

Diamondback Terrapin



DCNR





Loggerhead Sea Turtle

Perdido Bay, Alabama

Deepwater Horizon: April 20th, 2010



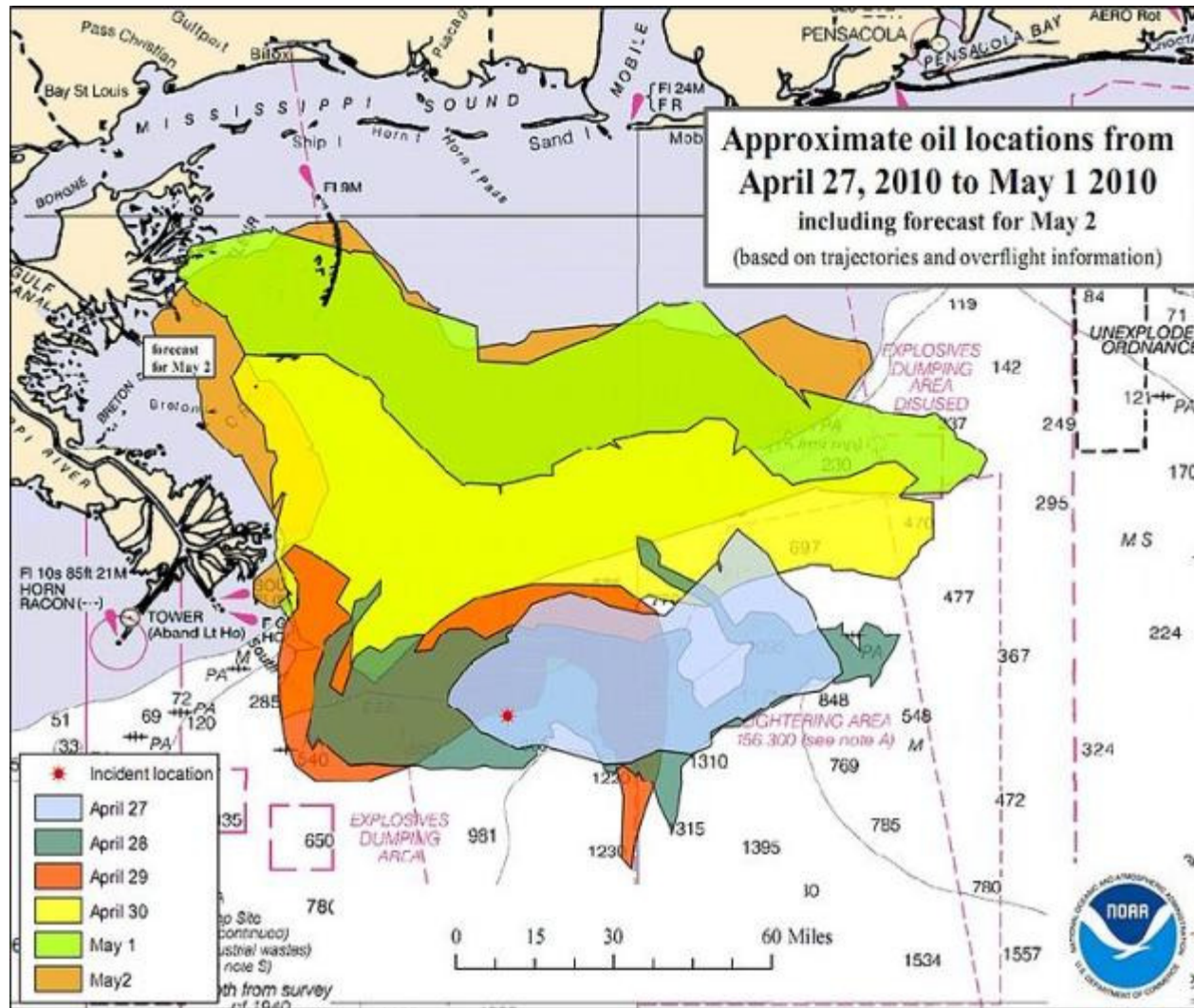
9:45pm
Gas, oil and concrete explodes up
onto deck of DWH and catches fire
The explosion kills 11 workers,
injures 17 others.



Deepwater Horizon Oil Spill

April 20, 2010

Estimated 200,000 gallons per day minimum



Nearshore Surface Oil Forecast Deepwater Horizon MC252

NOAA/NOS/OR&R Nearshore
 Estimate for: 1200 CDT, Thursday, 7/01/10
 Date Prepared: 2100 CDT, Monday, 6/28/10

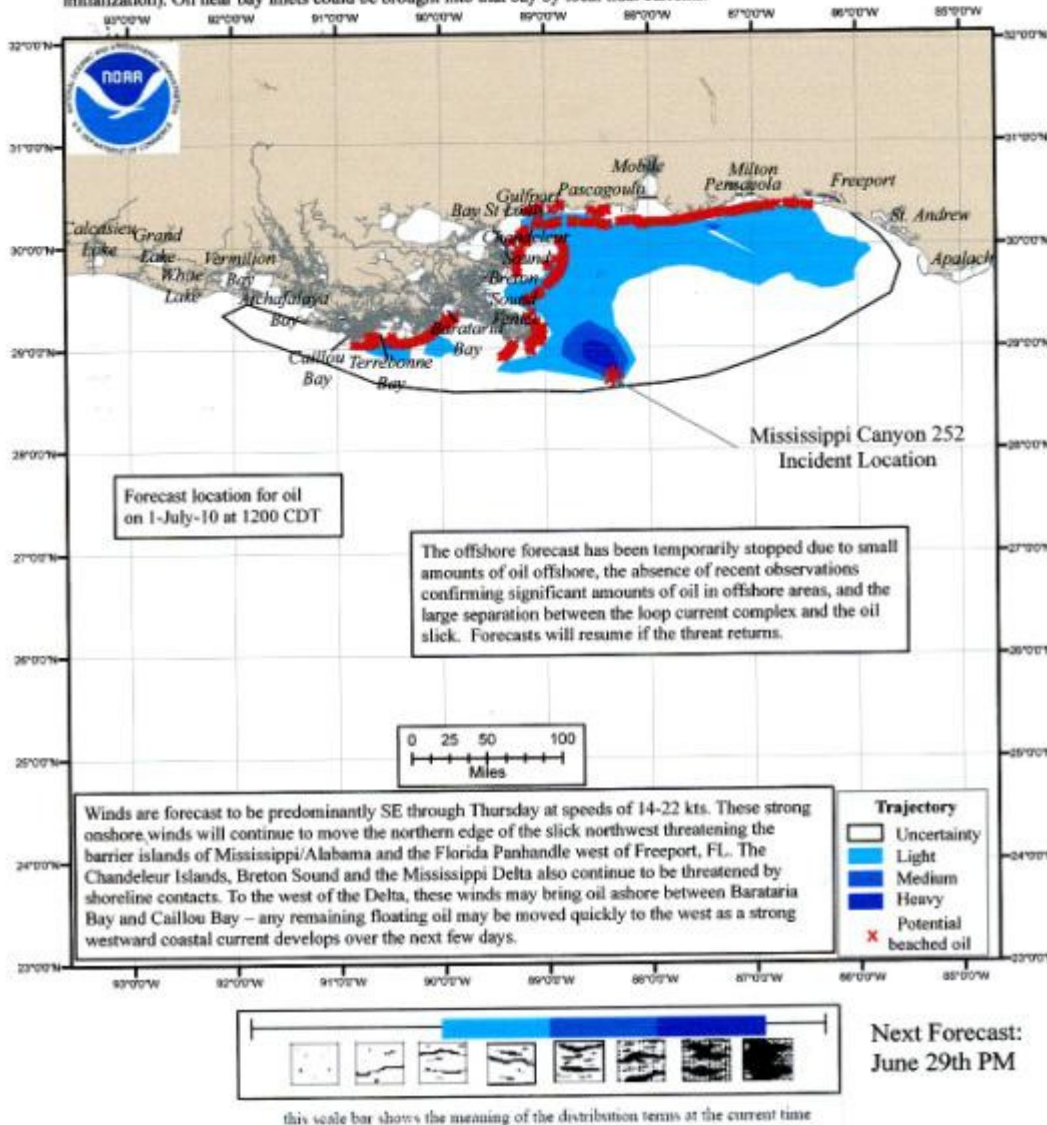
This forecast is based on the NWS spot forecast from Monday, June 28 PM. Currents were obtained from several models (NOAA Gulf of Mexico, West Florida Shelf/USF, TGLO/TAMU, NAVO/NRL) and HFR measurements. The model was initialized from Sunday-Monday satellite imagery analysis (NOAA/NESDIS) and Monday overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization). Oil near bay inlets could be brought into that bay by local tidal currents.

