NOAA Marine Debris Program Emergency Response Mission

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NOAA Marine Debris Program

Established in 2006 by Congress as the federal lead for marine debris

Vision: the global ocean and its coasts free from the impacts of marine debris

Mission: to investigate and prevent the adverse impacts of marine debris









or abandoned into the marine environment or the Great Lakes."





Both CHRONIC...

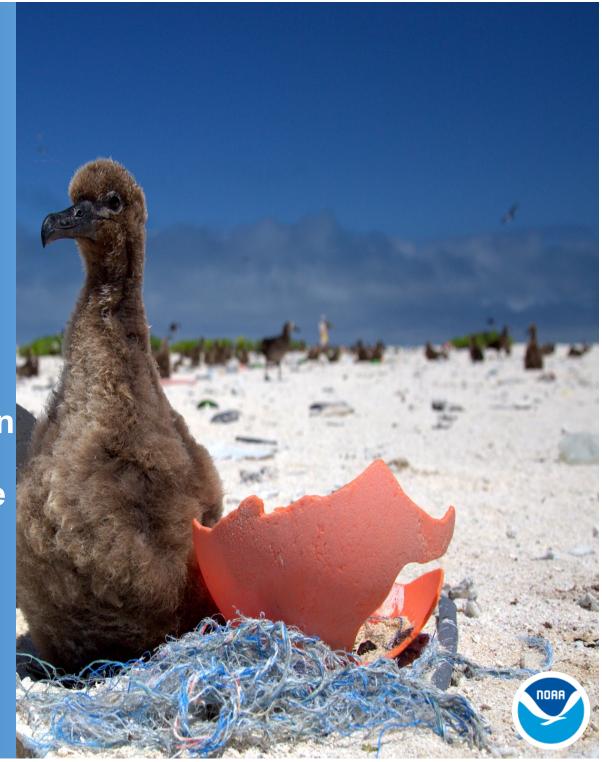
- Littering
- Storm Drains
- Illegal Dumping
- Fishing/Boating Activities
- Offshore Industry
- Aquaculture





Program Pillars

- Prevention
- Removal
- Research
- Regional Coordination
- Emergency Response
- International Engagement



Program Pillars

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MDP: Response History

Case-by-case:

- Hurricanes Katrina and Rita (2005)
- American Samoa Tsunami (2009)
- Japan Tsunami (2011)
- Super Storm Sandy (2012)
- Hurricanes Harvey, Irma, and Maria (2017)
- Hurricanes Florence, Yutu, and Michael (2018)

Funding and support for:

