

NRR-PMDAPEm Resource

From: Stephen Weege [steveweege@yahoo.com]
Sent: Friday, March 01, 2013 8:21 AM
To: Meghan Koperski
Cc: Mike Bresette; Dave Clark; EndangeredSpecies Resource; Ken Frehafer; Jodie Gless; Ed Hollowell; MTP@MyFWC.com; Vince Munne; Dave Niebch; Shelley Norton; SCO@dep.state.fl.us
Subject: February 2013 FPL Marine Turtle Removal Monthly Report
Attachments: February 2013 Marine Turtle Captures.rtf; Monthly Report Notes 2013.pdf; FPL St Lucie Capture Summary 2013.pdf; Power Plant Causal Turtles.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
February 2013**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for February 2013. This month, we captured eight (8) *Caretta caretta* and eight (8) *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There was one sea turtle sent for rehabilitation in the month of February; there were no mortalities. Moving forward, a new Excel spreadsheet has been added to the monthly report that tracks all causal injuries and mortalities incurred by sea turtles at the Saint Lucie Plant since 2001.

On February 23rd, a juvenile green turtle was hand captured near the base of the temporary 5-inch barrier net by Inwater Research Group biologists. This turtle had entanglement-related injuries with fishing line wrapped around its head and front flippers. After consultation with the Florida Fish & Wildlife Conservation Commission, this incident was considered to be not causal to power plant operations. A volunteer from the Marinelife Center picked up the animal and transported it to their facility in Juno Beach for rehabilitation.

Throughout the month, the 5-inch barrier net experienced light loads of algae that entered into the intake canal system and jellyfish entrainment was negligible. Overall, the temporary barrier net has performed as designed and no turtles have been observed beyond the 5-inch net. To date, Florida Power & Light continues to work towards the installation of a permanent 5-inch barrier net.

The tag numbers and morphometric data for all turtles captured during the month have been included (see attachments/addendums). Also included is a spreadsheet for all captures, mortalities, injuries, and causal events delineated by species and by month for the year 2013. In addition, this spreadsheet also 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
MESSAGE	2332	3/1/2013 8:20:48 AM
February 2013 Marine Turtle Captures.rtf		72747
Monthly Report Notes 2013.pdf	60909	
FPL St Lucie Capture Summary 2013.pdf		110002
Power Plant Causal Turtles.pdf	118740	

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**MARINE TURTLE REMOVALS
ST. LUCIE PLANT INTAKE CANAL
FEBRUARY 2013**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/1/2013	<i>Caretta caretta</i>		EEA206/EEA207	67.8	69.8	74.5	71.1	58.4	52.6	49.9	South net
2/3/2013	<i>Chelonia mydas</i>	1	982000167792670	28.5	28.8	31.3	25.3	22.7	23.8	3.0	North net
2/5/2013	<i>Chelonia mydas</i>		EEA208/EEA209	34.2	34.6	36.7	31.5	28.1	28.2	5.5	Hand capture
2/5/2013	<i>Chelonia mydas</i>	2	EEA211/EEA212	47.7	47.9	51.5	47.1	38.7	39.6	15.8	Hand capture
2/5/2013	<i>Chelonia mydas</i>		EEA213/EEA214	53.0	53.3	56.5	50.2	43.6	45.6	20.4	Hand capture
2/6/2013	<i>Caretta caretta</i>		EEA215/EEA216	65.5	66.3	70.8	61.5	52.7	48.8	33.4	Hand capture
2/8/2013	<i>Caretta caretta</i>		EEA217/EEA218	61.9	64.0	68.4	63.6	51.3	50.8	37.3	Hand capture
2/11/2013	<i>Caretta caretta</i>		EEA219/EEA220	60.5	60.8	66.4	63.0	53.8	48.9	37.9	South net
2/17/2013	<i>Caretta caretta</i>	3	EEA221/EEA222	87.0	88.6	96.2	83.7	61.5	68.1	93.6	North net
2/17/2013	<i>Chelonia mydas</i>	4	EEA223/EEA224	53.3	53.5	58.1	50.6	41.0	43.5	20.8	South net
2/20/2013	<i>Caretta caretta</i>	5	EEA225/EEA226	108.7	109.0	117.4	104.2	80.9	76.5	174.9	South net
2/23/2013	<i>Chelonia mydas</i>	6	BBP244/BBP245	37.3	37.4	40.6	35.7	30.3	31.0	7.5	Hand capture
2/23/2013	<i>Caretta caretta</i>		EEA227	57.7	59.1	63.4	57.0	48.3	46.6	26.5	Hand capture
2/24/2013	<i>Chelonia mydas</i>		982000167799895	27.1	27.6	30.4	24.1	22.0	22.8	2.7	North net
2/27/2013	<i>Caretta caretta</i>		EEA228/EEA229	56.0	57.2	61.9	57.2	48.5	45.7	27.0	Dip net

