

NOAA Update

October 2018

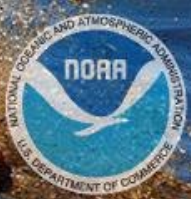
Regional Response Team

Joint Regions 1 & 2

Region One: Steve Lehmann

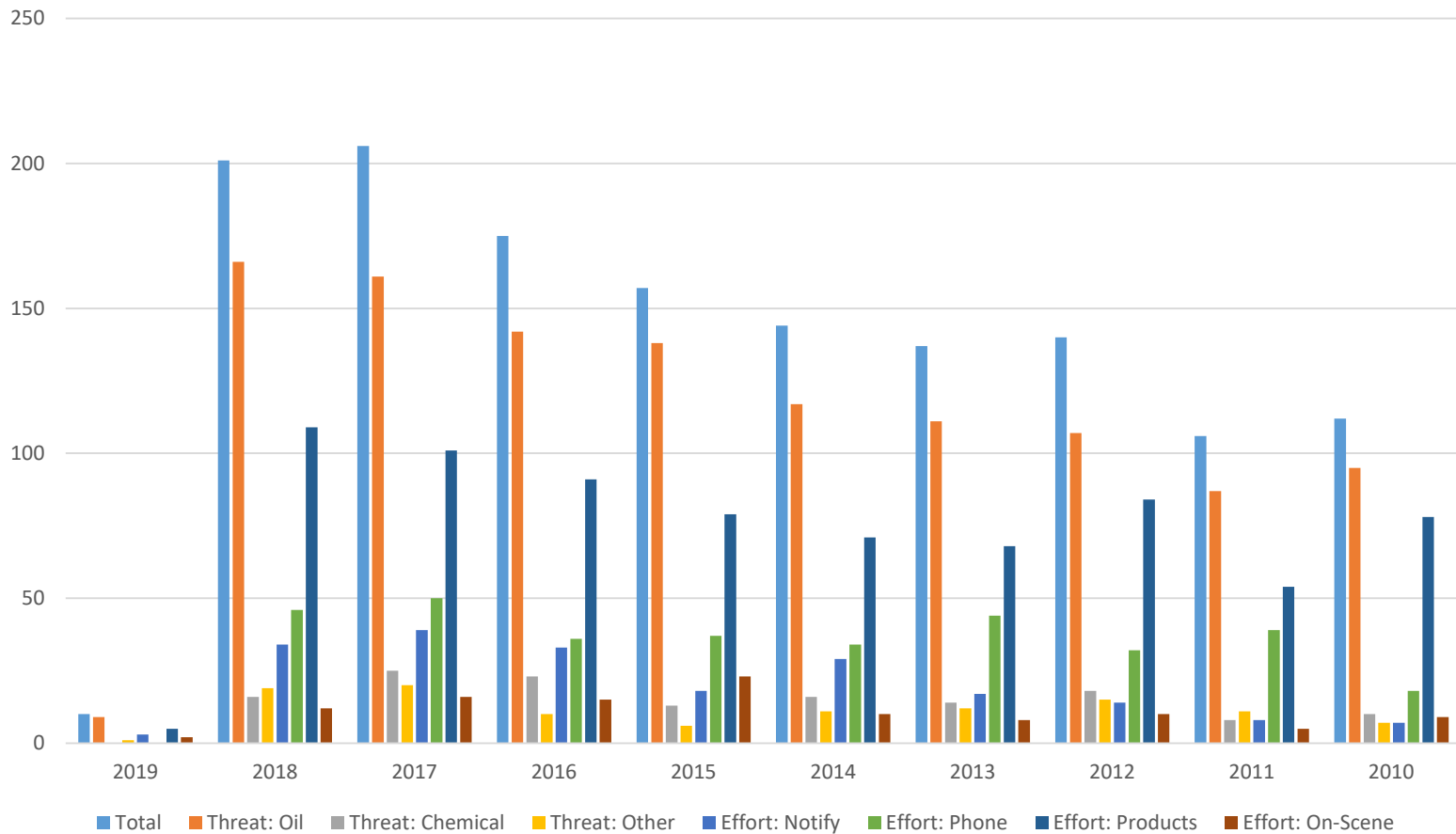
Region Two: Frank Csulak

Alternate Member (1&2) : Ed Levine



