

From: Steve Weege <sweege@inwater.org>
Sent: Tuesday, November 15, 2022 8:47 AM
To: Koperski, Meghan
Cc: Eldridge, Jodie; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Eaton, Kristin; William Nurnberger; Audra Livergood - NOAA Federal; Cody Mott; Jguertin; Robert.Craven@fpl.com; Damon Hobson; Andrew.McHenry@fpl.com; Falkiewicz, Timothy
Subject: [External_Sender] October 2022 FPL Marine Turtle Removal Monthly Report
Attachments: October 2022 Marine Turtle Captures.pdf; Monthly Report Notes 2022.pdf; FPL St. Lucie Capture Summary 2022.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
October 2022**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for October 2022. This month we captured ten *Caretta caretta* and 18 *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.

Two turtles were recovered beyond the 5-inch primary barrier net this month. On October 10th, a small juvenile green turtle was removed from the power plant intake wells. This turtle was in good condition and was promptly released following a routine health assessment and workup (measurements and tags applied). Then, on October 14th, a second juvenile green turtle was found swimming just behind the 5-inch net. Inwater Research Group biologists were able to dip-net this turtle between the primary and secondary barrier nets later that same day.

The primary 5-inch barrier net encountered light-to-moderate amounts of algae in October. Following the discovery of two turtles beyond the primary barrier net, Underwater Engineering Services divers inspected the 5-inch net and no holes were found. Both turtles were smaller juvenile greens and likely made it past the primary barrier net during Hurricane Ian.

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 2022. 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
Sr. Environmental Specialist
Inwater Research Group, Inc.
4160 NE Hyline Dr.
Jensen Beach, FL 34957
sweege@inwater.org
(772) 349-7252

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Recipients:

"Eldridge, Jodie" <Jodie.Eldridge@nexteraenergy.com>
Tracking Status: None
"Marine Turtle Permits" <MTP@myfwc.com>
Tracking Status: None
"Michael Bresette" <mbresette@inwater.org>
Tracking Status: None
"EndangeredSpecies Resource" <EndangeredSpecies.Resource@nrc.gov>
Tracking Status: None
"SCO@dep.state.fl.us" <SCO@dep.state.fl.us>
Tracking Status: None
"Vince Munne" <Vince.Munne@fpl.com>
Tracking Status: None
"Eaton, Kristin" <Kristin.Eaton@fpl.com>
Tracking Status: None
"William Nurnberger" <William.Nurnberger@fpl.com>
Tracking Status: None
"Audra Livergood - NOAA Federal" <audra.livergood@noaa.gov>
Tracking Status: None
"Cody Mott" <cmott@inwater.org>
Tracking Status: None
"Jguertin" <jguertin@inwater.org>
Tracking Status: None
"Robert.Craven@fpl.com" <Robert.Craven@fpl.com>
Tracking Status: None
"Damon Hobson" <Damon.Hobson@fpl.com>
Tracking Status: None
"Andrew.McHenry@fpl.com" <Andrew.McHenry@fpl.com>
Tracking Status: None
"Falkiewicz, Timothy" <Timothy.Falkiewicz@fpl.com>
Tracking Status: None
"Koperski, Meghan" <Meghan.Koperski@myfwc.com>
Tracking Status: None

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FPL St. Lucie Capture Summary 2022.pdf		253347

