



Center Strategic Plan

Focus Topics

Dispersant Use

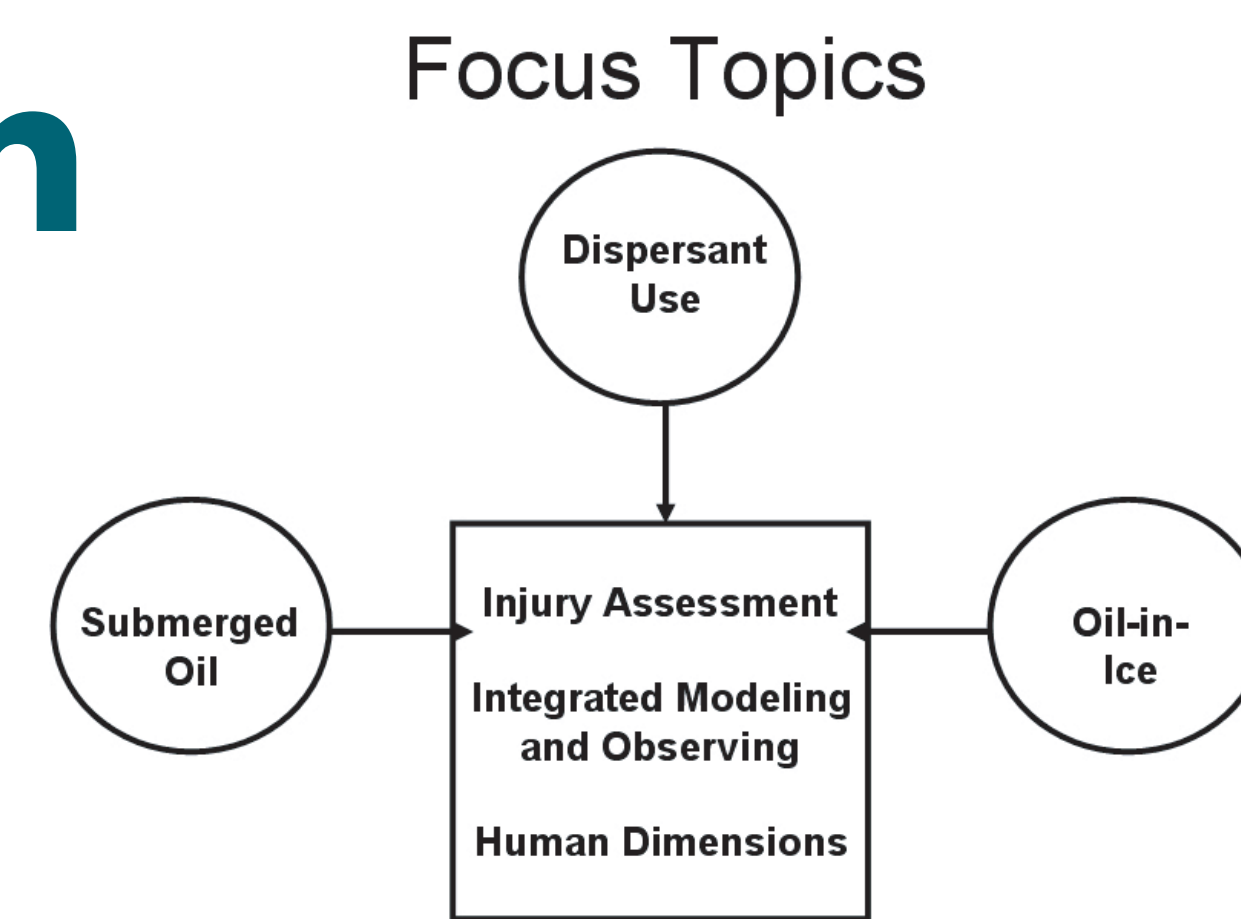
- Continued focus for the Center
 - In Annual RFPs since 2002
 - Workshop @ UNH September 2005
- Dispersants Working Group (DWG) - Center led
 - Goal: integrated research plan on dispersants - making the most of available research funds
 - Efforts pending USCG in-shore dispersant requirements Spring 2007
 - Dispersants Research Forum February 2007