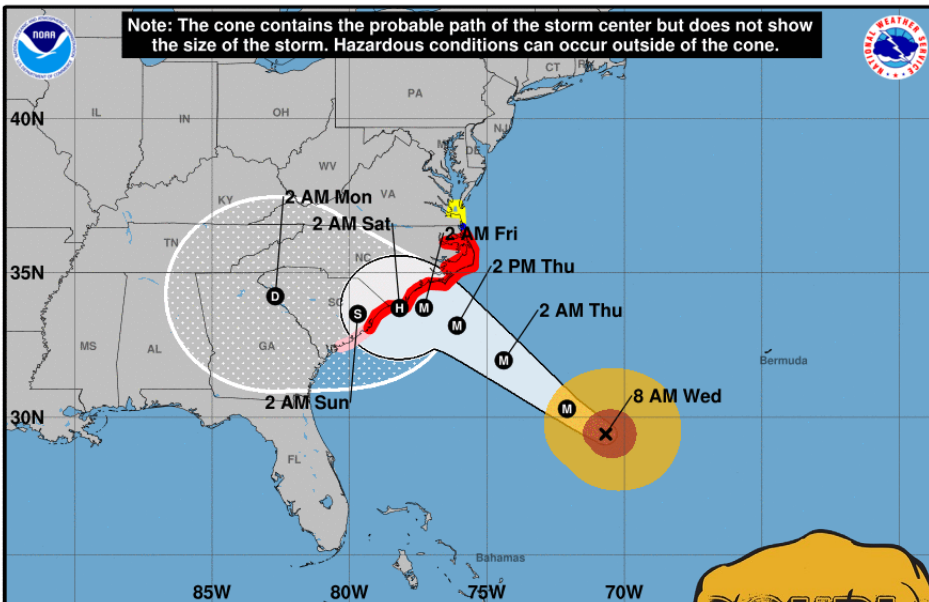
Regional Operations Branch

FY Stats





NOAA Regional Operations Branch ... Deployed

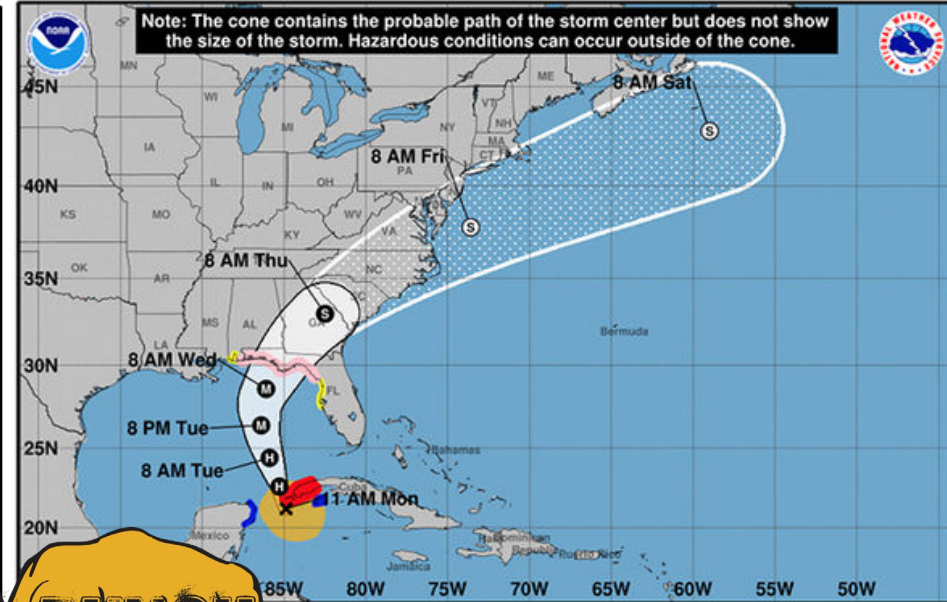
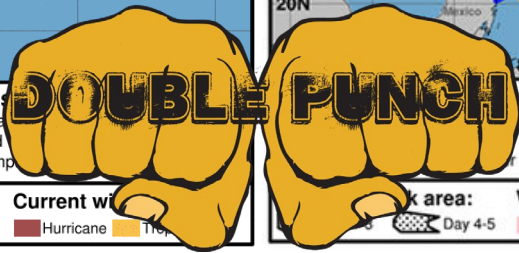