Deepwater Horizon Oil Spill April 20, 2010

Estimated 53,000
Barrels of oil per day
(2,226,000 gallons/day)

Estimated Total
Of 4.9 million barrels
Of oil
(205.8 million gallons)

771,000 gallons of
Dispersant



Northern Gulf of Mexico
Deepwater Horizon Oil Spill

April 20, 2010

Estimated 53,000 barrels per day minimum

2,226,000 gallons per day





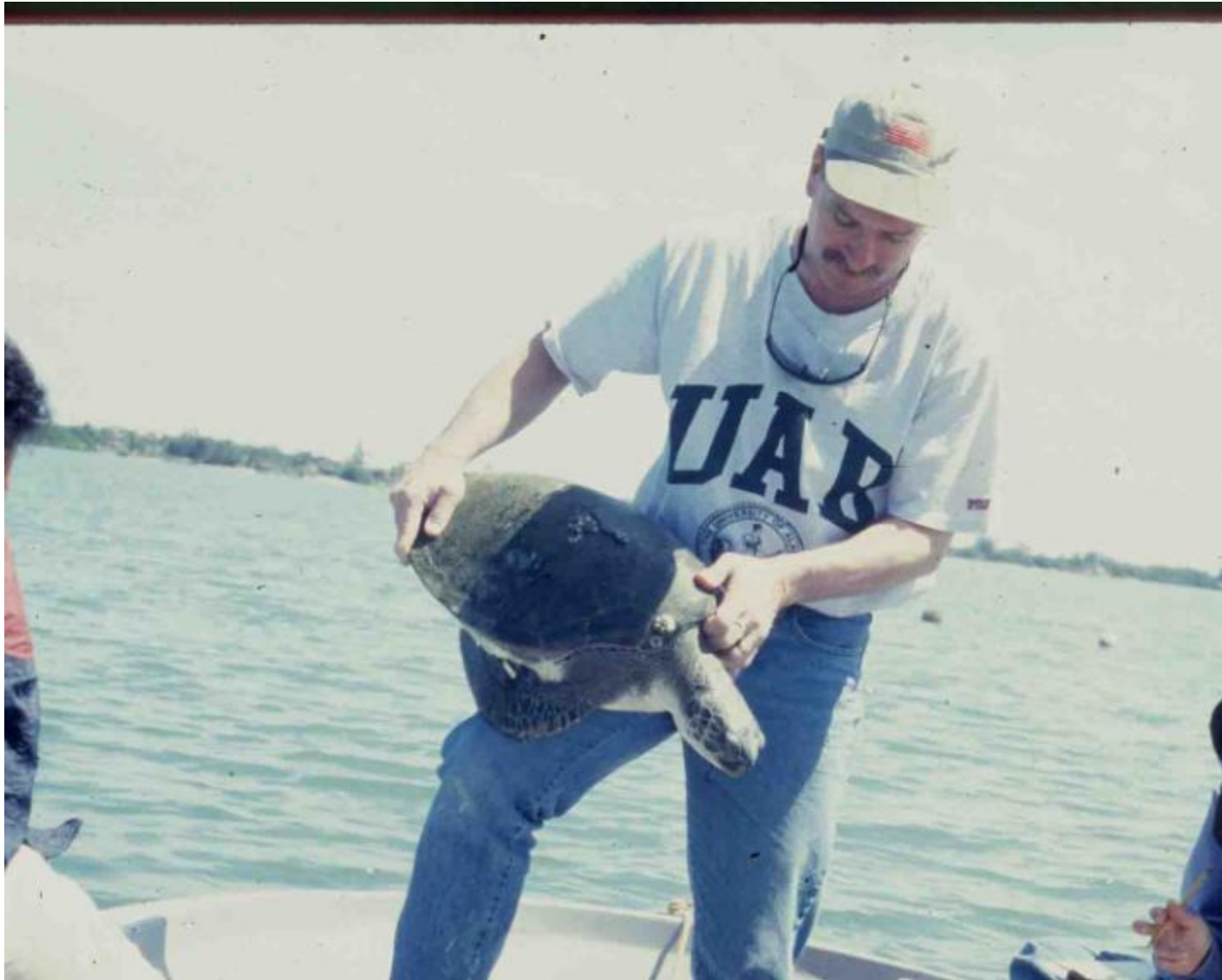
**Kemp's Ridley
Sea Turtle**
(Lepidochely kempii)

One of the Seven Species of
Sea Turtles

Loggerhead Sea Turtle

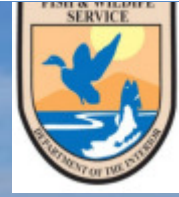


Immature Green Sea Turtle

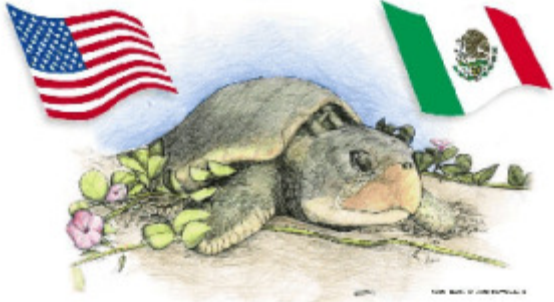


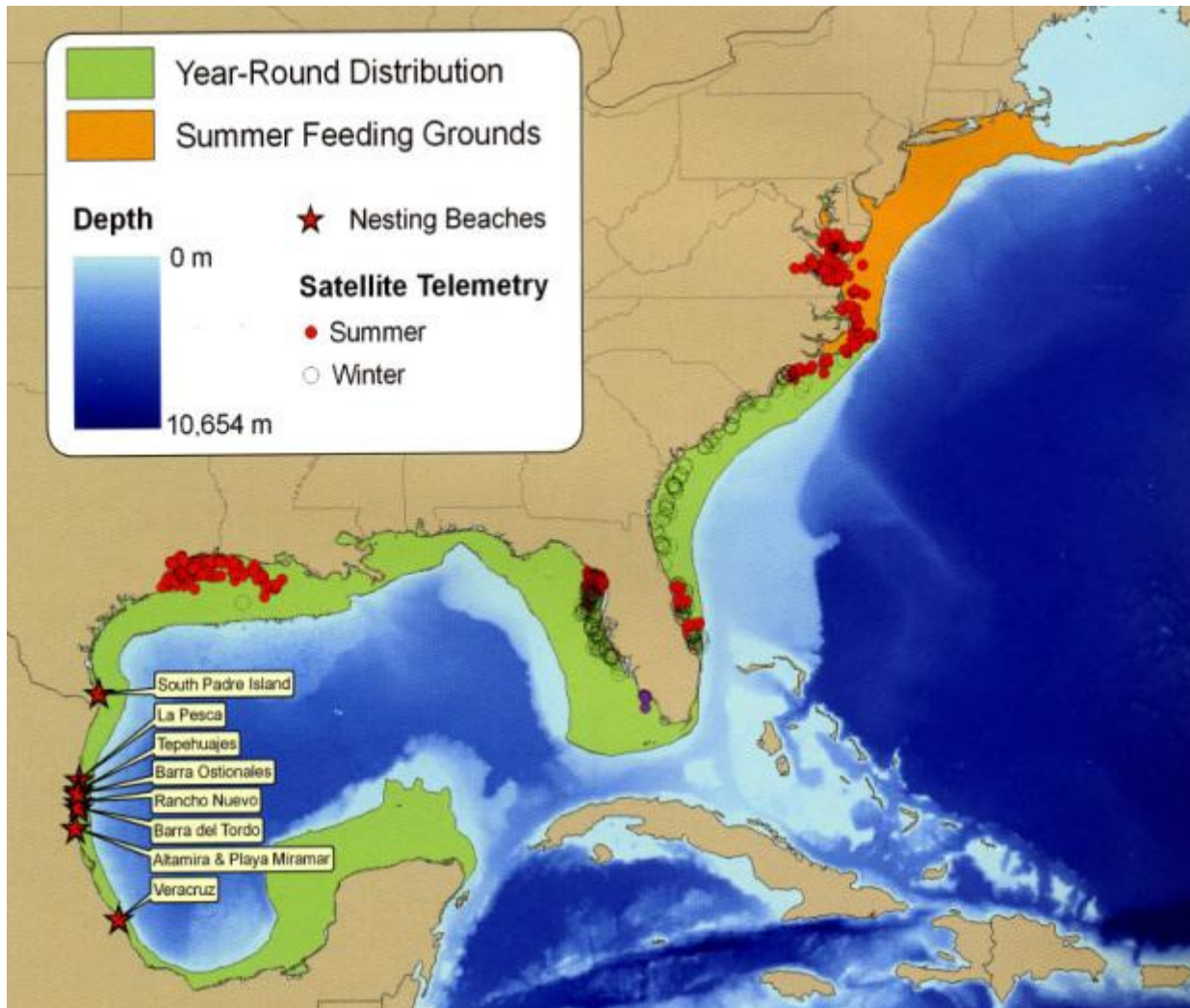
Leatherback Sea Turtle, Juno Beach, Florida





