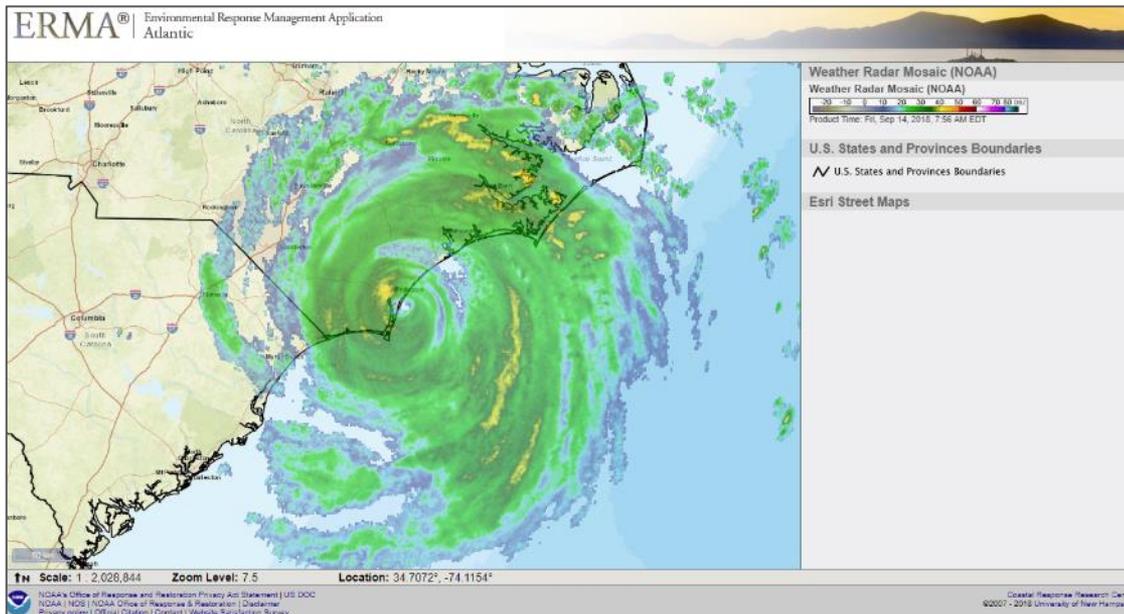


The Environmental Response Management Application ERMA[®]



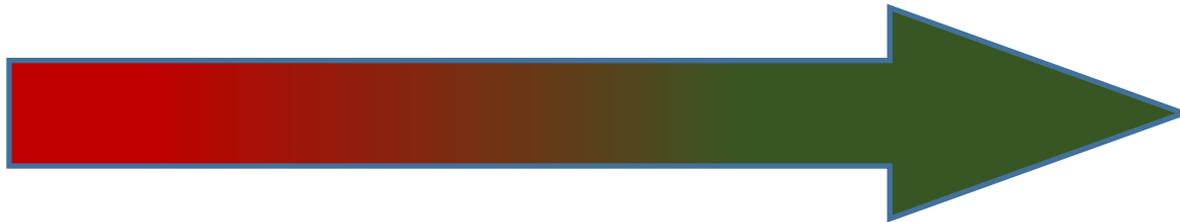
Robb Wright
Office of Response & Restoration
Assessment and Restoration Division
Spatial Data Branch

<https://erma.noaa.gov/atlantic>



Continuum of “Response” Framework for The Office of Response & Restoration

Response
(24 hours)

