From: Annessia Michaels <amichaels@inwater.org>

Sent: Friday, May 12, 2023 2:58 PM **To:** meghan.koperski@myfwc.com

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; Ryan Welsh

Subject: [External_Sender] April 2023 FPL Marine Turtle Removal Monthly Report Attachments: monthly report notes 2023.pdf; FPL St. Lucie Capture Summary 2023.pdf;

April 2023 Marine Turtle Captures.pdf; April '23 Sea Turtle Monthly

Report.pdf

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

Subject: Marine Turtle Removal Monthly Summary

April 2023

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for April 2023. This month we captured 24 *Caretta caretta*, 41 *Chelonia mydas*, and one *Dermochelys coriacea* in the intake canal of the St. Lucie power plant on Hutchinson Island. Four sea turtles were sent for rehabilitation (non-causal), and there were no mortalities in April. 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.

Four sea turtles were sent to rehab for non-causal injuries this month. On April 4th, a subadult loggerhead was found lethargic on the barrier net. It was missing 80% of its LFF and had healing wounds on the neck. On April 12th, a subadult loggerhead was found lethargic on the barrier net. It was debilitated and had an open wound on the margins of the carapace. On April 14th, a juvenile green turtle was captured in the tangle nets and found with a possible constriction wound almost entirely through the RFF. On April 23rd, a subadult loggerhead was captured in the tangle nets and had multifilament line wrapped around its front flippers, head, and neck. All four turtles were taken to the Loggerhead Marinelife Center in Juno Beach for rehab. Because these injuries/illnesses were unrelated to the power plant, they were classified as non-causal strandings.

The primary 5-inch barrier net encountered light amounts of algae in April. Furthermore, 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.

Annessia Michaels Inwater Research Group, Inc. 4160 NE Hyline Drive Jensen Beach, FL 34957 (724) 650-6051 Hearing Identifier: NRR_DRMA

Email Number: 2095

Mail Envelope Properties (CAMpxMM0LtZEN4dhA6w63wgxRy-r+J2gUHJwuSUTAzS7axgiMMQ)

Subject: [External_Sender] April 2023 FPL Marine Turtle Removal Monthly Report

 Sent Date:
 5/12/2023 2:58:20 PM

 Received Date:
 5/12/2023 2:58:56 PM

 From:
 Annessia Michaels

Created By: amichaels@inwater.org

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

"Ryan Welsh" <rwelsh@inwater.org>

Tracking Status: None

"meghan.koperski@myfwc.com" <meghan.koperski@myfwc.com>

Tracking Status: None

Post Office: mail.gmail.com

Files Size Date & Time

MESSAGE 2499 5/12/2023 2:58:56 PM

monthly report notes 2023.pdf 190291

FPL St. Lucie Capture Summary 2023.pdf 255904

April 2023 Marine Turtle Captures.pdf April '23 Sea Turtle Monthly Report.pdf 456589 287124