Hurricane Florence
 Wednesday September 12, 2018
 8 AM EDT Intermediate Advisory 52A
 NWS National Hurricane Center

Current information: x
 Center location 29.4 N 70.7 W
 Maximum sustained wind 130 mph
 Movement WNW at 17 mph

Forecast:
 ● Tropical Cyclone
 ● Sustained
 S 39-73 mph

Potential track area: Day 1-3 (solid line), Day 4-5 (dotted line)
Watches: Hurricane (pink), Trop Stm (yellow)
Warnings: Hurricane (red), Trop Stm (blue)
Current wind extent: Hurricane (brown), Trop Stm (orange)



Hurricane Irma
 Wednesday September 12, 2018
 8 AM EDT Intermediate Advisory 52A
 NWS National Hurricane Center

Current information: x
 Center location 21.2 N 84.9 W
 Maximum sustained wind 75 mph
 Movement N at 7 mph

Forecast positions:
 ● Tropical Cyclone
 ○ Post/Potential TC
 Sustained winds: D < 39 mph
 S 39-73 mph H 74-110 mph M > 110 mph

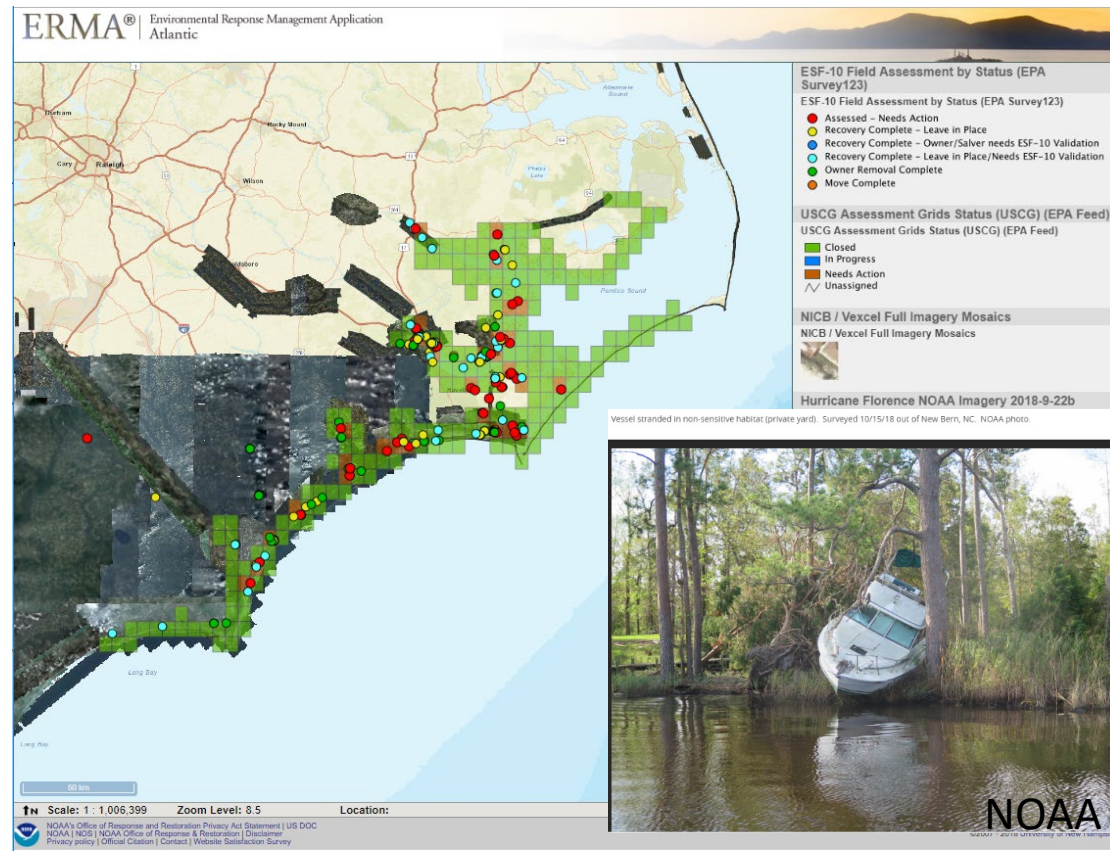
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Our thanks to:

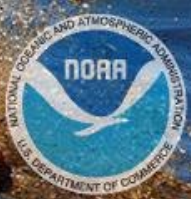
All who have responded, are still responding, will respond in the future, supported the response, or have been affected by the storms.....

ERMA as the USCG's Common Operational Picture

Interagency Agreement (IAA) between USCG (CG-MER) and NOAA (ORR) standardizing the use of ERMA as the Common Operating Picture for USCG-led training, exercises, and responses to discharges of oil and releases of hazardous substances, pollutants, and contaminants.



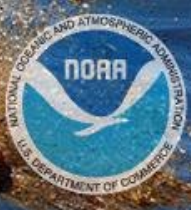
Field Surveys, Assessment Grids,
High-resolution image mosaics



Gulf of Maine Post-Oil Spill Fisheries Management



© Alaska Fish and Game



Surface Washing Agent Pre-Authorization Proposal

Working Group (USCG, EPA, NOAA, MA, RI)

GOAL: Develop a pre-authorization protocol for the use of surface washing agents and herding agents in specific geographic areas and/or on specific shoreline types.

Deliverables

1. Surface Washing Agent Pre-Authorization Agreement
 - a. Developed to the point of presentation to the AC and the RRT
2. Surface Washing Agent use protocol checklist
 - a. Separate from the agreement so that future edits do not require 40CFR300 subpart J signatures
3. Environmental Compliance Documentation (as required)
 - a. Endangers Species Act, section 7
 - b. Essential Fish Habitat
 - c. Marine Mammal Protection Act

Stellwagen Bank National Marine Sanctuary Coordination with Trustees and Resource Managers



The terrifying story of a barge sunk in Stellwagen Bank National Marine Sanctuary filled with deadly fuel oil and ahead of a looming Nor'easter.

Can the barge be salvaged before it breaks apart and wrecks havoc on the Boston Harbor Islands, Cape Cod and elsewhere?

Is there anything stakeholders, trustees and responders can agree on in time?

You'll be on the edge of your seats.

Starring

Captain Gelzer as "FOSC"

Ben Haskell as "Deputy Superintendent"

Ndi Kingsley as "SOSC"

And Introducing

LT Butler as "Planning Section Chief"

Screen Play Steve Lehmann Director Kristi Butler

A Sector Boston Production



Joint Sector Delaware Bay & Maryland-National Capitol Region (NCR) Offshore Lightering Exercise

The purpose of the September 6, 2018, exercise was to examine six mission areas of mitigation and response along with their core capabilities. The exercise objectives were:

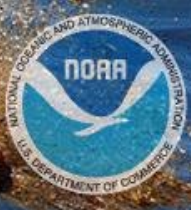
1. For a major offshore spill with trans-boundary implications, identify and discuss the establishment of effective and timely response organizations), to effectively manage command, control, communication, and coordination for a complex and prolonged response.
2. Identify and discuss the mobilization of critical resources for responding in the offshore and coastal environments.
3. Determine if the provisions of the applicable ACP(s) and 1997 RRT III MOU can be understood and executed for the use of chemical countermeasures within the window of opportunity.
4. If chemical countermeasures are used, discuss procedures and requirements for operational application, monitoring for effectiveness, and responder/public health and safety
5. Discuss the recommended course(s) of action for the first 0-48 hours following a major offshore spill, including the timing and logistical implementation of response countermeasures' supply chain, delivery, and observation (as applicable).



Endangered Species Act (ESA) Workgroup:

The ESA Workgroup, under the NRT's National Environmental Subcommittee, recently finalized ESA pre-spill consultation guidance/tools





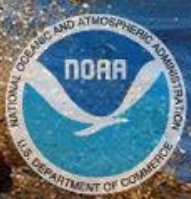
NOAA OR&R: New & on the Horizon

- Arctic/Cold Climate Response Team
- Joint SMART Training with NSF
- New NRT/RRT Designation Letters
- “Leveraging Academia” Workshop