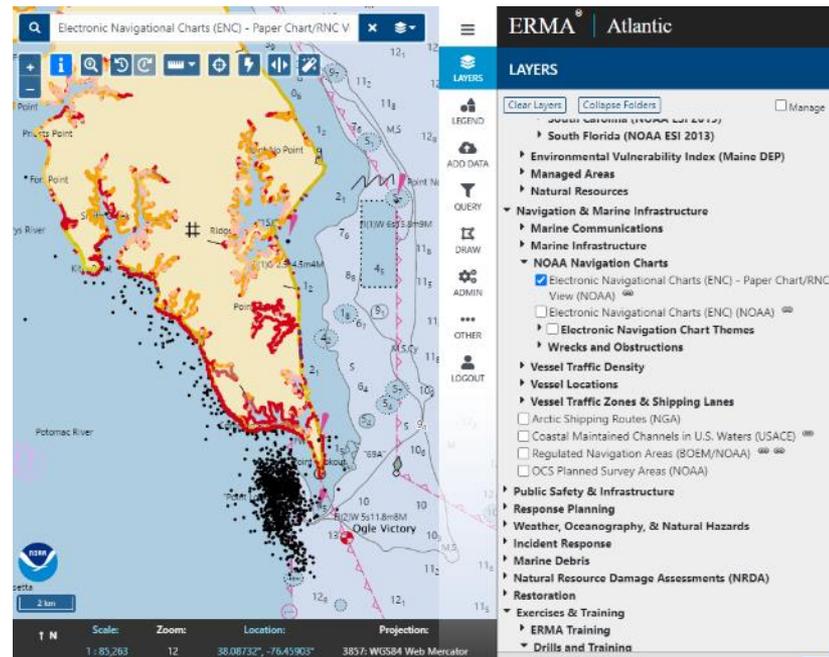


Recovery or
Restoration
(Years/Decades)



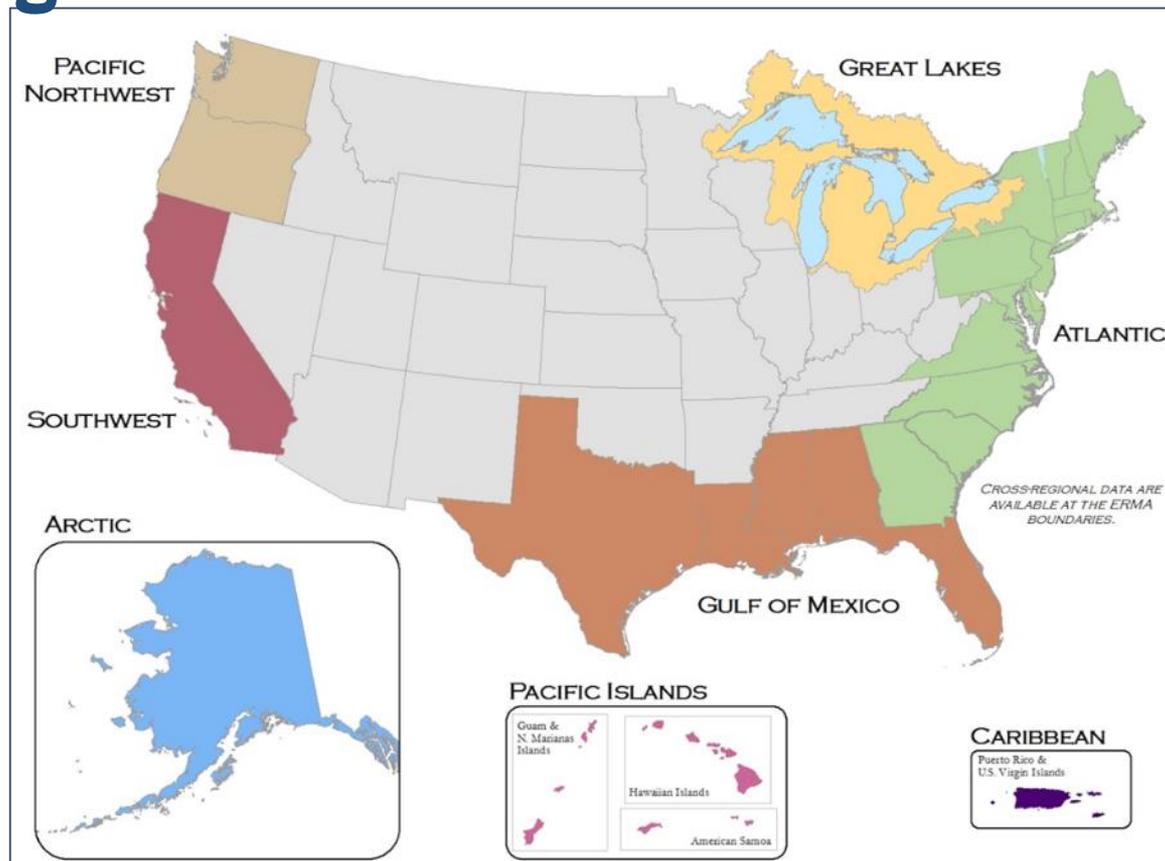
Key Functionality

- ERMA is an online mapping tool for visualizing environmental information relevant to oil spills and natural disasters
- Provides centralized access to information
- Tiered system security that protects data
- Build customized maps using layers
- Create and view customized sets of layers quickly with bookmarked views
- Investigate and compare data quickly with Dashboards and Query Tools
- Data Interoperability with RP and other agencies
- Internal and external audience