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
OCTOBER 2022**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/1/2022	<i>Caretta caretta</i>		FFE782/FFE783	59.6	61.2	65.3	63.5	50.8	49.5	33.6	North net
10/4/2022	<i>Chelonia mydas</i>		IRG0430/IRG0431	28.2	28.6	29.9	25.5	22.8	24.1	2.9	Dip net
10/4/2022	<i>Chelonia mydas</i>		IRG0432/IRG0434	25.9	26.1	27.5	24.1	20.9	22.3	2.4	Dip net
10/5/2022	<i>Chelonia mydas</i>		IRG0435/IRG0436	25.2	25.6	26.2	23.5	20.1	20.8	1.9	Dip net
10/6/2022	<i>Chelonia mydas</i>	1	982000402163339	54.0	54.4	57.1	51.5	42.1	45.2	21.1	South net
10/6/2022	<i>Chelonia mydas</i>		FFE784/FFE785	31.5	32.0	34.0	28.5	25.2	26.8	4.1	Dip net
10/6/2022	<i>Chelonia mydas</i>		IRG0437/IRG0438	27.9	28.3	30.0	24.7	21.9	23.7	3.3	Dip net
10/10/2022	<i>Chelonia mydas</i>	2	IRG0439/IRG0440	26.0	26.3	27.8	24.7	21.4	22.3	2.6	Intake well
10/12/2022	<i>Caretta caretta</i>		FFE786/FFE787	74.2	75.6	81.5	74.5	58.0	57.3	57.4	South net
10/12/2022	<i>Chelonia mydas</i>		FFE788/FFE789	64.6	65.3	67.2	59.5	52.2	54.0	32.8	South net
10/12/2022	<i>Caretta caretta</i>		FFE790/FFE791	77.5	79.9	82.4	78.1	61.8	59.9	68.8	South net
10/13/2022	<i>Chelonia mydas</i>		IRG0441/IRG0442	28.6	29.2	30.8	25.7	23.3	23.6	3.2	South net
10/14/2022	<i>Chelonia mydas</i>		IRG0443/IRG0444	29.0	29.6	31.2	25.4	22.4	24.1	3.4	South net
10/14/2022	<i>Chelonia mydas</i>	3	IRG0445/IRG0446	28.1	28.5	29.7	25.7	23.4	23.4	3.2	Between barrier nets
10/15/2022	<i>Caretta caretta</i>	4	FFE792/FFE793	65.1	67.0	72.5	65.5	55.2	49.5	42.0	North net
10/16/2022	<i>Caretta caretta</i>	5	FFE751/FFE752	57.2	58.9	63.1	55.9	47.3	44.9	25.2	South net
10/16/2022	<i>Chelonia mydas</i>		IRG0447/IRG0448	27.9	28.2	29.5	25.1	23.0	24.3	3.0	Dip net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/16/2022	<i>Chelonia mydas</i>		IRG0449/IRG0451	29.7	29.9	31.5	26.5	22.7	24.0	3.4	Dip net
10/19/2022	<i>Chelonia mydas</i>	6	4A61073F34	76.8	77.3	81.5	72.2	57.1	61.4	55.1	South net
10/19/2022	<i>Chelonia mydas</i>		FFE794/FFE795	82.0	82.1	87.9	80.4	62.8	65.9	69.1	North net
10/21/2022	<i>Caretta caretta</i>		FFE796/FFE797	79.9	81.0	87.5	81.7	65.2	63.6	77.9	North net
10/22/2022	<i>Caretta caretta</i>	7	FFE439/FFE440	67.9	69.4	73.7	67.9	55.9	52.1	44.1	North net
10/22/2022	<i>Chelonia mydas</i>		IRG0452/IRG0453	29.3	29.9	31.5	28.5	24.8	24.0	3.2	Dip net
10/23/2022	<i>Caretta caretta</i>		FFE798/FFE799	66.8	68.4	73.6	73.7	57.7	52.7	48.5	North net
10/24/2022	<i>Chelonia mydas</i>		IRG0454/IRG0455	28.5	29.3	30.4	28.1	25.7	23.8	3.3	Hand capture
10/25/2022	<i>Caretta caretta</i>		FFE800/FFM000	55.2	57.3	62.5	58.9	49.2	44.9	29.1	North net
10/27/2022	<i>Chelonia mydas</i>	8	FFM001/FFM002	76.2	77.0	82.0	74.1	58.1	64.7	58.6	North net
10/29/2022	<i>Caretta caretta</i>		FFM003/FFM004	67.0	68.6	71.3	71.5	57.3	53.1	50.9	North net

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/19/18, 12/10/18, 3/31/19, 12/9/19, 1/7/20, 2/15/20, 5/5/20, 8/11/20, 10/25/20, 1/13/21, 4/22/21, 1/5/22, 3/17/22, 10/6/22. No new Inconel tag inserted due to multiple tag scars
2. Turtle recovered from intake wells alive and in good body condition. Turtle missing 60% of right rear flipper (healed). Turtle was released after routine health assessment and workup.
3. Turtle was dip-netted between the 5-inch and 8-inch barrier nets (swimming just behind the 5-inch net).
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/23/19, 12/15/19, 1/19/20, 7/24/20, 3/3/21, 6/8/21, 8/11/21, 10/19/21, 3/12/22, 8/11/22, 10/15/22.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/8/22 and 10/16/22.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/15/08, 3/23/10, 10/29/11, 12/27/11, 12/17/12, 1/22/14, 1/13/15, 5/5/16, 8/9/16, 7/26/17, 4/18/19, 12/4/21, 10/19/22. No new Inconel tags inserted due to multiple tag scars.
7. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/19/21, 5/23/22, 10/22/22. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 8).
8. PAPILOMAS (Balazs Tumor Score = 3 {heavy}, Total Tumor Score = 23).

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-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date
Captures	10	127	18	64	0	0	0	1	0	1	28	193
Causal Mortalities	0	0	0	0	0	0	0	0	0	1	0	1
Non-causal Mortalities	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
Sent to rehab	0	3	0	2	0	0	0	0	0	0	0	5
Fresh Scrapes	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date	Oct-22	Year to Date
None	1	19	4	12	0	0	0	0	0	0	5	31
Minor	9	101	14	52	0	0	0	0	0	1	23	154
Moderate	0	7	0	0	0	0	0	1	0	0	0	8
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	5.5%	0.0%	0.0%	N/A	N/A	N/A	100.0%	N/A	0.0%	0.0%	4.1%