inch A-1-A net in order to prevent turtles from moving further down the canal. IRG personnel continued to inspect the entire length of the intake canal (up to the security barrier) at least twice daily for turtles that may have made it past the primary or secondary barrier nets. Additional effort was also made to proactively capture turtles. On October 23rd, a small john boat was deployed between the 5-inch and 8-inch nets resulting in the dip net capture of one juvenile green turtle. Altogether, six juvenile green turtles were encountered west of the primary barrier net in October; the one turtle that was dip netted between the first two barrier nets and five turtles that were recovered from the intake wells (two released in good condition, two causal mortalities, and one causal injury).

The permanent 5-inch barrier net encountered moderate-to-severe loads of algae during the month of October. IRG biologists 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 inspected the 5-inch and A-1-A barrier nets weekly and removed accumulated algae and debris as needed. On October 24th, Morgan & Eklund, Inc. completed a bathymetric survey of the entire intake canal and Big Mud Creek.

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 2017. 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 2004.

Please feel free to contact me with any questions.

Sincerely,

Steve

Steve Weege

Sr. Environmental Specialist

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Subject: [External_Sender] October 2017 FPL Marine Turtle Removal Monthly Report
Sent Date: 11/13/2017 8:45:33 AM
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From: Steve Weege

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Files	Size	Date & Time
MESSAGE	5234	11/13/2017 8:45:48 AM
October 2017 Marine Turtle Captures.pdf		96789
Monthly Report Notes 2017.pdf	64445	