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

- 1. RECAPTURE, from 10/19/21, 5/23/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23. PAPILLOMAS (Balazs Tumor Score = 1 {light}. Total Tumor Score = 8). Healed notch on rear edge of carapace.
- 2. RECAPTURE, from 3/16/18, 6/1/18. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 2).
- 3. RECAPTURE, from 3/19/08, 6/28/13, 5/25/14, 2/12/16, 6/1/17, 9/19/17, 10/16/17, 1/21/18, 4/17/19, 2/17/20, 10/5/20, 11/20/20, 1/23/21. PAPILLOMAS (Balazs Tumor Score = 1 { light}, Total Tumor Score = 10).
- REHAB (NON-CAUSAL). STSSN# HWB20230404-001. Turtle was lethargic, found on barrier net by HSL.
 Transported to LMC. Turtle missing 80% LFF healed. Healing wounds on ventral side of neck. Healed notch on marginals. Curved min = 66.5 cm. No tags inserted.
- 5. RECAPTURE, from 2/7/23. Healed notches on LFF and LRF.
- 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. New inconel tag in RFF only, too many tag scars on LFF. Possible hooking wound healing on LFF axilla (ventral). Turtle missing 45% RRF and 25% LRF. healed.
- REHAB (NON-CAUSAL). STSSN# HWB20230412-001. Turtle was lethargic and debilitated, found on barrier net. Transported to LMC. No inconel tags inserted. 5.5x8.4 cm open healing wound on right marginals. Curved min: 65.6 cm.
- 8. RECAPTURE, from: 11/9/20.
- REHAB (NON-CAUSAL). STSSN# HWB20230414-001. Turtle has possible constriction wound 10x3.5 cm almost entirely through RFF. Transported to LMC. Curved min: 54.5 cm. RECAPTURE, from:4/27/18, 4/19/19, 6/3/19, 9/14/19, 10/8/19, 12/2/19, 1/3/20, 8/16/20, 1/23/21, 1/6/22, 12/14/22, 2/8/23, 2/19/23. No flipper tags inserted
- RECAPTURE, from 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
 Turtle missing 5% along marginals of left posterior carapace (healed), old shark bite wound.
- 11. RECAPTURE from 4/24/14,1/8/16,1/26/18,3/24/18, 8/26/18, 3/20/19. 5% missing LRF, healed.
- 12. Adult female leatherback. Estimated 650 lbs. SCL = 133.6cm.
- 13. Adult male green. TL = 455mm.
- 14. Adult male loggerhead. TL = 435mm.
- PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 6). No LFF tag due to PAPS tumor. Turtle
 missing pygals.
- 16. RECAPTURE, from: 2/2/19. Old healed constriction wound on RFF.
- 17. RECAPTURE, from: 5/7/11, 2/14/16.
- 18. Adult male loggerhead. TL = 507mm.
- 19. RECAPTURE, from: 11/11/18, 9/26/19, 12/1/19, 12/10/20, 2/15/22, 4/30/22, 1/26/23. Healed indentations on carapace.
- 20. Adult female loggerhead. TL = 255mm.
- 21. Adult male green. TL = 425mm.
- 22. Adult female loggerhead. TL = 254mm.
- 23. RECAPTURE, from 9/23/19, 8/20/22.
- 24. REHAB (NON-CAUSAL). STSSN#HWB230423-001 . Transported to LMC. Multifilament line entanglement to front flippers, head, and neck. Curved min: 84.0cm. Robust and active.
- RECAPTURE, from 1/15/20, 7/12/21. Small healed notch in marginals of right posterior carapace. RRF missing 5%, healed. Healing wound on head posterior to right eye. Tag malfunction (FFM483), no new inconel tag in LFF.
- 26. Adult female loggerhead. TL = 256mm.
- 27. Adult male green. TL = 452mm.
- 28. Adult female loggerhead. TL = 235mm.
- 29. Adult female loggerhead. TL = 203mm.
- 30. RECAPTURE, 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, 2/15/22, 4/18/22, 1/20/23.
- 31. RECAPTURE, from: 10/19/21, 5/3/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23, 4/1/23. PAPILLOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 12).
- 32. Adult male green. TL = 365mm.
- 33. RECAPTURE, from 4/21/18, 12/17/18, 4/3/19, 9/13/19, 9/26/19, 2/20/20, 8/12/20, 10/6/20, 2/15/21, 6/20/21,1/7/23. No new Inconel tags inserted due to multiple tag scars in both FF.Turtle missing 30% from terminal end of LRF (healed). Date incorrect on photo plate.
- 34. Adult female loggerhead. TL = 190mm.
- 35. RECAPTURE, from: 1/22/20. Healed notch on LRF. Left pygal missing, healed.

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			turtles Hawksbills			Leatherbacks		Kemp's ridley		Olive ridley			
	(Caretta caretta)		(Chelonia		(Eretmochelys		(Dermochelys		(Lepidochelys		(Lepidochelys			
	Carcita	· curciiu)	mydas)		imbricata)		coriacea)		kempii)		olivacea)		Overall Totals	
	Apr-23	Year to Date	Apr-23	Year to Date	Apr-23	Year to Date	Apr-23	Year to Date	Apr-23	Year to Date	Apr-23	Year to Date	Apr-23	Year to Date
Captures	24	35	41	112	0	0	Apr-23	1	0	2	0	1	66	151
Causal	24	33	71	112	U	0	1	1	U		U	1	00	131
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	0	0	0	0	0	0	0	0	0	0	0
Sent to														
rehab	3	3	1	2	0	0	0	0	0	0	0	0	4	5
Fresh		Year to		Year to		Year to		Year to		Year to		Year to		Year to
Scrapes	Apr-23	Date Date	Apr-23	Date	Apr-23	Date	Apr-23	Date	Apr-23	Date	Apr-23		Apr-23	Date
None	1	4	3	12	0	0	0	0	0	0	0	0	4	16
Minor	20	28	38	99	0	0	1	1	0	2	0	1	59	131
Moderate	3	3	0	1	0	0	0	0	0	0	0	0	3	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent				Ŭ	<u> </u>	, ,	<u> </u>	, ,		Ŭ		Ů	-	Ů
with														
mod/sev														
scrapes	12.5%	8.6%	0.0%	0.9%	#DIV/0!	#DIV/0!	0.0%	0.0%	#DIV/0!	0.0%	#DIV/0!	0.0%	4.5%	2.6%

