

From: Steve Weege <sweege@inwater.org>
Sent: Tuesday, March 15, 2022 8:00 AM
To: Koperski, Meghan
Cc: Jodie_Gless@fpl.com; Ken_Frehafer@fpl.com; Marine Turtle Permits; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Eaton, Kristin; William Nurnberger; audra.livergood@noaa.gov; Sciscente, Richard; Seth.Duston@fpl.com; Cody Mott; Jguertin
Subject: [External_Sender] February 2022 FPL Marine Turtle Removal Monthly Report
Attachments: Monthly Report Notes 2022.pdf; February 2022 Marine Turtle Captures.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 February 2022

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for February 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. One sea turtle was sent for rehabilitation (non-causal) and there were no mortalities during the month of February. As with all sea turtle strandings at the Saint Lucie Plant, the Florida Fish and Wildlife Conservation Commission (FWC) was consulted and stranding forms were filed with the state through the Sea Turtle Stranding and Salvage Network.

One sea turtle was sent to rehab for non-causal injuries this month. On February 2nd, a juvenile green turtle was removed from the primary 5-inch barrier net with shark attack injuries. The turtle had open shark bite wounds in its right front flipper and anterior plastron. It was taken to the Gumbo Limbo Nature Center in Boca Raton for rehab. Because the injury/illness was unrelated to the power plant, this was classified as a non-causal stranding.

The primary 5-inch barrier net encountered moderate-to-severe amounts of algae throughout the month. Underwater Engineering Services, Inc. inspected the primary barrier net and removed accumulated algae and debris as needed. 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 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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From: Steve Weege

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Recipients:

"Jodie_Gless@fpl.com" <Jodie_Gless@fpl.com>
Tracking Status: None
"Ken_Frehafer@fpl.com" <Ken_Frehafer@fpl.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.gov" <audra.livergood@noaa.gov>
Tracking Status: None
"Sciscente, Richard" <Richard.Sciscente@fpl.com>
Tracking Status: None
"Seth.Duston@fpl.com" <Seth.Duston@fpl.com>
Tracking Status: None
"Cody Mott" <cmott@inwater.org>
Tracking Status: None
"Jguertin" <jguertin@inwater.org>
Tracking Status: None
"Koperski, Meghan" <Meghan.Koperski@myfwc.com>
Tracking Status: None

Post Office: mail.gmail.com

Files	Size	Date & Time
MESSAGE	2236	3/15/2022 8:02:17 AM
Monthly Report Notes 2022.pdf	185128	
February 2022 Marine Turtle Captures.pdf		258783
FPL St. Lucie Capture Summary 2022.pdf		252146

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NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/21/19, 3/14/21, and 2/1/22.
2. REHAB (NON-CAUSAL). Stranding# EMM210202-001. Juvenile green turtle removed from the primary 5-inch barrier net with shark attack injuries. Turtle had open shark bite wounds in right front flipper and plastron. Taken to Gumbo Limbo Nature Center, Boca Raton for rehab. Monel tags applied prior to rehab determination.
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 9/15/21, 10/31/21, 12/10/21, 1/21/22, and 2/7/22.
4. STRANGE TAG (Inconel Tag #HB8990 in RFF), whereabouts pending but likely UCF tag. Strange tag fell out during examination and was replaced. Two new Inconel tags inserted.
5. 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, 5/7/14, 1/4/16, 4/26/16, 10/23/17, 11/14/17, 4/6/18, 10/29/18, 10/22/19, 2/17/20, 10/9/20, 12/16/20, and 2/15/22.
6. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on from 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, 10/10/17, 1/29/18, 4/26/19, 5/13/20, 12/11/20, 1/23/21, and 2/15/22. 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 9/26/19, 11/16/21, and 2/15/22. One extra vertebral scute. New Inconel tag #FFE562 applied today.
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/11/18, 9/26/19, 12/1/19, 12/10/20, 2/15/22. New Inconel tag #FFE563 applied today.
9. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/5/19 and 2/21/22. New Inconel tags inserted on this capture event.