Submerged Oil

- Increase in amount of heavy oils being transported/used in U.S.
- Recent high profile incidents
 - Athos I in Delaware River
 - DBL 152 in Gulf
- Coincides with Congressional actions and USCG initiative
- UNH/NOAA have excellent research capabilities in coastal and ocean mapping - JHC/CCOM
- Center's research needs workshop held at UNH December 2006

Oil-in-Ice

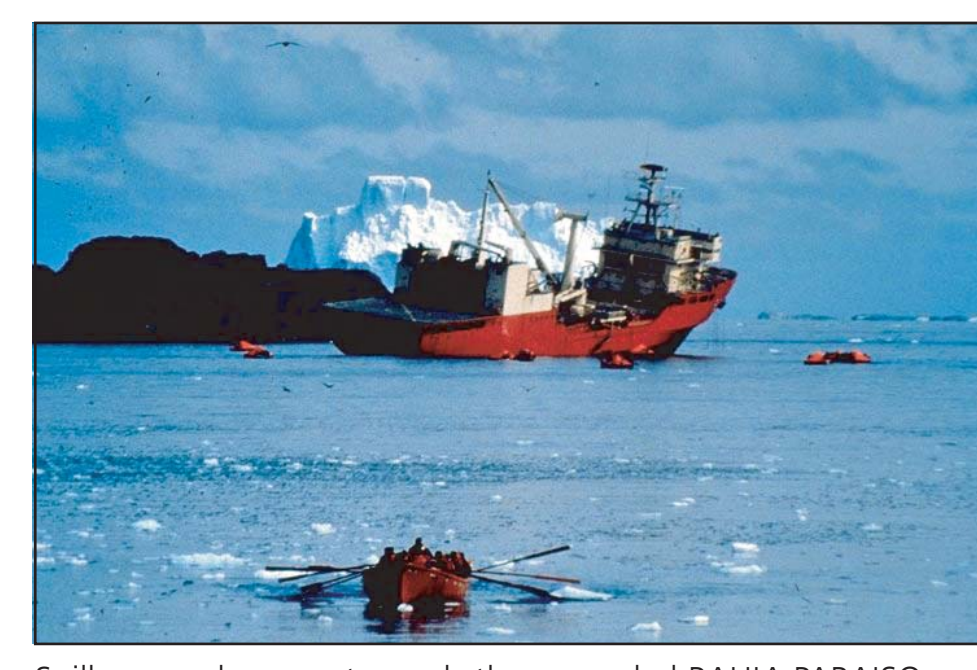
- Global warming/climate change
- Arctic ice melting, increased human activity
- Coincides with International Polar Year efforts
- Coincides with SINTEF Joint Industry Program
- Coincides with U.S. Arctic Research Commission concern



Xenia polyps prepared for use in a Center-funded project examining the long-term effects of dispersed oil.



Barge DBL-152 on November 11, 2005 after impact with an oil rig sunk by Hurricane Rita.



Spill responders row towards the grounded BAHIA PARAISO where she sits grounded leaking diesel fuel into the pristine ecological environment of Antarctica, January 1989.

Areas of Emphasis within Each Topic

Injury Assessment

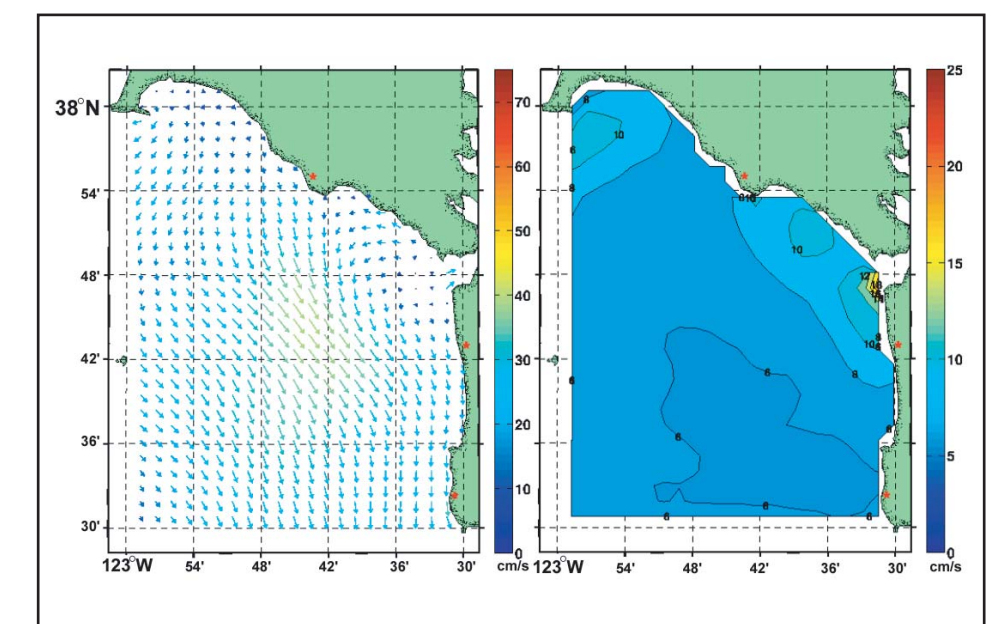
- Emphasis for NOAA in its role as natural resource trustee
- Unique focus of NOAA/Center vs. other oil spill entities (e.g., MMS, USCG)
- Continued emphasis for Center
 - Annual RFP topic since 2002
 - Toxicity Working Group
 - Toxicity Summit in Seattle August 2006

