

UNITED STATES COAST GUARD SECTOR NORTH CAROLINA

Hurricane DORIAN & Geographical Response Strategies



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Hurricane FLORENCE Summary ESF #10



 <u>Key Objectives</u>: Assess Coastline and Remove Oil/HAZMAT from Targets w/ Threat to Environment

NORTH

CAROLINA

RESOURCES

 <u>Unified Command</u>: USCG, EPA, NC Wildlife Resources Commission & NC Department of Environmental Quality











Hurricane FLORENCE Summary ESF #10

- <u>Final Cost</u>: \$8.9M
- <u>Completion</u>: 14 Nov 2018 (60 days)
- ESF-10 Mitigation:148 Vessels
- <u>Owner Removed</u>: 118 Vessels
- <u>Remain In Place</u>: 120 Vessels
- <u>Total Assessed</u>: 362 Vessels





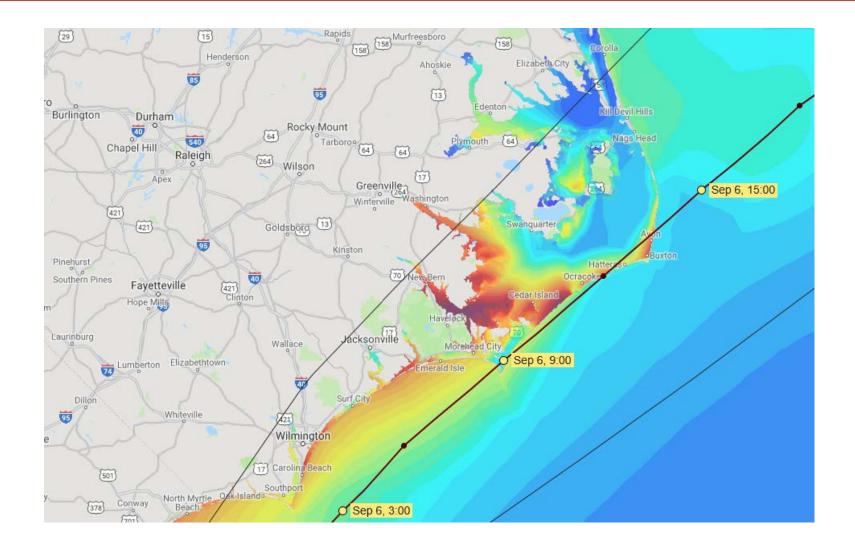








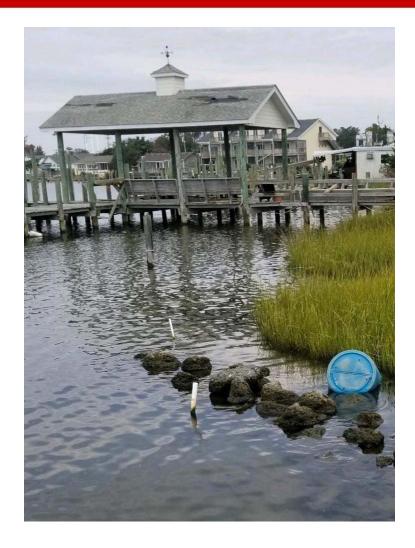
DORIAN's Path through NC





How Dorian Differed

- W/ the exception of the Outer Banks, most of state took a glancing blow.
- Flooding & cresting not as prevalent/pervasive as FLORENCE.
- Citizens were prepared & many vsls removed/secured ahead of time.
- Low number of vessel/HAZMAT targets removed demand for Mission Assignment under Stafford Act.
 - USCG responded under existing FOSC authorities using traditional operating parameters & funding sources under FWPCA/CWA/OPA.

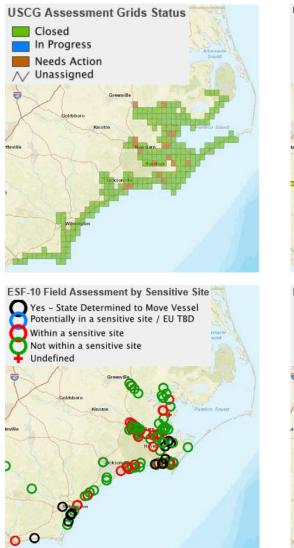


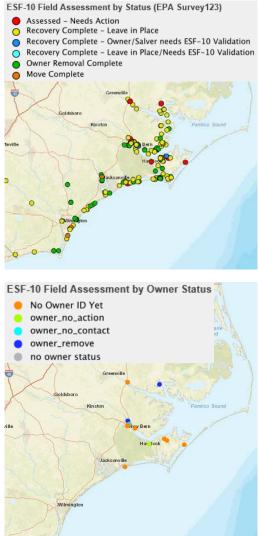
Post-DORIAN Pollution Response Operations