- Mapping and surveying
- Risk assessments
- Model trajectories
- Remove debris





MDP: Response History

2012: Amendments to the Marine Debris Act

Includes specific language on response mandate

2014: Regional Response Planning Project

Working with relevant agencies to create Regional Response Guides

Marine Debris Response Guides

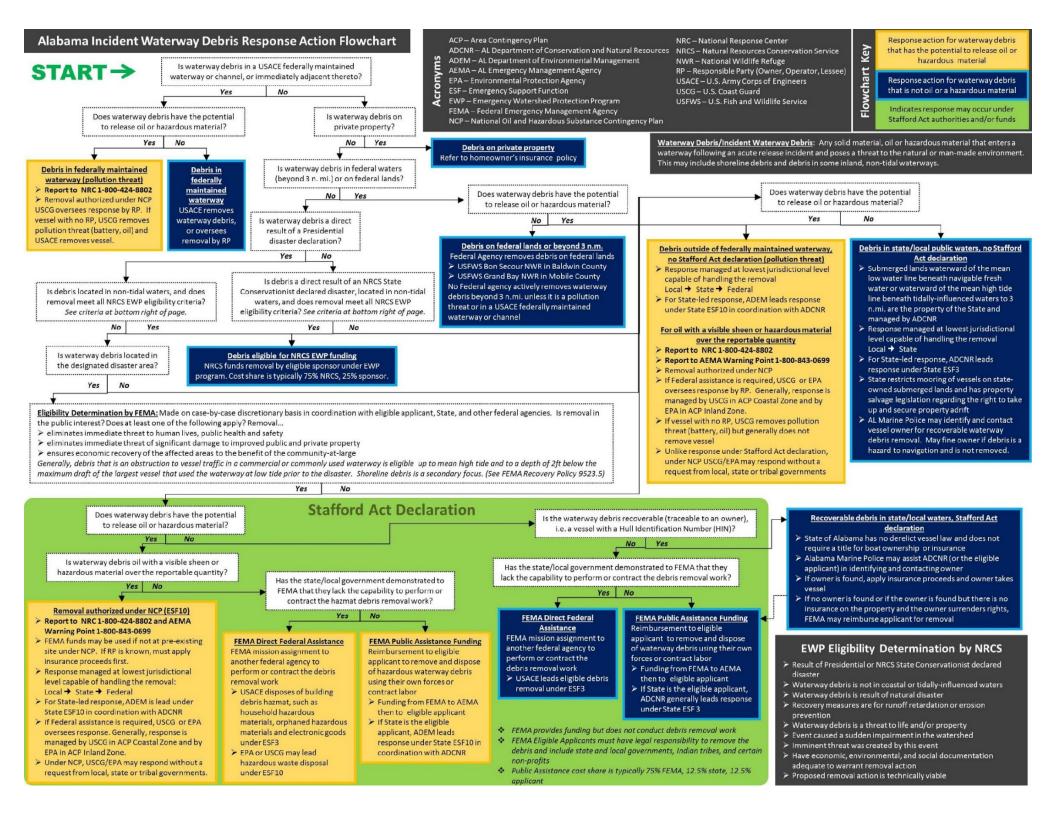
- Focus on waterway debris
- Info in a single location
 Local-state-federal-private
- Clarify organization roles
 Waterway jurisdiction/ownership
- Not all states have a lead agency or funding
- Target audience: All levels of government, responders

