

Oyster Creek Generating Station  
Route 9 South  
PO Box 388  
Forked River, NJ 08731

www.exeloncorp.com

10 CFR 50.2

July 14, 2010

RA-10-058

US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555-0001

Oyster Creek Nuclear Generating Station  
Renewed Facility Operating License No. DPR-16  
NRC Docket No. 50-219

Subject: Sea Turtle Incidental Take Reports 2010-1, 2010-2, and 2010-3

The attached reports provide detailed information regarding the recent incidental takes of a live sub-adult Loggerhead and two live juvenile Kemp's ridley sea turtles at Oyster Creek Nuclear Generating Station (OCNGS) on June 14, June 24, and June 26, 2010.

If you have any questions or require additional information, please do not hesitate to contact Malcolm Browne at (609) 971-4124.

Sincerely,



Peter M. Orphanos  
Plant Manager  
Oyster Creek Nuclear Generating Station

Enclosures:

Incidental Take Reports 2010-1, 2010-2, and 2010-3 with photographs  
MMSC Stranding Reports MMSC-10-122, MMSC-10-125, and MMSC-10-128

IE 23  
NR

cc: Julie Crocker  
U.S. Department of Commerce  
National Oceanic & Atmospheric Administration  
National Marine Fisheries Service Northeast Region  
Protected Resources Division  
One Blackburn Drive  
Gloucester, MA 01930

Pasquale Scida  
U.S. Department of Commerce  
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Jeanette Bowers-Altman  
NJ Department of Environmental Protection  
Division of Fish, Game, and Wildlife  
P.O. Box 400  
Trenton, NJ 08625-0400

Regulatory Assurance File No. 10058

	Incidental Take 2010-1	Incidental Take 2010-2	Incidental Take 2010-3
Observer's full name:	Joe Liquori	David Dye	Tony Hutain
Reporter's full name:	Andrew Zuchowski	Neva Fox	Jeremy Sharkey
Species Identification (Key attached):	Loggerhead	Kemp's ridley	Kemp's ridley
Site of Impingement (CWS or DWS):	DWS	DWS	CWS
Bay Number:	5	6	5
Date animal observed:	14-Jun-10	24-Jun-10	26-Jun-10
Time animal observed:	17:15	21:55	08:20
Date animal collected:	14-Jun-10	24-Jun-10	26-Jun-10
Time animal collected:	17:25	21:55	08:20
<b>CONDITIONS AT COLLECTION:</b>			
Tidal Stage:	Ebb Tide	Flood Tide	High Tide
Cloud conditions:	Overcast	Clear	Clear
Precipitation:	None	None	None
Intake water temperature:	77.2°F	80.4°F	78.0°F
Other conditions:	N/A	N/A	N/A
Number of CW pumps running:	4	4	4
Number of DW pumps running:	2	2	2
Reactor power level at observation:	100%	100%	100%
Reactor power previous 48-hours:	100%	100%	100%
Date of last screen inspection:	14-Jun-10	24-Jun-10	26-Jun-10
Time of last screen inspection:	17:00	20:20	04:25

	<b>Incidental Take 2010-1</b>	<b>Incidental Take 2010-2</b>	<b>Incidental Take 2010-3</b>
<b>MARINE MAMMAL STRANDING CENTER</b>			
Date Brigatine MMSC contacted:	14-Jun-10	24-Jun-10	26-Jun-10
Time Brigatine MMSC contacted:	17:35	22:05	08:25
Date Animal picked up by MMSC:	14-Jun-10	24-Jun-10	26-Jun-10
Time Animal picked up by MMSC:	19:15	23:30	11:00
State of animal when first observed (Dead or Alive):	Alive	Alive	Alive
State of animal when collected:	Active	Active	Good health with a scar on the shell, which appeared to be a boat prop strike or scrape
State of animal when picked up:	Several old and healing scrapes on the posterior of the carapace and plastron. Small amount of algal growth on the carapace.	Several small abrasions on plastron and carapace, small amount of scarring on flippers	Minor gouges on ridge of carapace that are old and healing
State of animal arriving at MMSC:	The turtle was active, swimming and diving normally, eating well, and passing waste.	The turtle was active, swimming and diving normally, eating well, and passing waste	The turtle was very active, swimming and diving normally.