ERM A Regions

<https://erma.noaa.gov/atlantic>



ERMA is a USCG MER COP

**USCG and NOAA Agreement
signed in 2018, renewed in 2024**

**Agreement Purpose:
“Standardize the use of NOAA’s
Environmental Response
Management Application (ERMA®)
as the Common Operating Picture
(COP) for USCG-led training,
exercises, oil spill responses and
releases of hazardous substances,
pollutants, and contaminants”**

NRT Data Sharing Plan

**The National Response Team
formally adopted the NOAA Data
Sharing Plan (DSP) for operational
response data sharing
(December 2022)**

Posted Resources:

- NRT Data Sharing Plan Landing page
- Posted DSP (Document and Spreadsheet)
- Posted examples, signed plans from previous responses

ERMA Layout

The screenshot displays the ERMA Atlantic web application interface. The main map area shows a topographic view of North America, with various geographical features and labels such as 'GREAT PLAINS', 'APPALACHIAN MOUNTAINS', 'NORTH ATLANTIC', and 'Sargasso Sea'. The interface includes several key components:

- Search Bar:** Located at the top left, with the text 'Search layers, folders and bookmarks' and a search icon.
- Map Tools:** A toolbar below the search bar containing icons for zooming, panning, and other map navigation functions.
- Map Controls:** A separate toolbar below the map tools, including a plus/minus zoom control and a search button.
- Map Key:** Located at the bottom left, showing a scale of 500 km and a north arrow.
- Map Information:** At the bottom, it displays 'Scale: 1 : 19,566,297', 'Zoom: 4', 'Location: 43.81320°, -100.50855°', and 'Projection: 3857: WGS84 Web Mercator'.
- Menu Bar:** An orange button labeled 'Menu Bar' is positioned at the top right of the map area.
- Layers Panel:** On the right side, the 'LAYERS' panel is open, showing a list of layers:
 - Environmental Quality & Monitoring
 - Imagery & Remote Sensing
 - Natural Resources, Habitats, & Managed Areas
 - Coastal Resources & Habitats
 - Critical Habitat
 - Cultural Resources & Human Use
 - Essential Fish Habitat (NOAA NMFS)
 - Environmental Sensitivity Index (NOAA ESI)
 - ESI Atlas Index
 - ESI Biology PDF Map Index
 - ESI Human Use PDF Map Index
 - National ESI Shoreline - General Type (NOAA)
 - National ESI Shoreline - Most Sensitive (NOAA)
 - Chesapeake Bay (NOAA ESI 2016)
 - Eastern Florida (NOAA ESI 1996)
 - Delaware Bay (NOAA ESI 2014)
 - Georgia (NOAA ESI 2015)
 - Long Island Sound (NOAA ESI 2016)
 - Maine and New Hampshire (NOAA ESI 2016)
 - Massachusetts and Rhode Island (NOAA ESI 2016)
- Legend and Other Tools:** A vertical toolbar on the right includes 'LEGEND', 'ADD DATA', 'QUERY', 'OTHER', and 'LOGIN' buttons.
- Shortcut Menu:** An orange button labeled 'Shortcut Menu' is located next to the 'ESI Human Use PDF Map Index' layer, with a dropdown menu containing options: 'view metadata', 'zoom to extent', 'bring to front', 'send to back', and 'view data'.
- Bookmark Views:** At the bottom right, there is a 'Bookmark Views:' label and a 'Bookmark Panel' button.

