

From: Munne, Vince <Vince.Munne@fpl.com>
Sent: Tuesday, November 14, 2023 2:53 PM
To: SCO@dep.state.fl.us
Cc: Koperski, Meghan; audra.livergood@noaa.gov; Briana Arlene
Subject: [External_Sender] FW: PSL Monthly Turtle Report for October 2023
Attachments: Monthly Turtle Report for October 2023.pdf

From: Munne, Vince
Sent: Tuesday, November 14, 2023 2:51 PM
To: SCO@dep.state.fl.us
Subject: PSL Monthly Turtle Report for October 2023

Ann
Please see attached PSL Monthly Turtle Report for October 2023.
Thank, Vince

Hearing Identifier: NRR_DRMA
Email Number: 2362

Mail Envelope Properties (BN8PR03MB493125CEC9356C1BB2FE3E42EBB2A)

Subject: [External_Sender] FW PSL Monthly Turtle Report for October 2023
Sent Date: 11/14/2023 2:52:47 PM
Received Date: 11/14/2023 2:53:18 PM
From: Munne, Vince

Created By: Vince.Munne@fpl.com

Recipients:

"Koperski, Meghan" <meghan.koperski@myFWC.com>
Tracking Status: None
"audra.livergood@noaa.gov" <audra.livergood@noaa.gov>
Tracking Status: None
"Briana Arlene" <briana.arlene@nrc.gov>
Tracking Status: None
"SCO@dep.state.fl.us" <SCO@dep.state.fl.us>
Tracking Status: None

Post Office: BN8PR03MB4931.namprd03.prod.outlook.com

Files	Size	Date & Time
MESSAGE	231	11/14/2023 2:53:18 PM
Monthly Turtle Report for October 2023.pdf		1756222

Options

Priority: Normal
Return Notification: No
Reply Requested: No
Sensitivity: Normal
Expiration Date:



November 14, 2023

Ms. Meghan Koperski
FWC Imperiled Species Mgmt.
Tequesta Field Office
19100 SE Federal Highway
Tequesta, Florida 33469

RE: ST. LUCIE POWER PLANT
CONDITION IX.C.1, MARINE TURTLE AUTHORIZATION

Dear Ms. Koperski,

Enclosed please find the monthly summary of marine turtle removals for the St. Lucie Power Plant for the month of October 2023. These activities were performed under required by Site Certification Condition IX.C.1.

The enclosure includes:

- 1) Email to Meghan Koperski Regarding Marine Turtle Removal Monthly Summary
- 2) Capture Summary Table
- 3) Marine Turtle Removals
- 4) Capture Notes

If you should have any questions, please contact Anessia Michaels at (772) 349-7252.

Sincerely,

A handwritten signature in black ink, appearing to read 'V. Munné', is written over a light blue horizontal line.

Vince Munné
Land Utilization Supervisor
St. Lucie Plant

Enclosure: Monthly Summary of Marine Turtle Removals

cc: FDEP Siting Office

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

**Subject: Marine Turtle Removal Monthly Summary
October 2023**

Attached, please find the monthly summary of marine turtle removals for October 2023. This month we captured 20 *Caretta caretta* and 37 *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 recorded this month. As with all sea turtle strandings at the St. 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 October 23rd, a sub-adult loggerhead was encountered with a 10 x 4 cm wound and a 5 cm wound with bone tissue exposed. This turtle was taken to the Loggerhead Marinelife Center in Juno Beach for rehab. Because these injuries were unrelated to the power plant, they were classified as non-causal strandings.

The primary 5-inch barrier net encountered negligible-to-light amounts of algae and negligible-to-severe amounts of jellyfish this past month. IRG 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 (UESI) divers inspected and cleaned the 5-inch barrier net 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 2023. 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,



Aaron Garstin
Environmental Specialist
Inwater Research Group, Inc.
4160 NE Hyline Dr.
Jensen Beach, FL 34957
agarstin@inwater.org
(201) 301-4563