	Incidental Take 2010-1	Incidental Take 2010-2	Incidental Take 2010-3
Final disposition of animal:	Tagged and released alive at the north end of Brigantine. Tagged RFF metal tag # SSL130 PIT tagged LFF # 4A4F39114A	Released on north end of Brigantine on 6/28/2010, Tagged LFF metal tag # SSL131 PIT tagged RFF # 4A4E665346	Tagged and released alive at the north end of Brigantine 6/28/10. Tagged RFF metal tag # SSL132 PIT tagged LFF # 497F611621
Carapace Length - Curved	not measured	26.5 cm	29 cm
Carapace Length - Straight	48.7 cm	25.5 cm	27.5 cm
Carapace Width - Curved:	not measured	26.5 cm	30 cm
Carapace Width - Straight:	42.1 cm	23.3 cm	26.6 cm
Weight - lbs	44.6 lbs	4.9 lbs	8.2 lbs
Existing Tag Number	no tag	no tag	no tag
Photograph attached	yes	yes	yes
Diagram of wounds, abnormalities, tag locations attached	Stranding Report MMSC-10-122 (enclosed w/ photograph)	Stranding Report MMSC-10-125 (enclosed w/photograph)	Stranding Report MMSC-10-128 (enclosed w/photograph)
Description of Animal	Sub-adult Loggerhead of indeterminate sex	Juvenile Kemp's ridley of indeterminate sex	Juvenile Kemp's ridley of indeterminate sex

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Bill M.I. M.J. Last Deerr

Affiliation Marine Mammal Stranding Center

Address: PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203

Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 10 Month 06 Day 14 <sup>MB</sup>

Turtle number by day 01 <sup>mmsc contacted</sup>

Field ID # MMSC-10-122

Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538

email  fax

**SPECIES: (check one)**

- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No

Photos taken?  Yes  No

Species verified by coordinator?

Yes  No

**SEX:**

Undetermined

Female  Male

Does tail extend beyond carapace?

Yes; how far?  cm /  in

No

How was sex determined?

Necropsy

Tail length (adult only)

**STRANDING LOCATION:**  Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)

State New Jersey County Ocean

Descriptive location (be specific) Forked River, Oyster Creek Nuclear Power Generating Station; impinged on intake grate

Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**FINAL DISPOSITION: (check)**

1 = Left on beach where found; painted?  Yes\*  No(5)

2 = Buried:  on beach /  off beach; carcass painted before buried?  Yes\*  No

3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_

4 = Pulled up on beach/dune; painted?  Yes\*  No

6 = Alive, released

7 = Alive, taken to rehab. facility, where? \_\_\_\_\_

MMSC

8 = Left floating, not recovered; painted?  Yes\*  No

9 = Disposition unknown, explain \_\_\_\_\_

\*If painted, what color? \_\_\_\_\_

**TAGS: Contact coordinator before disposing of any tagged animal!**

Checked for flipper tags?  Yes  No

Check all 4 flippers. If found, record tag number(s) / tag location / return address

PIT tag scan?  Yes  No

If found; record number / tag location

Coded wire tag scan?  Yes  No

If positive response, record location (flipper)

Unable to check for \_\_\_\_\_

Checked for living tag?  Yes  No

If found, record location (scute number & side)

**CARAPACE MEASUREMENTS: (see drawing)**

**Using calipers**

Straight length (NOTCH-TIP) 48.7  cm  in

Minimum length (NOTCH-NOTCH) \_\_\_\_\_  cm  in

Straight width (Widest Point) 42.1  cm  in

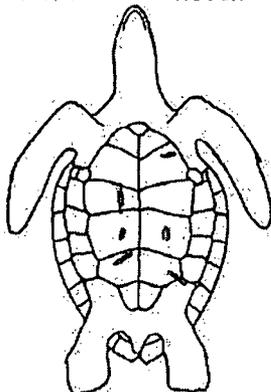
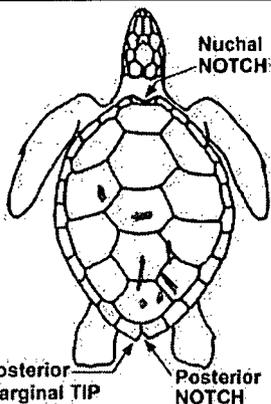
Using non-metal measuring tape

Curved length (NOTCH-TIP) \_\_\_\_\_  cm  in

Minimum length (NOTCH-NOTCH) \_\_\_\_\_  cm  in

Curved width (Widest Point) \_\_\_\_\_  cm  in

Weight  actual /  est. 44.6  kg  lb



Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). Please note if no wounds / abnormalities are found.

