

NRR-PMDAPEm Resource

From: Stephen Weege [steveweege@yahoo.com]
Sent: Saturday, September 01, 2012 11:26 AM
To: Meghan Koperski
Cc: Dave Niebch; Dave Clark; Ed Hollowell; Jodie Gless; Ken Frehafer; Mike Bresette; Shelley Norton; Vince Munne; EndangeredSpecies Resource; MTP@MyFWC.com; SCO@dep.state.fl.us
Subject: August 2012 FPL Marine Turtle Removal Monthly Report
Attachments: Monthly Report Notes 2012.pdf; August 2012 Marine Turtle Captures.pdf; FPL St Lucie Capture Summary 2012.pdf

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

**Subject: Marine Turtle Removal Monthly Summary
August 2012**

Dear Meghan,

Attached, please find the monthly summary of marine turtle removals for August 2012. This month, we captured nineteen (19) *Caretta caretta* and seven (7) *Chelonia mydas* in the intake canal of the St. Lucie power plant on Hutchinson Island. There were no mortalities or sea turtles sent for rehabilitation in August.

Throughout the month, the 5" barrier net experienced light to severe loads of debris that entered into the intake canal. The principle constituents of entrained debris were either jellyfish or algae. Jellyfish entrainment ranged from light to moderate in severity, whereas algae stretched the gamut from light to severe. Although typically categorized as light, there was one day when the algae was categorized as severe. Still, the temporary barrier net performed as designed and no turtles have been observed beyond the 5-inch net. To date, Florida Power & Light and Morgan & Eklund, Inc. continue to work together on the installation of a permanent 5-inch barrier net.

A planned 99-day power plant outage began in the second week of August. As a result, the flow rate in the intake canal has greatly diminished and the water level has risen significantly. Due to the combined effects of tidal action and outage conditions, a 20-foot portion of the 8-inch A-1-A net is now at the waterline. FPL has been apprised of the issue and is currently working on a solution.

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 2012. 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
MESSAGE	2252	9/1/2012 11:38:24 AM
Monthly Report Notes 2012.pdf	81406	
August 2012 Marine Turtle Captures.pdf		77894
FPL St Lucie Capture Summary 2012.pdf		113550

Options

Priority: Standard
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Monthly reports due by the 10th.

Notes should include the following:

Adults

Recaptures

Strange Tags

Tag Returns

Papillomas

Mortalities

Rehab Turtles

Hybrids (choose >)

NOTES

1. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/27/12 and 8/1/12.
2. Adult female. Tail length = 221 mm.
3. Adult female. Tail length = 210 mm.
4. Adult female. Tail length = 173 mm.
5. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 5/21/08, 11/17/11 and 8/9/12.
6. Adult female. Tail length = 185 mm. Turtle missing 100% of right rear flipper (healed).
7. PAPILOMAS (Tumor Score = 5). Minor tumors on rear flippers.
8. RECAPTURE. Turtle was removed from the intake canal, tagged and released at Hutchinson Island on 10/30/08, 11/7/11, 5/20/12 and 8/9/12. PAPILOMAS (Tumor Score = 1). One small tumor on right front flipper.