Integrated Modeling and Ocean Observing

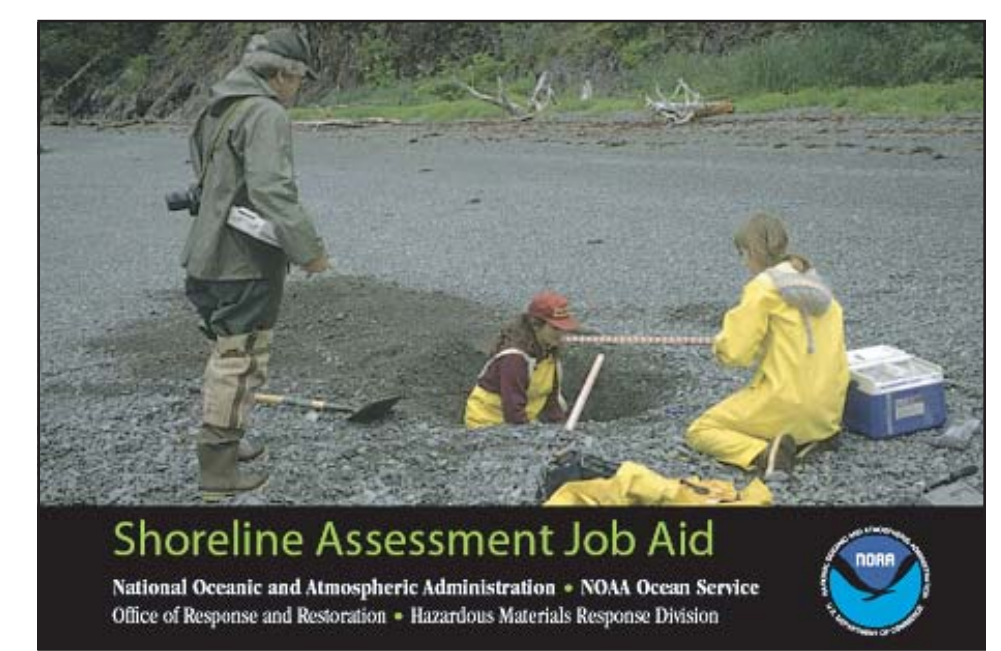
- Fall Institute on integrated modeling @ UNH September 2006
- Add Biological end points to physical/chemical spill response and recovery models
- Models need to incorporate/interface with ocean observing information (e.g., HF radar, GPS-drifter and drogues)
- 3-D components to models
- Center to host workshop on coordinating IOOS capabilities with spill response, September 2007

Human Dimensions

- Identified as priority during Center's November 2003 R&D workshop
- Focus of Center's June 2006 research needs workshop
- Incorporate into planning, emergency response, damage assessment, and long-term restoration for spills
- ERD currently moving forward on this (Andrew Light, Igor Linkov, Duane Gill)

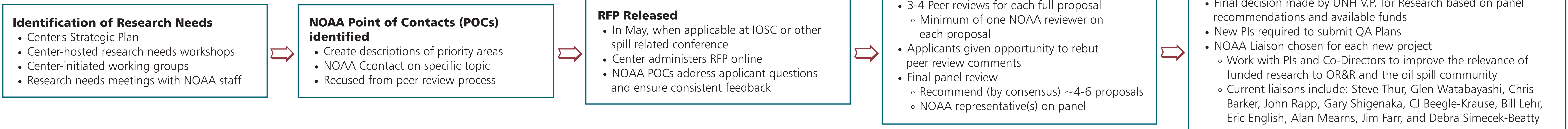


Analyzed surface current map from Safe Seas 2006 (left) together with the propagated speed error estimate for the same time period (right).



