

From: Steve Weege <sweege@inwater.org>
Sent: Friday, January 8, 2021 12:50 PM
To: Koperski, Meghan
Cc: Ed Hollowell; Jodie_Gless@fpl.com; Ken_Frehafer@fpl.com; MTP@myfwc.com; Michael Bresette; EndangeredSpecies Resource; SCO@dep.state.fl.us; Vince Munne; Cody Mott; Jeff Guertin; Ryan Welsh; Eaton, Kristin; Jonathon Gorham; William.Nurnberger@fpl.com; audra.livergood@noaa.gov; Sciscente, Richard; Seth.Duston@fpl.com
Subject: [External_Sender] December 2020 FPL Marine Turtle Removal Monthly Report
Attachments: December 2020 Marine Turtle Captures.pdf; Monthly Report Notes 2020.pdf; FPL St. Lucie Capture Summary 2020.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
December 2020**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for December 2020. This month we captured 11 *Caretta caretta* and 16 *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. One sea turtle was sent for rehabilitation and there were no mortalities recorded during the month of December. As with all sea turtle strandings at the Saint Lucie Plant, 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.

One sea turtle was sent to a rehabilitation facility for a non-causal injury this month. On December 15th, a juvenile green turtle was hand captured that had an old boat strike injury to its carapace. There was a deep 14 cm prop wound across the posterior carapace that opened into the body cavity. It also had limited mobility in both of its rear flippers. Ecological Associates, Inc. biologists transported the turtle to the rehab facility at the Brevard Zoo in Melbourne. Because this turtle was sent for rehabilitation for an injury or illness that was unrelated to the power plant, it was classified as non-causal.

The primary 5-inch barrier net encountered negligible amounts of algae throughout the month. On December 9th, Underwater Engineering Services performed the quarterly net inspections on the first two barrier nets (the 5-inch and 8-inch A-1-A); no holes were found during the quarterly net inspections. 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 2020. 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

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Files	Size	Date & Time
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December 2020 Marine Turtle Captures.pdf		257973
Monthly Report Notes 2020.pdf	188657	
FPL St. Lucie Capture Summary 2020.pdf		252536

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
DECEMBER 2020**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
12/2/2020	<i>Caretta caretta</i>	1	KKL0601/KKY090	74.5	75.7	81.2	75.9	58.7	55.8	50.8	South net
12/2/2020	<i>Caretta caretta</i>		KKY088/KKY089	72.2	74.1	78.8	73.7	59.7	56.2	52.8	South net
12/2/2020	<i>Chelonia mydas</i>	2	KKY091/KKY092	51.8	52.0	56.6	48.2	39.4	42.8	17.6	South net
12/7/2020	<i>Caretta caretta</i>		KKY093/KKY094	64.0	65.0	68.5	67.5	55.0	50.9	40.5	North net
12/10/2020	<i>Chelonia mydas</i>	3	KKG049/KKY095	44.7	44.8	46.7	41.2	33.7	37.1	11.4	South net
12/11/2020	<i>Chelonia mydas</i>	4	4A5A473052	56.6	56.7	60.0	52.0	43.5	48.2	26.6	South net
12/11/2020	<i>Caretta caretta</i>	5	KKY096/KKY097	85.0	87.0	91.5	85.0	71.4	63.0	102.7	North net
12/13/2020	<i>Caretta caretta</i>		KKY098/KKY099	68.0	68.9	72.3	71.1	55.0	54.0	47.5	South net
12/13/2020	<i>Chelonia mydas</i>		KKY100/KKY101	48.4	48.5	50.6	45.5	38.8	39.5	15.5	South net
12/14/2020	<i>Caretta caretta</i>	6	422E742232	77.2	78.0	80.0	74.9	59.8	55.1	66.9	Hand capture
12/14/2020	<i>Chelonia mydas</i>	7	KKL0897	62.7	63.1	67.1	62.5	50.0	50.8	35.9	Hand capture
12/14/2020	<i>Caretta caretta</i>		KKY102/KKY103	67.1	68.2	72.0	67.5	54.0	51.7	44.5	South net
12/14/2020	<i>Caretta caretta</i>		KKY104/KKY105	78.3	80.1	85.1	78.5	63.4	60.6	71.7	South net
12/14/2020	<i>Caretta caretta</i>		KKY106/KKY107	66.1	67.0	70.1	67.5	54.2	51.0	39.9	Hand capture
12/15/2020	<i>Chelonia mydas</i>	8	982000402169750	49.2	49.4	51.6	43.0	37.3	38.5	15.5	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCl (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
12/15/2020	<i>Chelonia mydas</i>	9	AMM201215-001	42.9	43.3	45.8	41.1	35.1	35.3	9.0	Hand capture
12/15/2020	<i>Chelonia mydas</i>	10	KKL0843/KKL0844	51.5	51.7	53.9	49.6	42.9	43.1	20.2	Hand capture
12/15/2020	<i>Chelonia mydas</i>		KKY108/KKY109	78.3	79.2	82.8	75.3	62.8	64.0	62.8	Hand capture
12/15/2020	<i>Chelonia mydas</i>		KKY110/KKY111	30.6	31.0	32.2	27.1	25.2	26.3	3.7	Hand capture
12/16/2020	<i>Chelonia mydas</i>	11	44577D0830	68.0	68.0	72.1	68.5	52.6	54.7	43.0	South net
12/19/2020	<i>Chelonia mydas</i>	12	4544120918	68.9	69.5	73.1	66.0	51.4	56.5	42.2	South net
12/28/2020	<i>Chelonia mydas</i>	13	KKL0886	59.0	59.2	63.1	57.3	47.2	46.2	26.2	North net
12/29/2020	<i>Chelonia mydas</i>		KKY112/KKY113	58.0	58.2	61.5	56.5	47.0	49.2	27.4	South net
12/30/2020	<i>Chelonia mydas</i>	14	KKT128	42.6	42.7	44.5	37.7	33.2	35.1	9.8	North net
12/30/2020	<i>Chelonia mydas</i>	15	KKT391/KKT391	60.9	61.2	63.2	57.2	46.5	51.1	32.0	North net
12/30/2020	<i>Caretta caretta</i>		KKY114/KKY115	65.7	66.7	69.9	65.6	52.6	51.5	37.6	North net
12/31/2020	<i>Caretta caretta</i>		KKY116/KKY117	73.8	74.9	78.4	74.3	61.7	57.1	61.2	North net