NOAA Fact Sheets: Updates

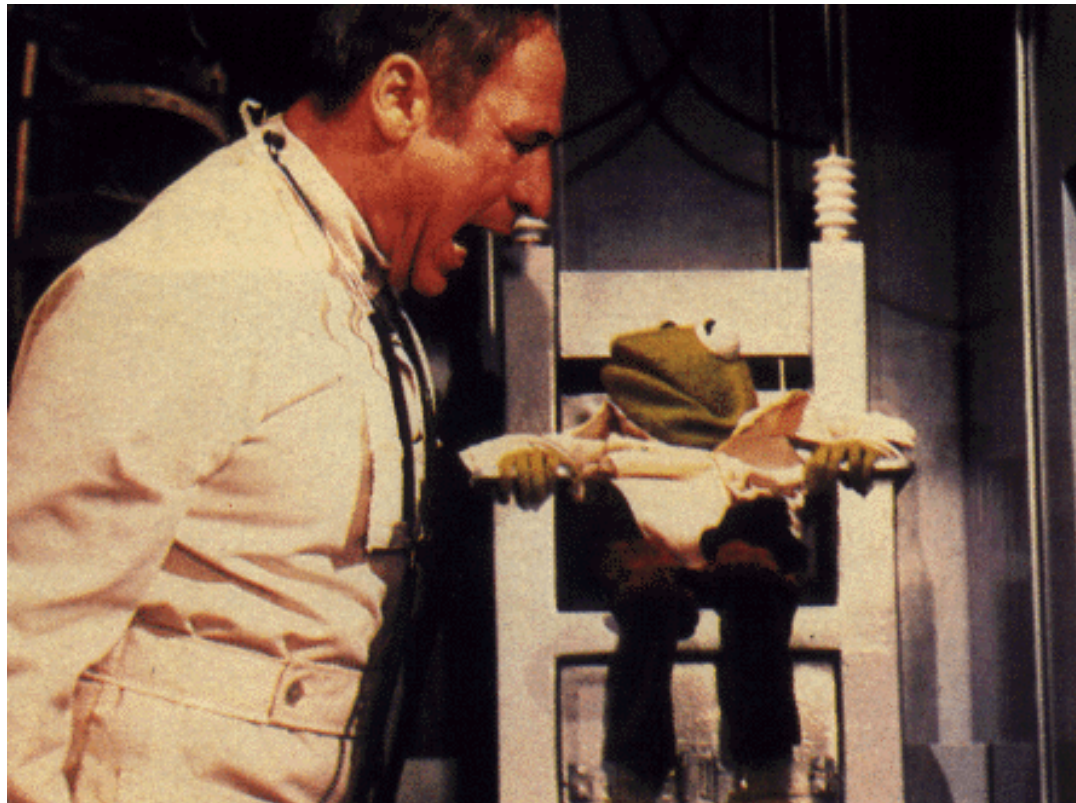
<https://response.restoration.noaa.gov>

- Dilbit Oil Fact Sheet
- Biodiesel Oil Fact Sheet
- Non-Petroleum Oils Fact Sheet
- HFO Fact Sheet
- Diesel Fact Sheet
- Kerosene/Jet Fuel Fact Sheet
- Shale Oil Fact Sheet
- Dielectric Fluids Fact Sheet
- Denatured Ethanol Fact Sheet



Oil Spill Response Research

NOAA OR&R Participation



BSEE-NOAA FY19 Project

“Three-dimensional mapping of dissolved hydrocarbons and oil droplets using a REMUS AUV”

- REMUS 600 Development
 - (fluorescence, back scatter, holographic imaging, camera and water sampler) for comprehensive 3-d hydrocarbon mapping.
- Field trials
- Data outputs and delivery into Common Operational Platform (DIVER, ERMA)