FPL St. Lucie Capture Summary 2017.pdf
Power Plant Causal Turtles.pdf

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
OCTOBER 2017**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/1/2017	<i>Chelonia mydas</i>	1	MML526/MML527	57.3	57.5	61.0	54.7	44.9	46.9	23.2	South net
10/1/2017	<i>Caretta caretta</i>		MML528/MML529	58.4	59.8	63.8	59.7	49.5	45.8	31.4	South net
10/1/2017	<i>Caretta caretta</i>		MML530/MML531	63.2	64.3	67.5	66.5	53.9	48.8	36.4	South net
10/2/2017	<i>Chelonia mydas</i>	2	MMA884/YR307	55.2	55.6	58.2	53.9	45.6	46.0	23.1	South net
10/2/2017	<i>Caretta caretta</i>		MML532/MML533	60.4	62.2	65.7	65.5	54.2	47.8	35.7	Hand capture
10/2/2017	<i>Caretta caretta</i>		MML534/MML535	58.9	60.0	64.7	63.0	52.3	48.5	28.9	Hand capture
10/2/2017	<i>Caretta caretta</i>		MML536/MML537	72.3	73.8	77.9	73.1	56.0	55.4	59.3	Hand capture
10/3/2017	<i>Chelonia mydas</i>	3	JRG171003-01	30.9	31.2	32.0	27.6	24.9	25.5	3.2	Intake well
10/3/2017	<i>Chelonia mydas</i>	4	MML538/MML539	103.9	103.9	108.5	100.8	80.2	86.4	151.4	South net
10/3/2017	<i>Caretta caretta</i>		MML540/MML541	65.2	66.4	70.2	69.2	56.4	51.9	41.0	South net
10/3/2017	<i>Chelonia mydas</i>		MML542/MML543	53.1	53.7	56.2	51.4	43.7	44.4	18.8	South net
10/4/2017	<i>Chelonia mydas</i>	5	LLP337/LLP338	58.5	58.7	62.1	54.8	45.0	50.7	30.6	South net
10/4/2017	<i>Caretta caretta</i>	6	LLS554	70.4	72.1	76.7	71.8	56.8	52.8	46.2	South net
10/4/2017	<i>Chelonia mydas</i>		MML544/MML545	81.7	82.0	86.7	80.4	67.7	68.7	87.2	South net
10/6/2017	<i>Chelonia mydas</i>	7	4A32430F48	53.4	53.6	58.9	51.2	40.8	42.9	20.1	Dip net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/6/2017	<i>Caretta caretta</i>		MML546/MML547	73.0	74.5	79.6	78.4	59.9	57.9	60.8	South net
10/6/2017	<i>Chelonia mydas</i>	8	MML548/MML549	58.0	58.7	63.0	57.7	46.1	47.4	27.6	South net
10/6/2017	<i>Chelonia mydas</i>	9	MML550	47.0	48.6	51.5	43.5	36.3	40.1	12.9	South net
10/7/2017	<i>Caretta caretta</i>	10	422E742232	77.8	78.2	80.9	77.0	60.5	55.5	66.6	South net
10/7/2017	<i>Chelonia mydas</i>		MML551/MML552	42.3	43.2	44.9	39.4	35.0	35.7	9.2	South net
10/7/2017	<i>Chelonia mydas</i>		MML553/MML554	59.9	60.5	64.0	54.6	48.1	50.1	29.9	South net
10/7/2017	<i>Chelonia mydas</i>	11	MML555/MML556	106.0	106.6	116.3	102.0	83.1	87.9	179.1	South net
10/7/2017	<i>Chelonia mydas</i>	12	MML557/MML558	30.0	30.5	31.4	26.7	23.5	24.5	3.4	Intake well
10/7/2017	<i>Chelonia mydas</i>	13	RCW171001-01	31.0	31.3	32.5	27.5	24.5		3.8	Intake well
10/7/2017	<i>Chelonia mydas</i>	14	RCW171007-02	24.7	25.0	27.5	23.6	20.8	21.0	1.8	Intake well
10/8/2017	<i>Caretta caretta</i>	15	MMA736/MMA737	62.5	62.9	69.2	64.0	50.6	45.6	34.1	Barrier net
10/8/2017	<i>Caretta caretta</i>	16	MML513/MML514	62.7	63.9	67.1	68.1	54.0	48.3	35.4	Barrier net
10/8/2017	<i>Chelonia mydas</i>		MML559/MML560	44.4	45.3	47.5	43.0	35.5	35.5	10.1	South net
10/8/2017	<i>Caretta caretta</i>		MML561/MML562	51.9	52.2	56.9	53.2	44.3	40.8	21.2	Barrier net
10/8/2017	<i>Chelonia mydas</i>		MML563	31.1	31.4	32.9	28.0	24.9	26.3	3.8	Dip net
10/8/2017	<i>Caretta caretta</i>		MML564//MML565	66.8	67.6	73.9	67.9	53.2	50.3	39.0	Barrier net
10/8/2017	<i>Chelonia mydas</i>		MML566/MML567	34.6	34.9	37.0	30.4	26.5	28.7	5.3	Dip net
10/9/2017	<i>Caretta caretta</i>		MML568/MML569	60.1	61.4	66.5	66.0	51.5	47.0	33.5	North net
10/9/2017	<i>Chelonia mydas</i>		MML570/MML571	78.7	79.7	85.1	78.8	63.9	65.6	66.5	North net
10/10/2017	<i>Chelonia mydas</i>	17	4A5A473052	50.0	50.6	54.6	46.5	39.0	43.3	18.0	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/10/2017	<i>Chelonia mydas</i>		MML572	47.5	47.6	50.3	46.2	37.0	41.0	15.2	North net