Mississippi River near Boothville, Louisiana, showing damage resulting from Hurricanes Katrina and Rita.

Creation of a Request for Proposals (RFPs)



Other Interactions/Opportunities for the Center and NOAA

International Partnerships/Interactions

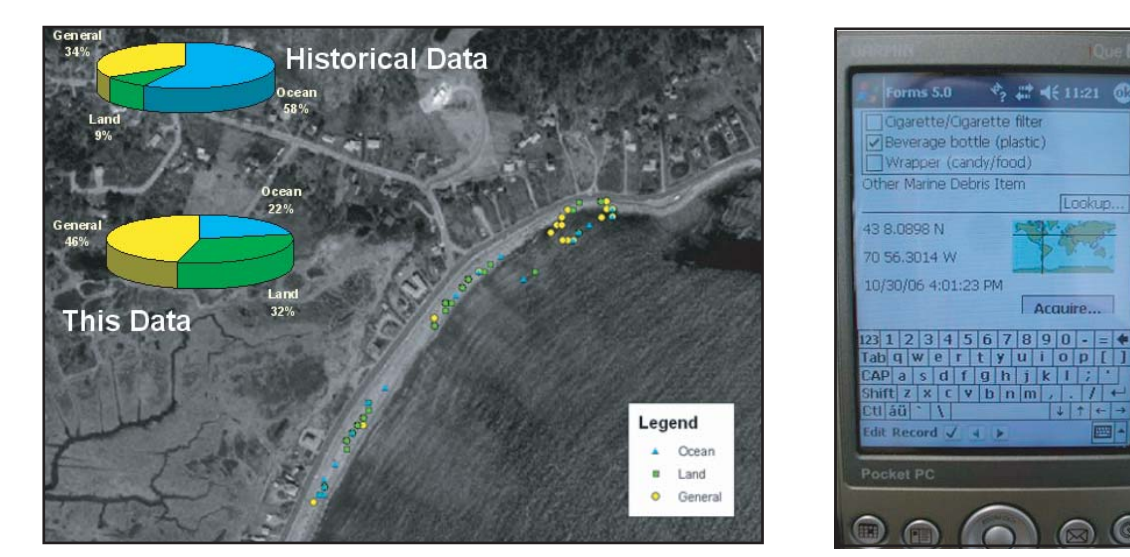
- SINTEF
- CEDRE
- OSRL & MCA
- ITOPF
- IMO
- Environment Canada
- DFO



Center Co-Director Nancy Kinner on a recent site visit to SINTEF. Left to right: Hanne Greff Johnsen (Statol ASA), Co-Director Nancy Kinner, Mark Reed (SINTEF), and Sören Johansen (SINTEF). Reed and Johansen are investigators on a 2007 Center-funded project.

OR&R Special Projects

- Center funds "NOAA Sabbaticals" at UNH or other Center-funded university/facility
- Unique professional development opportunity for OR&R staff
- Center funds up to 6 weeks of salary, associated travel, materials and equipment for selected OR&R staff
- 2 awards of up to \$20K each annually



International Coastal Cleanup (ICC) data collected on September 16, 2006 at Foss Beach, NH (left). Marine debris data was captured using a hand held PDA with GPS (right).

Educational Initiatives

- Summer Internships with NOAA
 - Program "tested" in 2005 with C. Henry
 - In 2008, up to 5 students will be funded to work with OR&R staff
- Ph.D. program
 - Center funds Ph.D. students who collaborate with NOAA scientists
- Unique opportunity for students to gain real world experience and learn about NOAA
- Opportunity for NOAA to contribute to the education of the next generation of scientists
- NOAA staff professional development
 - ERD and ARD Fall institutes
 - NOAA Summits (e.g., Toxicity Summit, August 2006)
 - Center-funded research symposia (every 2 years, Seattle April 2007)



Whitney Blanchard participates in training exercises with a U.S. Coast Guard representative during her 2005 internship with NOAA.