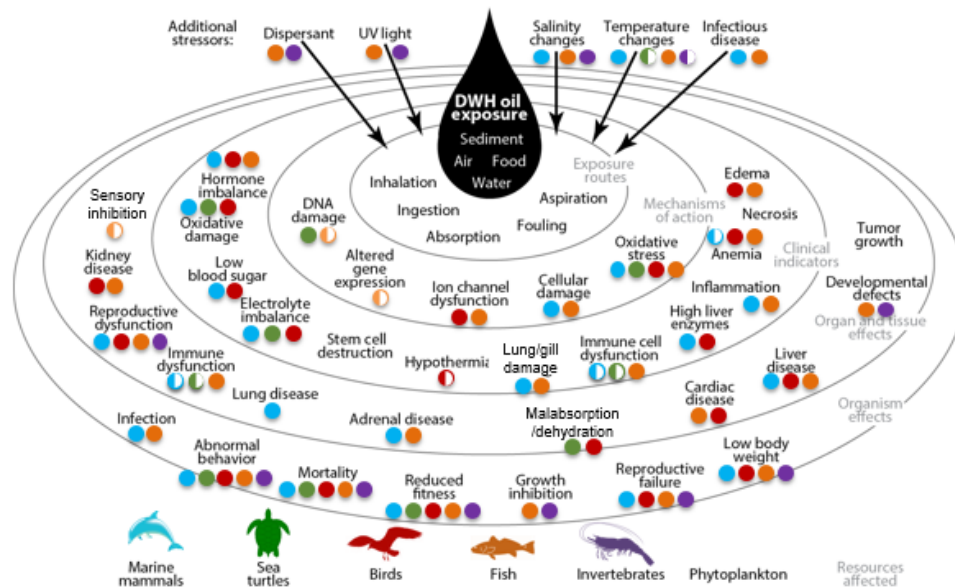


Toxicology of Oil in Vertebrates: From Fish to Humans

October 23-25 Boulder CO

CARMMHA, NOAA, Others

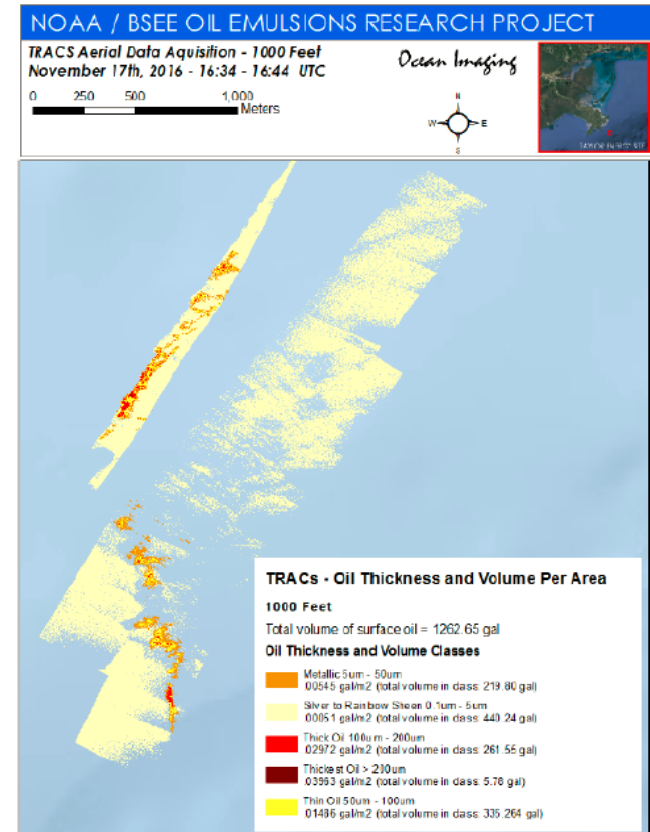
Physiological Oil Response Constellation



BSEE/NOAA: Deepwater Horizon Lessons Learned Studies and Operational Tools Development:

Detection of Oil Thickness and Emulsion Mixtures using Remote Sensing Platforms

Figure 3.12. Ocean Imaging's classification of the November 17, 2017 oil slick at MC20.



Source: Ocean Imaging, 2017, Appendix B.1 (see Attachment F).

Three Phase Project

Phase 1: Controlled Tank Testing at the BSEE Ohmsett facility in Leonardo, NJ

Phase 2: Open Water Testing at an ongoing leaking well field in the Gulf of Mexico

Phase 2a - smaller tank testing at FSU

Phase 3: Development of operational tools for response and damage assessment with NOAA NESDIS

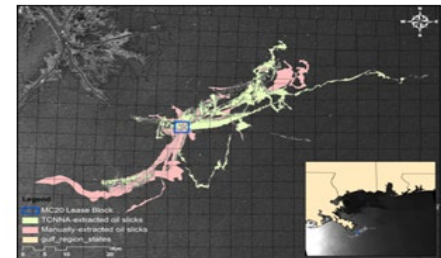
Status: Final Report “in review”

Controlled Experiment



Ohmsett is the premier testing facility for oil spill response

Marine Validation



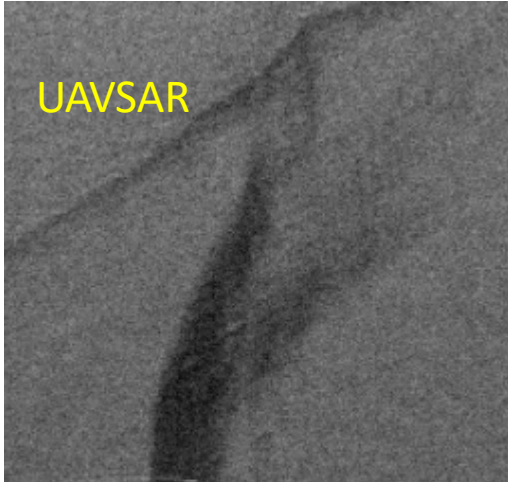
Methods and Implementation



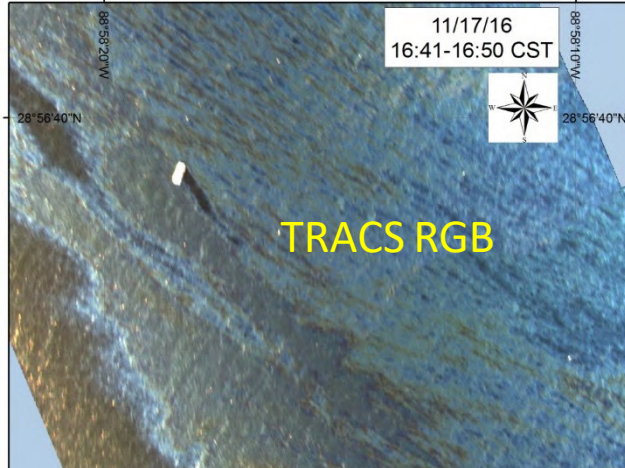
Comparing Remote Sensing Products

(November GOM Imagery Collections)