Programa Binacional de la Tortuga Lora





Kemp's Ridley

Limited Distribution

Primarily in the Gulf of Mexico

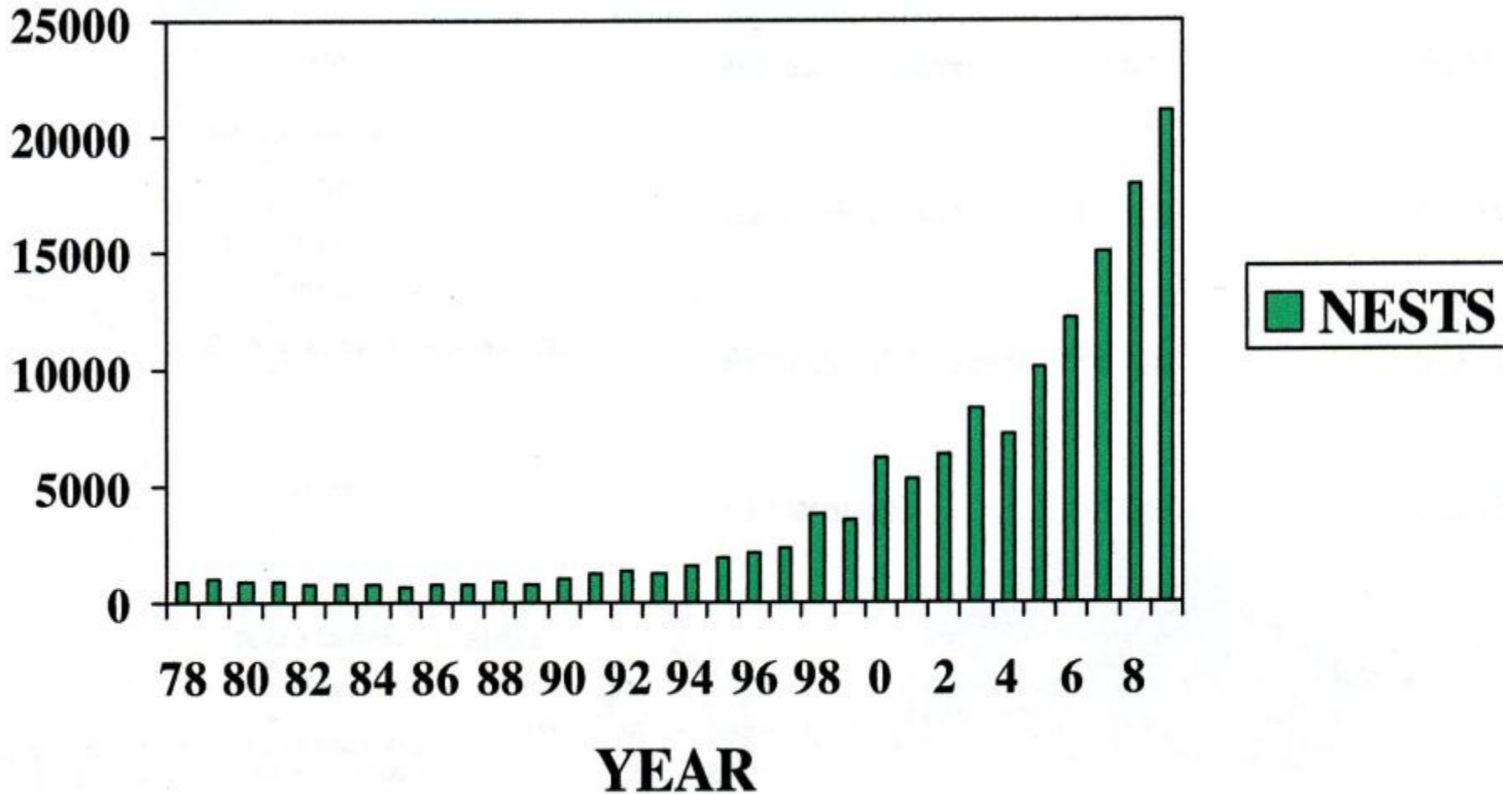
Kemp's Ridley Arribada, Rancho Nuevo Mexico, 1947



