

Coastal Response Research Center Update

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Handouts

- One page description of new 2007 projects
- Table of projects funded to date
- Human dimensions workshop report
- Dispersants forum agenda
- Center regional focus one pager
- Contact information



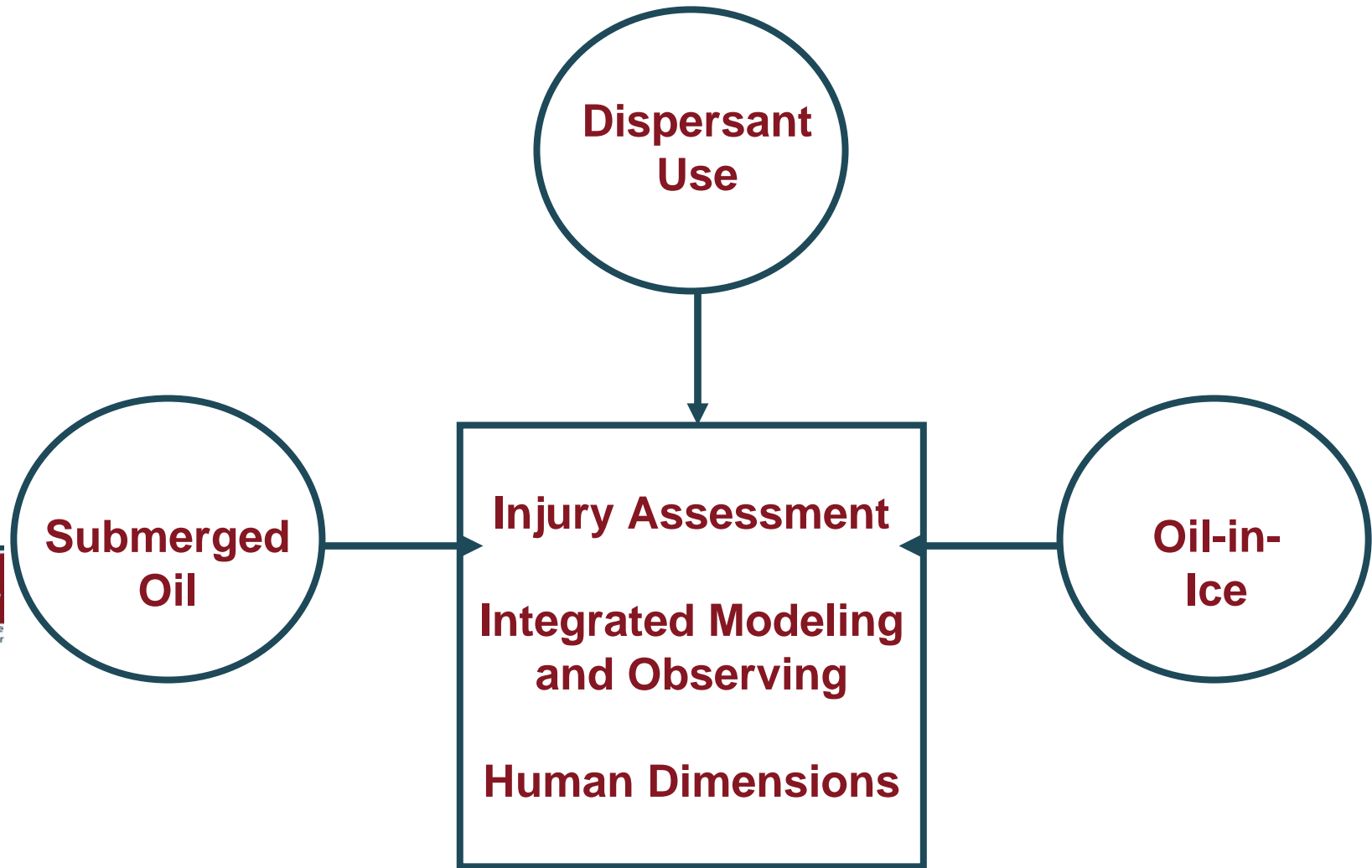
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- On Center website (www.crrc.unh.edu)
 - Current projects, presentations, events, links

Center's Strategic Plan

- 3-5 year horizon starting in 2007
- Three topics of Center focus
 - Dispersant use
 - Submerged oil
 - Oil-in-Ice
- Within each topic, three areas of emphasis
 - Injury Assessment
 - Integrated Modeling and Ocean Observing
 - Human Dimensions



