

Interagency Coordinating Committee on Oil Pollution Research (ICCOPR)



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U.S. Coast Guard Headquarters
Office of Marine Environmental Response Policy

CA OSPR/Chevron Oil Spill Response Tech Workshop
February 26, 2019
San Ramon, CA

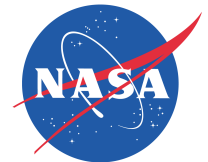
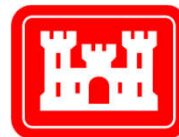


Interagency Coordinating Committee on Oil Pollution Research

- Oil Pollution Act of 1990, and 33 U.S.C. 2761
- 15 Agency Members
- Collaborative approach to address federal research needs



ICOPR Website: www.dco.uscg.mil/iccopr



ICCOPR Activities

- **Quarterly and Special Meetings**
 - Topical research presentations
 - Member R&D Updates
- **Opportunities for member collaborations**
 - Remote Sensing for Oil Detection & Characterization
 - Testing at OHMSETT, JMTF, CRREL
 - Autonomous Underwater Vehicles
- **Outreach Efforts**
 - IOSC, Interspill, SpillCon, etc.
 - NAS Gulf Research Program, GoMRI, Sea Grant, etc.
 - Outside presentations, workgroups, etc.
- **Biennial Reports to Congress**
- **GAO Audit**

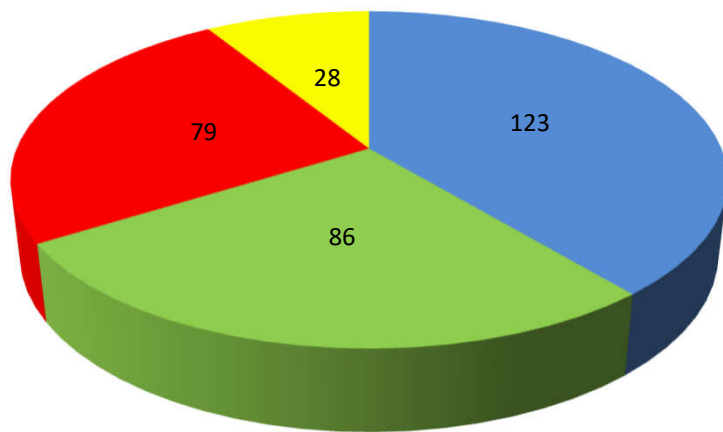
Oil Pollution Research and Technology Plan (OPRTP)



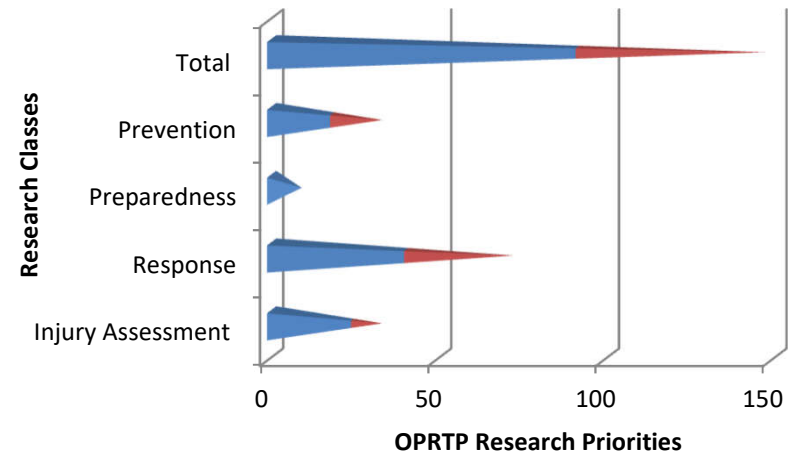
Prevention	Preparedness	Response	Injury Assessment and Restoration
<ul style="list-style-type: none"> • Human Error Factors • Offshore Facilities & Systems • Onshore Facilities & Systems • Waterways Management • Vessel Design • Drilling • Rail/Truck Transport • Pipeline Systems <div data-bbox="163 1040 489 1365" style="text-align: center;"> </div> <p data-bbox="113 1386 495 1446">ICCOPR Standing Research Areas (SRAs) as of September 29, 2015</p>	<ul style="list-style-type: none"> • Pre-spill Baseline Studies • Response Management Systems 	<ul style="list-style-type: none"> • Structural Damage Assessment and Salvage • At Source Control and Containment • Chemical and Physical Behavior Modeling • Oil Spill Detection and Surveillance • In- and On-water Containment and Recovery • Shore Containment and Recovery • Dispersants • In-situ Burning • Bioremediation • Alternative Chemical Countermeasures • Oily Waste and Oil Disposal 	<ul style="list-style-type: none"> • Environmental Impacts and Ecosystem Recovery • Environmental Restoration Methods and Technologies • Human Safety and Health • Sociological and Economic Impacts

150 Priorities – How Are We Doing?

of Projects by Research Class



- Prevention
- Preparedness
- Response
- Injury Assessment



- Research Priorities w/ Projects
- Research Priorities w/out Projects

Fiscal Years 2016-2017

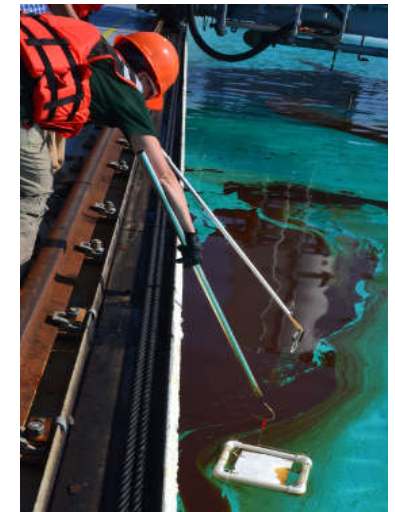
Next Steps...