Finding Data

The screenshot displays the ERMA Gulf of Mexico web application interface. A search bar at the top left contains the text "Search layers, folders and bookmarks". Below it is a toolbar with various icons for map navigation and interaction. A dropdown menu is open, listing options: "Layers / Views / Folders", "Geographic Locations", "Latitude and Longitude", "Recent Data", and "Vessel Search". A blue callout box on the left contains the text "Search Tool" and "Table of Contents". The main map area shows a geographic view of Florida and the Gulf of Mexico. On the right side, there is a "LAYERS" panel with a search bar, "Clear Layers" and "Collapse Folders" buttons, and a list of layers categorized into "Background Layers", "Admin Boundaries & Reference Features", "Bathymetry & Hydrology", "Environmental Quality & Monitoring", "Imagery & Remote Sensing", "Natural Resources, Habitats, & Managed Areas", and "Navigation & Marine Infrastructure". The "OpenStreetMap Voyager (CARTO)" layer is selected. At the bottom, there is a status bar with navigation icons, scale (1:1,761,604), zoom (7.8), location (29.15210°, -82.79866°), projection (3857: WGS84 Web Mercator), and a "Bookmark Views" section with a "New" button.

- Search Tool
- Table of Contents

Oil Spill Trajectories

Search layers, folders and bookmarks

2023-03-23 05:00 2023-03-26 01:00

Legend

1000 m

Scale: 1 : 40,063 Zoom: 13 Location: 42.26697°, -70.98306° Projection: 3857: WGS84 Web Mercator

DRILL -- DRILL -- DRILL

ERMA® | Atlantic

LAYERS

Clear Layers Collapse Folders Manage

- Natural Resource Damage Assessments (NRDA)
- Restoration
- Environmental Justice
- Exercises & Training
 - ERMA Training
 - Drills and Training
 - (DRILL) Ogle Victory 06-2022 (DRILL)
 - SOS 2022
 - Southern New England PREP 2022 (DRILL)
 - Sector Boston NPREP 2023 (DRILL)**
 - Trajectories (DRILL)**
 - Boston PREP DRILL All Trajectory Forecasts
 - Trajectories 03-23-2023 0600 (DRILL)
 - Trajectories 03-23-2023 1200 (DRILL)
 - Trajectory Forecast 03-23-2023 1200 (DRILL)
 - Uncertainty Forecast 03-23-2023 1200 (DRILL)
 - Containers 03-23-2023 1200 (DRILL)
 - Trajectories 03-23-2023 1800 (DRILL)
 - Trajectories 03-24-2023 0600 (DRILL)
 - Trajectories 03-24-2023 1200 (DRILL)
 - Trajectories 03-24-2023 1800 (DRILL)

ERM A's Time Slider

Clock icon indicates a time-enabled layer

- ▼ Sector Boston NPREP 2023 (DRILL)
 - ▼ Trajectories (DRILL)
 - Boston PREP DRILL All Trajectory Forecasts
 - Trajectories 03-23-2023 0600 (DRILL)
 - Trajectories 03-23-2023 1200 (DRILL)
 - Trajectories 03-23-2023 1800 (DRILL)
 - Trajectories 03-24-2023 0600 (DRILL)
 - Trajectories 03-24-2023 1200 (DRILL)
 - Trajectories 03-24-2023 1800 (DRILL)
 - Trajectories 03-25-2023 0600 (DRILL)
 - Trajectories 03-25-2023 1200 (DRILL)
 - Trajectories 03-25-2023 1800 (DRILL)

Multiple enabled layers will share the same date range and animate in unison

Animation speed

Movement controls

Tools

Change default "time step"

Modify start and end times



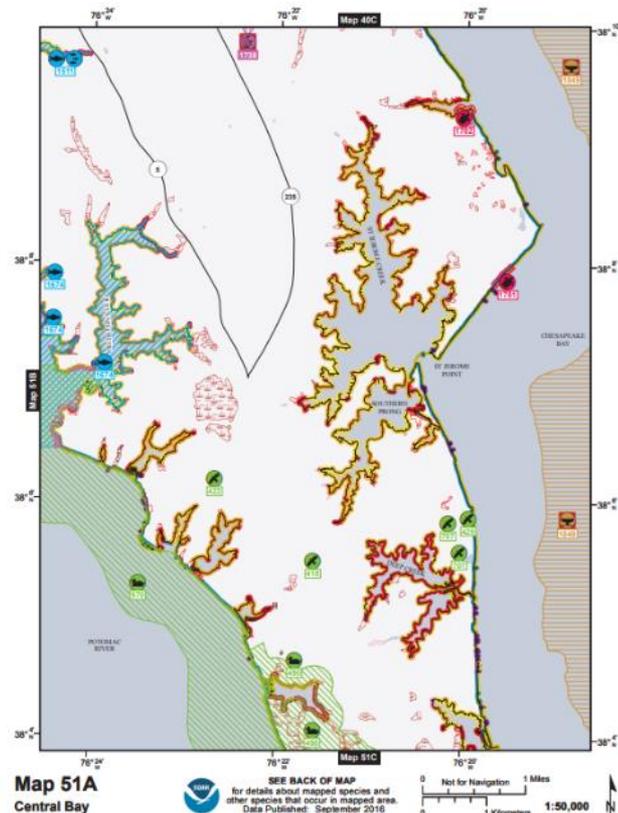
Environmental Sensitivity Index (ESI)