10/10/2017	<i>Chelonia mydas</i>		MML573	28.4	28.5	29.4	25.7	23.8	23.2	3.2	Dip net
10/10/2017	<i>Caretta caretta</i>		MML574/MML575	79.6	81.7	86.0	80.1	63.1	62.6	72.9	North net
10/10/2017	<i>Chelonia mydas</i>		MML576/MML577	73.4	74.8	78.9	67.0	56.4	61.7	50.7	North net
10/11/2017	<i>Chelonia mydas</i>	18	45430D265B	58.9	59.0	61.9	49.7	42.2	47.7	23.6	North net
10/11/2017	<i>Caretta caretta</i>		MML578/MML579	69.8	71.2	77.3	75.3	57.2	54.4	53.2	North net
10/11/2017	<i>Chelonia mydas</i>		MML580/MML581	70.8	71.5	76.2	69.2	55.6	60.9	44.4	Dip net
10/12/2017	<i>Chelonia mydas</i>	19	MML582	38.3	38.7	41.8	38.9	33.7	32.0	8.1	South net
10/13/2017	<i>Caretta caretta</i>	20	MML583/MML584	84.0	85.2	89.3	84.1	66.6	66.4	88.8	North net
10/13/2017	<i>Caretta caretta</i>		MML585/MML586	55.5	56.3	60.2	57.0	48.2	43.4	27.2	North net
10/13/2017	<i>Caretta caretta</i>	21	MML587	84.2	86.2	90.6	86.9	68.5	64.0	88.2	North net
10/15/2017	<i>Chelonia mydas</i>	22	4544120918	61.3	61.6	65.9	58.2	46.4	50.6	31.4	North net
10/15/2017	<i>Caretta caretta</i>		MML588/MML589	64.5	66.1	70.8	70.0	56.7	49.7	39.2	North net
10/15/2017	<i>Chelonia mydas</i>		MML590/MML591	66.5	67.2	72.4	68.1	52.1	56.4	38.2	North net
10/15/2017	<i>Chelonia mydas</i>	23	MML592/MML593	52.0	52.2	55.4	50.8	43.5	42.3	18.5	South net
10/15/2017	<i>Caretta caretta</i>		MML594/MML595	63.2	63.8	69.3	65.9	56.1	48.7	37.2	North net
10/15/2017	<i>Caretta caretta</i>		MML596/MML597	62.8	64.3	69.1	70.0	57.0	50.4	40.7	North net
10/15/2017	<i>Chelonia mydas</i>		MML598/MML599	39.7	40.0	41.4	36.0	31.8	31.9	8.0	North net
10/15/2017	<i>Caretta caretta</i>		MML600/MMX001	66.9	68.3	74.0	72.4	56.5	52.7	45.2	North net
10/15/2017	<i>Chelonia mydas</i>		MMX000/MMX002	55.4	55.5	58.6	52.4	43.8	47.3	20.1	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SAMPL (cm)	Weight (kg)	Method
10/16/2017	<i>Chelonia mydas</i>	24	LLS436/MMA732	54.9	55.5	58.5	52.0	43.4	44.7	21.5	South net
10/16/2017	<i>Chelonia mydas</i>	25	MMA477/MMA478	50.9	51.1	54.3	49.0	40.9	43.6	17.7	North net
10/16/2017	<i>Chelonia mydas</i>		MMX003/MMX004	45.3	45.5	48.4	40.4	34.5	37.4	12.3	North net
10/16/2017	<i>Chelonia mydas</i>		MMX005/MMX006	37.1	37.7	39.0	35.6	30.1	30.2	5.4	South net
10/16/2017	<i>Caretta caretta</i>		MMX007/MMX008	58.5	59.1	63.0	60.9	49.2	45.2	29.2	North net
10/16/2017	<i>Chelonia mydas</i>		MMX009/MMX010	46.8	47.0	50.0	43.7	36.6	38.0	12.9	South net
10/17/2017	<i>Chelonia mydas</i>		MMX011/MMX012	54.4	54.4	58.7	52.6	43.0	45.9	22.4	North net
10/17/2017	<i>Chelonia mydas</i>	26	MMX013/MMX014	53.6	53.7	56.6	47.8	41.5	41.9	18.0	South net
10/17/2017	<i>Caretta caretta</i>		MMX015/MMX016	62.7	64.6	68.5	67.9	53.7	50.9	38.6	North net
10/18/2017	<i>Chelonia mydas</i>	27	982000402162840	25.1	25.6	26.4	23.6	20.0	21.0	1.9	Intake well
10/18/2017	<i>Chelonia mydas</i>	28	MMX017/MMX018	101.9	102.6	110.2	92.3	77.7	81.4	134.3	North net
10/18/2017	<i>Chelonia mydas</i>	29	MMX019	55.5	55.7	59.8	57.2	45.8	45.4	22.4	North net
10/18/2017	<i>Chelonia mydas</i>		MMX020/MMX021	44.6	44.7	46.3	40.9	34.4	37.3	10.6	North net
10/18/2017	<i>Chelonia mydas</i>	30	RCW171018-01	38.7	39.0	40.3	35.2	31.8	32.7	6.9	North net
10/19/2017	<i>Chelonia mydas</i>	31	MMX022/MMX23	47.4	47.8	50.5	45.0	37.8	39.2	13.2	North net
10/19/2017	<i>Caretta caretta</i>		MMX024/MMX025	44.1	45.0	48.0	46.1	39.7	36.3	13.8	North net
10/20/2017	<i>Chelonia mydas</i>	32	MMX026/MMX027	56.0	57.5	60.6	52.4	44.0	46.1	23.3	South net
10/20/2017	<i>Chelonia mydas</i>		MMX028/MMX029	54.6	55.0	57.5	52.1	43.8	46.1	21.2	North net
10/20/2017	<i>Chelonia mydas</i>		MMX030/MMX031	49.9	50.4	52.4	44.6	38.8	41.7	14.2	South net
