



OIL SPILL SCIENCE

SEA GRANT PROGRAMS OF THE GULF OF MEXICO

Sharing Oil Spill Science

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Oil Spill Science – Outreach Team



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Oil Spill Science – Outreach products

Sharing peer-reviewed, published science

- Science outreach publications
 - Focused on science topics identified by our audiences

- Fisheries management
- Seafood testing
- Series about dispersants
- Frequently asked questions
- Oil on our beaches
- Fish health
- Impacts on fisheries



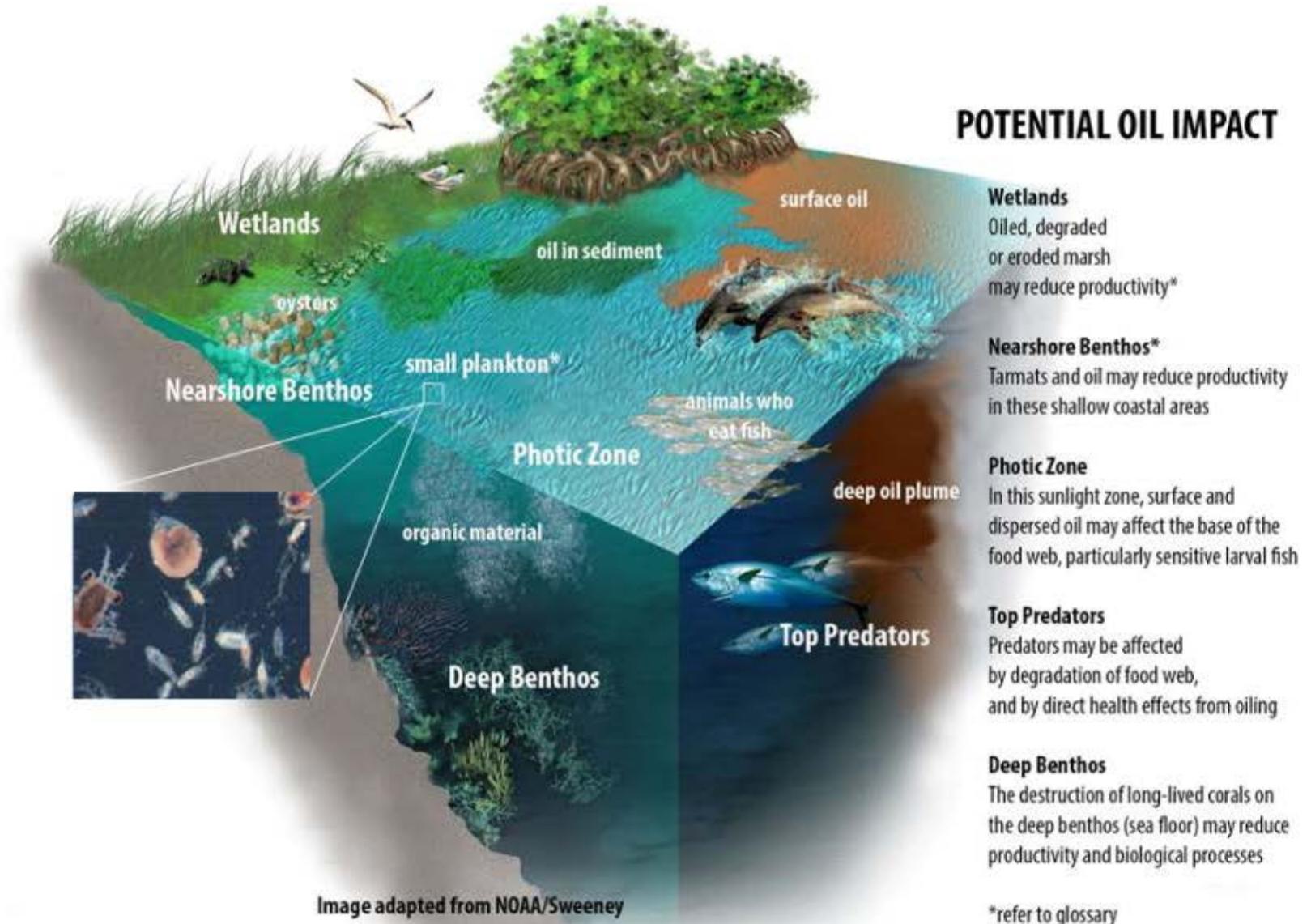
Oil Spill Science – Outreach products

Sharing peer-reviewed, published science

- Science seminars & input sessions
 - Presentations by experts
 - Continue to identify needs of coastal audiences