Focus Topics



Dispersant Use

- Dispersants have been Center focus
 - Annual RFP topic
 - Sept 2005 Workshop
 - Center leads Dispersants Working Group (DWG)
- Dispersants emphasis continues because of:
 - Continued DWG efforts pending US Coast Guard (USCG) in-shore dispersant requirements in Spring 2007
 - Many unanswered questions remain



Submerged Oil

- Increase in amount of heavy oils being transported/used in U.S.
- Recent high profile incidents
 - Athos I
 - DBL 152
- Coincides with Congressional actions and USCG initiative



Oil-in-Ice

- Global Warming
- Arctic ice melting → Increased human activity
- Coincides with International Polar Year efforts
- Coincides with SINTEF Joint Industry Program
- Coincides with U.S. Arctic Research Commission concern



Areas of Emphasis Within Topics



Injury Assessment

- Emphasis for NOAA in its role as natural resource trustee
- Unique focus of NOAA/Center vs. other oil spill entities
 - MMS, USCG
- Continued emphasis for Center
 - Annual RFP topic
 - Toxicity Working Group



Integrated Modeling and Ocean Observing

- Integrated modeling focus of Center's Fall 2006 Institute
- Biological integration in physical/chemical spill response and recovery models
- Models are integral parts of dispersant, submerged oil and oil-in-ice topics
- Models need to incorporate ocean observing system information
 - e.g., HF radar, GPS-drifter and drogues



Human Dimensions

- Identified as important during Center's Nov 2003 Research Need Workshop
- Focus of June 2006 Workshop
- Needs to be incorporated into planning, emergency response, damage assessment and long term restoration for spills



Annual Request For Proposals

- Identification of priority research needs
 - Center Strategic Plan
 - Center-hosted research needs workshops
 - Dispersants Working Group (DWG)
- Research needs meetings with NOAA staff occurring in March/April
- RFP released on Center website on May 15



Newly Funded Research

- Dispersion effectiveness and particle size distribution f (turbulence, environmental conditions) [Katz, Johns Hopkins]
 - Digital holographic imaging
- Natural dispersion f (wave energy, long-term weathering) \rightarrow modeling algorithm [Reed, SINTEF]
- HF radar validation (Safe Seas '06) and protocols [Garfield, SFSU]
- Synthesis of restoration scaling methods [Peterson, UNC]



Annual RFP Topics

2006

- Dispersed Oil →
- Submerged Oil →
- Integrating Ocean Observing Systems and Spill Response →
- Uncertainty and Risk Communication
- Habitat Recovery
- Restoration Scaling Methods

2007

- Dispersed Oil
- Submerged Oil
- Integrating Ocean Observing Systems and Spill Response
- ???
- ???
- ???



Dispersants Update

- February 1-2, 2007: Dispersants Research Forum in Redbank, NJ
 - DWG PIs presented current research followed by DWG meeting to assess progress on research needs
 - Which research needs have been addressed and what remains to be answered
 - Now international participation in DWG (e.g., CEDRE, DFO, Env. Canada, SINTEF, UK MCA)



Human Dimensions of Spills Research Needs Workshop

- Topics Discussed:
 - Communication,
 - Valuing natural resources
 - Social impacts
 - Subsistence
 - Environmental ethics
 - Organizational (institutional) behavior
- Date: June 13-15, 2006 at UNH
- Report in today's packets



Other Outreach Initiatives

- Submerged/Heavy Oil Research Needs Workshop
 - December 2006 held jointly with US Coast Guard
 - Topics: Detection and Monitoring; Containment and Recovery; Fate and Effects; Protection of Intakes
 - Report available on website in May 2007
- Coastal/Ocean Observing Systems and Oil Spill Response/Recovery Integration Workshop
 - September 2007



Oil-In-Ice Experiment

- SINTEF and Joint Industry Program conducting “experimental” oil spill in Norwegian waters in 2009
- Numerous physical, chemical and modeling projects
- Center and NOAA will oversee biological component
 - Exposure and effects of oil on sea-ice microbial communities
 - Including biodegradation



CRRC Research Symposium

- Biennial symposium where results of Center-funded projects are presented by PIs
- Free, open to all
- Date/Time: April 19, 2007; 0830 to 1700
- Location: NOAA Sand Point (Seattle,WA)
- Agenda in today's handouts
- Webcast available after April 20
- Presentation slides posted on Center website
- Contact Kathy.Mandsager@unh.edu to attend



www.crrc.unh.edu

- Center Website
 - Projects
 - Proposals
 - Progress reports
 - Final reports
 - Presentations
 - Articles
- Upcoming events/workshops/meetings of interest on spill response, recovery and restoration and related topics
- Center contact information



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