10/21/2017	<i>Chelonia mydas</i>	33	4A65664271	52.0	52.2	54.2	49.3	40.3	43.8	18.0	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/21/2017	<i>Chelonia mydas</i>		982000402169251	26.2	26.2	28.1	27.7	23.5	23.5	3.2	North net
10/21/2017	<i>Chelonia mydas</i>	34	MMA866/MMA867	55.9	56.1	59.2	55.6	44.4	45.5	23.4	South net
10/21/2017	<i>Chelonia mydas</i>	35	MMX032/MMX033	56.4	56.6	59.3	56.1	44.5	46.3	22.9	South net
10/21/2017	<i>Chelonia mydas</i>		MMX034/MMX035	77.3	77.5	81.6	76.8	62.0	63.9	62.2	South net
10/21/2017	<i>Chelonia mydas</i>	36	MMX036	53.0	53.5	55.6	49.0	40.6	43.6	17.8	South net
10/22/2017	<i>Chelonia mydas</i>	37	MML362/MML363	58.0	58.3	61.4	54.4	45.8	48.3	22.7	South net
10/22/2017	<i>Chelonia mydas</i>	38	MMX037/MMX038	98.1	98.6	103.0	96.4	77.2	81.3	130.5	North net
10/22/2017	<i>Caretta caretta</i>		MMX039/MMX040	60.7	62.5	66.4	67.5	54.3	50.0	36.9	North net
10/22/2017	<i>Chelonia mydas</i>		MMX041/MMX042	61.8	62.4	66.0	57.5	48.5	51.3	32.8	North net
10/23/2017	<i>Chelonia mydas</i>	39	44577D0830	62.5	62.7	66.8	63.3	50.0	51.0	32.8	South net
10/23/2017	<i>Chelonia mydas</i>	40	LLS491	62.6	63.0	67.1	60.1	48.5	51.1	33.2	South net
10/23/2017	<i>Chelonia mydas</i>	41	MMA594	49.9	50.4	53.1	45.4	39.3	39.7	14.5	North net
10/23/2017	<i>Chelonia mydas</i>	42	MML483/MML484	52.9	54.0	57.7	50.9	41.9	45.0	18.8	South net
10/23/2017	<i>Chelonia mydas</i>		MMX043/MMX044	60.9	61.3	64.7	57.2	48.6	52.2	29.8	North net
10/23/2017	<i>Chelonia mydas</i>		MMX045/MMX046	78.6	79.1	84.9	78.7	62.1	65.7	68.3	South net
10/23/2017	<i>Caretta caretta</i>		MMX047/MMX048	68.5	69.9	76.1	70.4	55.7	59.0	47.0	North net
10/23/2017	<i>Chelonia mydas</i>		MMX049/MMX050	51.8	53.6	55.3	45.9	39.7	43.0	18.5	South net
10/23/2017	<i>Chelonia mydas</i>		MMX051/MMX052	30.2	30.5	32.0	27.6	24.7	24.7	3.6	South net
10/24/2017	<i>Chelonia mydas</i>		MMX053/MMX055	75.0	75.8	80.4	72.1	60.4	62.6	60.4	South net
10/24/2017	<i>Caretta caretta</i>		MMX056/MMX057	63.6	65.1	71.2	69.5	54.3	52.7	42.4	South net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPLE (cm)	Weight (kg)	Method
10/25/2017	<i>Chelonia mydas</i>		MMX058/MMX059	58.9	59.6	64.0	56.5	48.9	49.0	29.6	North net
10/25/2017	<i>Chelonia mydas</i>	43	MMX060/MMX061	45.2	45.4	48.8	43.5	36.6	38.1	12.0	North net
10/25/2017	<i>Chelonia mydas</i>	44	MMX062/MMX063	63.6	67.0	67.9	59.3	50.4	52.4	32.0	South net
10/25/2017	<i>Caretta caretta</i>		MMX064/MMX065	66.2	67.1	71.3	67.7	55.3	52.8	45.0	North net
10/26/2017	<i>Chelonia mydas</i>	45	4A6B646A72	54.5	54.7	59.1	54.1	43.2	47.1	21.9	South net
10/26/2017	<i>Chelonia mydas</i>		982000402170385	27.4	27.7	28.8	25.3	22.9	22.7	2.8	North net
10/26/2017	<i>Chelonia mydas</i>	46	982000402171983	27.4	27.9	28.6	24.4	22.5	23.3	2.8	Between barrier nets
10/26/2017	<i>Chelonia mydas</i>	47	BBR500/MMX066	44.8	45.1	47.5	41.5	34.7	36.4	11.5	North net
10/27/2017	<i>Caretta caretta</i>		MMX067/MMX068	74.3	76.5	80.2	79.0	61.7	57.0	63.9	North net
10/27/2017	<i>Caretta caretta</i>		MMX069/MMX070	68.9	70.0	75.2	71.7	58.9	56.3	49.3	North net
10/27/2017	<i>Chelonia mydas</i>		MMX071/MMX072	63.1	63.7	65.6	57.6	50.6	53.6	34.0	South net
10/27/2017	<i>Caretta caretta</i>		MMX073/MMX074	53.3	54.5	58.4	55.9	48.0	43.5	24.4	South net
10/28/2017	<i>Chelonia mydas</i>		MMX075/MMX076	79.8	80.4	85.5	78.8	61.8	67.2	70.8	North net
10/29/2017	<i>Caretta caretta</i>		MMX077/MMX078	58.4	59.5	63.8	62.8	49.2	46.7	32.6	North net
10/31/2017	<i>Chelonia mydas</i>		MMX079/MMX080	72.6	73.0	78.2	68.1	56.8	58.2	50.0	South net
10/31/2017	<i>Chelonia mydas</i>		MMX081/MMX082	61.2	61.4	65.5	61.2	53.0	49.5	29.8	South net

