### **Presenters**



Charlie Henry
Director
Gulf of Mexico Disaster Response Center



Brandi Todd Scientific Support Coordinator Emergency Response Division



Kevin Kirsch
Southeast Branch Manager
Assessment and Restoration Division



Caitlin Wessel
Gulf of Mexico Regional Coordinator
Marine Debris Program



# Hurricane Preparedness

### **About Hurricane Ida**

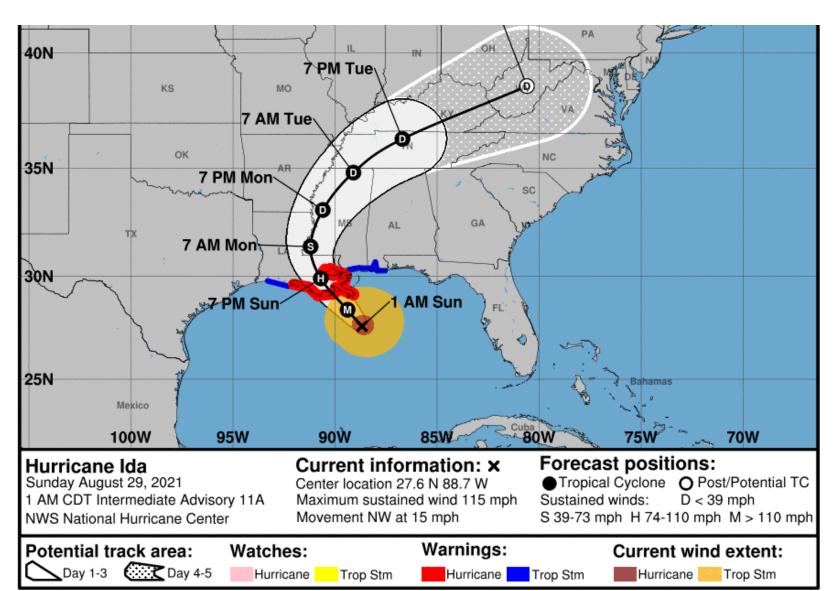


### Situational Awareness and Threat/Risk Assessment

Thursday morning, August 26, 2021: Confident in hurricane threat to the Northern Gulf of Mexico with landfall likely in Louisiana.

Friday morning, August 27 2021: NHC predicted Tropical Storm Ida would rapidly intensify into a major hurricane.





#### Hurricane Ida

- Cat. 4 w/ 150 mph winds.
- Landfall near Port
   Fourchon on August 29,
   2021 the 16th
   anniversary of Katrina
- Second most destructive storm to hit Louisiana.
- Second strongest storm to make landfall in Louisiana (tied with Hurricane Laura in 2020).
- 87 U.S. Deaths

Ida was the fourth hurricane to make landfall in Louisiana in less than 13 months.

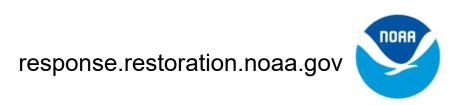
## Preparing for a Hurricane

The Disaster Preparedness Program (DPP) supported NOS and NOAA preparedness before, during, and after Hurricane Ida.

#### Before:

- NOS After Action Report from 2020 Storm Season
- Continuous Improvement (Corrective Actions)
- Annual NOAA Hurricane Preparedness Summit
- Pre-Summit Survey (2021 Preseason Survey)
  - Managing COVID-19 was still a challenge
  - Managing pandemic fatigue was identified
- COOP Planning (even at the individual level)
- Coordinate/Lead NOS Incident Management Team
- Situation Awareness and pre-storm coordination





## During a Hurricane

NOAA Gulf of Mexico Disaster Response Center (DRC) in Mobile, AL

- Weather Hardened
- Redundant Systems for IT and Power
- Training/Incident Command Center
- Primary COOP for USCG Sector Mobile
- Supports NOAA Missions

During Hurricane Ida, the DRC supported the FEMA/NOAA NGS overflights and mapping mission by providing a base of operations and high speed internet to transfer the overflight image data.