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSSL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
2/28/2013	<i>Chelonia mydas</i>		EEA230/EEA231	39.3	39.6	42.3	36.3	31.8	33.4	6.9	North net

NOTES

1. PAPHILLOMAS (Tumor Score=24). Turtle is very active. Minor healed flipper damage present.
2. 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 and 2/5/13. New inconel tags inserted on this capture event.
3. Adult female. Tail length = 220 mm.
4. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 12/16/05, 7/15/06, 8/21/06, 10/10/07, 1/11/10, 10/20/11 and 2/17/13. New inconel tags inserted today.
5. Adult male. Tail length = 505 mm.
6. REHAB (NON-CAUSAL). RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/12/11, 4/29/12, 7/7/12, 10/20/12. Stranding# CRM130223-01. This turtle was hand captured on 2/23/13 by IRG biologists near the base of the temporary 5-inch barrier net. Animal had fishing line wrapped around head and front flippers. Picked up by Marinelife Center volunteer for transport to rehab in Juno Beach.

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</i>)		Hawksbills (<i>Eretmochelys</i>)		Leatherbacks (<i>Dermochelys</i>)		Kemp's ridley (<i>Lepidochelys</i>)		Overall Totals	
	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date
Captures	8	26	8	25	0	0	0	0	0	0	16	51
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-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date	Feb-13	Year to Date
None	2	2	0	3	0	0	0	0	0	0	2	5
Minor	6	24	8	19	0	0	0	0	0	0	14	43
Moderate	0	0	0	3	0	0	0	0	0	0	0	3
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	0.0%	0.0%	0.0%	12.0%	N/A	N/A	N/A	N/A	N/A	N/A	0.0%	5.9%

St Lucie Power Plant Causal Turtles		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	*2013	Injury / Mortality Totals by Species
Loggerhead	Total Captures	270	341	538	623	484	419	227	420	260	295	302	232	26	4,437
	Injuries	0	0	0	0	1	**3	0	1	1	0	0	1	0	7
	Mortalities	1	0	0	1	0	**21	0	0	0	1	0	0	0	24
Green	Total Captures	321	292	394	286	428	267	101	299	161	444	217	127	25	3,362
	Injuries	0	0	1	0	3	7	0	2	2	1	0	0	0	16
	Mortalities	4	2	1	1	1	1	1	2	0	3	1	2	0	19
Leatherback	Total Captures	2	0	4	2	0	1	1	0	1	2	0	2	0	15
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kemp's Ridley	Total Captures	1	0	2	1	3	3	0	2	0	7	0	0	0	19
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hawksbill	Total Captures	6	3	6	2	2	2	1	4	2	3	2	1	0	34
	Injuries	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Mortalities	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Injury / Mortality Yearly Totals		5	2	2	2	5	32	1	5	3	5	1	3	0	66
Total Captures per Year		600	636	944	914	917	692	330	725	424	751	521	362	51	7,867

*2013 is a partial year (last updated 2/28/13 at 3:18PM EST).

**The loggerhead causal injuries and mortalities in 2006 were all hatchlings.