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
4/1/2023	Caretta caretta	1	FFE439/FFE440	68.20	69.30	72.60	67.10	55.10	52.10	44.00	South net
4/2/2023	Chelonia mydas	2	FFM425/FFM426	47.20	48.10	51.60	47.20	39.50	39.20	15.10	South net
4/3/2023	Chelonia mydas	3	FFM427/FFM428	67.50	68.00	73.00	66.50	54.40	57.40	40.80	North net
4/3/2023	Chelonia mydas		IRG0634/IRG0635	27.20	28.00	29.30	26.00	23.30	23.10	2.90	Dip net
4/4/2023	Caretta caretta	4		62.80	63.40	67.00	65.50	52.00	48.50	36.10	Barrier net
4/5/2023	Chelonia mydas	5	FFM392/FFM393	56.00	56.30	60.20	54.60	43.40	46.70	23.10	North net
4/5/2023	Caretta caretta		FFM429/FFM430	59.20	60.40	64.70	59.10	48.30	46.00	30.90	South net
4/7/2023	Chelonia mydas		IRG0637/IRG0636	27.40	28.30	29.60	24.90	22.70	23.20	3.10	Dip net
4/8/2023	Chelonia mydas	6	/FFM431	53.90	53.90	56.20	52.10	42.10	44.30	21.60	South net
4/8/2023	Chelonia mydas		IRG0638/IRG0639	27.20	27.80	28.40	24.70	22.60	23.50	2.90	Dip net
4/12/2023	Caretta caretta	7		61.60	62.60	66.10	63.30	52.00	48.60	29.20	Barrier net
4/12/2023	Chelonia mydas		IRG0641/IRG0642	26.40	26.80	28.00	23.90	21.40	21.60	2.50	Hand capture
4/12/2023	Chelonia mydas		IRG0643/IRG0644	25.20	25.50	26.80	23.60	21.40	21.30	2.40	Dip net
4/13/2023	Chelonia mydas		IRG0645/IRG0646	28.80	29.40	30.90	27.20	24.10	24.90	3.00	Barrier net
4/13/2023	Chelonia mydas		IRG0647/IRG0648	23.10	23.80	25.00	21.30	19.20	19.70	2.00	Barrier net
4/14/2023	Chelonia mydas	9		52.50	52.70	55.00	48.00	40.70	41.30	16.40	South net
4/14/2023	Chelonia mydas		IRG0649/IRG0650	27.30	27.70	28.70	25.20	23.10	23.20	2.80	Dip net
4/14/2023	Chelonia mydas		IRG0651/IRG0652	28.10	28.30	29.20	25.20	23.00	23.80	3.10	South net
4/14/2023	Chelonia mydas		IRG0653/IRG0654	28.00	28.80	29.90	25.10	23.30	23.30	3.00	North net
4/14/2023	Chelonia mydas	8	KKY044/KKY045	46.30	46.90	48.50	41.50	36.60	38.90	12.80	North net
4/15/2023	Caretta caretta	10	FFE792/FFE793	65.20	67.40	72.10	63.80	54.70	49.80	41.60	North net
4/16/2023	Chelonia mydas		FFM432/FFM433	31.80	32.40	33.60	29.20	26.50	26.40	4.40	North net
4/16/2023	Chelonia mydas	11	FFM434/FFM435	67.30	67.50	70.40	62.90	51.90	56.30	45.30	North net
4/16/2023	Chelonia mydas Dermochelys		FFM436/FFM437	79.80	80.90	84.70	74.50	58.80	66.00	69.00	North net Hand
4/17/2023	coriacea	12	FFM438/FFM439		133.60	142.30	144.90	85.60			capture
4/18/2023	Chelonia mydas	15	/FFM452	56.30	56.80	58.30	52.20	44.50	46.20	22.50	South net
4/18/2023	Chelonia mydas	13	FFM440/FFM441	95.60	95.90	99.60	90.40	78.40	75.30	124.70	North net
4/18/2023	Chelonia mydas	16	FFM442/FFM443	53.30	53.40	55.40	50.90	43.10	41.90	20.50	North net
4/18/2023	Caretta caretta	14	FFM444/FFM445	84.10	86.30	90.10	76.80	62.60	59.10	78.50	North net
4/18/2023	Caretta caretta	17	FFM446/FFM447	79.60	80.10	83.50	76.80	60.10	59.40	69.60	South net
4/18/2023	Chelonia mydas		FFM448/FFM449	41.20	41.90	44.20	37.90	32.30	34.50	9.00	South net