Ecosystem Impact



Impacts to sea turtles



Total Sea Turtle Injury Quantification

35,000 hatchlings
55,000 – 160,000 small juveniles
+ 4,900 – 7,600 large juveniles/adults

94,900 to 202,600 lost turtles

(Includes Kemp's ridley, loggerhead, green, hawksbill, unidentified)

Source: NRDA

Wildlife & Fisheries: birds



Total Avian Injury Quantification

51,600 - 84,500 birds (direct result of spill)
+ 4,600 - 17,900 fledglings (lost reproduction)

56,100 to 102,400 lost birds
(93 different bird species)



High mortality

- Brown and white pelicans
- Double-crested cormorants
- Audubon's shearwaters
- Northern gannets
- Clapper rails
- Black skimmers
- White ibis
- Laughing gulls
- Common loons
- Several species of terns

Source: U.S. Department of the Interior.

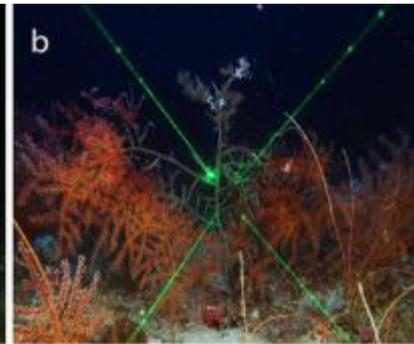
Source: NRDA

Mesophotic coral impacts

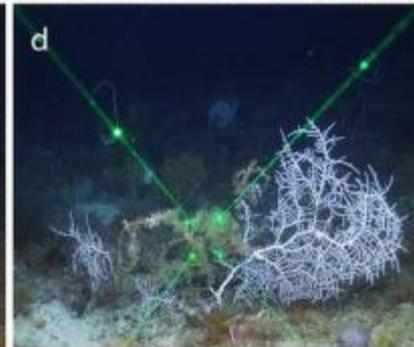
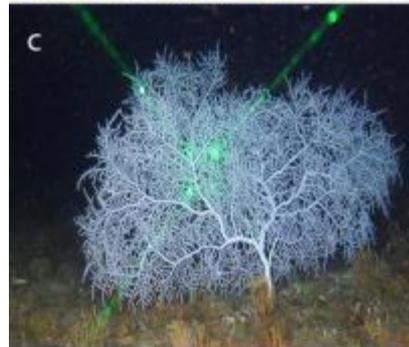
Corals (gorgonian octocorals) experienced quantifiable negative impacts