MARINE TURTLE REMOVALS ST. LUCIE PLANT INTAKE CANAL

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
10/1/2023	<i>Chelonia mydas</i>	1	FFT436/FFT437	60.0	60.0	64.0	58.2	49.1	53.9	33.2	North net
10/2/2023	<i>Chelonia mydas</i>		FFT439/FFT438	32.1	32.6	34.0	28.1	25.9	26.8	4.3	South net
10/2/2023	<i>Chelonia mydas</i>		IRG0239/IRG0240	26.5	26.9	27.7	23.7	21.9	23.4	2.4	Dip net
10/2/2023	<i>Chelonia mydas</i>		FFT440/FFT441	50.8	51.9	55.7	47.3	38.1	41.9	16.1	North net
10/3/2023	<i>Chelonia mydas</i>		FFT442/FFT443	61.5	62.0	66.2	52.6	43.9	49.6	30.7	South net
10/4/2023	<i>Chelonia mydas</i>	2	/	33.8	33.9	35.3	30.4	27.3	28.5	4.8	South net
10/5/2023	<i>Chelonia mydas</i>	3	FFS033/FFS034	49.6	49.8	53.0	48.1	38.5	41.6	16.8	South net
10/5/2023	<i>Chelonia mydas</i>	4	FFT440/FFT441	50.8	51.6	55.9	47.4	38.1	42.0	16.0	South net
10/5/2023	<i>Chelonia mydas</i>		FFT444/FFT445	29.7	30.1	31.2	26.8	24.3	24.3	3.1	South net
10/5/2023	<i>Caretta caretta</i>	5	FFT446/FFT447	77.0	77.5	84.8	76.9	60.9	60.0	67.2	North net
10/5/2023	<i>Chelonia mydas</i>		FFT448/FFT449	63.5	63.9	69.5	60.2	49.7	52.5	32.9	South net
10/6/2023	<i>Chelonia mydas</i>	6	FFT410/FFT411	47.3	47.6	49.7	42.7	36.2	40.4	14.7	Dip net
10/6/2023	<i>Chelonia mydas</i>		FFT450/FFT451	32.6	32.8	34.0	30.0	26.9	27.5	4.7	Dip net
10/6/2023	<i>Chelonia mydas</i>		FFT452/FFT453	30.6	31.0	32.4	26.5	23.9	26.0	3.7	Dip net
10/6/2023	<i>Chelonia mydas</i>		FFT454/FFT455	40.7	40.7	43.2	39.4	34.1	33.8	9.3	Dip net
10/6/2023	<i>Chelonia mydas</i>		IRG0241/IRG0242	28.5	29.4	30.5	27.1	24.0	23.8	2.9	Dip net
10/6/2023	<i>Chelonia mydas</i>		IRG0243/IRG0244	26.9	27.1	28.2	22.3	20.6	22.2	2.4	Dip net
10/7/2023	<i>Chelonia mydas</i>		FFT456/FFT457	42.0	42.5	44.3	36.7	31.3	34.3	8.8	South net
10/7/2023	<i>Chelonia mydas</i>		FFT458/FFT459	44.3	44.6	46.4	40.2	34.6	36.3	10.9	Dip net
10/7/2023	<i>Chelonia mydas</i>		FFT460/FFT461	56.7	57.2	60.6	55.5	45.2	46.7	24.1	South net
10/7/2023	<i>Chelonia mydas</i>		IRG0246/IRG0247	26.7	27.4	28.9	24.9	23.2	23.0	2.6	Dip net
10/8/2023	<i>Caretta caretta</i>	7	FFE439/FFE440	68.0	69.6	73.0	67.7	54.1	51.6	44.4	North net
10/11/2023	<i>Chelonia mydas</i>		FFT462/FFT463	73.4	74.2	78.4	74.1	59.5	60.4	58.3	South net
10/11/2023	<i>Caretta caretta</i>		FFT464/FFT465	63.5	64.8	68.2	65.5	51.5	49.9	35.9	North net
10/12/2023	<i>Chelonia mydas</i>	8	FFE635/FFE636	44.9	45.6	47.5	40.9	34.1	36.9	12.2	North net
10/12/2023	<i>Chelonia mydas</i>	9	FFT334/FFT335	40.6	40.7	43.3	36.7	31.0	33.0	9.3	North net