4/18/2023	Chelonia mydas		FFM450/FFM451	34.50	34.50	36.00	30.50	27.00	28.80	5.80	North net
4/19/2023	Chelonia mydas	19	FFM380/FFM381	51.40	51.50	54.10	48.30	38.10	42.90	18.90	North net
4/19/2023	Caretta caretta	18	FFM453/FFM454	95.60	97.80	100.60	88.80	72.30	67.60	119.10	North net
4/19/2023	Chelonia mydas		FFM455/FFM456	40.10	40.10	42.30	37.00	31.20	32.80	8.50	North net
4/19/2023	Chelonia mydas		IRG0655/IRG0656	26.10	26.40	27.60	23.20	21.00	22.00	2.30	Hand capture
4/20/2023	Caretta caretta	20	FFM457/FFM458	94.20	96.50	103.70	93.70	74.60	72.80	136.70	North net
4/20/2023	Chelonia mydas		IRG0657/IRG0658	27.60	28.40	30.00	25.20	21.80	22.60	2.90	North net
4/21/2023	Caretta caretta	22	FFM459/FFM460	90.80	91.50	95.00	86.50	66.70	70.40	115.00	North net
4/21/2023	Chelonia mydas		FFM461/FFM462	59.80	60.40	63.60	55.70	46.00	51.10	29.20	South net
4/21/2023	Chelonia mydas		FFM463/FFM464	63.90	64.00	65.70	61.00	51.10	52.60	36.80	South net
4/21/2023	Caretta caretta		FFM465/FFM466	62.80	63.80	66.70	63.50	53.80	50.10	40.00	North net
4/21/2023	Chelonia mydas	21	FFM467/FFM468	94.50	95.30	98.00	88.00	72.80	73.60	110.70	North net
4/22/2023	Chelonia mydas	23	FFM469/FFM470	60.30	60.50	63.20	56.90	47.40	47.60	29.80	South net
4/23/2023	Caretta caretta	24		79.90	80.30	84.20	77.70	59.90	63.50	83.50	North net
4/23/2023	Caretta caretta		FFM471/FFM472	73.60	71.00	78.30	78.40	60.20	58.20	60.00	North net
4/23/2023	Caretta caretta		FFM473/FFM474	81.90	83.00	89.10	78.50	60.00	62.10	86.70	North net
4/23/2023	Caretta caretta		FFM475/FFM476	81.90	82.90	87.90	76.30	61.80	61.20	86.20	South net
4/23/2023	Caretta caretta		FFM477/FFM478	55.70	57.50	60.90	56.30	47.40	44.10	22.90	North net
4/24/2023	Caretta caretta	25	/FFM484	67.20	68.40	73.50	64.40	54.70	51.10	44.50	South net
4/24/2023	Chelonia mydas		FFM479/FFM480	30.10	30.20	31.20	26.90	24.10	24.00	3.40	Dip net
4/24/2023	Caretta caretta		FFM481/FFM482	80.10	81.50	83.70	78.20	60.90	59.90	72.70	North net
4/25/2023	Caretta caretta	28	FFM485/FFM486	92.00	92.60	95.80	90.10	71.20	72.80	126.70	North net
4/25/2023	Caretta caretta	26	FFM487/FFM488	93.80	94.40	98.10	86.90	66.70	73.50	126.70	South net
4/25/2023	Chelonia mydas	27	FFM489/FFM490	91.60	91.60	95.60	92.10	73.70	69.70	107.10	North net
4/27/2023	Chelonia mydas	30		61.80	62.30	65.40	57.50	48.20	52.60	34.40	South net
4/27/2023	Caretta caretta	31	FFE439/FFE440	67.60	69.50	72.70	67.00	54.60	51.90	44.50	South net
4/27/2023	Caretta caretta		FFM491/FFM492	62.40	63.90	68.20	63.90	55.10	49.70	38.10	North net
4/27/2023	Caretta caretta	29	FFM493/FFM494	84.30	85.90	90.90	80.90	60.80	65.60	85.30	North net
4/28/2023	Chelonia mydas		IRG0659/IRG0661	25.30	25.90	27.00	23.90	21.70	21.00	2.40	Dip net
4/29/2023	Chelonia mydas	33		53.30	53.70	57.20	48.70	39.60	43.00	19.30	North net
4/29/2023	Chelonia mydas	32	FFM495/FFM496	92.90	93.00	95.90	89.20	73.70	73.20	99.70	North net
4/29/2023	Chelonia mydas		FFM497/FFM498	29.40	30.10	30.50	25.70	22.90	25.00	3.30	Dip net
4/30/2023	Chelonia mydas		FFM499/FFM500	50.50	50.80	52.50	48.20	41.80	41.40	17.10	Dip net
4/30/2023	Caretta caretta	34	FFS000/FFS001	85.80	88.20	90.20	82.60	65.50	63.80	87.30	North net
4/30/2023	Chelonia mydas	35	KKT061/KKT062	41.70	45.40	46.50	40.10	34.70	36.70	11.70	North net