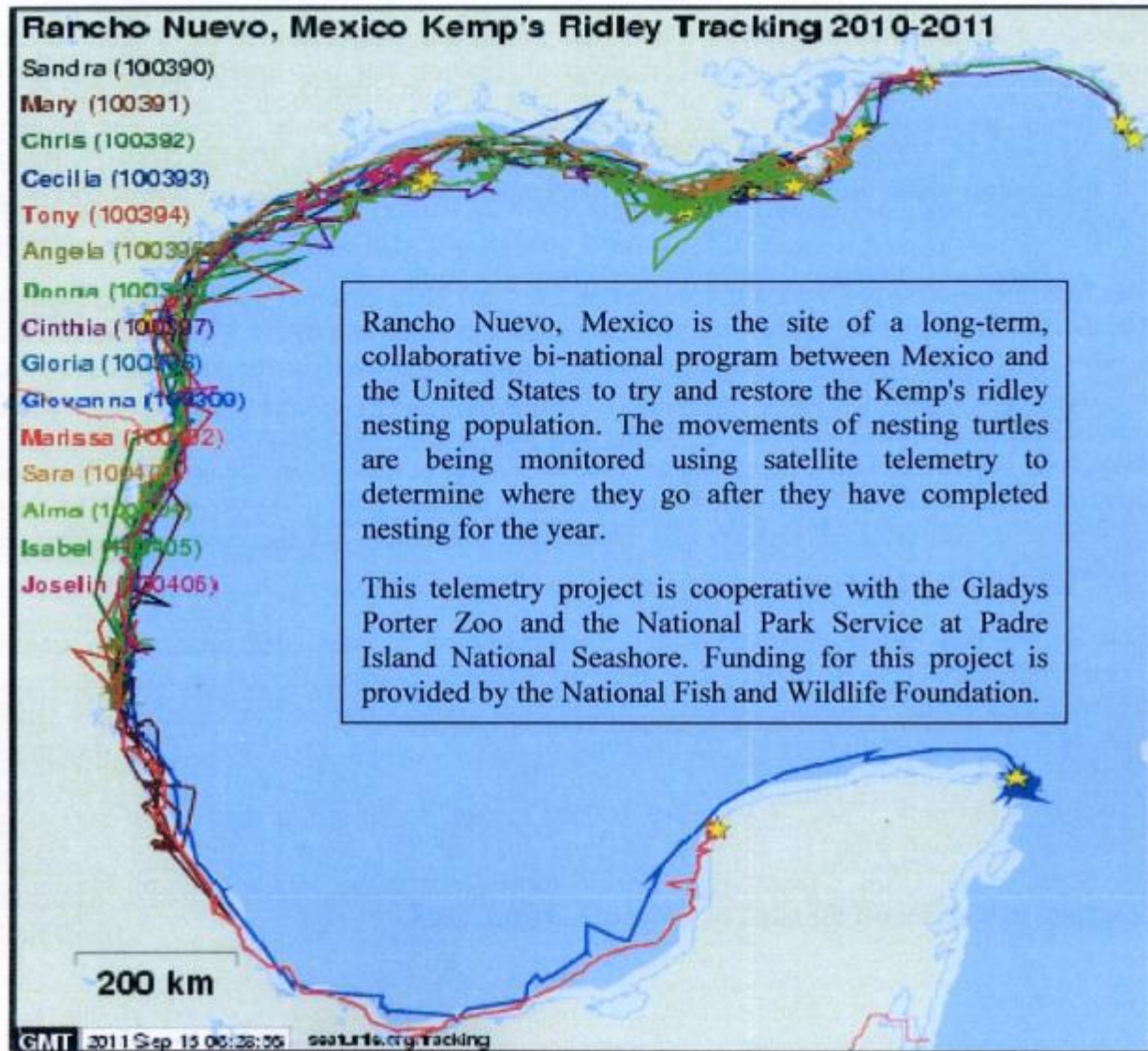


Kemp's Ridley Sea Turtle, Rancho Nuevo, Mexico

KEMP'S RIDLEY NESTS RECORDED IN RANCHO NUEVO,
1978 - 2009



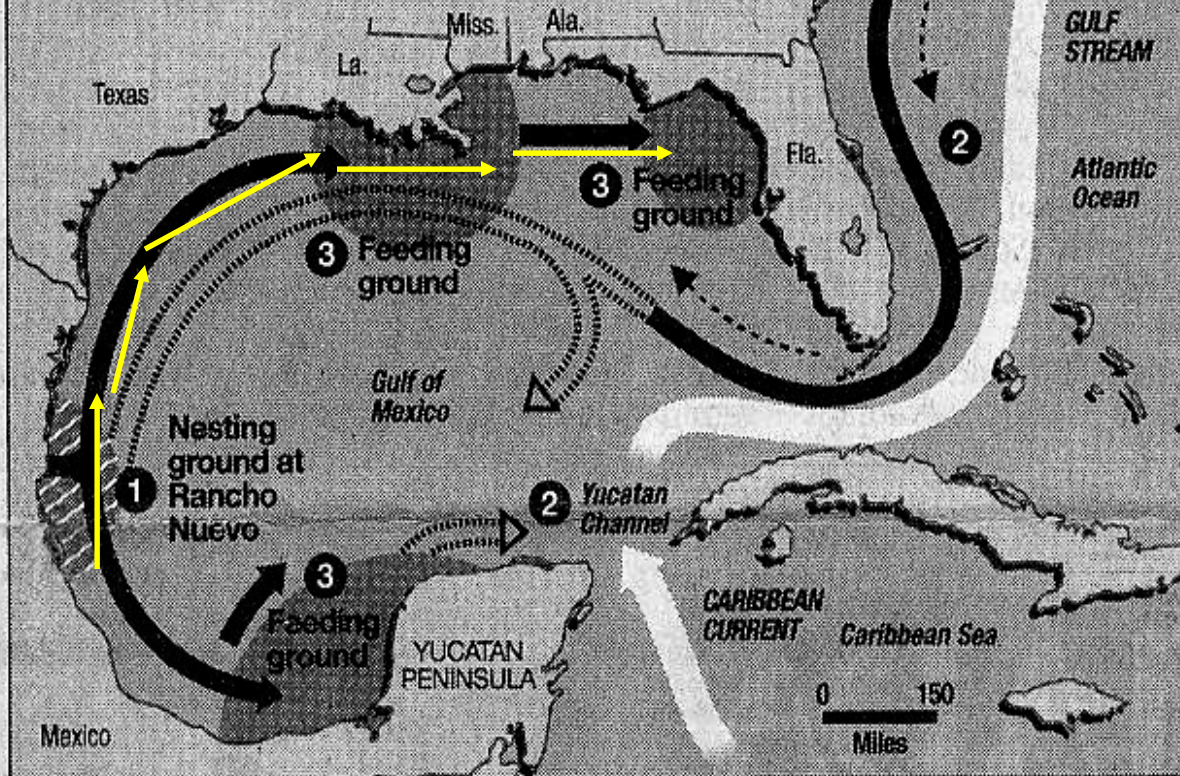
Kemp's Ridley Migration Corridor from Mexico Nesting Beach To Northern Gulf of Mexico



Data from
Donna Shaver
National Park
Service

Turtle map

- 1** Hatchlings emerge from buried nests along the beach and swim north and south along the Gulf of Mexico coast to feeding grounds.
- 2** Young turtles 6 to 10 inches long follow the Gulf Stream to feeding grounds as far north as Cape Cod. Some may swim south through the Yucatan Channel. Specimens 12 to 21 inches have been found in the Caribbean. In winter, turtles return to warmer waters along Florida and back to the gulf.
- 3** Adult feeding grounds are located on the western coast of Florida, near the mouth of the Mississippi River and near the Yucatan Peninsula.