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

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

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/1/2022	<i>Chelonia mydas</i>		FFE538/FFE539	30.2	30.4	31.7	26.6	23.5	24.8	3.3	Barrier net
2/1/2022	<i>Chelonia mydas</i>		FFE540/FFE541	30.8	31.5	32.5	26.3	23.0	25.3	3.6	Barrier net
2/1/2022	<i>Chelonia mydas</i>		FFE542/FFE543	39.8	40.3	41.0	34.7	32.1	32.8	7.7	Barrier net
2/1/2022	<i>Chelonia mydas</i>		FFE544/FFE545	48.0	48.4	50.4	44.7	38.3	39.2	14.3	Barrier net
2/1/2022	<i>Chelonia mydas</i>		FFE546/FFE547	56.1	56.9	59.1	52.3	46.9	47.0	22.4	North net
2/1/2022	<i>Chelonia mydas</i>	1	KKY196/KKL0776	50.2	50.4	52.7	45.3	39.0	41.2	16.6	Dip net
2/2/2022	<i>Chelonia mydas</i>		FFE548/FFE549	60.7	61.2	62.5	54.1	47.7	49.8	25.5	North net
2/2/2022	<i>Chelonia mydas</i>	2	IRG0424/IRG0425	29.6	29.9	30.7	27.6	25.6	25.1	3.1	Barrier net
2/3/2022	<i>Caretta caretta</i>		FFE550/FFE551	63.6	65.2	67.4	64.5	57.7	52.5	44.5	North net
2/3/2022	<i>Chelonia mydas</i>		FFE552/FFE553	39.3	39.6	41.3	35.0	30.7	31.3	7.4	North net
2/6/2022	<i>Caretta caretta</i>		FFE554/FFE555	51.5	53.0	56.3	56.1	47.8	41.2	25.0	South net
2/7/2022	<i>Chelonia mydas</i>	3	FFE423/FFE424	40.2	40.7	41.9	35.7	31.8	32.4	7.7	North net
2/7/2022	<i>Caretta caretta</i>		FFE556/FFE557	58.2	58.5	63.5	57.1	49.9	45.7	29.2	North net
2/12/2022	<i>Caretta caretta</i>		FFE558/FFE559	61.7	62.7	65.8	66.4	53.3	49.9	36.1	North net
2/14/2022	<i>Chelonia mydas</i>	4	FFE560/FFE561/H B8990	44.1	44.5	46.6	38.8	32.7	35.9	9.9	North net
2/15/2022	<i>Chelonia mydas</i>	5	44577D0830	72.4	72.6	76.5	73.4	56.8	57.9	51.7	South net
2/15/2022	<i>Chelonia mydas</i>	6	4A5A473052	60.8	61.2	63.6	55.5	47.1	51.6	32.4	North net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/15/2022	<i>Chelonia mydas</i>	7	FFE562/KKL0842	45.5	45.7	47.5	40.3	35.4	36.8	10.7	North net
2/15/2022	<i>Chelonia mydas</i>	8	KKY095/FFE563	49.1	49.2	51.9	35.7	37.0	40.9	16.1	North net
2/19/2022	<i>Caretta caretta</i>		-/FFE564	67.9	68.8	72.4	68.0	57.1	53.2	43.7	Dip net
2/19/2022	<i>Chelonia mydas</i>		FFE565/FFE566	59.0	59.4	61.2	56.3	46.9	48.5	26.3	North net
2/20/2022	<i>Caretta caretta</i>		FFE567/FFE568	65.0	66.4	70.1	68.3	56.5	51.7	42.1	North net
2/21/2022	<i>Chelonia mydas</i>	9	FFE569/FFE570	56.6	56.6	58.9	51.4	43.6	46.6	22.7	South net
2/23/2022	<i>Caretta caretta</i>		FFE571/FFE572	57.4	58.8	62.6	58.1	49.2	45.7	31.8	North net
2/23/2022	<i>Caretta caretta</i>		FFE573/FFE574	64.5	66.3	69.3	67.8	55.2	51.0	41.6	South net
2/24/2022	<i>Caretta caretta</i>		FFE575/FFE576	69.4	71.7	76.5	70.7	58.4	54.6	41.8	South net
2/26/2022	<i>Caretta caretta</i>		FFE577/FFE578	64.2	66.6	69.6	64.9	53.8	51.5	39.9	South net
2/26/2022	<i>Chelonia mydas</i>		FFE579/FFE580	54.2	54.9	56.6	47.7	43.9	45.7	20.7	South net

	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	
	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date
Captures	10	18	18	27	0	0	0	0	0	0	28	45
Causal Mortalities	0	0	0	0	0	0	0	0	0	0	0	0
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	0	1	1	0	0	0	0	0	0	1	1
Fresh Scrapes	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date	Feb-22	Year to Date
None	3	4	3	3	0	0	0	0	0	0	6	7
Minor	7	14	15	24	0	0	0	0	0	0	22	38
Moderate	0	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	0.0%	0.0%	0.0%	0.0%	N/A	N/A	N/A	N/A	N/A	N/A	0.0%	0.0%