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

Subject: Marine Turtle Removal Monthly Summary
April 2023

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for April 2023. This month we captured 24 *Caretta caretta*, 41 *Chelonia mydas*, and one *Dermochelys coriacea* in the intake canal of the St. Lucie power plant on Hutchinson Island. Four sea turtles were sent for rehabilitation (non-causal), and there were no mortalities in April. 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.

Four sea turtles were sent to rehab for non-causal injuries this month. On April 4th, a subadult loggerhead was found lethargic on the barrier net. It was missing 80% of its LFF and had healing wounds on the neck. On April 12th, a subadult loggerhead was found lethargic on the barrier net. It was debilitated and had an open wound on the margins of the carapace. On April 14th, a juvenile green turtle was captured in the tangle nets and found with a possible constriction wound almost entirely through the RFF. On April 23rd, a subadult loggerhead was captured in the tangle nets and had multifilament line wrapped around its front flippers, head, and neck. All four turtles were taken to the Loggerhead Marinelife Center in Juno Beach for rehab. Because these injuries/illnesses were unrelated to the power plant, they were classified as non-causal strandings.

The primary 5-inch barrier net encountered light amounts of algae in April. Furthermore, 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, Annessia

Annessia Michaels
Environmental Specialist
Inwater Research Group, Inc.
4160 NE Hyline Dr.
Jensen Beach, FL 34957

amichaels@inwater.org (772) 349-7252

anh. h

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
4/1/2023	Caretta caretta	1	FFE439/FFE440	68.20	69.30	72.60	67.10	55.10	52.10	44.00	South net
4/2/2023	Chelonia mydas	2	FFM425/FFM426	47.20	48.10	51.60	47.20	39.50	39.20	15.10	South net
4/3/2023	Chelonia mydas	3	FFM427/FFM428	67.50	68.00	73.00	66.50	54.40	57.40	40.80	North net
4/3/2023	Chelonia mydas		IRG0634/IRG0635	27.20	28.00	29.30	26.00	23.30	23.10	2.90	Dip net
4/4/2023	Caretta caretta	4		62.80	63.40	67.00	65.50	52.00	48.50	36.10	Barrier net
4/5/2023	Chelonia mydas	5	FFM392/FFM393	56.00	56.30	60.20	54.60	43.40	46.70	23.10	North net
4/5/2023	Caretta caretta		FFM429/FFM430	59.20	60.40	64.70	59.10	48.30	46.00	30.90	South net
4/7/2023	Chelonia mydas		IRG0637/IRG0636	27.40	28.30	29.60	24.90	22.70	23.20	3.10	Dip net
4/8/2023	Chelonia mydas	6	/FFM431	53.90	53.90	56.20	52.10	42.10	44.30	21.60	South net
4/8/2023	Chelonia mydas		IRG0638/IRG0639	27.20	27.80	28.40	24.70	22.60	23.50	2.90	Dip net
4/12/2023	Caretta caretta	7		61.60	62.60	66.10	63.30	52.00	48.60	29.20	Barrier net
4/12/2023	Chelonia mydas		IRG0641/IRG0642	26.40	26.80	28.00	23.90	21.40	21.60	2.50	Hand capture
4/12/2023	Chelonia mydas		IRG0643/IRG0644	25.20	25.50	26.80	23.60	21.40	21.30	2.40	Dip net
4/13/2023	Chelonia mydas		IRG0645/IRG0646	28.80	29.40	30.90	27.20	24.10	24.90	3.00	Barrier net
4/13/2023	Chelonia mydas		IRG0647/IRG0648	23.10	23.80	25.00	21.30	19.20	19.70	2.00	Barrier net
4/14/2023	Chelonia mydas	9		52.50	52.70	55.00	48.00	40.70	41.30	16.40	South net
4/14/2023	Chelonia mydas		IRG0649/IRG0650	27.30	27.70	28.70	25.20	23.10	23.20	2.80	Dip net
4/14/2023	Chelonia mydas		IRG0651/IRG0652	28.10	28.30	29.20	25.20	23.00	23.80	3.10	South net
4/14/2023	Chelonia mydas		IRG0653/IRG0654	28.00	28.80	29.90	25.10	23.30	23.30	3.00	North net
4/14/2023	Chelonia mydas	8	KKY044/KKY045	46.30	46.90	48.50	41.50	36.60	38.90	12.80	North net
4/15/2023	Caretta caretta	10	FFE792/FFE793	65.20	67.40	72.10	63.80	54.70	49.80	41.60	North net
4/16/2023	Chelonia mydas		FFM432/FFM433	31.80	32.40	33.60	29.20	26.50	26.40	4.40	North net
4/16/2023	Chelonia mydas	11	FFM434/FFM435	67.30	67.50	70.40	62.90	51.90	56.30	45.30	North net
4/16/2023	Chelonia mydas Dermochelys		FFM436/FFM437	79.80	80.90	84.70	74.50	58.80	66.00	69.00	North net Hand
4/17/2023	coriacea	12	FFM438/FFM439		133.60	142.30	144.90	85.60			capture
4/18/2023	Chelonia mydas	15	/FFM452	56.30	56.80	58.30	52.20	44.50	46.20	22.50	South net
4/18/2023	Chelonia mydas	13	FFM440/FFM441	95.60	95.90	99.60	90.40	78.40	75.30	124.70	North net
4/18/2023	Chelonia mydas	16	FFM442/FFM443	53.30	53.40	55.40	50.90	43.10	41.90	20.50	North net
4/18/2023	Caretta caretta	14	FFM444/FFM445	84.10	86.30	90.10	76.80	62.60	59.10	78.50	North net
4/18/2023	Caretta caretta	17	FFM446/FFM447	79.60	80.10	83.50	76.80	60.10	59.40	69.60	South net
4/18/2023	Chelonia mydas		FFM448/FFM449	41.20	41.90	44.20	37.90	32.30	34.50	9.00	South net
4/18/2023	Chelonia mydas		FFM450/FFM451	34.50	34.50	36.00	30.50	27.00	28.80	5.80	North net