Source: Rene Marquez, Instituto Nacional de la Pesca

By Genevieve Lynn, USA TODAY

Kemp's Ridley Distribution

Deepwater Horizon Oil Spill

April 20, 2010

Estimated 53,000 barrels per day minimum

2,226,000 gallons per day



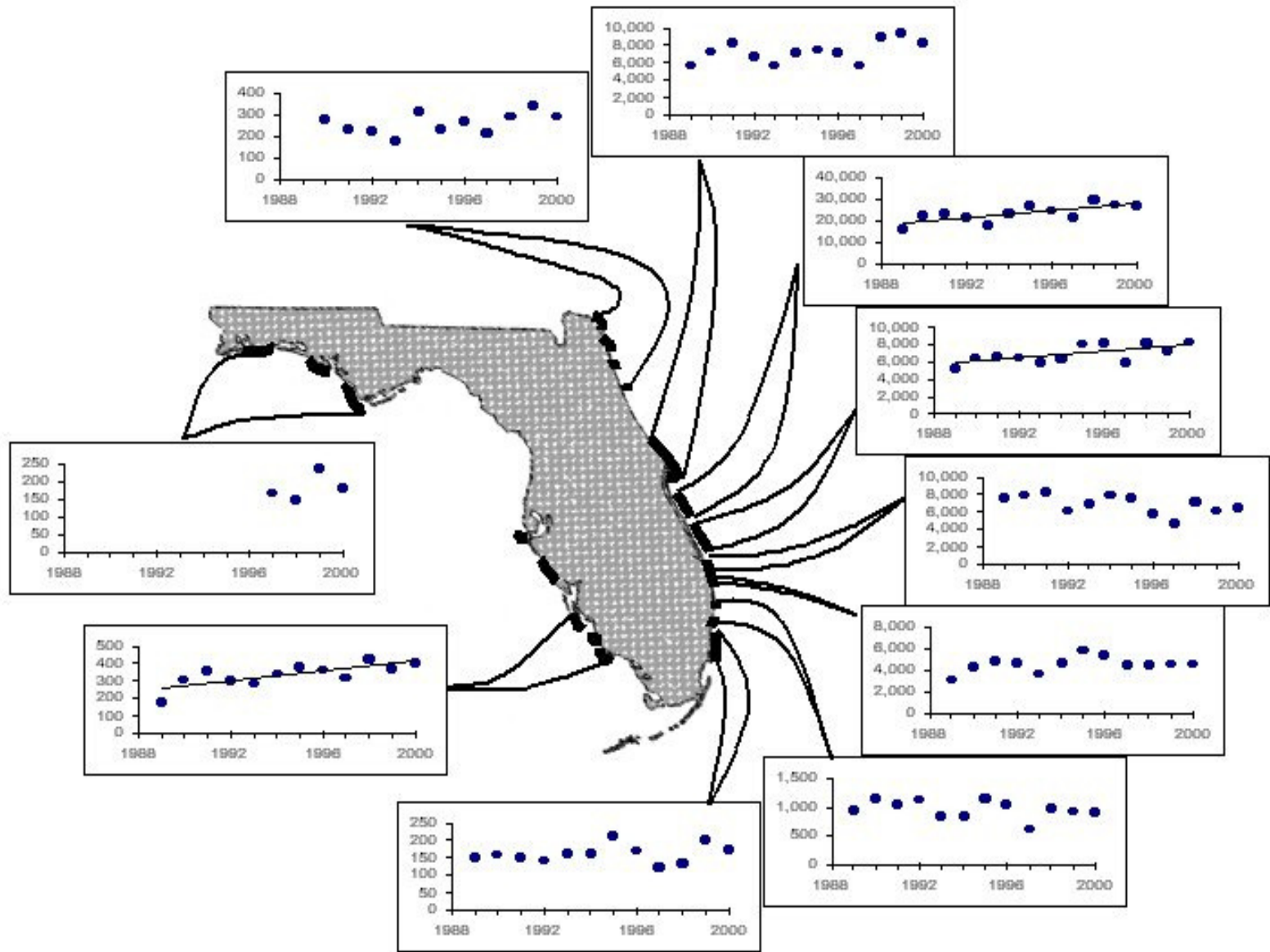
Loggerhead Sea Turtle



Loggerhead Nesting Subpopulations



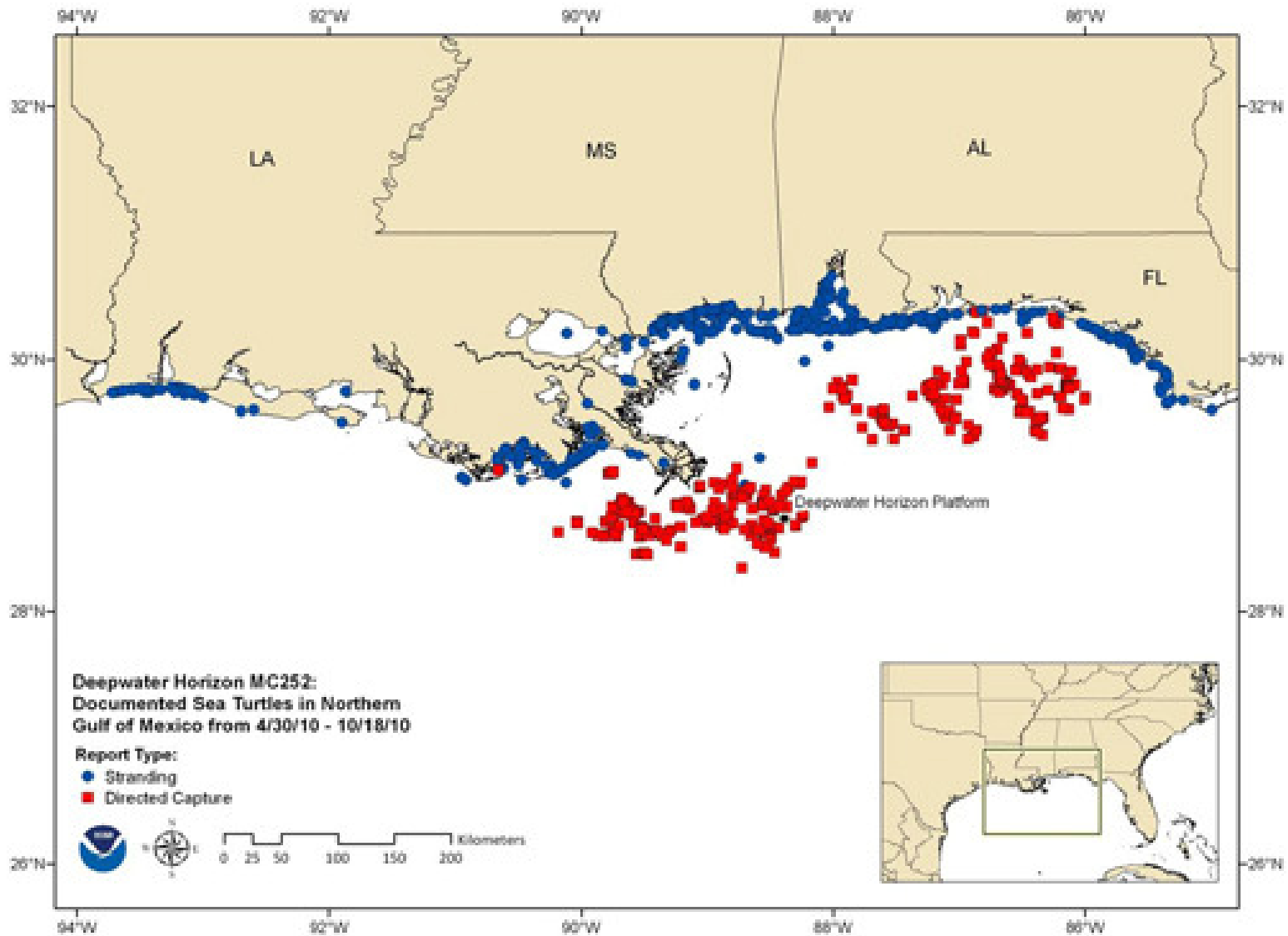
Loggerhead Nesting Beaches in Florida



Loggerhead Nest, Dauphin Island, Alabama



Sea Turtle Strandings and In Water Collections Northern Gulf Of Mexico, May – Feb 2011





Dead Stranded
Kemp's Ridley
North of Mobile Bay
Summer 2010

**Necropsy of Dead Stranded Sea Turtles from Northern Gulf of Mexico
University of Florida Veterinary School, Brian Stacy: NOAA Veterinarian**

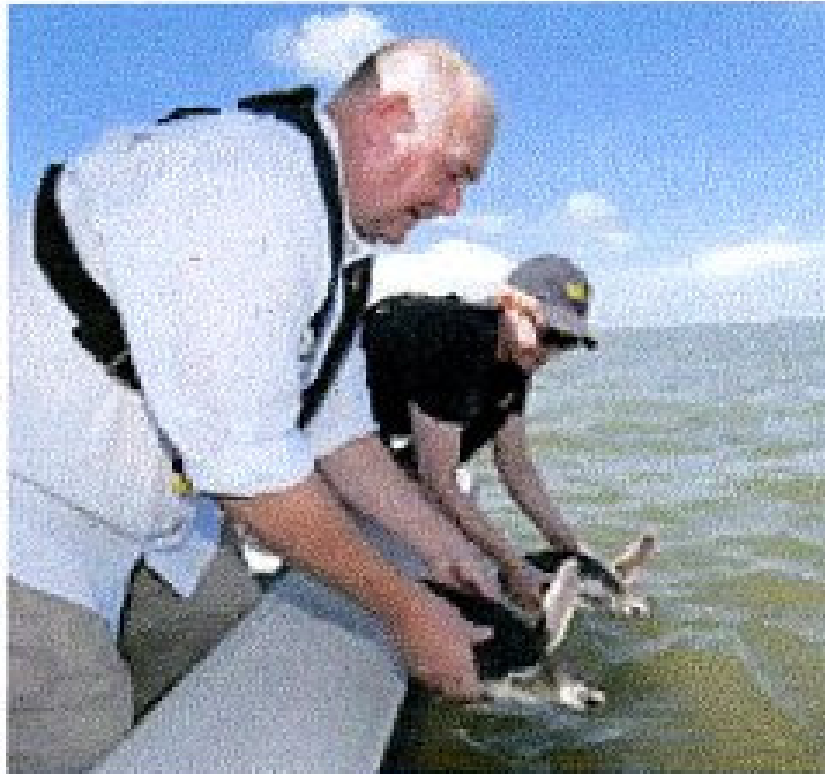


Retrieval of Oiled Turtles at Sea





Sea Turtle Strandings and Oiled Turtles Following Deepwater Horizon Oil Spill, Summer 2010