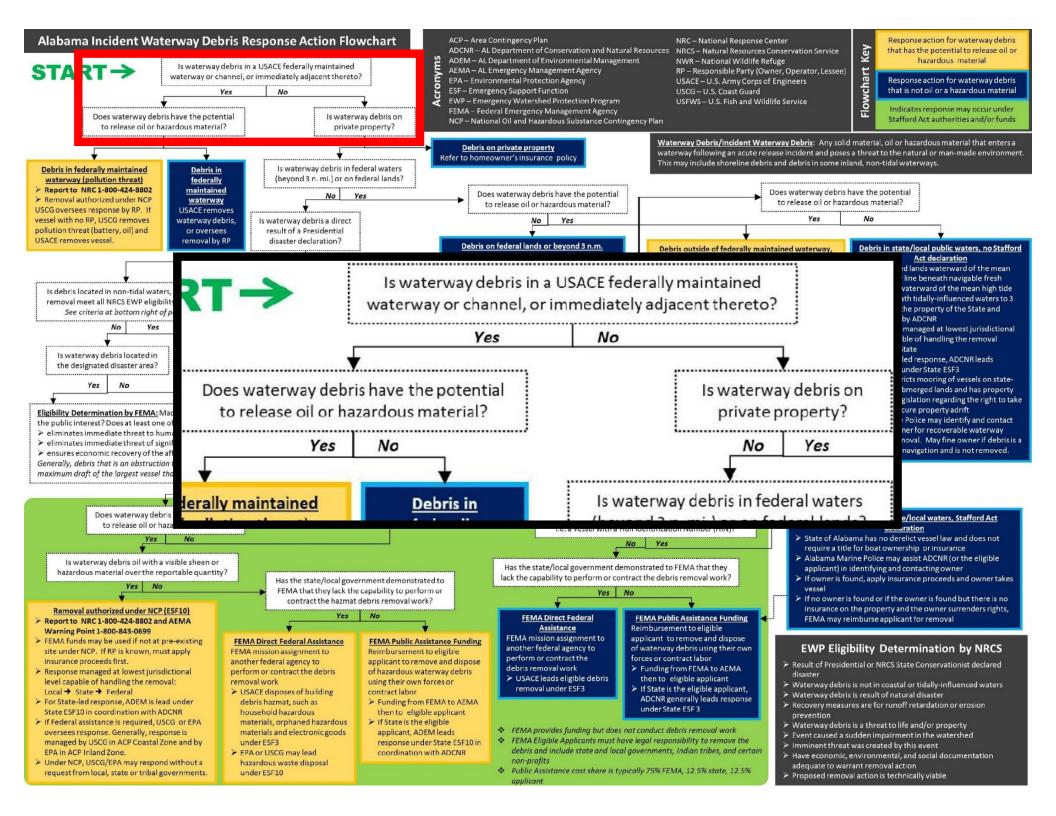




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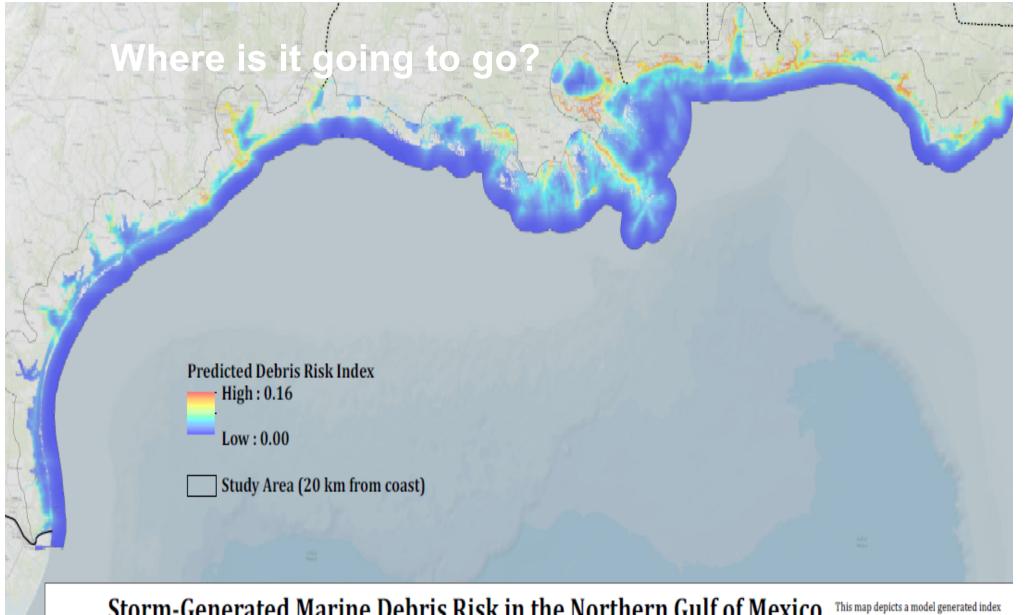




Remote and Local Support

- Coordination
- Communication
- Impacts of Debris/Modeling
- Removal BMPs
- Funding

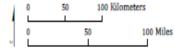






Storm-Generated Marine Debris Risk in the Northern Gulf of Mexico Including Historical Storm Likelihood

Gulf of Mexico Disaster Response Center Marine Debris Program, Office of Response and Restoration, National Ocean Service, National Oceanic and Atmospheric Administration





This map depicts a model generated index of relative marine debris risk based upon assumed storm wind speed and surge, the distribution of on-shore infrastructure likely to generate marine debris, and the empirical historical likelihood of tropical storm exposure.