4/19/2023	Chelonia mydas	19	FFM380/FFM381	51.40	51.50	54.10	48.30	38.10	42.90	18.90	North net
4/19/2023	Caretta caretta	18	FFM453/FFM454	95.60	97.80	100.60	88.80	72.30	67.60	119.10	North net
4/19/2023	Chelonia mydas		FFM455/FFM456	40.10	40.10	42.30	37.00	31.20	32.80	8.50	North net Hand
4/19/2023	Chelonia mydas		IRG0655/IRG0656	26.10	26.40	27.60	23.20	21.00	22.00	2.30	capture
4/20/2023	Caretta caretta	20	FFM457/FFM458	94.20	96.50	103.70	93.70	74.60	72.80	136.70	North net
4/20/2023	Chelonia mydas		IRG0657/IRG0658	27.60	28.40	30.00	25.20	21.80	22.60	2.90	North net
4/21/2023	Caretta caretta	22	FFM459/FFM460	90.80	91.50	95.00	86.50	66.70	70.40	115.00	North net
4/21/2023	Chelonia mydas		FFM461/FFM462	59.80	60.40	63.60	55.70	46.00	51.10	29.20	South net
4/21/2023	Chelonia mydas		FFM463/FFM464	63.90	64.00	65.70	61.00	51.10	52.60	36.80	South net
4/21/2023	Caretta caretta		FFM465/FFM466	62.80	63.80	66.70	63.50	53.80	50.10	40.00	North net
4/21/2023	Chelonia mydas	21	FFM467/FFM468	94.50	95.30	98.00	88.00	72.80	73.60	110.70	North net
4/22/2023	Chelonia mydas	23	FFM469/FFM470	60.30	60.50	63.20	56.90	47.40	47.60	29.80	South net
4/23/2023	Caretta caretta	24		79.90	80.30	84.20	77.70	59.90	63.50	83.50	North net
4/23/2023	Caretta caretta		FFM471/FFM472	73.60	71.00	78.30	78.40	60.20	58.20	60.00	North net
4/23/2023	Caretta caretta		FFM473/FFM474	81.90	83.00	89.10	78.50	60.00	62.10	86.70	North net
4/23/2023	Caretta caretta		FFM475/FFM476	81.90	82.90	87.90	76.30	61.80	61.20	86.20	South net
4/23/2023	Caretta caretta		FFM477/FFM478	55.70	57.50	60.90	56.30	47.40	44.10	22.90	North net
4/24/2023	Caretta caretta	25	/FFM484	67.20	68.40	73.50	64.40	54.70	51.10	44.50	South net
4/24/2023	Chelonia mydas		FFM479/FFM480	30.10	30.20	31.20	26.90	24.10	24.00	3.40	Dip net
4/24/2023	Caretta caretta		FFM481/FFM482	80.10	81.50	83.70	78.20	60.90	59.90	72.70	North net
4/25/2023	Caretta caretta	28	FFM485/FFM486	92.00	92.60	95.80	90.10	71.20	72.80	126.70	North net
4/25/2023	Caretta caretta	26	FFM487/FFM488	93.80	94.40	98.10	86.90	66.70	73.50	126.70	South net
4/25/2023	Chelonia mydas	27	FFM489/FFM490	91.60	91.60	95.60	92.10	73.70	69.70	107.10	North net
4/27/2023	Chelonia mydas	30		61.80	62.30	65.40	57.50	48.20	52.60	34.40	South net
4/27/2023	Caretta caretta	31	FFE439/FFE440	67.60	69.50	72.70	67.00	54.60	51.90	44.50	South net
4/27/2023	Caretta caretta		FFM491/FFM492	62.40	63.90	68.20	63.90	55.10	49.70	38.10	North net
4/27/2023	Caretta caretta	29	FFM493/FFM494	84.30	85.90	90.90	80.90	60.80	65.60	85.30	North net
4/28/2023	Chelonia mydas		IRG0659/IRG0661	25.30	25.90	27.00	23.90	21.70	21.00	2.40	Dip net
4/29/2023	Chelonia mydas	33		53.30	53.70	57.20	48.70	39.60	43.00	19.30	North net
4/29/2023	Chelonia mydas	32	FFM495/FFM496	92.90	93.00	95.90	89.20	73.70	73.20	99.70	North net
4/29/2023	Chelonia mydas		FFM497/FFM498	29.40	30.10	30.50	25.70	22.90	25.00	3.30	Dip net
4/30/2023	Chelonia mydas		FFM499/FFM500	50.50	50.80	52.50	48.20	41.80	41.40	17.10	Dip net
4/30/2023	Caretta caretta	34	FFS000/FFS001	85.80	88.20	90.20	82.60	65.50	63.80	87.30	North net
4/30/2023	Chelonia mydas	35	KKT061/KKT062	41.70	45.40	46.50	40.10	34.70	36.70	11.70	North net