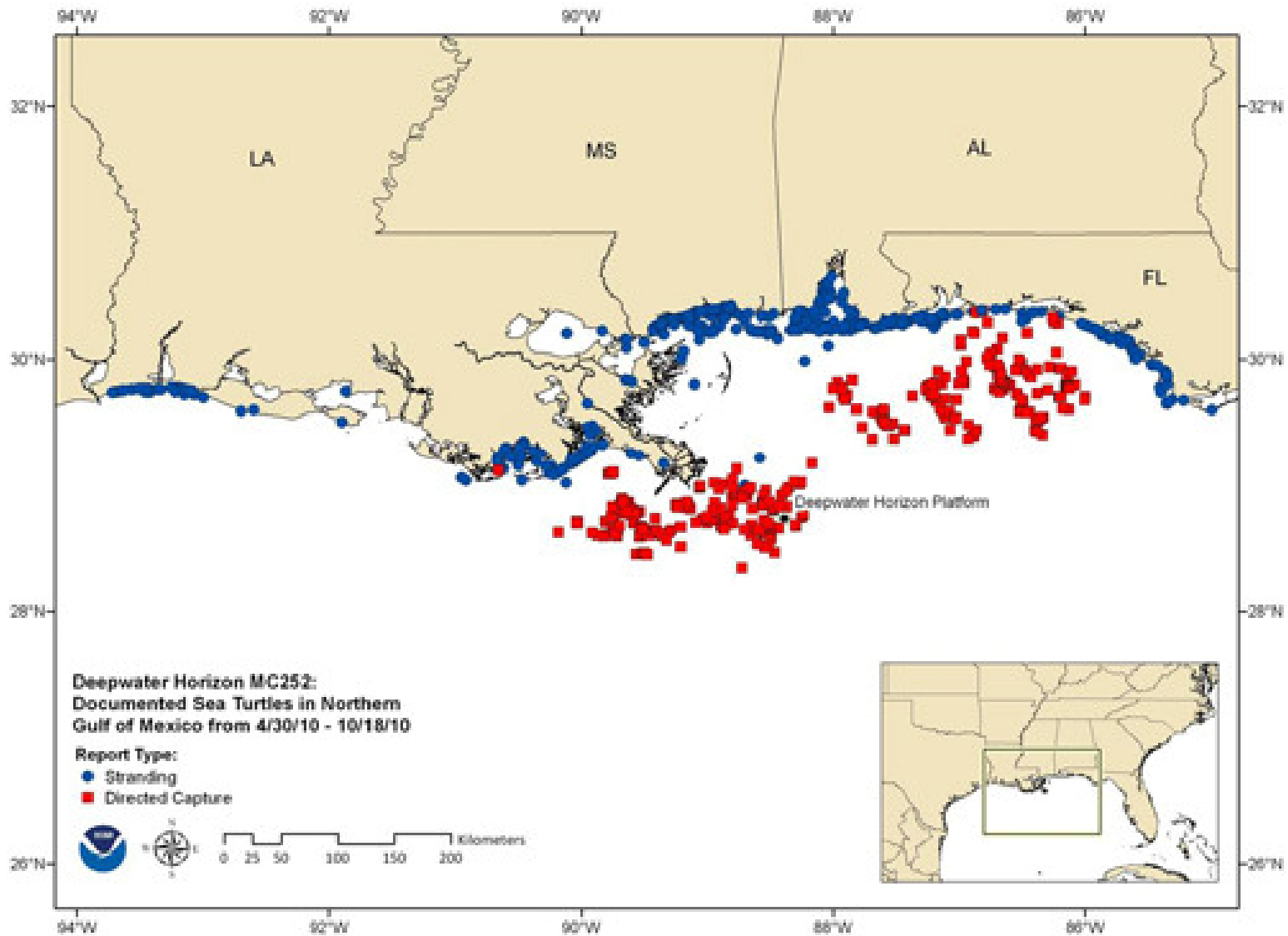


**Sea Turtle Release by NOAA and
U.S. Coast Guard in
Cedar Key, FL**

Credit: NOAA

(click photo to play video)

Sea Turtle Strandings and In Water Collections Northern Gulf Of Mexico, May – Feb 2011



Stranded Sea Turtles, Northern Gulf of Mexico, May – Feb 2010

Turtle Species	Alive	Dead	Total
<u>Green turtle</u> (<i>Chelonia mydas</i>)	172	29	201
<u>Hawksbill turtle</u> (<i>Eretmochelys imbricata</i>)	16	0	16
<u>Kemp's ridley turtle</u> (<i>Lepidochelys kempii</i>)	328	481	809
<u>Loggerhead turtle</u> (<i>Caretta caretta</i>)	21	67	88
Unknown turtle species	0	32	32
TOTAL	537	609	1146

Northern Gulf Live Strandings 2010

	<u>Visibly Oiled</u>	<u>Not Visibly Oiled</u>
April	0	0
May	12	17
June	91	34
July	152	8
Aug	198	11
Sept	3	8
Oct	0	0
	<hr/>	<hr/>
	456	78

Total = 534

362 of which released

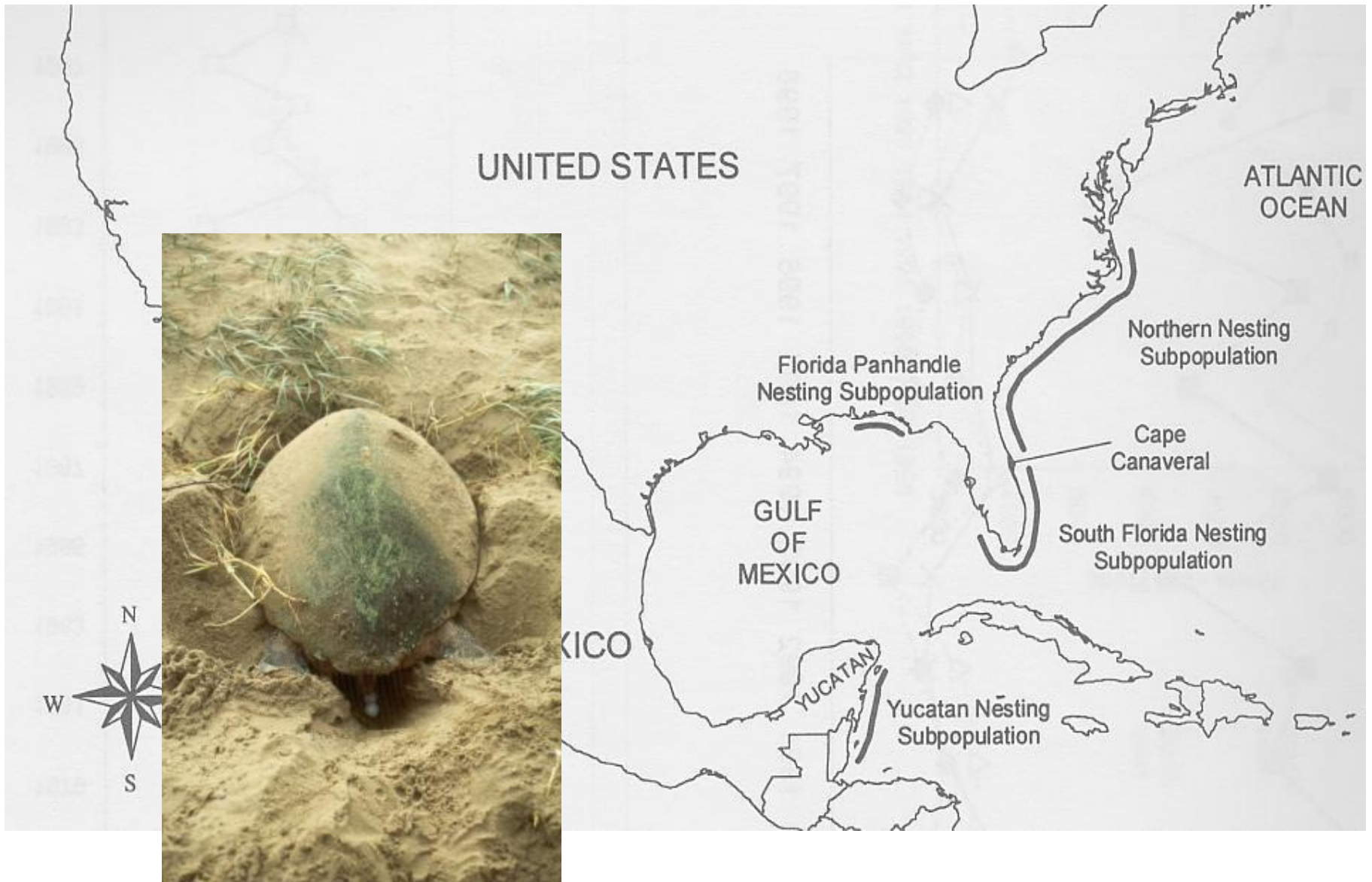
Northern Gulf Dead Strandings 2010

	<u>Visibly Oiled</u>	<u>Not Visibly Oiled</u>	<u>Pending</u>
April	0	6	0
May	3	164	63
June	9	143	53
July	6	5	50
Aug	0	1	55
Sept	0	0	37
Oct	0	0	10
	<hr/> 18	<hr/> 319	<hr/> 268

Total = 605

(234 in Alabama or near offshore)

Loggerhead Nesting Subpopulations



Sea Turtle Nest Relocation Following Deepwater Horizon Oil Spill, Summer 2010

Sea Turtle Nest Relocation (U.S. Fish & Wildlife Service)



Sea turtles can lay 100 eggs per nest

Credit: Bonnie Strawser, USFWS
(click photo for high resolution)

Sea Turtle Egg Evacuations Begin Along Gulf

CBS News / 9th Jul 2010

Like Be the first of your friends to like this.



Kennedy Space Center

IN THIS STORY

Places

[Atlantic Ocean](#), [Gulf Coast, Florida](#), [Kennedy Space Center](#)

Tags

[Evacuation](#), [Oil Disaster](#), [Oil](#)

800-822-9919 After about 90 minutes of parting the sand with her fingers like an archaeological dig, 107 eggs were placed in two coolers and loaded onto a FedEx temperature-controlled truck.

PHOTOS: [Kennedy Space Center in pictures](#)

They are being transported to a warehouse at Florida's [Kennedy Space Center](#) where they will incubate and, hopefully, hatch before being released into the [Atlantic Ocean](#).

VIDEOS: [Kennedy Space Center in videos](#)

Special Section: [Gulf Coast Oil Disaster](#) The effort began in earnest along Florida's Panhandle, with two loggerhead nests excavated. Up to....