10/13/2023	<i>Chelonia mydas</i>		FFT466/FFT468	50.1	50.7	53.0	45.2	38.1	39.9	16.3	South net
10/13/2023	<i>Chelonia mydas</i>		IRG0249/IRG0250	28.0	28.6	30.0	26.9	23.2	22.8	2.3	Dip net
10/14/2023	<i>Caretta caretta</i>	10	FFT282/	70.6	71.7	77.8	69.8	56.6	53.2	52.2	South net
10/15/2023	<i>Chelonia mydas</i>		/FFT470	32.1	32.3	34.2	29.6	26.1	26.5	4.4	Dip net
10/16/2023	<i>Chelonia mydas</i>		FFT471/FFT472	46.8	46.9	49.2	44.4	37.8	39.1	13.4	South net
10/16/2023	<i>Caretta caretta</i>	11	FFT473/FFT474	90.6	91.5	97.9	89.6	62.6	63.7	90.8	South net
10/16/2023	<i>Caretta caretta</i>		FFT475/FFT476	77.8	79.5	86.5	78.6	64.2	59.1	72.1	South net
10/17/2023	<i>Caretta caretta</i>		FFT477/FFT478	61.0	61.7	65.7	64.9	51.6	48.6	34.3	North net
10/17/2023	<i>Caretta caretta</i>		FFT479/FFT480	58.4	59.9	62.1	60.6	48.7	47.5	33.3	South net
10/17/2023	<i>Caretta caretta</i>		FFT481/FFT482	65.6	66.9	70.6	72.6	56.3	51.4	40.5	South net
10/18/2023	<i>Chelonia mydas</i>	12	/	69.4	69.5	74.6	65.1	53.0	56.1	45.6	South net
10/18/2023	<i>Chelonia mydas</i>	13	FFE635/FFE636	45.2	45.6	47.6	40.9	35.3	37.8	12.0	Dip net
10/18/2023	<i>Chelonia mydas</i>	14	FFM082/FFM083	51.5	52.2	54.7	51.3	41.1	43.0	19.5	South net
10/18/2023	<i>Chelonia mydas</i>	15	FFS145/	32.6	32.8	34.5	28.2	24.5	26.6	4.3	Dip net
10/18/2023	<i>Chelonia mydas</i>		FFT483/FFT484	30.5	30.7	31.8	25.9	24.6	25.8	3.4	Dip net
10/18/2023	<i>Caretta caretta</i>		FFT485/FFT486	72.2	73.8	79.5	74.0	57.9	57.1	64.7	South net
10/19/2023	<i>Caretta caretta</i>	16	FFT288/FFT289	77.7	79.3	85.2	72.3	59.2	61.1	62.1	South net
10/19/2023	<i>Caretta caretta</i>	17	FFT487/FFT488	83.4	86.2	92.1	80.7	64.1	65.5	88.3	South net
10/19/2023	<i>Caretta caretta</i>		FFT489/FFT490	65.2	67.0	71.1	65.2	51.4	52.4	41.1	South net
10/20/2023	<i>Caretta caretta</i>		FFT491/FFT492	71.3	71.6	77.5	71.1	56.6	56.6	47.2	South net
10/21/2023	<i>Chelonia mydas</i>		IRG0251/IRG0252	28.9	29.6	30.6	25.1	22.8	23.8	2.8	Dip net
10/21/2023	<i>Caretta caretta</i>		FFT493/FFT494	67.6	68.7	72.5	70.5	56.5	53.1	40.6	South net
10/23/2023	<i>Caretta caretta</i>	18	/	73.5	74.9	80.3	73.6	61.2	55.5	52.0	North net
10/23/2023	<i>Chelonia mydas</i>	19	FFE530/FFT495	69.9	70.3	75.8	68.6	54.6	54.7	45.1	North net
10/25/2023	<i>Caretta caretta</i>		FFT496/FFT497	65.7	66.4	71.1	68.1	54.3	52.7	43.0	South net
10/26/2023	<i>Chelonia mydas</i>	20	FFT440/FFT441	50.9	51.7	55.0	47.1	38.0	42.2	15.9	South net
10/26/2023	<i>Caretta caretta</i>		FFT498/FFT499	68.7	70.6	74.6	71.2	56.8	54.2	49.1	South net
10/28/2023	<i>Chelonia mydas</i>	21	/FFM431	54.1	54.1	57.6	52.7	41.9	44.5	20.8	South net
10/29/2023	<i>Caretta caretta</i>	22	/	82.4	83.2	89.0	79.1	63.7	64.3	86.2	South net

10/29/2023	<i>Caretta caretta</i>	23	FFE439/FFE440	67.9	69.8	72.6	67.4	54.9	51.9	42.2	South net
10/30/2023	<i>Chelonia mydas</i>		FFT500/FFT501	30.9	31.1	32.0	26.1	24.2	25.9	3.7	South net

NOTES

1. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 2). Healed notches on posterior carapace and distal RFF. Extra vertebral scute.

2. RECAPTURE, from: 1/31/22. Missing 20% LRF, healed. Extra vertebral and right costal scute. No new inconel tags applied due to tag scars.