The National
Academies of

SCIENCES
ENGINEERING
MEDICINE

NRT THE U.S.
NATIONAL
RESPONSE TEAM



 Gulf of Mexico
OIL SPILL & ECOSYSTEM
SCIENCE CONFERENCE 2018

Coast Guard R&D Efforts

Recently Completed Projects

- Equipment Surge Risk Assessment Tool
- Oil Spill Response Emerging Technology Research
- Shale Oil and Gas Preparedness and Response
- Response to Oil in Ice
- Detection and Mitigation of Oil in the Water Column

Current Projects

- Oil Sands Products Spill Response
- Nearshore and Inland Estimated Recovery System Potential (ERSP) Calculator
- VOSS/SORS Market Research
- Improved In-situ Burning for Offshore Use

Coast Guard R&D Efforts

Arctic Domain Awareness Center – DHS S&T COE

- Development of Propeller Driven Long Range Autonomous Underwater Vehicle (LRAUV) for Under-Ice Mapping of Oil Spills and Environmental Hazards
- Arctic Oil Spill Modeling
- Oil Spill Modeling for Improved Response to Arctic Maritime Spills
- Mitigating the Damage to Arctic Copepods from Surface Oil Spills: When to Apply Dispersants
- Photo-enhanced toxicity of dispersed and burned crude oil to Arctic mussels

Thank You!



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(202) 372-2269

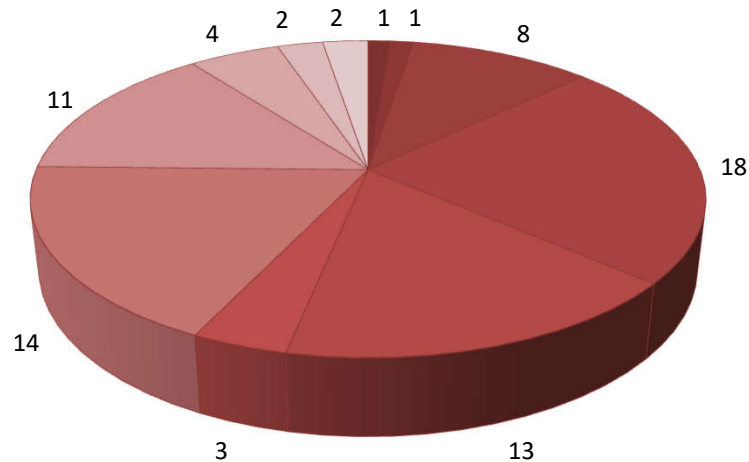


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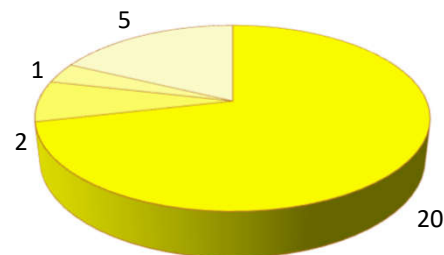
150 Priorities – How Are We Doing?

Projects in **Response** Research Class SRAs



- Structural Damage Assessment and Salvage
- At Source Control and Containment
- Chemical and Physical Behavior Modeling
- Oil Spill Detection and Surveillance
- In- and On-water Containment and Recovery
- Shore Containment and Recovery
- Dispersants
- In-situ burning
- Alternative Counter Measures
- Oil and Oily Waste Disposal
- Bioremediation

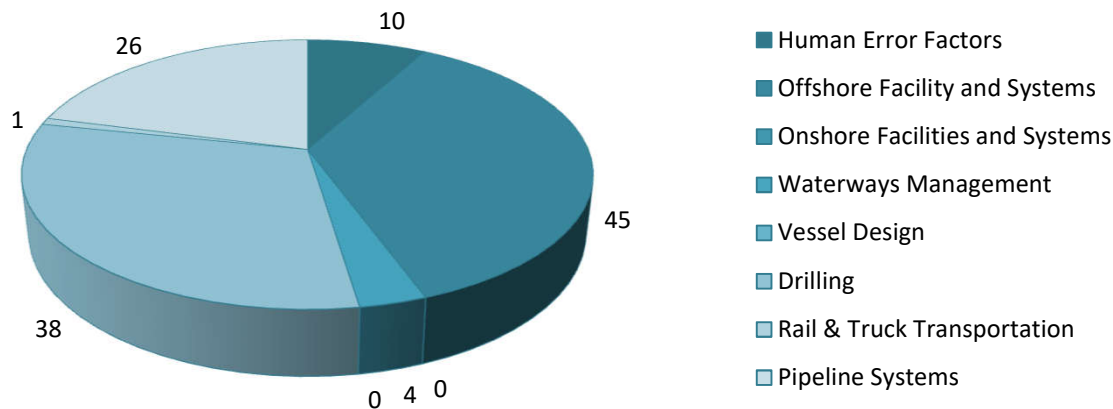
Projects in **Injury Assessment and Restoration** SRAs



- Environmental Impacts and Ecosystem Recovery
- Environmental Respiration Methods and Technologies
- Human Safety and Health

150 Priorities – How Are We Doing?

Projects in **Prevention** Research Class SRAs



of Projects in **Preparedness** Research Class SRAs