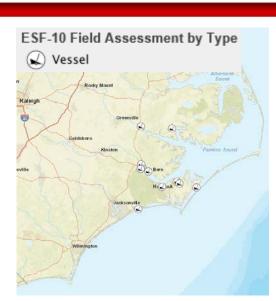
 06 Sep 2019: USCG teams deployed to perform post- storm Port & Pollution Assessments. Sector NC personnel supported National Strike Force, National Pollution Funds Center & NOAA. Assessments meticulously performed from land, air, surface & satellite. Over 2 weeks, all targets were investigated & all threats mitigated as needed/appropriate. 	<text></text>
<image/> <text></text>	 Responders: 25 from Sector NC, 08 from NSF, 01 from NOAA, 01 from NPFC & 03 IA. Special Equipment: UAS, C2 Trailer, MH-60 & Plum Kit. Actions: Responders embarked on 4x4 vehicles, CG & OGA small boats & A/S Elizabeth City MH-60s. Combined efforts id'd 60 potential targets. Each target thoroughly assessed & investigated to determine potential threat to environment & identify owner Results: 22- Vessel had no pollution on board 20- No vessel present 07- Vessel removed by the owner 05- Vessels w/ pollution on board, but no threat 04- Sites inaccessible 02- Pollution removed by USCG contractor



Response Tools - ERMA











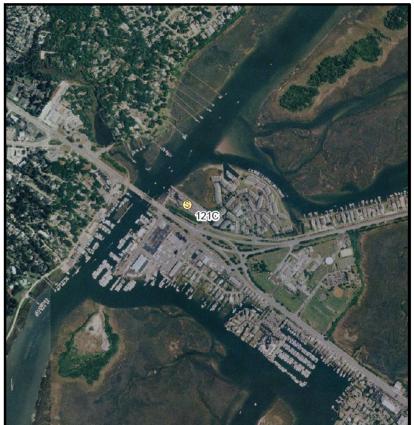
What is a GRS?

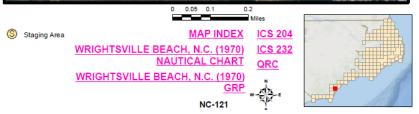
- Geographic Response Strategies (GRSs) are part of the Area Contingency Plan.
- GRSs divide NC's coast into squares. Within each square is a different tactical plan on how boom will be deployed in the event a spill occurs within that square.
 - Some GRSs include pre-designated areas to stage response equipment.
- GRSs can be used within the first stages of an incident to facilitate rapid staging of gear & boom deployment.



Example of a GRS

WRIGHTSVILLE BEACH, N.C. BOOMING STRATEGY





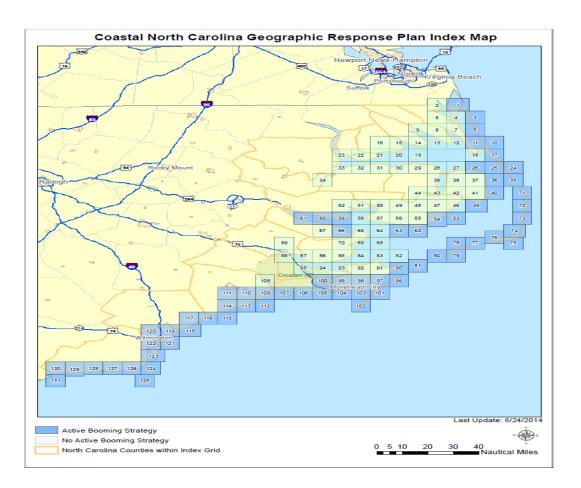
WRIGHTSVILLE BEACH, N.C. (1970) BOOMING STRATEGY





GRS Validation Project

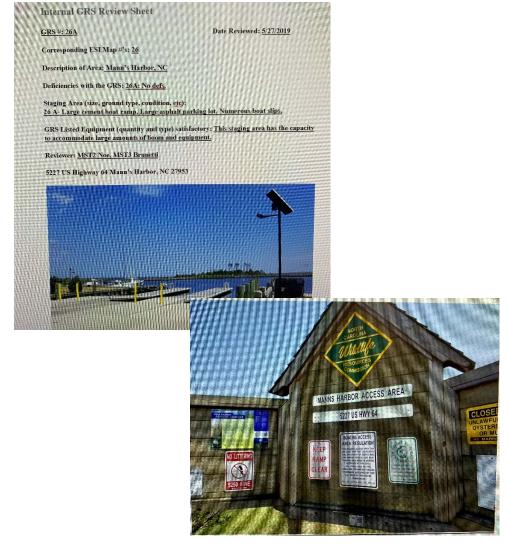
- Sector NC began reviewing Geographical Response Strategies (GRS) in early 2018.
- ~45% of the 131 GRSs have been reviewed.





GRS Validation Project

- On-site teams confirms:
 - Location Description (including address)
 - Any Noticeable Deviations from GRS
 - Staging Area Size & Conditions
 - Equipment Identified in GRS
 - If the GRS has no predesignated staging areas, the team attempts to id suitable locations.





Testing/Exercising GRSs

- Sector NC also testing & exercising boom strategies contained w/in the GRSs.
- New process & two conducted this year.
 - Utilizes USCG Response
 Trailers.
 - Partner w/ state/local agencies & OSROs.
- Determine if the planned strategies are realistic.
- Improve proficiency in deploying spill response equipment.





USCG Response Trailers

- 300' Boom
- Sorbent Pads
- Shackles
- Anchors
- Tools
- Posts
- Marker Lights
- Buoys
- Line









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Way Forward

- 72 GRSs left to review.
- Several upcoming validations & exercises in FY20.
- Collaboration w/ stakeholders will only improve the quality of the GRSs & increase proficiency in deploying response equipment.
- Participation encouraged for anyone who is interested.



QUESTIONS?