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/30/08, 11/7/11, 5/20/12, 8/9/12, 12/2/13, 1/31/14, 10/24/14, 3/11/15, 7/11/15, 2/5/16, and 10/1/17.
2. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/6/08, 12/6/11, 4/12/13, 7/16/13, 1/24/16, 6/1/17, and 10/2/17.
3. REHAB (CAUSAL MORTALITY). Stranding# JRG171003-01. Juvenile green turtle retrieved from the power plant intake wells in poor condition. Turtle was unresponsive and bleeding from its mouth. Died during transport to rehab. A necropsy was performed by Dr. Nancy Mettee, DVM. The findings were consistent with a causal mortality.
4. Adult female. Tail length = 260 mm.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/18/11, 4/26/12, 7/7/12, 1/30/13, 5/13/13, 11/14/13, 12/16/13, 7/15/14, 9/12/14, 1/23/15, 3/12/15, 4/14/15, 7/16/15, 12/15/15, 2/21/16, 12/1/16, and 10/4/17.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/6/14, 3/2/15, 6/2/16, and 10/4/17.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/19/09, 3/8/10, 5/30/12, 3/31/13, 1/29/14, 9/5/14, 2/25/15, 7/9/15, 2/11/16, and 10/6/17.
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/12/13, 7/19/15, and 10/6/17. Partially healed hooking wounds in both front shoulders.
9. PAPILLOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 7). Single Flipper tag placed in left front flipper. Papilloma near tag site in right front flipper.
10. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/30/89, 9/6/90, 10/11/90, 10/15/90, 2/23/91, 8/10/92, 8/27/92, 9/21/92, 1/6/93, 6/8/93, 12/29/93, 3/22/94, 10/31/94, 3/17/95, 4/20/95, 2/7/96, 4/7/96, 7/11/96, 7/23/96, 7/29/96, 9/22/96, 10/9/96, 6/13/97, 5/15/98, 4/15/00, 6/13/00, 9/8/00, 11/19/00, 11/15/01, 9/16/02, 4/30/03, 11/24/03, 3/31/04, 9/15/04, 10/25/04, 8/10/05, 8/16/06, 4/30/08, 9/26/08, 8/19/09, 12/28/12, 4/17/13, 9/2/14, and 10/7/17. Adult male. Tail length = 437 mm. Sex determination made from tail length.
11. Adult female. Tail length = 305 mm.
12. Turtle removed from the intake wells in good condition. Released after health assessment and workup.
13. REHAB (CAUSAL). Stranding# RCW171007-01. Juvenile green removed from intake wells with causal injury from travelling screens/rakes (3 cm x 6 cm puncture in right anterior carapace). Unable to get ventral measurements due to injury. Inwater Research Group (IRG) personnel transported the turtle partway to the Loggerhead Marinelifelife Center.
14. DEAD (CAUSAL MORTALITY). Stranding# RCW171007-02. Turtle removed from the intake wells. Fresh dead juvenile green with four impact wounds in carapace from travelling screens/rakes. Necropsy performed by Dr. Nancy Mettee, DVM (causality confirmed).
15. REHAB (NON-CAUSAL). Stranding# CRM171008-02. Emaciated & lethargic subadult loggerhead found atop barrier net in morning. Healed wound in left side of carapace. Brevard Zoo personnel transported the turtle to rehab. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/24/07, 1/1/17.
16. REHAB (NON-CAUSAL). Stranding# CRM171008-01. Emaciated, lethargic, and heavy epibiont load. Brevard Zoo personnel transported the turtle to rehab. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/27/17.
17. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/4/08, 8/18/09, 9/15/09, 6/20/12, 10/3/12, 12/6/12, 3/22/13, 7/11/13, 9/3/14, 12/29/14, 1/14/16, 4/26/16, 6/17/17, and 10/10/17. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 3). Papilloma tumor in left front flipper tag scar. Recent hooking wound in left side of jaw.
18. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/29/09, 7/24/09, 11/18/11, 4/11/13, 2/9/15, 7/2/15, 10/30/16, 9/21/17, and 10/11/17. Turtle missing 90% of right rear flipper (healed).
19. PAPILLOMAS (Balazs Tumor Score = 3 {heavy}, Total Tumor Score = 40). Turtle very active; can see