- NOAA maintains the ESIs to provide information about sensitivity to oil spills.
- Spill planning, spill response
- Plants, animals, shoreline, ecosystems and human use data

NOAA Site: [Link](#)

ERMA provides:

- [Links](#) to all pdf maps
- Map display within ERMA
- ESI custom AOI report



Querying ESIs

Chesapeake Bay ESI

<input checked="" type="checkbox"/> Biological	<input checked="" type="checkbox"/> Other
<input checked="" type="checkbox"/> Benthic Habitats	<input checked="" type="checkbox"/> Annotation
<input checked="" type="checkbox"/> Bird Habitat	<input checked="" type="checkbox"/> Bio Index (polygons)
<input checked="" type="checkbox"/> Birds (point)	<input checked="" type="checkbox"/> ESI Area of Interest
<input checked="" type="checkbox"/> Fish Habitat	<input checked="" type="checkbox"/> Human Use (polygon)
<input checked="" type="checkbox"/> Fish Lines	<input checked="" type="checkbox"/> Management Areas
<input checked="" type="checkbox"/> Invertebrate Points	<input checked="" type="checkbox"/> Management Points
<input checked="" type="checkbox"/> Invertebrates	<input checked="" type="checkbox"/> Natural Hazards (poly)
<input checked="" type="checkbox"/> Marine Mammals	<input checked="" type="checkbox"/> Navigational Marine (point)
<input checked="" type="checkbox"/> Reptiles	<input checked="" type="checkbox"/> Navigational Marine (poly)
<input checked="" type="checkbox"/> Terrestrial Mammals	<input checked="" type="checkbox"/> Political Jurisdictional (point)
<input checked="" type="checkbox"/> Vegetation Habitats	

Environmental Sensitivity Index: Resources at Risk
This report was generated on 9/12/22, 9:02 PM
Atlas(es) used in this report:
Months selected in this report: Aug, Sep, Oct

Summary Results
*Species listed in bold red are considered threatened, endangered or of conservation concern by the state or federal government

Chesapeake Bay Benthic Habitats
 No features of concern for this resource in the area drawn

Chesapeake Bay Bird Habitat
 No features of concern for this resource in the area drawn

Chesapeake Bay Birds (point)
 No features of concern for this resource in the area drawn

Chesapeake Bay Fish Habitat
 Species of concern (2):
Atlantic sturgeon | **Shortnose sturgeon**

Chesapeake Bay Fish Lines
 No features of concern for this resource in the area drawn

Chesapeake Bay Invertebrate Points
 No features of concern for this resource in the area drawn

Chesapeake Bay Invertebrates
 No features of concern for this resource in the area drawn

Chesapeake Bay Marine Mammals
 Species of concern (2):
Humpback whale | **West Indian manatee**

AOI Total Area
 179,802 acres

ESI query allows for specific data to be queried based on a user-defined AOI

- Output report appears in a new window.
- Can be printed to a PDF
- URL is static and retains info: [link](#)

Use the same AOI for the USFWS IPaQ tool query option for dry-side T&E species

IPaC Information for Planning and Consultation
 U.S. Fish & Wildlife Service
 LOGIN

Explore location
 LOCAL OFFICE: CHESAPEAKE BAY ESFO

LOCATION: St. Mary's County, Maryland
 CHANGE LOCATION

Resources

- ENDANGERED SPECIES 2
- BALD & GOLDEN EAGLES 2
- MIGRATORY BIRDS 45
- COASTAL BARRIERS 15
- FACILITIES
- WETLANDS 1
- PRINT RESOURCE LIST

Endangered species
 Listed species and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries).

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact [NOAA Fisheries](#) for species under their jurisdiction.