**INCIDENTAL CAPTURE: POWER PLANT IMPINGEMENT:** There are several old and healing scrapes on the posterior of the carapace and plastron. There is a small amount of algal growth on the carapace. Taken to MMSC for observation. The turtle was active, swimming and diving normally, eating well, and passing waste. Tagged and release on the north end of Brigantine. Tagged RFF metal tag # SSL130. PIT tagged LFF # 4A4F39114A



4A4F39114A

# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

## OBSERVER'S NAME / ADDRESS / PHONE:

First Brandi M.I.  Last Biehl  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

## STRANDING DATE:

Year 20 10 Month 06 Day 24  
 Turtle number by day 01  
 Field ID # MMSC-10-125  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

## SPECIES: (check one)

- CC = Loggerhead  
 CM = Green  
 DC = Leatherback  
 EI = Hawksbill  
 LK = Kemp's Ridley  
 LO = Olive Ridley  
 UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

## SEX:

Undetermined  
 Female  Male  
 Does tail extend beyond carapace?  
 Yes; how far?  cm /  in  
 No  
 How was sex determined?  
 Necropsy  
 Tail length (adult only)

## STRANDING LOCATION:

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Forked River, Oyster Creek NPGS  
 Latitude 39.81417°N Longitude 74.20700°W

## CONDITION: (check one)

- 0 = Alive  
 1 = Fresh dead  
 2 = Moderately decomposed  
 3 = Severely decomposed  
 4 = Dried carcass  
 5 = Skeleton, bones only

## FINAL DISPOSITION: (check )

- 1 = Left on beach where found; painted?  Yes\*  No(5)  
 2 = Buried:  on beach /  off beach;  
 carcass painted before buried?  Yes\*  No  
 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_  
 4 = Pulled up on beach/dune; painted?  Yes\*  No  
 6 = Alive, released  
 7 = Alive, taken to rehab. facility, where? \_\_\_\_\_  
 MMSC:  
 8 = Left floating, not recovered; painted?  Yes\*  No  
 9 = Disposition unknown, explain \_\_\_\_\_

\*If painted, what color? \_\_\_\_\_

## TAGS: Contact coordinator before disposing of any tagged animal!

Checked for flipper tags?  Yes  No  
 Check all 4 flippers. If found, record tag number(s) / tag location / return address

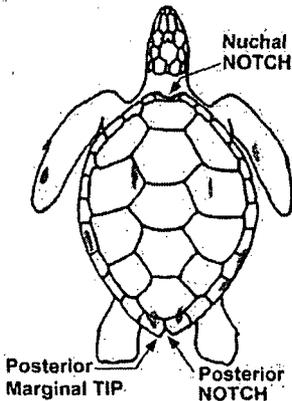
PIT tag scan?  Yes  No  
 If found, record number / tag location

Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)  
 Unable to check for \_\_\_\_\_  
 Checked for living tag?  Yes  No  
 If found, record location (scute number & side)

## CARAPACE MEASUREMENTS: (see drawing)

Using calipers

Straight length (NOTCH-TIP)	<u>25.5</u>	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Straight width (Widest Point)	<u>23.3</u>	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Using non-metal measuring tape			
Curved length (NOTCH-TIP)	<u>26.5</u>	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm	<input type="checkbox"/> in
Curved width (Widest Point)	<u>26.5</u>	<input checked="" type="checkbox"/> cm	<input type="checkbox"/> in
Weight	<u>4.9</u>	<input checked="" type="checkbox"/> kg	<input type="checkbox"/> lb



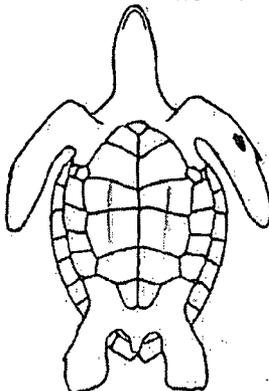
Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiotā, papillomas, emaciation, etc.). **Please note if no wounds / abnormalities are found.**

INCIDENTAL CAPTURE: POWER PLANT IMPINGEMENT: Several small abrasions on plastron and carapace. Small amount of scarring on flippers. Taken to MMSC for observation. The turtle was active, swimming and diving normally, eating well, and passing waste. Tagged and release on the north end of Brigantine on 6/28/2010.

