NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE

National Status and Trends Program

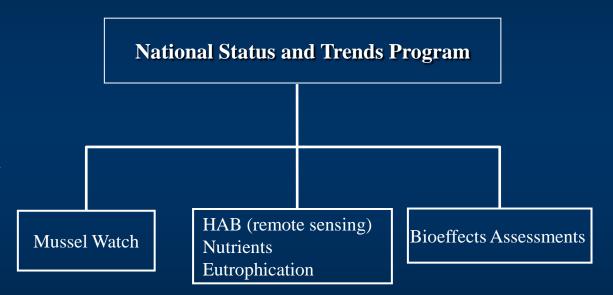
Deep Water Horizon Oil Spill Response





National Status and Trends Program Deep Water Horizon oil Spill Response

Mission Statement: to monitor, research and assess the environmental quality and pollution of U.S. coastal waters to support NOAA's coastal stewardship mandate.



NOAA National Status & Trends Program:

Bioffects Program at a Glance

Sediment Quality Triad Integrated Assessment









Measures of Stressors Chemical Analyses



Resident Communities Benthic Community Analysis

NOAA National Status & Trends Program:

HAB Forecasting Program at a Glance

- •Forecast & Track bloom
- •Respond to unusual mortality events
- •Assess eutrophication



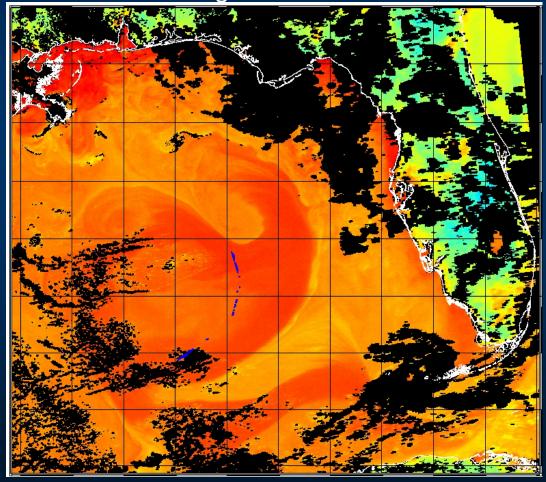
Regional HAB research

- Gulf of Mexico
- Great Lakes
- Northeast
- Pacific Coast
- Mid-Atlantic /Southeast

National Status and Trends Program

Deep Water Horizon oil Spill Response

Oil forecasting in the Gulf



Oil blue over satellite SST imagery to identify circulation

NOAA National Status & Trends Program:

Mussel Watch Program at a Glance



300 Sites nationwide – 1/2 monitored annually

Stations 20 km apart in estuaries, 70 km along open coast

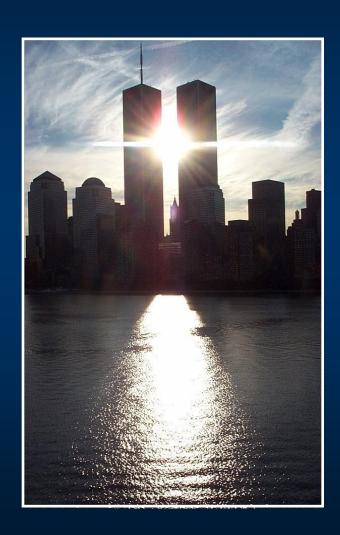
150 contaminants routinely monitored in indigenous bivalve populations

Nations longest running coastal contaminant monitoring program (24 years)

NOAA National Status & Trends Program

Response – Special Events

- Exxon Valdez (1995) 6 sites sampled once in the Gulf of Alaska
- Pribilof Is., St. Paul (2000) 4 sites sampled once; 3 for high PAHs one reference site
- World Trade Center (2001 and 2004) 7 sites; 5 sites closer to WTC than HRUB (Statue of Liberty)
- North Puget Sound oil spill (2003) 2 sites
- Delaware Bay oil spill (2004/2005) –
 Standard MW sites collected, also collected by state agencies
- Gulf Coast Hurricanes Katrina and Rita (Sep. 24 – Oct. 4, 2005)



NATIONAL CENTERS FOR COASTAL OCEAN SCIENCE

National Status and Trends Program

Deep Water Horizon oil Spill Response

R/V Ocean Veritas

- 26 sites
- CTD casts
- Fluorescence data
- Water chemistry
 - Oil compounds
 - •PAHs, VOCs
 - Organics
 - Dispersant

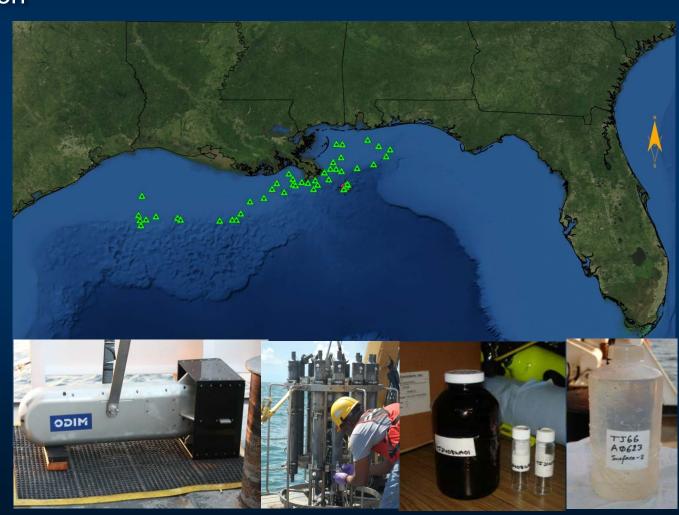


National Status and Trends Program

Deep Water Horizon oil Spill Response

NOAA Thomas Jefferson

- 48 sites
- CTD casts
- •MVP
- Acoustic
 - Fluorescence
 - Salinity
 - •DO
- Water chemistry
 - •Oil compounds
 - •PAHs, VOCs
 - Organics
 - Dispersant



National Status and Trends Program

Deep Water Horizon oil Spill Response

- Water chemistry
 - •Oil compounds
 - •PAHs, VOCs
 - Organics
- Sediment chemistry
- Sediment Bioeffects
 - Benthos
 - Toxicity
- Oyster chemistry
- Oyster histopathology