Additional information on endangered species data is provided [below](#).
 The following species are potentially affected by activities in this location:

Mammals
 Proposed Endangered



*** Provisional DRAFT Report ***

ESI query run at 12/10/2024, 11:35:35 (UTC)

DEPARTMENT OF HOMELAND SECURITY
U.S. COAST GUARD
RESOURCES AT RISK SUMMARY (ICS 232-CG)

1. Incident Name:	2. Incident Location:	3. Operational Period (Date/Time): From: To:
-------------------	-----------------------	---

4. Environmentally Sensitive Areas and Wildlife Concerns:

Site #	Priority	Site Name and Physical Location	Site Issues

Narrative:

Threatened, endangered and species of special concern are listed below. For the full species listing, see the full report =>
<https://prod-esi-api.orr.noaa.gov/ui/query/c14ccf8f-eb99-48dc-940b-e5bbfe7a293b/>

BIRD | Sedge wren | MD: Endangered/VA: -
 FISH | Atlantic sturgeon | MD: -VA: Endangered | Federal: Endangered | Adults: Jan-Dec
 INVERT | Northeastern beach tiger beetle | MD: Endangered/VA: Threatened | Federal: Threatened |
 Concentration: POTENTIAL | Spawning: Jun-Aug | Eggs: Jun-Aug | Larvae: Jan-Dec | Adults: Jun-Aug
 M_MAMMAL | Fin whale | MD: Endangered/VA: Endangered | Federal: Endangered | Concentration: COMMON
 M_MAMMAL | Humpback whale | MD: Endangered/VA: Endangered | Federal: Endangered | Concentration: COMMON
 M_MAMMAL | North Atlantic right whale | MD: Endangered/VA: Endangered | Federal: Endangered |
 Concentration: RARE
 HERP | Green sea turtle | MD: Threatened/VA: Threatened | Federal: Threatened | Concentration: RARE |
 Stage4: May-Dec*
 HERP | Kemp's ridley sea turtle | MD: Endangered/VA: Endangered | Federal: Endangered |
 Concentration: UNCOMMON | Stage4: Nov-Dec
 HERP | Leatherback sea turtle | MD: Endangered/VA: Endangered | Federal: Endangered | Concentration: RARE |
 Stage4: Mar-Dec* | Stage5: Mar-Dec*
 HERP | Loggerhead sea turtle | MD: Threatened/VA: Threatened | Federal: Threatened | Concentration: COMMON |
 Stage4: Nov-Dec | Stage5: Nov-Dec
 HABITAT | Seabeach amaranth | MD: Endangered/VA: Threatened | Federal: Threatened | Concentration: VERY RARE

Chesapeake Bay Shoreline Classification (lines)
 Summary Length (miles) by type
1: Armored: 17
3: Beaches (Sand/Gravel): 17
4: Flats (Mud/Sand): 1.23
5: Vegetated (Grass/Marsh/Mangroves/Scrub-Shrub): 259