and move well.

20. Adult female. Tail length = 150 mm.
21. Adult female. Tail length = 262 mm. Turtle missing 85% of right front flipper (healing).
22. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/13/04, 4/11/08, 5/5/08, 9/25/08, 10/12/08, 7/12/10, 12/6/10, 9/10/11, 11/1/11, 1/9/12, 5/10/13, 9/5/13, 4/10/17, and 10/15/17. Multiple tag scars in both front flippers (no new Inconel tags inserted).
23. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/9/15, and 10/15/17. New Inconel tags inserted on this capture event.
24. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/17/16, 9/21/16, 1/7/17, and 10/16/17.
25. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/19/08, 6/28/13, 5/25/14, 2/12/16, 6/1/17, 9/19/07, and 10/16/17.
26. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/5/15, and 10/17/17.
27. Turtle removed from the intake wells in good condition. Released after health assessment and workup.
28. Adult female. Tail length = 280 mm.
29. PAPILOMAS (Balazs Tumor Score = 3 {heavy}, Total Tumor Score = 15).
30. REHAB (NON-CAUSAL). Stranding# RCW171018-01. Recent shark attack injuries. Turtle missing 90% of left front flipper (bone exposed). Numerous carapace and soft tissue injuries. IRG transported the turtle partway to the Loggerhead Marinelife Center, Juno Beach for rehabilitation.
31. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/22/13, 1/25/14, 12/3/15, 2/28/16, 8/6/16, and 10/19/17. Hooking wound in right axilla region.
32. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 11). Very active and good body condition with only small tumors. Deep moderate fresh scrape above right eye.
33. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/16/10, 6/22/14, 8/29/14, 9/28/14, 3/2/15, 7/6/16, 10/21/17. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 4).
34. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/5/08, 5/10/11, 6/13/11, 7/25/11, 7/7/12, 2/5/13, 3/20/13, 5/7/14, 1/3/15, 4/16/15, 6/15/15, 5/30/17, 7/24/17, and 10/21/17. Left nare enlarged due to an old healed injury.
35. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/2/12, 10/28/12, 3/17/15, 12/12/16, and 10/21/17. Possible old hooking wound in left corner of jaw.
36. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/28/10, 1/12/13, 12/22/14, 7/30/16, and 10/21/17.
37. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/10/12, 12/18/12, 3/29/13, 12/13/13, 9/7/14, 7/25/15, 2/23/16, 6/27/17, and 10/22/17.
38. Adult female. Tail length = 260 mm.
39. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 3/1/04, 11/3/04, 11/21/04, 7/8/05, 8/12/05, 9/13/05, 4/24/06, 9/29/06, 11/19/06, 12/4/06, 12/9/07, 2/10/08, 4/3/08, 9/14/08, 11/26/08, 12/18/08, 12/14/09, 1/11/10, 9/21/10, 7/25/11, 10/13/11, 7/12/12, 12/16/12, 8/19/13, 2/12/14, 1/4/16, 4/26/16, and 10/23/17. Turtle workup observed by Loggerhead Marinelife Center volunteers.
40. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/17/10, 10/8/13, 11/24/13, 4/9/15, 4/23/16, 2/1/17, and 10/23/17.
41. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/30/16, 9/17/16 1/7/17, and 10/23/17.
42. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/20/17, and 10/23/17. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 4).
43. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 1). One papilloma tumor mostly occluding right eye. Turtle missing right rear flipper (healed).
44. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/17/08, 11/26/11, 10/8/13, and 10/25/17. New Inconel tags inserted on this capture event.

45. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 2/6/06, 4/3/09, 7/28/09, 12/3/09, 2/11/10, 9/3/10, 5/18/11, 1/9/12, 10/31/12, 4/11/13, 7/29/13, 1/3/14, 7/7/14, 3/11/15, 3/1/16, 4/29/16, 6/8/17, and 10/26/17. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 6). Fibropapilloma tumors at both Inconel tag tear-out locations.
46. Turtle was dip netted between the primary 5-inch and 8-inch A-1-A barrier nets.
47. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/7/12, and 10/26/17.

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	
	Oct-17	Year to Date	Oct-17	Year to Date	Oct-17	Year to Date	Oct-17	Year to Date	Oct-17	Year to Date	Oct-17	Year to Date
Captures	34	222	77	146	0	1	0	0	0	0	111	369
Causal Mortalities	0	1	2	3	0	0	0	0	0	0	2	4
Non-Causal Mortalities	0	1	0	2	0	0	0	0	0	0	0	3
Causal Injuries Sent to Rehab	0	0	1	1	0	0	0	0	0	0	1	1
	2	13	3	3	0	0	0	0	0	0	5	16
Fresh Scrapes		Year to Date		Year to Date		Year to Date		Year to Date		Year to Date		Year to Date
None	7	27	13	23	0	0	0	0	0	0	20	50
Minor	26	185	60	113	0	1	0	0	0	0	86	299
Moderate	1	10	4	10	0	0	0	0	0	0	5	20
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with Mod/Sev Scrapes	2.9%	4.5%	5.2%	6.8%	N/A	0.0%	N/A	N/A	N/A	N/A	4.5%	5.4%

St Lucie Power Plant Causal Turtles		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	**2017	Injury / Mortality Totals by Species
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	**2017	
Loggerhead	Total Captures	623	484	419	227	420	260	295	302	232	302	275	274	316	222	4,651
	Injuries	0	1	*3	0	1	1	0	0	1	1	0	0	0	0	8
	Mortalities	1	0	*21	0	0	0	1	0	0	0	0	0	1	1	25
Green	Total Captures	286	428	267	101	299	161	444	217	127	197	134	181	159	146	3,147
	Injuries	0	3	7	0	2	2	1	0	0	0	0	0	0	0	16
	Mortalities	1	1	1	1	2	0	3	1	2	2	0	4	0	3	21
Leatherback	Total Captures	2	0	1	1	0	1	2	0	2	2	0	2	1	0	14
	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	1	3	3	0	2	0	7	0	0	0	2	7	6	0	31
	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	2	2	2	1	4	2	3	2	1	2	3	1	4	1	30
	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	5	32	1	5	3	5	1	3	3	0	4	1	5	70
Total Captures per Year		914	917	692	330	725	424	751	521	362	503	414	465	486	369	7,873

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

**2017 is a partial year.