BMPs for Intertidal Marine Debris Removal

Includes:

- General Removal BMPs
- Vegetated Wetland Removal BMPs
- Un-vegetated Intertidal Removal BMPs





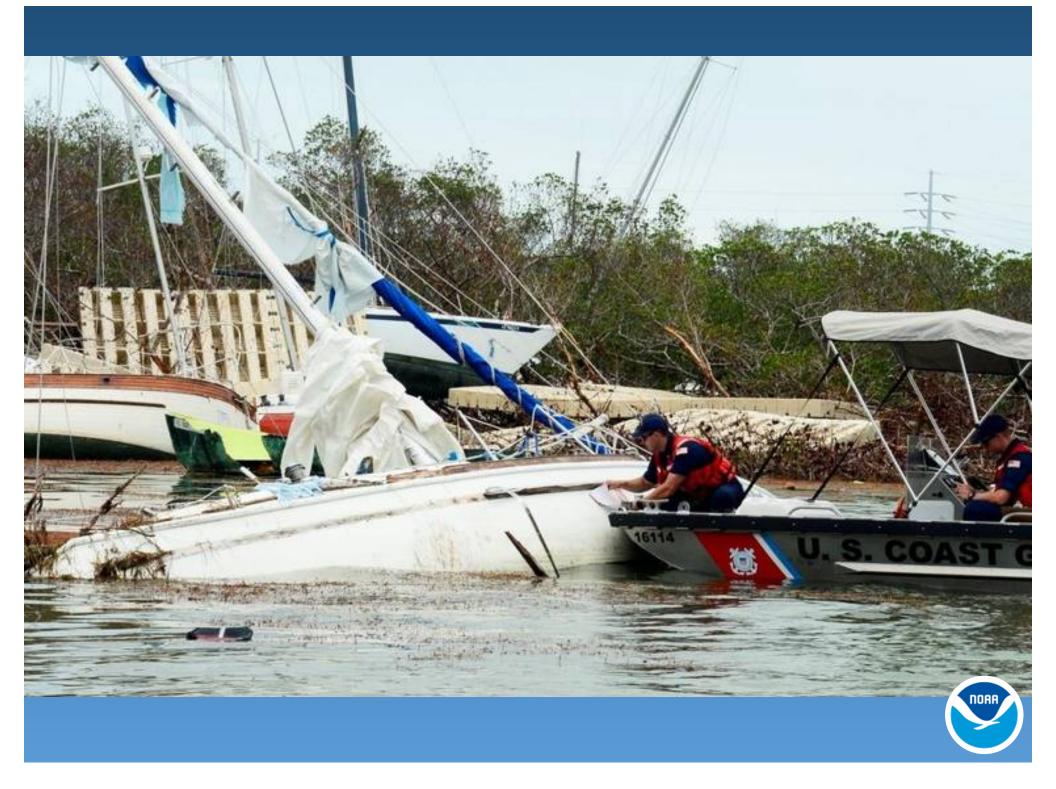
Deployed for Hurricanes Harvey, Irma, and Michael

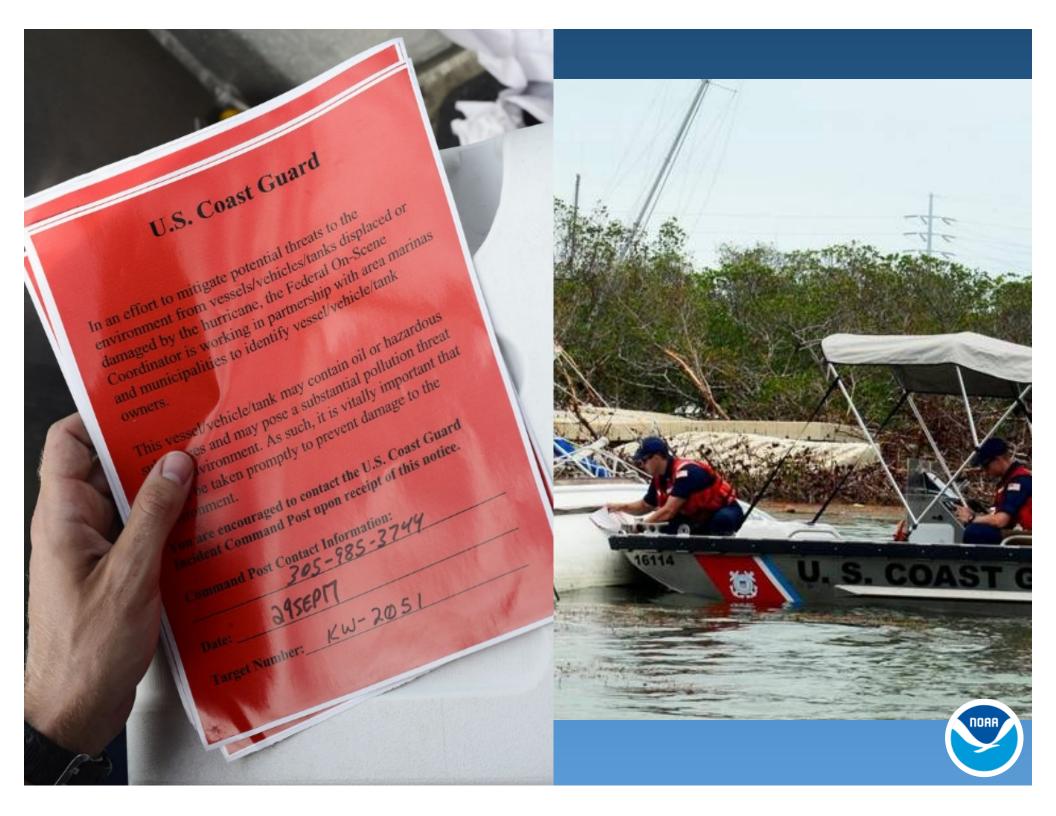
- Joint Field Office Debris Task Force
- Incident Command Post Biological Monitor Coordinator