Draft ICS 232 (Resources at Risk) Form

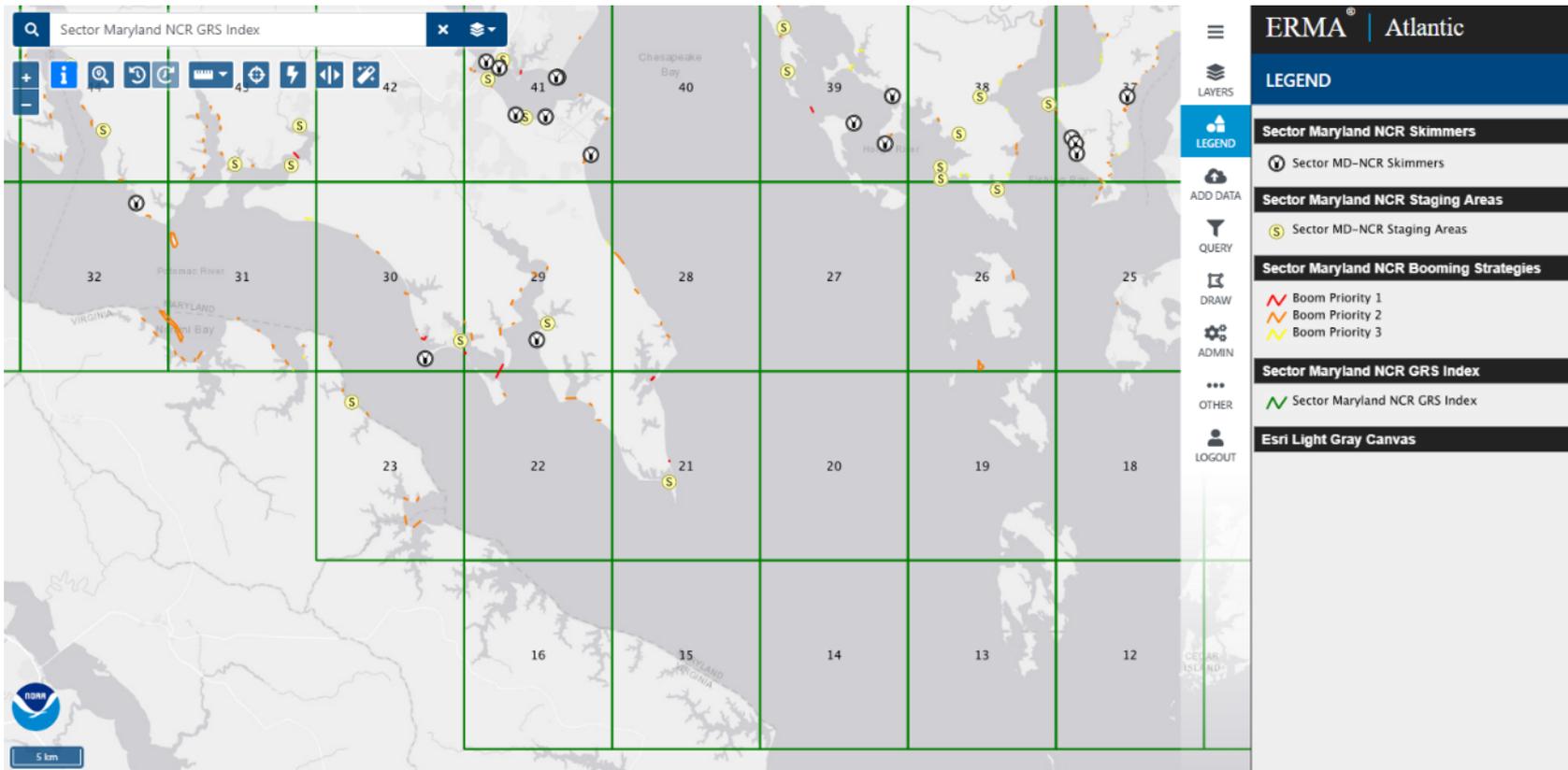
- Summarizes for an AOI:
T&E species
 - Name / state-fed / abundance / life-stages
- Shoreline lengths
- Human Use counts
- Places info into a fillable PDF 232 form
- *Not currently tied to GRS - goal

response.restoration.noaa.gov



Geographic Response Strategies

[ERMA Link](#)



Geographic Response Strategies

[ERMA Link](#)

ERMA Identify - Google Chrome
 erma.noaa.gov/identify?point=38.15839,-76.42992
 ID Location: 38.15839, -76.42992
 Add Selected Features To Query Tools Tab

Sector Maryland NCR ... Sector Maryland NCR ... Sector Maryland NCR ...

Sector Maryland NCR GRS Index [Layer 40168-wms internal]

gid	104
objectid	104
tile_name	29
topo_name	SAINT MARYS CITY, MD.
page_name	SAINT MARYS CITY
qrc	https://sds.erma.noaa.gov/GRPs/D5_MarylandNCR/QRCs/MD 29.docx
ics_232	https://sds.erma.noaa.gov/GRPs/D5_MarylandNCR/ICS 232/ICS 232 GRP29.docx
ics_204	https://sds.erma.noaa.gov/GRPs/D5_MarylandNCR/ICS 204/ICS 204_GRP 29.docx
grs_pdf	https://prod-erma-api.orr.noaa.gov/api/v1/data_layer_file/8714/download/#page=46
boom_s_pdf	https://prod-erma-api.orr.noaa.gov/api/v1/data_layer_file/8714/download/#page=47
boom_c_pdf	https://prod-erma-api.orr.noaa.gov/api/v1/data_layer_file/8714/download/#page=48