# Hurricane Response

## Hurricane Support

Assist USCG with response to Oil and Hazmat response post Hurricane

Supporting many simultaneous responses

Remote and On-Site support

- Scientific Support Coordinators
- Spatial Data Managers
- Oceanographers
- Chemists
- Biologists



Bayou Segnette post-Ida, Credit: Jim Richard, GOHSEP

#### **Pollution Target Data Management for USCG**

- VaDR (Arc Collector + ERMA)
- Nat Env Satellite, Data & Info Service
- Overflight Imagery

#### **Recommend Best Response Methods/Tools**

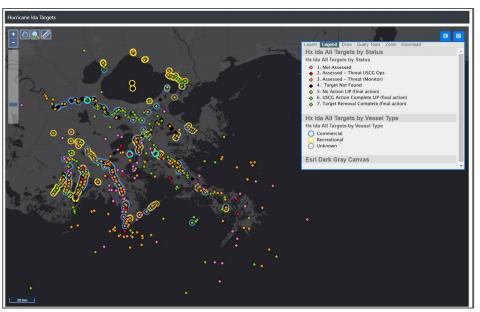
• In-situ burns, sensitive habitats

#### Information sharing

USCG, State, BSEE, Trustees

### **ESF 10 Mission Support**

- Oil & Hazmat Response
- Coordinate with other ESF missions







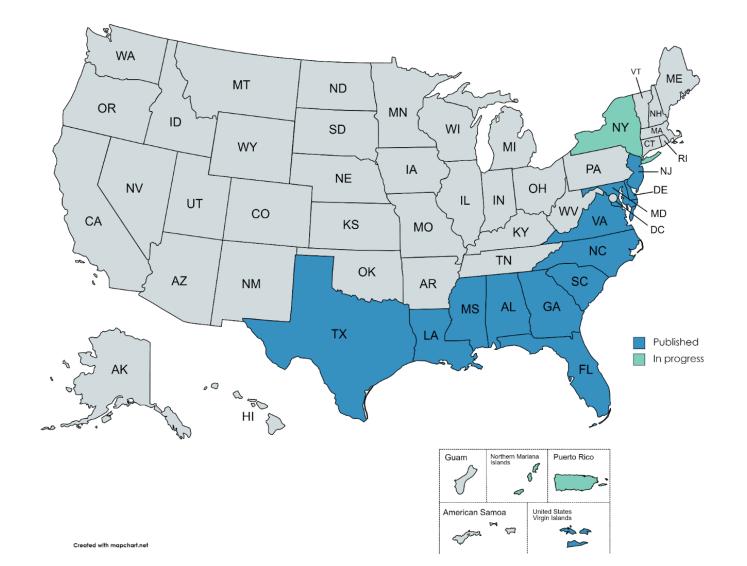
## Responding to Debris

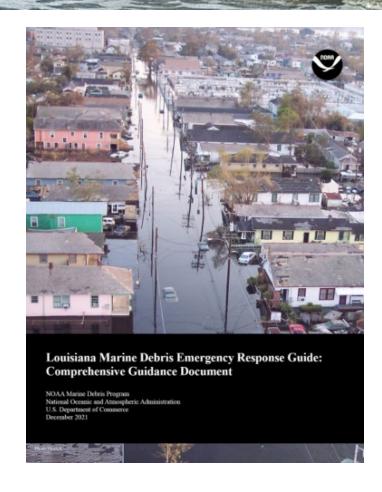
- State Marine Debris Response Guides
- Supporting Joint Field Office, Incident Command Post, and Debris Task Force during response
- Funding
  - Supplemental
  - Removal Grants