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/19/19 and 12/2/20.
2. PAPILOMAS (Balazs Tumor Score = 2 {moderate}, Total Tumor Score = 12). Paps were smooth (regressing).
3. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 11/11/18, 9/26/19, 12/1/19 and 12/10/20.
4. 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, 10/10/17, 1/29/18, 4/26/19, 5/13/20, and 12/11/20.
5. Adult female loggerhead. Tail length = 204 mm.
6. Adult male loggerhead. Tail length = 464 mm. 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, 10/7/17, 11/7/17, 1/16/18, 2/12/19, 7/10/20, and 12/14/20. Multiple tag scars on both front flippers - no new tags inserted. Sex determination based on tail length.
7. 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, 10/21/17, 11/20/17, 6/3/19, 10/15/19, and 12/14/20. No new Inconel tags applied - multiple tag scars. Moderate fresh scrape on left side of head.
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 1/10/18, 3/14/18, 9/5/19, and 12/15/20. No new Inconel tags inserted due to multiple tag scars.
9. REHAB (NON-CAUSAL). Stranding# AMM201215-001. Juvenile green turtle hand captured with old boat strike injury to carapace; deep 14cm prop wound across posterior carapace opens into the body cavity. Limited mobility in both rear flippers. Turtle transported to the Brevard Zoo for rehab by Ecological Associates.
10. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 8/12/18, 10/5/18, 12/17/18, 9/26/19, 10/22/19, 12/7/19, 1/4/20, 10/7/20, and 12/15/20.
11. 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, and 12/16/20.
12. 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, 10/15/17, 1/20/18, 4/24/19, and 12/19/20.
13. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 6/7/18, 10/8/19, 8/23/20, and 12/28/20.
14. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 4/19/18, 5/24/18, 11/5/18, 3/1/20, 7/27/20, 9/22/20, and 12/30/20.
15. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 7/25/11, 10/21/15, 12/28/15, 3/8/16, 2/2/17, 4/10/18, 4/13/19, 10/6/20, and 12/30/20.

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	
	Dec-20	Year to Date	Dec-20	Year to Date	Dec-20	Year to Date	Dec-20	Year to Date	Dec-20	Year to Date	Dec-20	Year to Date
Captures	11	176	16	155	0	0	0	1	0	7	27	339
Causal Mortalities	0	0	0	1	0	0	0	0	0	0	0	1
Noncausal Mortalities	0	1	0	4	0	0	0	0	0	0	0	5
Causal Injuries	0	0	0	1	0	0	0	0	0	0	0	1
Sent to rehab	0	13	1	4	0	0	0	0	0	3	1	20
Fresh Scrapes	Dec	Year to Date	Dec	Year to Date	Dec	Year to Date	Dec	Year to Date	Dec	Year to Date	Dec	Year to Date
None	0	19	2	22	0	0	0	0	0	3	2	44
Minor	11	150	13	129	0	0	0	0	0	4	24	283
Moderate	0	7	1	3	0	0	0	1	0	0	1	11
Severe	0	0	0	1	0	0	0	0	0	0	0	1
Percent with mod/sev scrapes	0.0%	4.0%	6.3%	2.6%	N/A	N/A	N/A	100.0%	N/A	0.0%	3.7%	3.5%