[READ MORE >>](#)

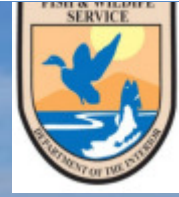
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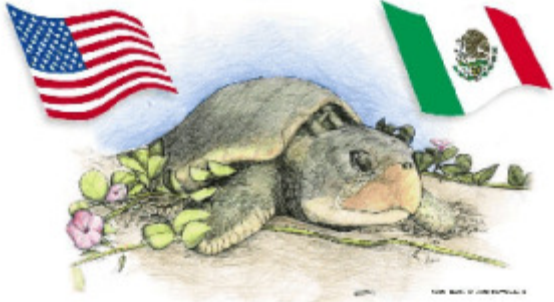
Sea Turtle Eggs That Were Translocated To
Atlantic Coast of Florida Due To
Deepwater Horizon Oil Spill

Species	Trans-located Nests	Hatchlings released
<u>Green turtle</u> (<i>Chelonia mydas</i>)	4	455
<u>Kemp's ridley turtle</u> (<i>Lepidochelys kempii</i>)	5	125
<u>Loggerhead turtle</u> (<i>Caretta caretta</i>)	265*	14,216

*Does not include one nest that included a single hatchling and no eggs.

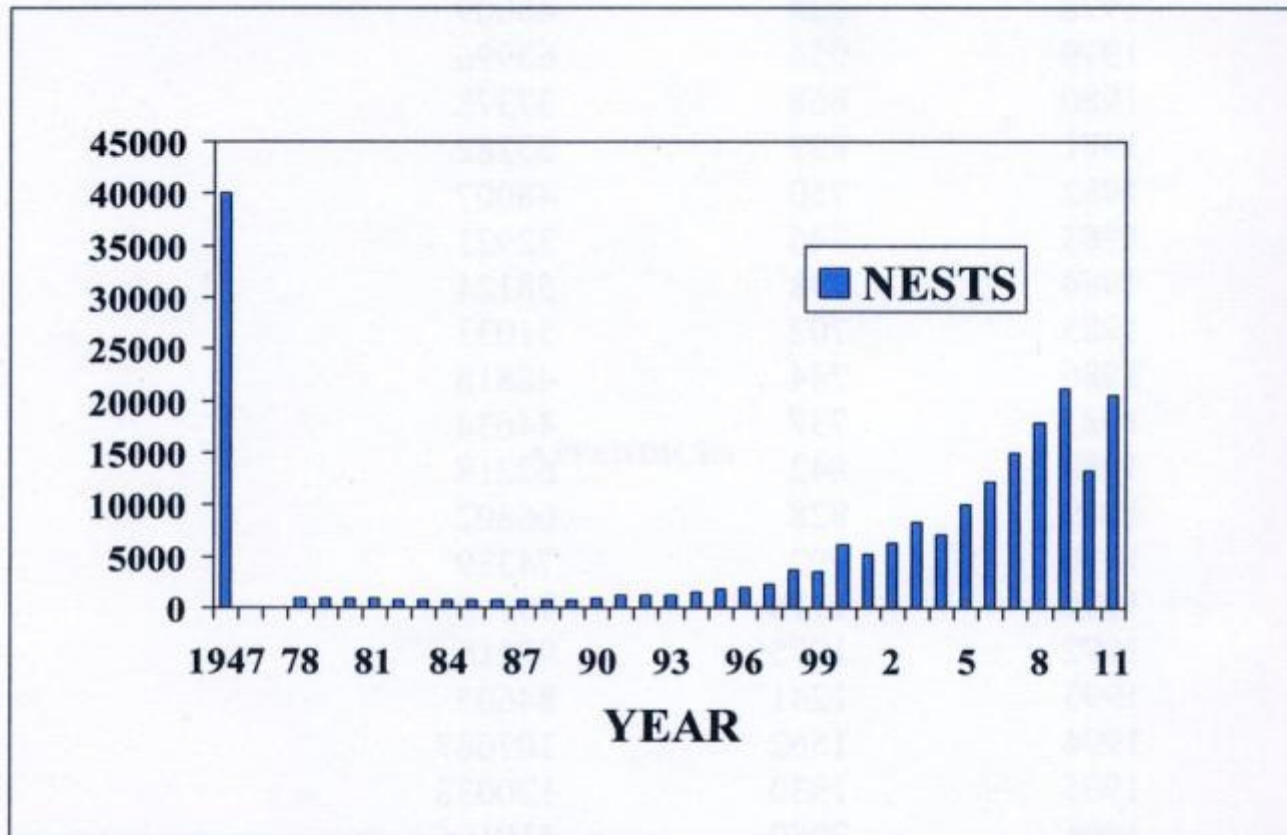


Programa Binacional de la Tortuga Lora



Kemp's Ridley Nesting Beach at Rancho Nuevo, Mexico

KEMP'S RIDLEY REGISTERED NESTS 1947 / 1978 – 2011



Kemp's Ridley Natural Resource Damage Assessment (NRDA) Project: Evaluating the Impact of the Deepwater Horizon Oil Spill

nps.gov
(home)

National Park Service
U.S. Department of the Interior



Search this park
 Search nps.gov

Padre Island



National Seashore

text size:

Sea Turtle Recovery Project

International Efforts to Save Kemp's Ridley

The principal nesting area for Kemp's ridley sea turtle is a 16-mile stretch of beach at Playa de Rancho Nuevo, Tamaulipas, Mexico, where approximately 40,000 Kemp's ridleys nested in a single day in 1947. Due to human activities, the population plummeted and reached a low of only 702 nests worldwide in 1985.

The scarcity of Kemp's ridley turtles in the 1970's prompted the U.S. to join on-going efforts in Mexico to save this endangered species. From 1978-1988, an international, multi-agency project was undertaken to increase nesting by Kemp's ridley sea turtles at Padre Island National Seashore to form a secondary nesting colony for this indigenous species, as a safeguard against extinction. Overall, 22,507 eggs were collected in Rancho



NPS PHOTO

As adults, Kemp's ridley sea turtles have shells about two feet across and reach about 100 pounds in weight.

Español

Site Index

Frequently Asked Questions

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The Diamondback Terrapin in Alabama:



DCNR

Diamondback Terrapin

Biologically Unique

- Only turtle in North America that exclusively inhabits estuarine waters and salt marshes

(Occurs in Salt Marshes in the Northern Gulf of Mexico that were impacted by the Deepwater Horizon Oil Spill)



Historically a Valuable Marine Resource

Diamondback Terrapin Stew, Chesapeake Bay Style Recipe #283841

Turtle soup or stew is no longer a popular item on today's menus, but it once graced the tables of the rich and powerful. From the Southern chapter of the United States Regional Cookbook, Culinary Arts Institute of Chicago, 1947. Cooking time is approximate.

by Molly53

2½ hours | 20 min prep

SERVES 6 -8

3 large terrapins (turtles)
6 eggs, hard-cooked
3 tablespoons flour
1/2 teaspoon ground nutmeg
3 tablespoons lemon juice (fresh is best)
1 tablespoon lemon rind, grated
1 onion, peeled and sliced
2 stalks celery, diced
1 tablespoon worcestershire sauce
1/2 cup cream
2 cups sherry wine
salt and pepper, to taste
3 cups chicken stock or vegetable stock
hot milk, if necessary

Terrapin have been utilized for several centuries for making terrapin stew

1. Drop live terrapin into boiling water and let stand for 5 minutes.
2. Remove from water; rub skin off feet, tail and head with a towel, drawing the head out with a skewer.
3. Clip off claws.
4. Scrub shell with boiling water; break apart with a cleaver or axe.
5. Remove meat and liver.
6. Discard heart, sandbag, entrails and gall bladder (taking caution not to break it as it's bitter).
7. Cut the liver in thin slices.
8. Take out eggs, remove film and set aside in cold water.
9. Mash yolks of eggs; add flour, nutmeg, lemon juice and rind.
10. Stir in 1 cup of soup stock.
11. Add onion, celery, terrapin and terrapin eggs and enough more stock to cover meat.
12. Cook in double boiler until meat falls from bones.
13. Remove bones, add worcestershire sauce, salt, pepper, chopped egg whites, cream, sherry and milk (if necessary).
14. Heat thoroughly and serve with toast.