## Marine Debris Response Guides

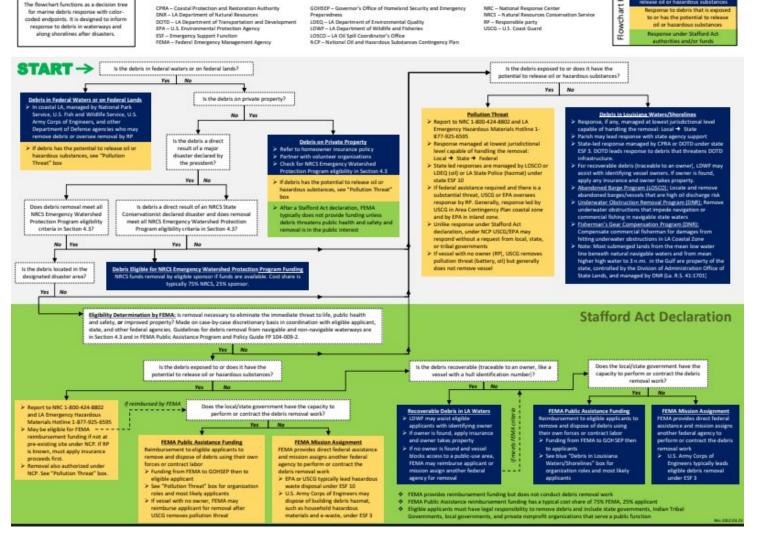






#### NOAA | Office of Response and Restoration.

Purpose



Louisiana Marine Debris Response Flowchart

### **Guide Content**

to and does not have the potential to release oil or hazardous substances

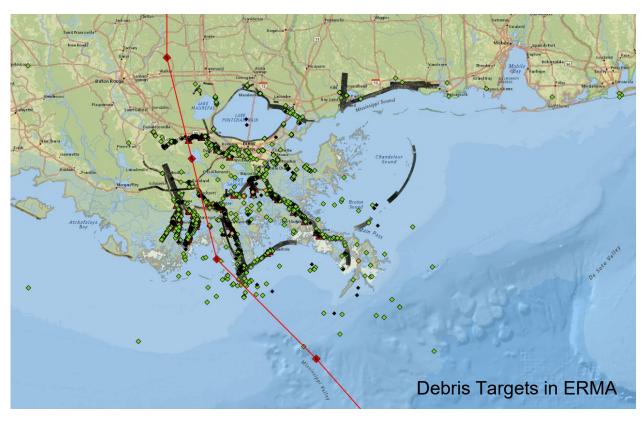
- Agency Roles and Responsibilities
- Jurisdiction Map
- Permitting and Compliance Requirements
- Contact Information

https://marinedebris.noaa.gov/our-work/emergency-response



### Supporting Debris Response

- Debris Task force, JFO, and ICP support
- Best management practices for vessel & debris removal
- Louisiana abandoned & derelict vessel law review
- General coordination between agencies and across Essential Support Functions
- Aerial Imagery
  - Pulled together NGS, GIC, and CAP imagery into ERMA (need login)
  - Mapping of debris targets or hotspots (ex. vessels and barges)