- 1. RECAPTURE, from 10/19/21, 5/23/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 8). Healed notch on rear edge of carapace.
- 2. RECAPTURE, from 3/16/18, 6/1/18. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 2).
- 3. RECAPTURE, from 3/19/08, 6/28/13, 5/25/14, 2/12/16, 6/1/17, 9/19/17, 10/16/17, 1/21/18, 4/17/19, 2/17/20, 10/5/20, 11/20/20, 1/23/21. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 10).
- 4. REHAB (NON-CAUSAL). STSSN# HWB20230404-001. Turtle was lethargic, found on barrier net by HSL. Transported to LMC. Turtle missing 80% LFF healed. Healing wounds on ventral side of neck. Healed notch on marginals. Curved min = 66.5 cm. No tags inserted.
- 5. RECAPTURE, from 2/7/23. Healed notches on LFF and LRF.
- 6. 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. New inconel tag in RFF only, too many tag scars on LFF. Possible hooking wound healing on LFF axilla (ventral). Turtle missing 45% RRF and 25% LRF, healed.
- 7. REHAB (NON-CAUSAL). STSSN# HWB20230412-001. Turtle was lethargic and debilitated, found on barrier net. Transported to LMC. No inconel tags inserted. 5.5x8.4 cm open healing wound on right marginals. Curved min: 65.6 cm.
- 8. RECAPTURE, from: 11/9/20.
- 9. REHAB (NON-CAUSAL). STSSN# HWB20230414-001. Turtle has possible constriction wound 10x3.5 cm almost entirely through RFF. Transported to LMC. Curved min: 54.5 cm. RECAPTURE, from:4/27/18, 4/19/19, 6/3/19, 9/14/19, 10/8/19, 12/2/19, 1/3/20, 8/16/20, 1/23/21, 1/6/22, 12/14/22, 2/8/23, 2/19/23. No flipper tags inserted.
- 10. RECAPTURE, from 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. Turtle missing 5% along marginals of left posterior carapace (healed), old shark bite wound.
- 11. RECAPTURE from 4/24/14,1/8/16,1/26/18,3/24/18, 8/26/18, 3/20/19. 5% missing LRF, healed.
- 12. Adult female leatherback. Estimated 650 lbs. SCL = 133.6cm.
- 13. Adult male green. TL = 455mm.
- 14. Adult male loggerhead. TL = 435mm.
- 15. PAPILLOMAS (Balazs Tumor Score = 1 {light}, Total Tumor Score = 6). No LFF tag due to PAPS tumor. Turtle missing pygals.
- 16. RECAPTURE, from: 2/2/19. Old healed constriction wound on RFF.
- 17. RECAPTURE, from: 5/7/11, 2/14/16.
- 18. Adult male loggerhead. TL = 507mm.
- 19. RECAPTURE, from: 11/11/18, 9/26/19, 12/1/19, 12/10/20, 2/15/22, 4/30/22, 1/26/23. Healed indentations on carapace.
- 20. Adult female loggerhead. TL = 255mm.