Tagged LFF metal tag # SSL131 PIT tagged RFF # 4A4E665346



4A4E665346



# SEA TURTLE STRANDING AND SALVAGE NETWORK – STRANDING REPORT

**OBSERVER'S NAME / ADDRESS / PHONE:**

First Jay M.I.  Last Page  
 Affiliation Marine Mammal Stranding Center  
 Address PO Box 773, 3625 Brigantine Blvd., Brigantine, NJ 08203  
 Area code/Phone number (609) 266-0538

**STRANDING DATE:**

Year 20 10 Month 06 Day 26  
 Turtle number by day 01  
 Field ID # MMSC-10-128  
 Coordinator must be notified within 24 hrs; this was done by  phone (609)266-0538  
 email  fax

**SPECIES: (check one)**

- CC = Loggerhead
- CM = Green
- DC = Leatherback
- EI = Hawksbill
- LK = Kemp's Ridley
- LO = Olive Ridley
- UN = Unidentified

Check Unidentified if not positive. Do Not Guess.

Carcass necropsied?  Yes  No  
 Photos taken?  Yes  No  
 Species verified by coordinator?  
 Yes  No

**SEX:**

Undetermined  
 Female  Male  
 Does tail extend beyond carapace?  
 Yes; how far?  cm /  in  
 No  
 How was sex determined?  
 Necropsy  
 Tail length (adult only)

**STRANDING LOCATION:**

Offshore (Atlantic or Gulf beach)  Inshore (bay, river, sound, inlet, etc)  
 State New Jersey County Ocean  
 Descriptive location (be specific) Forked River, Oyster Creek NPGS  
 Latitude 39.81417°N Longitude 74.20700°W

**CONDITION: (check one)**

- 0 = Alive
- 1 = Fresh dead
- 2 = Moderately decomposed
- 3 = Severely decomposed
- 4 = Dried carcass
- 5 = Skeleton, bones only

**FINAL DISPOSITION: (check )**

- 1 = Left on beach where found; painted?  Yes\*  No(5)
- 2 = Buried:  on beach /  off beach;  
 carcass painted before buried?  Yes\*  No
- 3 = Salvaged:  all /  part(s), what/why? \_\_\_\_\_
- 4 = Pulled up on beach/dune; painted?  Yes\*  No
- 6 = Alive, released
- 7 = Alive, taken to rehab. facility, where? \_\_\_\_\_
- MMSC
- 8 = Left floating, not recovered; painted?  Yes\*  No
- 9 = Disposition unknown, explain \_\_\_\_\_

\*If painted, what color? \_\_\_\_\_

**TAGS: Contact coordinator before disposing of any tagged animal!**

Checked for flipper tags?  Yes  No  
**Check all 4 flippers.** If found, record tag number(s) / tag location / return address

PIT tag scan?  Yes  No  
 If found, record number / tag location

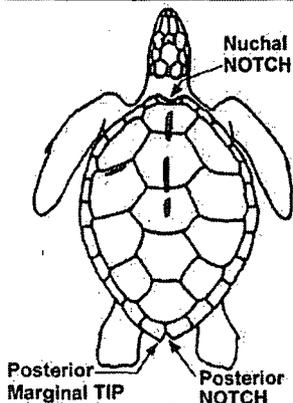
Coded wire tag scan?  Yes  No  
 If positive response, record location (flipper)

Unable to check for  
 Checked for living tag?  Yes  No  
 If found, record location (scute number & side)

**CARAPACE MEASUREMENTS: (see drawing)**

**Using calipers**

Straight length (NOTCH-TIP)	<u>27.5</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm <input type="checkbox"/> in
Straight width (Widest Point)	<u>26.6</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Using non-metal measuring tape		<input type="checkbox"/> cm <input type="checkbox"/> in
Curved length (NOTCH-TIP)	<u>29</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
Minimum length (NOTCH-NOTCH)		<input type="checkbox"/> cm <input type="checkbox"/> in
Curved width (Widest Point)	<u>30</u>	<input checked="" type="checkbox"/> cm <input type="checkbox"/> in
		<b>Circle unit</b>
Weight <input checked="" type="checkbox"/> actual / <input type="checkbox"/> est.	<u>8.2</u>	<input type="checkbox"/> kg <input checked="" type="checkbox"/> lb



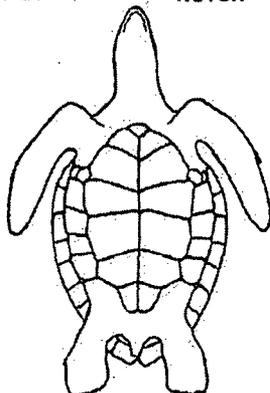
Mark wounds / abnormalities on diagrams at left and describe below (note tar or oil, gear or debris entanglement, propeller damage, epibiota, papillomas, emaciation, etc.). **Please note if no wounds / abnormalities are found.**

**INCIDENTAL CAPTURE: POWER PLANT IMPINGEMENT:** Minor gauges on ridge of carapace that are old and healing. Animal was very active and was swimming and diving normally. Tagged and release on the north end of Brigantine on 6/28/2010.