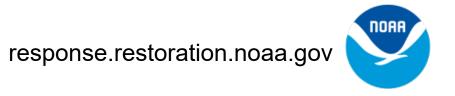


## Disaster Assessment and Restoration

## Consequences from Ida







## **Trustees**

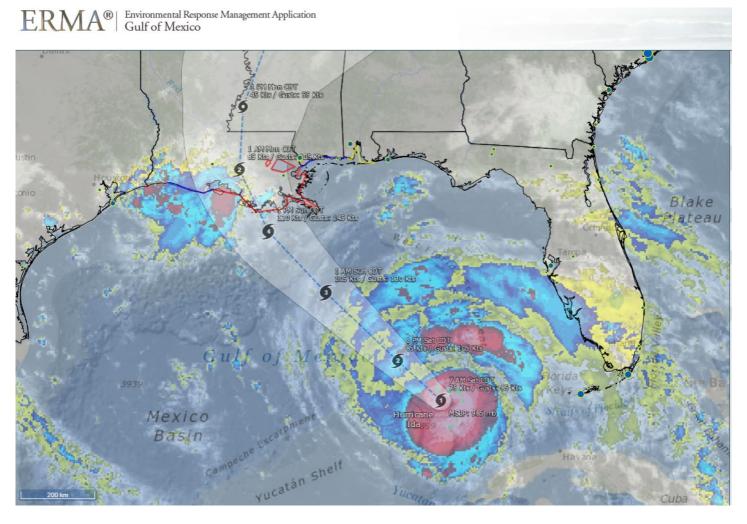






## **Trust Resources**

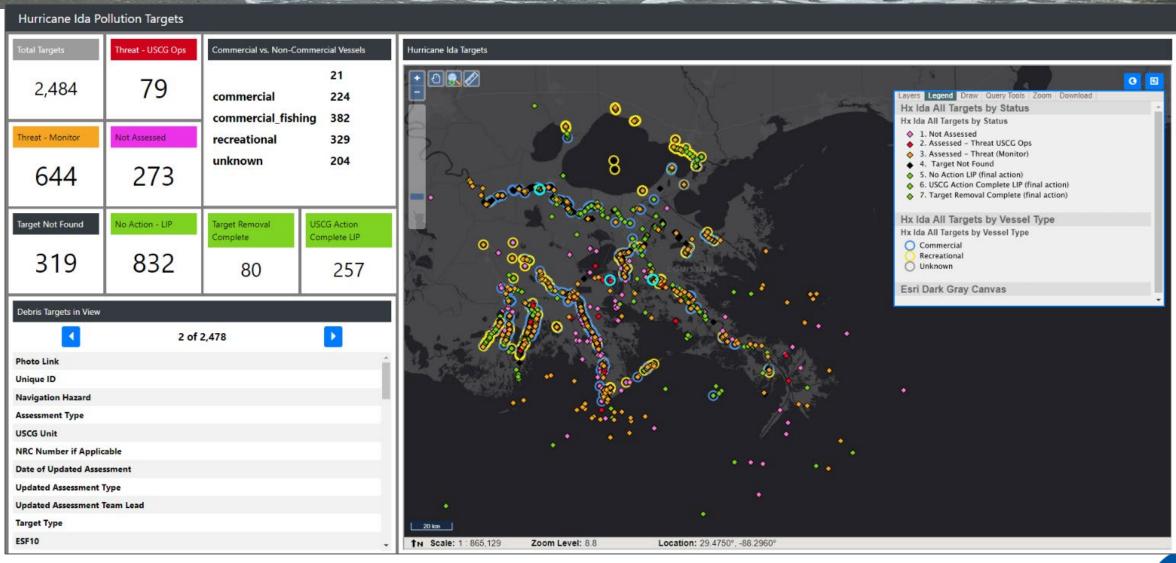




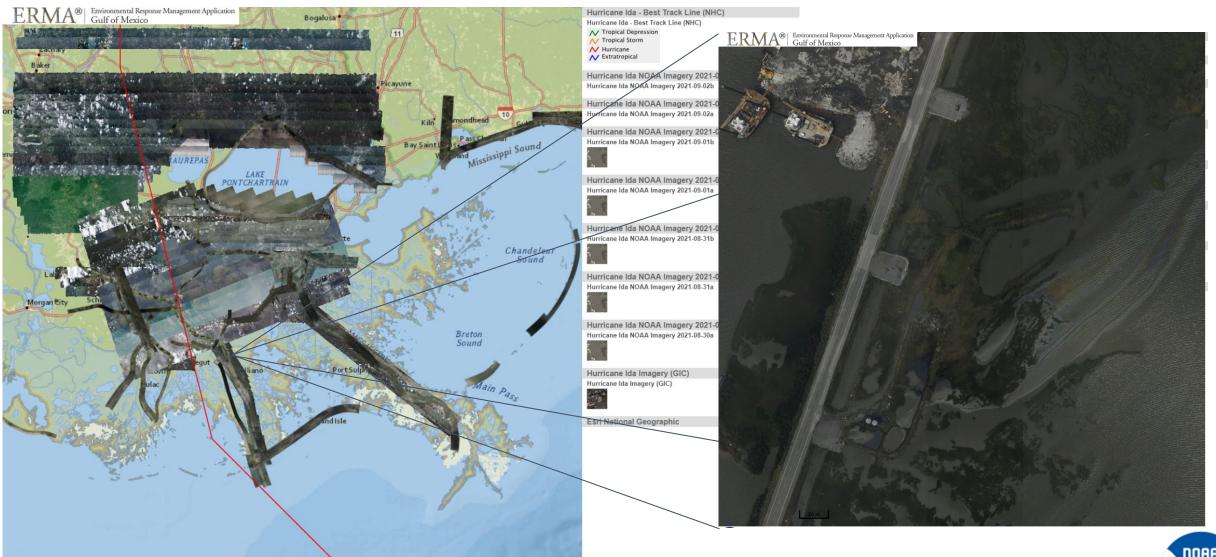
- Base environmental data
- Live data streams
  - Storm tracking, surge modeling, current water levels, ship locations, and more.
- Critical infrastructure
- Pre/post storm imagery
- Quick turnaround post storm data
- Live tracking of ESF-10 targets