UAVSAR



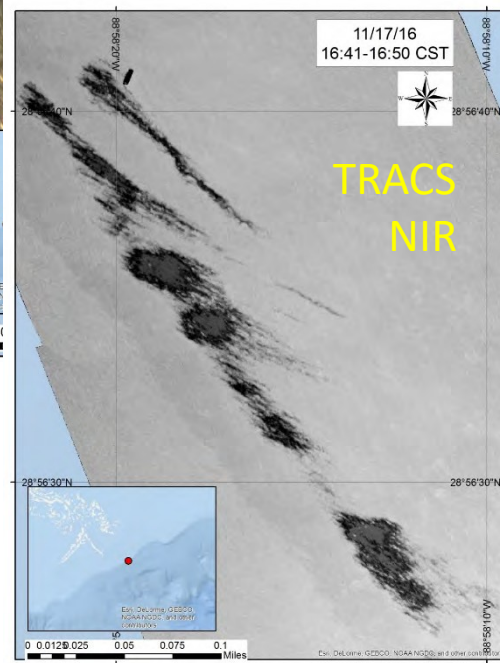
TRACS RGB



Radarsat-2



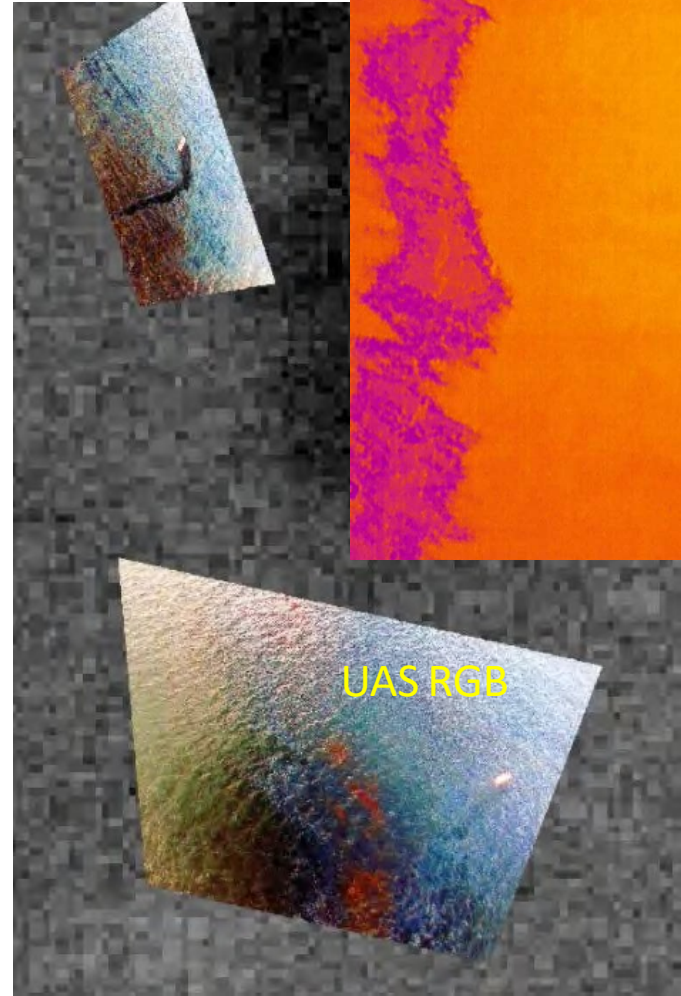
TRACS NIR



UAS NIR



UAS RGB





Questions Complaints

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