- 21. Adult male green. TL = 425mm.
- 22. Adult female loggerhead. TL = 254mm.
- 23. RECAPTURE, from 9/23/19, 8/20/22.
- 24. REHAB (NON-CAUSAL). STSSN#HWB230423-001 . Transported to LMC. Multifilament line entanglement to front flippers, head, and neck. Curved min: 84.0cm. Robust and active.
- 25. RECAPTURE, from 1/15/20, 7/12/21. Small healed notch in marginals of right posterior carapace. RRF missing 5%, healed. Healing wound on head posterior to right eye. Tag malfunction (FFM483), no new inconel tag in LFF.
- 26. Adult female loggerhead. TL = 256mm.
- 27. Adult male green. TL = 452mm.
- 28. Adult female loggerhead. TL = 235mm.
- 29. Adult female loggerhead. TL = 203mm.
- 30. RECAPTURE, 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, 2/15/22, 4/18/22, 1/20/23.
- 31. RECAPTURE, from: 10/19/21, 5/3/22, 10/22/22, 11/12/22, 1/15/23, 2/21/23, 4/1/23. PAPILLOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 12).
- 32. Adult male green. TL = 365mm.
- 33. RECAPTURE, from 4/21/18, 12/17/18, 4/3/19, 9/13/19, 9/26/19, 2/20/20, 8/12/20, 10/6/20, 2/15/21, 6/20/21,1/7/23. No new Inconel tags inserted due to multiple tag scars in both FF.Turtle missing 30% from terminal end of LRF (healed). Date incorrect on photo plate.
- 34. Adult female loggerhead. TL = 190mm.
- 35. RECAPTURE, from: 1/22/20. Healed notch on LRF. Left pygal missing, healed.

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		Loggerheads Green turtles		Hawk	ksbills	Leathe	Leatherbacks		Kemp's ridley		Olive ridley		
	(Caretta caretta)		(Chelonia mydas)		(Eretmochelys imbricata)		(Dermochelys coriacea)		(Lepidochelys kempii)		(Lepidochelys olivacea)		Overall Totals	
			Year					Year	, , , , , , , , , , , , , , , , , , ,	Year		Year		Year
	Apr-	Year	Apr-	to		Year to	Apr-	to		to		to	Apr-	to
	23	to Date	23	Date	Apr-23	Date	23	Date	Apr-23	Date	Apr-23	Date	23	Date
Captures	24	35	41	112	0	0	1	1	0	2	0	1	66	151
Causal														
Mortalitie														
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non- Causal														
Mortalitie														
S	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Causal		- U				- U				0	, o	0	<u> </u>	0
Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
•	· ·	U	•	0	0	U	•	0	V	0	· ·	0	· ·	0
Sent to rehab	3	3	1	2	0	0	0	0	0	0	0	0	4	5
Tellab		3	1		U	U	U		U		U		7	
F 1		₹7		Year		₹7 4		Year		Year		Year		Year
Fresh Scrapes	Apr- 23	Year to Date	Apr- 23	to	A mm 22	Year to Date	Apr- 23	to Date	Apr-23	to Data	Ann 22	to Date	Apr- 23	to Date
-			3	Date 12	Apr-23		0	0	•	Date	Apr-23			
None	1	4			0	0		1	0	0	0	0	4	16
Minor	20	28	38	99	0	0	1	1	0	2	0	1	59	131
Moderate	3	3	0	1	0	0	0	0	0	0	0	0	3	4
Severe	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent														
with														
mod/sev					#DIV/0	#DIV/0			#DIV/0		#DIV/0			
scrapes	12.5%	8.6%	0.0%	0.9%	!	!	0.0%	0.0%	!	0.0%	!	0.0%	4.5%	2.6%