3. RECAPTURE, from: 11/22/19, 5/6/23, 5/17/23.
4. RECAPTURE, from: 10/2/23. Kyphotic carapace. Missing 30% of LRF, healed. Healed notch on distal LFF.
5. RECAPTURE, from: 4/20/23, 8/18/13. New inconel tags applied to both FFs.
6. RECAPTURE, from 10/7/17, 9/30/22, 9/23/23. Large indentation in right anterior carapace from previous healed injury. Vomited jellyfish.
7. RECAPTURE, from: 10/19/21, 5/3/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23, 4/1/23, 4/27/23, 7/8/23, 9/7/23. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 5). LRF 10% missing, healed.
8. RECAPTURE, from 5/20/22, 11/13/22, 11/16/22. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 6). Paps at flipper tag sites. Pap on ventral base of RFF, bulbous and at injury site, healed.
9. RECAPTURE, from 6/16/22, 8/4/22, 8/31/23. Tags were both re-crimped.
10. RECAPTURE, from 8/11/23.
11. Adult male loggerhead. TL= 439 mm. Healed notch missing from LFF. Multiple healed propeller strikes on carapace.
12. 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, 7/3/18, 8/28/18, 4/18/19, 10/4/19, 11/30/20, 1/23/21, 12/12/22, 5/6/23, 5/15/23. Missing 10% RRF, healed. No new inconel tags due to multiple tag scars.
13. RECAPTURE, from 5/20/22, 11/13/22, 11/16/22, 10/12/23. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 5). Bulbous end at old injury site, healed.
14. RECAPTURE, from 12/13/20, 12/2/22, 2/7/23. Turtle missing 5% LFF.

15. RECAPTURE, from 5/17/23.
16. RECAPTURE, from 10/9/11, 1/8/12, 2/5/12, 5/24/12, 7/5/12, 4/3/13, 4/20/13, 8/31/13, 10/5/20, 8/12/23. Multiple tag scars in both front flippers.
17. Adult female loggerhead. TL= 175 mm. Flipper damage - missing (healing) 50% LFF, missing (healing) 40% RFF. Healing wounds on ventral side of LFF and LRF. Healing wound on dorsal side of RFF. Old shark rakings on plastron.
18. REHAB (NON-CAUSAL): STSSN#. Turtle transported to LMC for 10 x 4 cm healing wound and 5 cm with bone exposed and 5 cm open wound to plastron. No tags inserted due to transport to rehab. Healed notch in RFF. 25% RRF and 5% LRF missing, healed. CMCL: 79.3 cm OB.
19. RECAPTURE, from 2/15/15, 1/28/22. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 1). FFT495 newly applied to RFF.
20. RECAPTURE, from: 10/2/23, 10/5/23. Kyphotic carapace. Missing 30% of LRF, healed.
21. RECAPTURE, from 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, 12/22/22, 4/8/23, 6/2/23, 6/9/23. 5% missing healed LFF. 15% missing healed LRF. 30% missing healed RRF. Small healed notches on left pygal. No new metal tag applied to LFF due to extensive tag scarring.
22. RECAPTURE, from 8/4/02, 9/17/02, 11/5/02, 4/15/03, 7/1/03, 2/16/04, 4/11/05, 6/19/06, 9/16/06, 8/15/07, 8/7/08, 7/28/09, 11/9/09, 12/3/12, 12/2/13, 2/13/14. No new Inconel tags inserted due to tag scars.
23. RECAPTURE, from: 10/19/21, 5/3/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23, 4/1/23, 4/27/23, 7/8/23, 9/7/23, 10/8/23. PAPILOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 6). Healed wound on LRF.

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>Derموchelys coriacea</i>)		Kemp's ridley (<i>Lepidochelys kempii</i>)		Olive ridley (<i>Lepidochelys olivacea</i>)		Overall Totals	
	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date	Year to Date
Captures	20	342	37	405	0	1	0	2	0	4	0	1	57	755
Causal Mortalities	0	0	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	0	0
Causal Injuries	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Sent to rehab	1	8	0	7	0	0	0	0	0	0	0	0	1	15
Fresh Scrapes	Oct-23	Year to Date	Oct-23	Year to Date	Oct-23	Year to Date	Oct-23	Year to Date	Oct-23	Year to Date	Oct-23	Year to Date	Oct-23	Year to Date
None	1	17	0	26	0	1	0	0	0	0	0	0	1	44
Minor	19	313	37	358	0	0	0	2	0	4	0	1	56	678
Moderate	0	12	0	21	0	0	0	0	0	0	0	0	0	33
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	3.5%	0.0%	5.2%	NA	0.0%	NA	0.0%	NA	0.0%	NA	0.0%	0.0%	4.4%