Alabama Terrapin Tax Enacted in 1923

CODE OF ALABAMA

1975

With Provision for Subsequent Pocket Parts

Prepared under the Supervision of
The Legislative Council

Jerry L. Bassett, Code Commissioner

by

The Editorial Staff of the Publishers

VOLUME 7

2001 REPLACEMENT VOLUME

Including Acts through the 2001 Regular Session and
annotations taken through Southern Reporter,
Second Series, Volume 780, page 672



2001

American Digest System:
Fish 69-10.

C.J.S. Fish § 36.

§ 9-12-45. Tax on terrapins caught, etc., for commercial purposes; minimum legal size; possession of undersized terrapins.

A tax of \$.05 is hereby laid on each turtle or terrapin packed, canned or caught for commercial purposes in this state or the waters within the territorial jurisdiction of this state. It shall be unlawful for any diamond back terrapin measuring less than six inches from the anterior to the posterior

374

ICES § 9-12-45

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Code 1923, § 2769;
§ 139; Acts 1943,
acts 1961, Ex. Sess.,

dum:

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ta 1923, No. 504, p.
, p. 192; Code 1940,
No. 308, p. 501, § 1;

dum:

§ 9-12-46

MARINE RESOURCES

§ 9-12-47

extremes of the body underneath to be caught or taken from the waters of Alabama, and any person having in his possession an undersized turtle shall be guilty of a misdemeanor. (Acts 1923, No. 504, p. 672; Code 1923, § 2769; Acts 1936-37, Ex. Sess., No. 169, p. 192; Code 1940, T. 8, § 139; Acts 1943, No. 422, p. 388, § 1; Acts 1945, No. 308, p. 501, § 1; Acts 1961, Ex. Sess., No. 108, p. 2028, § 1.)

§ 9-12-46. Minimum weight of shrimp taken, etc., for commercial purposes; possession, sale, etc., of nonconforming shrimp.

The Commissioner of Conservation and Natural Resources shall set by regulation the minimum weight requirement of shrimp which are caught or taken from the territorial waters of Alabama for commercial purposes or which are brought into Alabama from waters beyond the territorial jurisdiction of Alabama for commercial purposes; provided, however, that such minimum weight requirement as set by regulation of said Commissioner of Conservation and Natural Resources shall require not more than 68 shrimp with heads attached to weigh one pound and shall require not more than 114 headless shrimp to the pound.

It shall be unlawful for any person, firm, corporation or association to sell, offer for sale or have in possession for sale for commercial purposes any shrimp which require more in number to weigh one pound than the number per pound as set by regulation of the Commissioner of Conservation and Natural Resources.

Any person, firm, corporation or association who or which violates any of the provisions of this section shall be guilty of a misdemeanor and, upon conviction, shall be punished by a fine of not less than \$25.00 nor more than \$100.00 for each offense.

Nothing in this section shall be construed to apply to shrimp which are used solely as bait. (Acts 1939, No. 565, p. 891, § 1; Code 1940, T. 8, § 161; Acts 1947, No. 49, p. 16, § 1; Acts 1951, No. 931, p. 1599, § 1; Acts 1967, No. 569, p. 1322, § 1.)

CROSS REFERENCES

As to standard measure for shrimp, see § 9-12-27.

Corpus Juris Secundum:

C.J.S. Fish §§ 26, 28.

RESEARCH REFERENCES

American Digest System:
Fish 69-12.

§ 9-12-47. Condemnation, disposition, etc., of shrimp not fit for human consumption.

No person shall purchase, sell, can, ship or otherwise transport any fresh saltwater shrimp which are not in prime condition, that is, suitable to be eaten by human beings as food; and, upon condemnation by the Director,

375

Diamondback Terrapin Recovery Program in Alabama 2005 - Present

- UAB, USA, Dauphin Island Sea Lab
- Alabama Department of Conservation and Natural Resources
 - State Wildlife Grants Program
 - Alabama Coastal Area Management Program

The logo for the University of Alabama at Birmingham (UAB), consisting of the letters 'UAB' in a bold, green, sans-serif font.

DCNR







AP Photo/Gerald Herbert







Nearshore Surface Oil Forecast Deepwater Horizon MC252

NOAA/NOS/OR&R Nearshore
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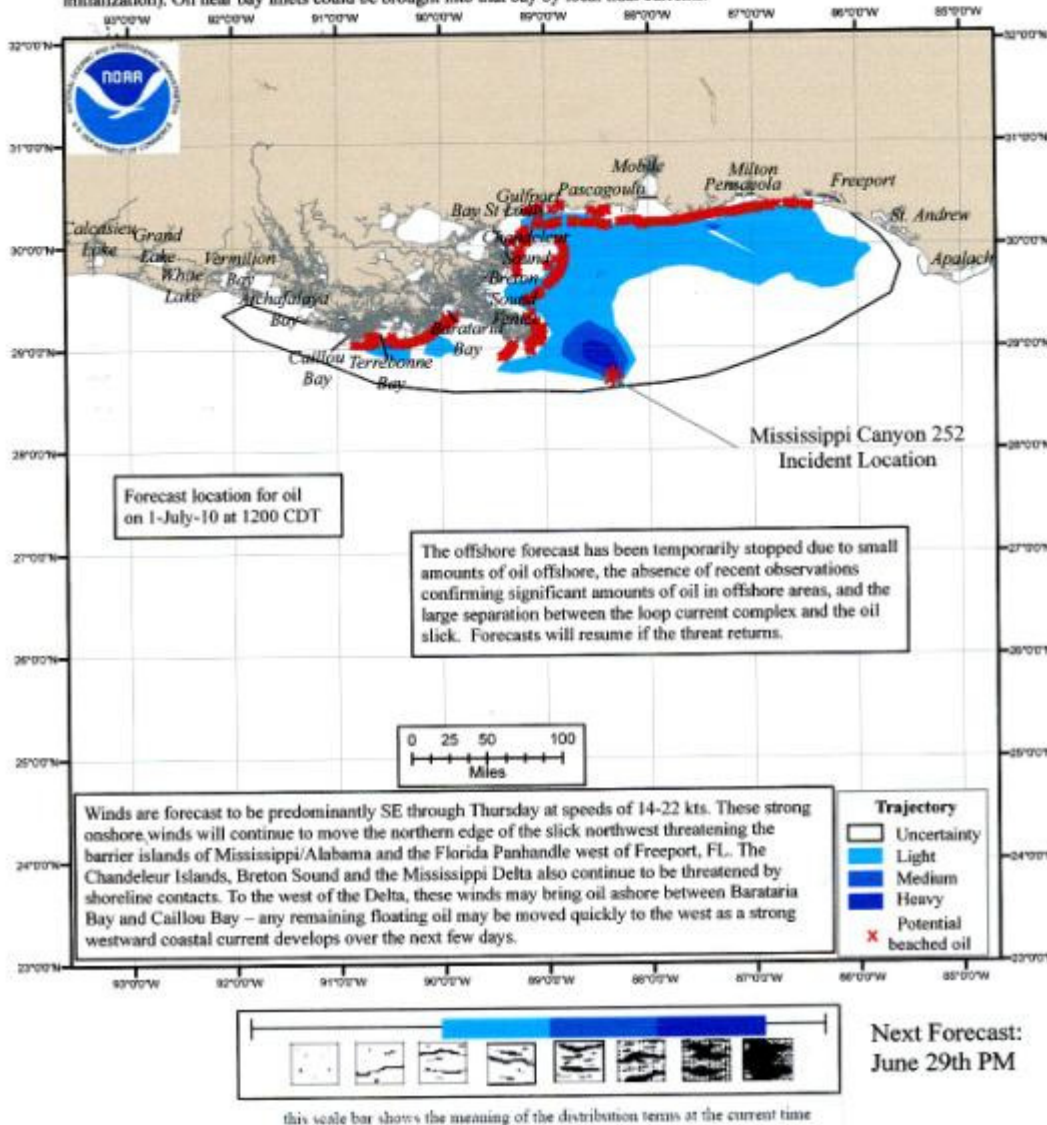
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DISL Marine Turtles Course



Cedar Point Nesting Beach
Drift Fence For Terrapin



Results to Date Regarding Nesting Surveys Reproductive Output Did Not Decrease in 2010 or 2011



Headstart Program

- Approximately 10 - 12 clutches each year
2008 - 2011

Probable depredated nests

- Incubated at either 31 °C or 26 °C
- Approximately 80 hatchlings per year
- Release after 9-12 month of captive rearing



Analyzing Eggs for Oil Contaminants



Diamondback Terrapin Surveys in Alabama Salt Marshes

Analyzing terrapin for survival, growth, and oil contaminants





UAB



DCNR