Healthy in 2011

Injured in 2014



Swiftia exserta

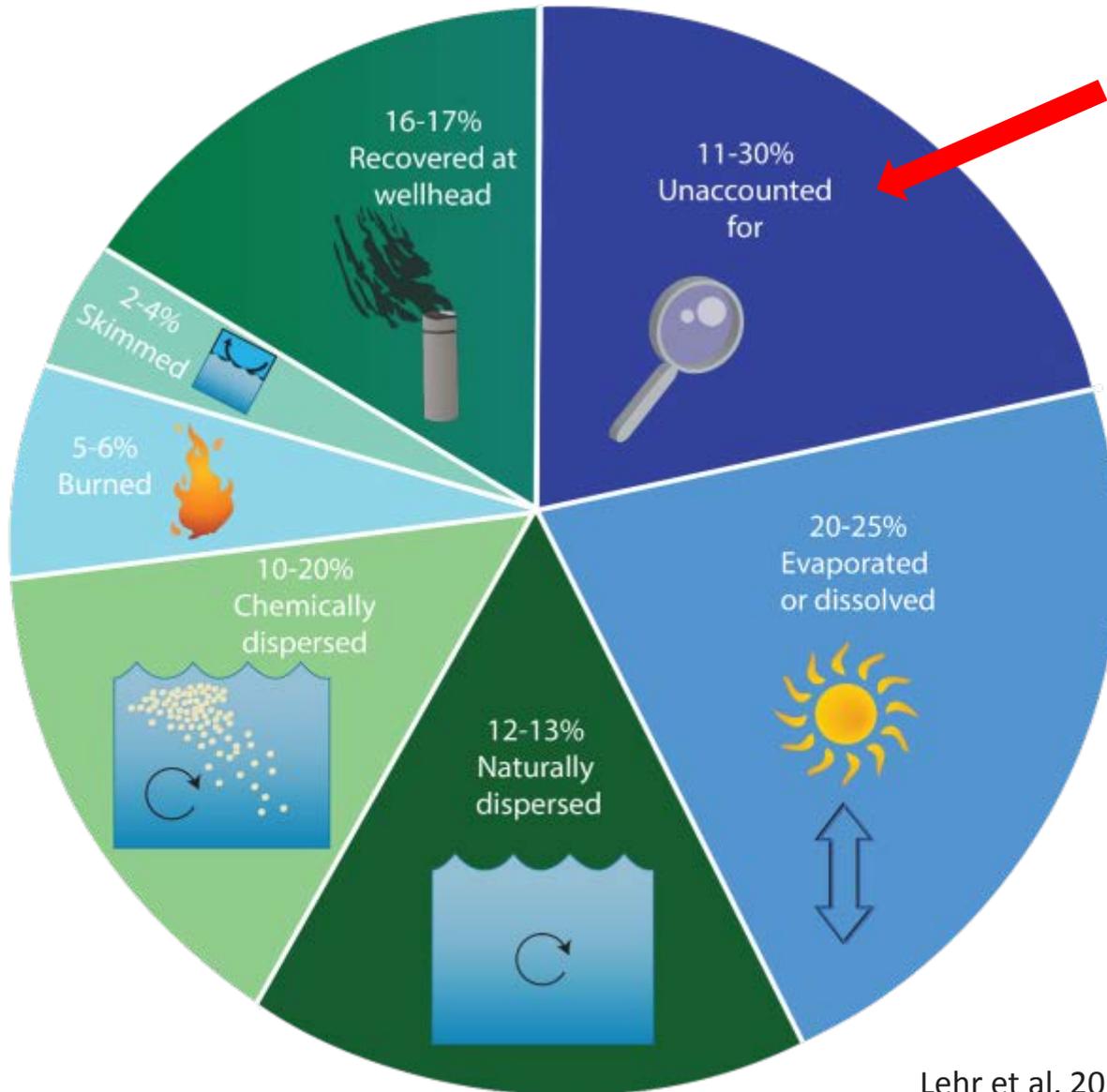


Hypnogorgia pendula



Placogorgia sp.

Oil spill science: Lingering oil



3-5 % on the seafloor:

- 1,200 square miles contaminated
- May remain for a long period of time due to:
 - Cold temperatures
 - Lack of sunlight
 - Low oxygen levels

How can you help??

What do you want to know?

- Oil spill science topics

How do you want us to share the information?

- Outreach publications
- Presentations by experts
- Other ways?

Share your thoughts
(Click here)



Upcoming Events

Seminars:

- **Technology & Deepwater Horizon**

August 30, 2016 – Miami, FL

University of Miami

Rosenstiel School of Marine & Atmospheric Science

- **Building resilient communities: Lessons learned from the Deepwater Horizon oil spill**

September 27, 2016 – Long Beach, MS

University of Southern Mississippi Gulf Park Campus



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Oil Spill Science Seminar and Lab Tour:
TECHNOLOGY + DEEPWATER HORIZON

Tuesday, August 30th, 2016
In-person participation: 8:30 am - 2 pm Eastern
Online participation: 9:18 am Central - 12 pm/11 am Central
University of Miami Rosenstiel School of Marine & Atmospheric Science

Learn about the technology used during the 2010 Deepwater Horizon oil spill. This seminar will consist of speakers and tours of lab facilities that house some of the technology being highlighted.

Refreshments and lunch will be provided for preregistered attendees.

To register or learn more on how to participate online, visit:
<http://gulfseagrant.org/oilspilloutreach/presentations>

TO REGISTER: This seminar is free and open to the public. Register [HERE](#) to attend or view a live streaming of the seminar.

QUESTIONS?: Please contact Emily Maung-Douglas with Louisiana Sea Grant at edouglas@lsu.edu or 225.578.9026.

Thank you

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