Incident Command Post

- Led by USCG, EPA, and the State
- Support from NOAA and USFWS

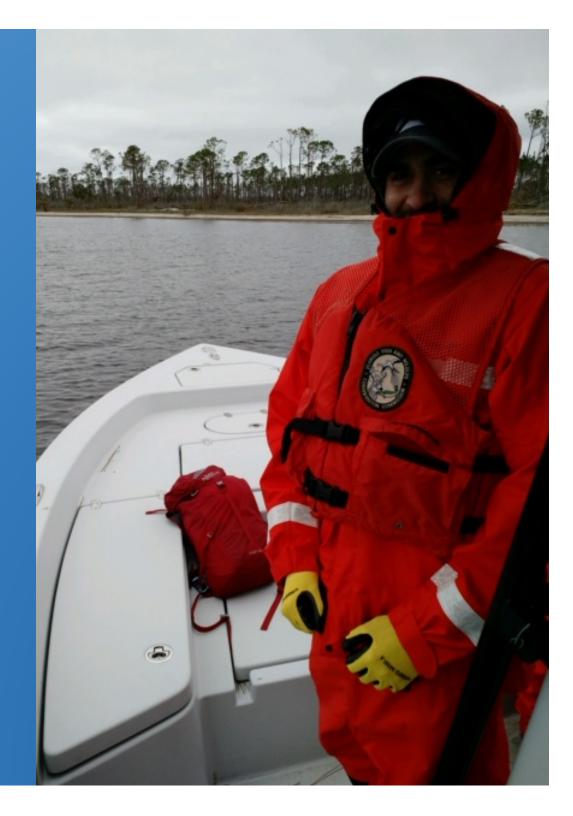






Biological Monitors

"...provide high quality, concise, and consistent guidance that supports pollution response and the removal of vessels/debris, while considering impacts to sensitive to natural, cultural, and other resources."



Supplemental Funding

- \$17.2 million for assessment, removal, and disposal of hurricane related marine debris
- Impacted States:
 - Florida
 - Georgia
 - Puerto Rico
 - South Carolina
 - Texas
 - US Virgin Islands



Response Mission Evolution

MDP Reauthorization/SOS Act and recent hurricane seasons led MDP to consider...

- How can we improve?
- Expand and clarify our roles in emergency response



Response Mission Evolution

Developing tools and resources

Response Mission Document

 Overall capture of MDP response posture, mandate, and interactions

Capabilities Matrix

 Captures key capabilities of MDP and how they can be provided to stakeholders in response

Response Continuum

 Graphical representation of the different tiers/roles of support MDP can provide and decisions to escalate or de-escalate MDP support

Thank You

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