

# Spills Advisory Group

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2014 SONS Executive Seminar

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## State-of-the-Science of DDO in Arctic Waters



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## CRRC Website

### The State of the Science for Dispersant Use in Arctic Waters

- Process Described
- Literature Databases
  - LUMCON prior to June 2008
  - CRRC after that
- Final Documents for Efficacy and Effectiveness, Physical Transport and Chemical Behavior, Degradation and Fate, and Ecotoxicity and Sublethal Impacts
- Public Health and Food Safety Panel in final stage reviewing public input



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## Still to Come on Project

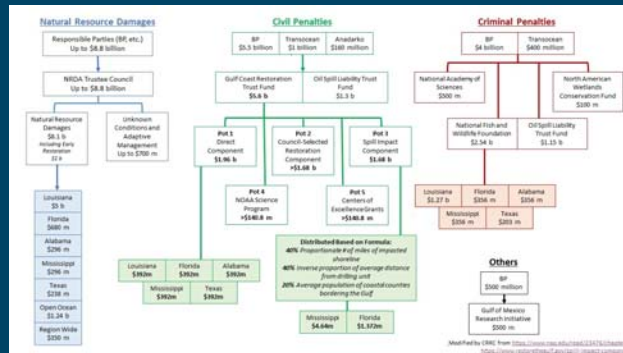
- Workshop - communicating the state of science to the public & others
  - Met with AKRRT in May
  - Briefing meeting with technical experts and PIOs of NRT agencies in December
  - Recommend types of material that would be most effective for communications to public



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# DWH Long-Term Data Management Coordination



# DWH Long-Term Data Management Coordination

- Workshop report on CRRC website
- Working groups
  - Data Standards
  - Interoperability
  - Data discovery/searchability
  - Dec 2018 workshop
  - Coordination with other DWH data management entities



## Leveraging Science and Academic Engagement During Incidents (Scott Lundgren Covered)



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## NOAA Regional Preparedness Training and Workshops (NRPTs)



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## Workshop Objectives

- Assist Disaster Preparedness Program (DPP) in identifying gaps and potential needs in preparedness in a specific region.
- Enhance preparedness from both readiness and research perspective.
- Previous NRPT workshops:
  - Flower Garden Banks (2016, Galveston)
  - Response coordination for pollution response and disaster recover under Stafford Act and OPA (2016, Mobile)
  - Effective risk communications during emergency events (2016, St. Petersburg)
- Upcoming NRPT workshops:
  - Caribbean (Puerto Rico)
  - Norfolk



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## Pacific Islands NRDA Workshop & Training



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## Status

- Pacific Islands/Hawaii
- June/July 2019
- Goal: prepare local agency staff and scientists to initiate and conduct a successful NRDA for oil spill
  - Update since last event (Guam, 2008)
  - Basic NRDA principles
  - Emphasize special management/technical needs for remote locations
  - Emphasis on smaller spills, vessel groundings, coordination of response and NRDA activities
  - NRDA for corals, birds, turtles, and marine mammals.



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## Best Practice Guidance for Coordinated State and Federal Management of Fisheries and Seafood Products Following a Spill



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## Post-Spill Fisheries Management

- New England region (POC: Steve Lehmann)
- Series of conference calls with State responders, NMFS, Sea Grant, FDA, USCG, and Seafood Inspection Program
- Objectives:
  - Develop guidance for pre-impact protection strategies
  - Pre-closure options
  - Closure criteria and predictive methods
  - Stakeholder communication
  - Opening criteria and protocols and partnerships



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## Working Groups



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## Working Groups

- Meet in conjunction with Clean Gulf:
  - SCAT Working Group
  - Dispersant Working Group
  - Submerged Oil Working Group



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## RFQs and Subcontract Research



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## Status

- 3D Mapping of Dissolved Hydrocarbons and Oil Droplets Using a REMUS 600
  - WHOI, Abt Associates
  - Testing in GOM next summer
  - Near real time plume monitoring
- Developing and Field Testing In Situ Bioassays in Surface Mixing Layers of Oil Spill Sites
  - RFQ just closed
  - Discussions with similar EU project (Rob Holland)
- Evaluating the oil Exposure Model for Natural resource Damage Assessment Applications
  - Abt Associates, J. Bonner Clarkson University



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## Toxicity of Oil in Vertebrates GOMRI Synthesis Meeting

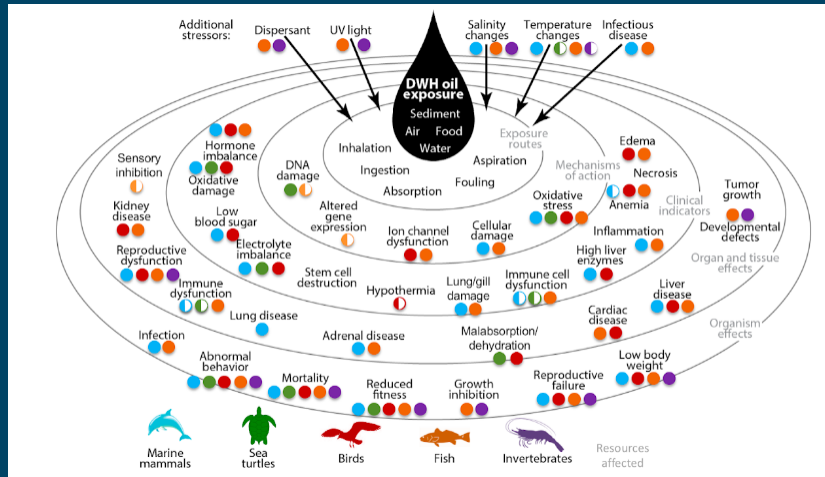
- Research on effects of oil on human health and natural resources
  - Consider cross-taxa commonalities
- Research gaps identified
- Implications for use in NRDA for future spills



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## DWH NRDA Constellation



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## Submerged Oil

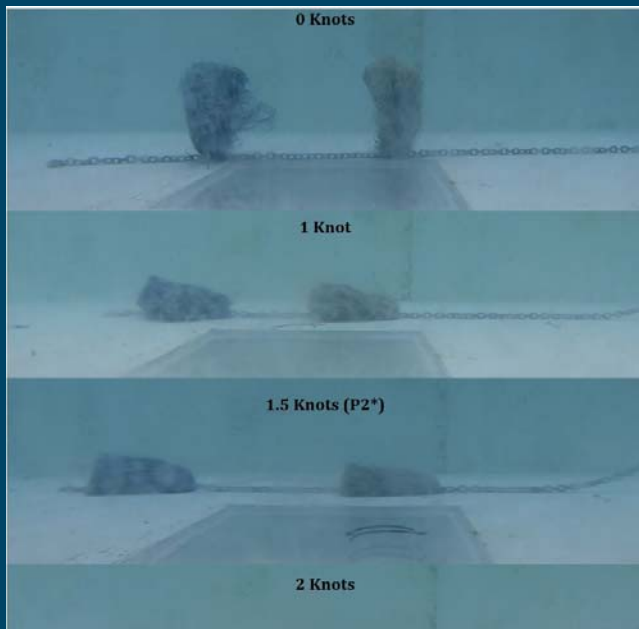


- Three oil types
- Weathered and fresh oils
- Different bottom substrates
- Different water velocities, salinities and temperatures



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# Snare Monitoring and Detection



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- Center for Spills and Environmental Hazards
- Marine snow and oil marine snow interactions in Cook Inlet
- UNH and CI RCAC \$
  - Sue Saupe



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# Thank You for Listening

## Questions???

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