### NOAA | Office of Response and Restoration



### NOAA | Office of Response and Restoration

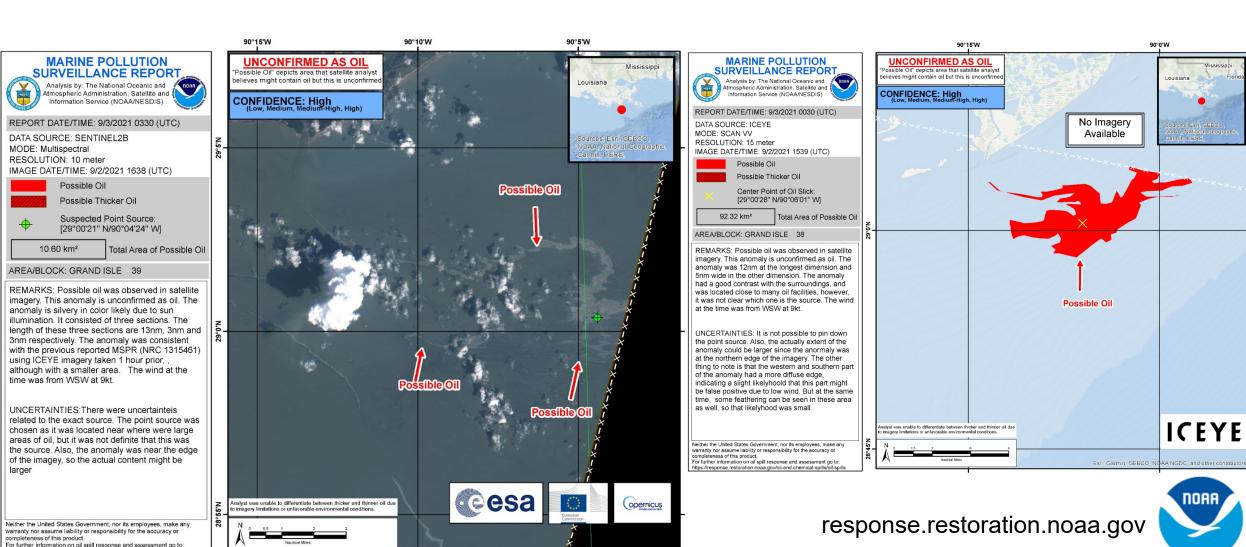


Coastal Response Research Center (c) 2007-2022 University of New Hampshire

20 km

https://response.restoration.noaa.gov/oil-and-chemical-spills/oil-spills

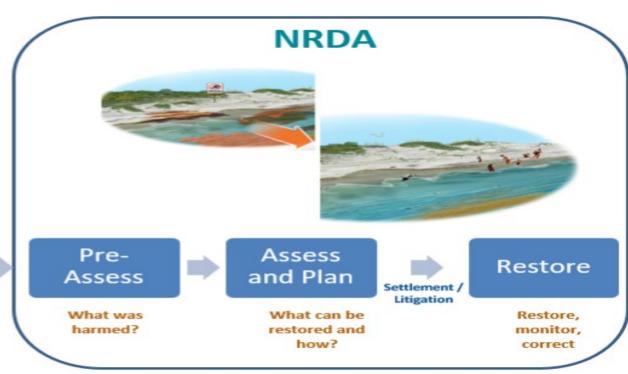
### Marine Pollution Surveillance Report



### Natural Resource Damage Assessment (NRDA) Overview

- Purpose is to determine type and amount of restoration needed to compensate the public for injuries to their resources
- Successfully getting to the end game requires a common vision and coordination
- It is a legal process that involves public participation







# Hurricane Recovery

## Hurricane Ida Recovery

OR&R continues to work with federal, state, and local partners to assist with the long-term impacts of Hurricane Ida, and ensure efficient and effective recovery

### **Recovery Activities**

- DPP serving as NOAA liaison to the interagency Recovery Support Functions (RSFs)
  activated for Hurricane Ida, which coordinate federal disaster recovery support to the State
  and impacted communities
- NOAA supports Natural and Cultural Resources, Economic, and Community Planning and Capacity Building RSFs

#### **Marine Debris Disaster Supplemental Funds:**

• Funding opportunity for assessment and removal of debris from Hurricane Ida should be announced soon.