SMCL = Straight Minimum Carapace Length

SMCL = Straight Standard Carapace Length

CSCCL = 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
AUGUST 2012**

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/1/2012	<i>Caretta caretta</i>	1	BBR191/BBR192	64.7	65.4	68.5	66.0	57.8	50.3	40.3	Hand capture
8/1/2012	<i>Caretta caretta</i>	2	BBR351/BBR352	91.1	92.2	96.2	86.6	69.0	67.7	105.5	Hand capture
8/1/2012	<i>Caretta caretta</i>		BBR353/BBR354	80.8	82.7	87.7	79.8	61.2	64.8	86.9	Hand capture
8/1/2012	<i>Caretta caretta</i>		BBR355/BBR356	69.6	70.4	76.2	74.6	60.8	54.9	51.1	Hand capture
8/1/2012	<i>Caretta caretta</i>		BBR357/BBR358	63.7	65.1	70.4	70.2	53.8	50.1	43.3	Hand capture
8/1/2012	<i>Caretta caretta</i>		BBR359/BBR360	54.6	56.1	61.1	57.0	47.8	43.1	23.8	Hand capture
8/1/2012	<i>Caretta caretta</i>		BBR361/BBR362	63.6	64.7	70.3	66.2	65.4	51.2	39.0	Hand capture
8/3/2012	<i>Caretta caretta</i>		BBR363/BBR364	58.5	59.6	64.8	64.5	52.9	47.6	36.5	Hand capture
8/4/2012	<i>Caretta caretta</i>		BBR365/BBR366	66.0	67.5	70.5	71.0	56.5	52.0	43.0	Hand capture
8/4/2012	<i>Caretta caretta</i>		BBR367/BBR368	64.1	65.2	68.4	68.4	54.4	50.1	38.1	Hand capture
8/4/2012	<i>Caretta caretta</i>		BBR369/BBR370	61.5	63.9	66.1	62.2	53.2	48.4	34.7	Hand capture
8/7/2012	<i>Caretta caretta</i>	3	BBR371/BBR372	93.4	94.5	99.4	84.9	65.6	70.6	103.4	South net
8/7/2012	<i>Chelonia mydas</i>		BBR373/BBR374	40.3	40.6	43.7	34.8	30.4	33.3	8.2	South net
8/8/2012	<i>Caretta caretta</i>	4	BBR376/BBR377	86.3	86.9	93.5	84.2	61.9	65.9	79.8	South net
8/9/2012	<i>Chelonia mydas</i>	5	BBP382	38.5	38.6	39.5	33.4	30.6	31.6	7.0	Hand capture

Date	Species	Note	Tag #'s	SMCL (cm)	SSCL (cm)	CSCL (cm)	CMCW (cm)	SMCW (cm)	SMPL (cm)	Weight (kg)	Method
8/9/2012	<i>Caretta caretta</i>	6	BBR378/BBR379	85.5	86.3	92.0	86.0	69.1	65.7	85.0	Hand capture
8/9/2012	<i>Caretta caretta</i>		BBR380/BBR381	61.6	62.4	65.1	65.0	53.1	49.0	33.2	Hand capture
8/9/2012	<i>Caretta caretta</i>		BBR382/BBR383	72.4	74.1	80.0	76.6	60.6	56.6	62.0	Hand capture
8/9/2012	<i>Chelonia mydas</i>		BBR384/BBR385	73.6	74.0	77.6	66.1	55.6	58.5	48.1	Hand capture
8/9/2012	<i>Chelonia mydas</i>	7	BBR386/BBR387	54.8	54.9	57.0	49.8	43.7	45.7	20.9	Hand capture
8/9/2012	<i>Chelonia mydas</i>	8	YYR423	44.8	44.8	46.7	42.0	35.2	36.4	11.7	Hand capture
8/13/2012	<i>Caretta caretta</i>		BBR388/BBR389	66.2	66.9	71.9	68.6	55.6	51.8	42.3	South net
8/16/2012	<i>Chelonia mydas</i>		BBR390/BBR391	43.3	43.6	45.9	39.2	35.0	36.5	10.8	South net
8/24/2012	<i>Caretta caretta</i>		BBR392/BBR393	81.0	83.5	87.6	77.5	62.3	64.4	80.1	South net
8/25/2012	<i>Caretta caretta</i>		BBR394/BBR395	64.4	65.1	70.9	68.7	56.8	52.8	44.0	Hand capture
8/27/2012	<i>Chelonia mydas</i>		982000167840723	26.9	27.2	28.2	24.0	21.6	23.2	2.4	Dip 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	
	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date
Captures	19	171	7	48	0	1	0	2	0	0	26	222
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	1	0	0	0	0	0	0	0	0	0	1
Sent to rehab	0	6	0	0	0	0	0	0	0	0	0	6
Fresh Scrapes	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date	Aug-12	Year to Date
None	7	33	2	10	0	0	0	0	0	0	9	43
Minor	11	122	5	34	0	0	0	2	0	0	16	158
Moderate	1	16	0	4	0	1	0	0	0	0	1	21
Severe	0	0	0	0	0	0	0	0	0	0	0	0
Percent with mod/sev scrapes	5.3%	9.4%	0.0%	8.3%	N/A	100.0%	N/A	0.0%	N/A	N/A	3.8%	9.5%