Tagged RFF metal tag # SSL132 PIT tagged LFF # 497F611621



497F611621





MMSC-10-122

Loggerhead

June 14, 2010

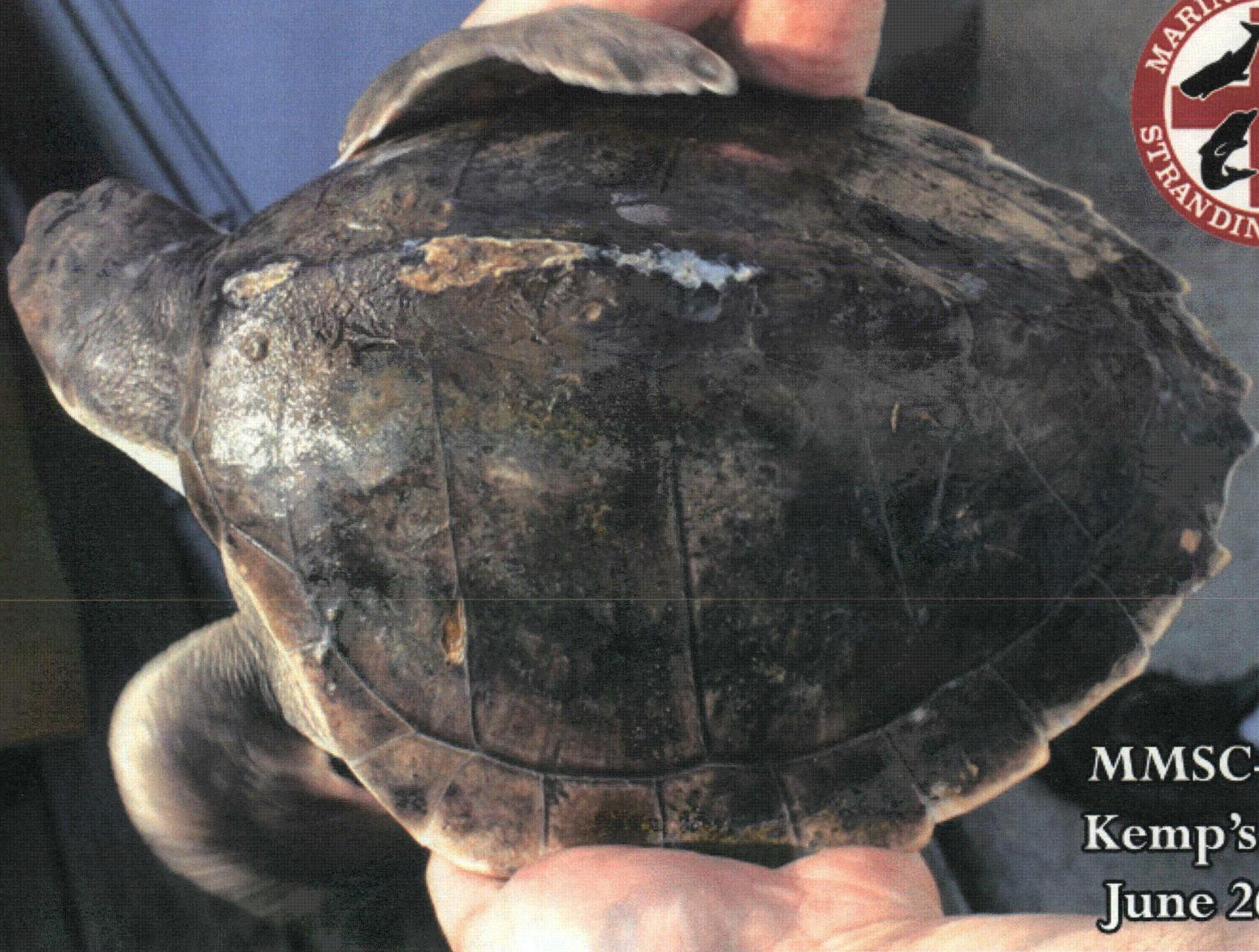




**MMSC-10-125**

**Kemp's Ridley**

**June 24, 2010**



**MMSC-10-128**  
**Kemp's Ridley**  
**June 26, 2010**