https://erma.noaa.gov

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LEGEND

Sector Maryland NCR Skimmers

- Sector MD-NCR Skimmers

Sector Maryland NCR Staging Areas

- Sector MD-NCR Staging Areas

Sector Maryland NCR Booming Strategies

- Boom Priority 1
- Boom Priority 2
- Boom Priority 3

Sector Maryland NCR GRS Index

- Sector Maryland NCR GRS Index

Esri Light Gray Canvas

Layer Slider

Search layers, folders and bookmarks

Select the dynamic layers to swipe

- Right ▾ Seamless ESI Biologic Maps for Chesapeake Bay (NOAA ESI 2016)
- Both ▾ Sector Maryland NCR Booming Strategies
- Both ▾ Sector Maryland NCR Staging Areas
- Both ▾ Trajectory Forecast 06-07-2022 at 0600

1000 m

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LEGEND

Trajectory Forecast 06-07-2022 at 0600

- Floating
- Beached

ADD DATA

QUERY

FILTER

DASHBOARD

OTHER

LOGIN

Sector Maryland NCR Staging Areas

- 5 Sector MD-NCR Staging Areas

Sector Maryland NCR Booming Strategies

- ∨ Boom Priority 1
- ∨ Boom Priority 2
- ∨ Boom Priority 3

Seamless ESI Biologic Maps for Chesapeake Bay (NOAA ESI 2016)

MapBox Hybrid Imagery

Hurricane Milton Pollution Targets

Total Targets

652

Threat: Mitigate

0

Threat: Monitor

0

No Action - LIP

58

Target Remov...

4

UAV Needed

0

Total Targets In Map

73

Pollution Threat

1

Not Assessed

0

Action Compl...

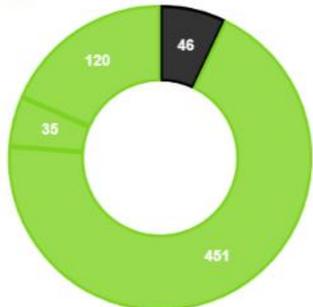
2

Hotspots

0

Total Targets by Status

- 4. Assessed - Target Not Found
- 5. No USCG Action - Leave in Place (final action)
- 6. USCG Action Complete - Leave in Place (final act)
- 7. Target Removal Complete (final action)



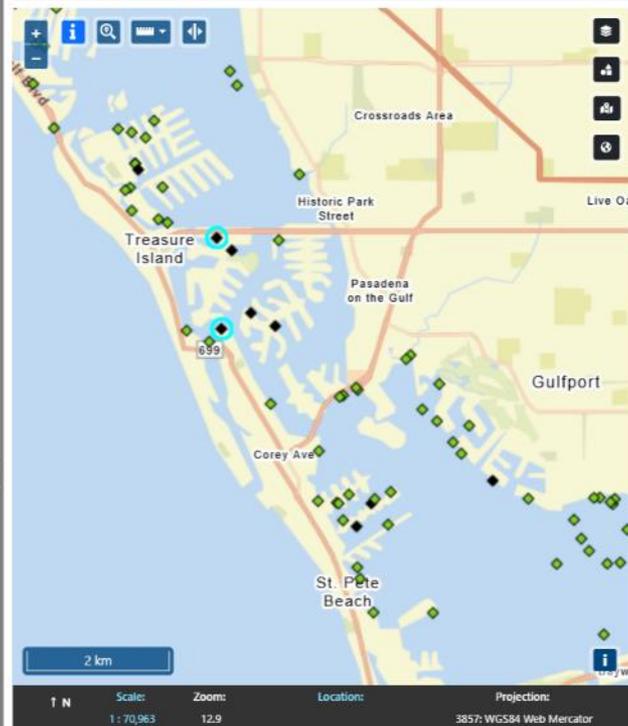
Target Not Found

9

Vessel Type

recreational 73

Hurricane Milton Targets



Location: 36.0180°, -75.2426°

Debris Targets in View

9 of 73

Status

4. Assessed - Target Not Found

Photos



Target Type

Vessel

Unique ID

251072_004

assessmentdate

2024-10-15T15:35:56Z

hotspot

uscg_comments

10/15 MO Jet ski floatable dock found where satellite image was detected. No

Marine Pollution Surveillance Reports (MPSR)

MARINE POLLUTION SURVEILLANCE REPORT



Analysis Provided by: The National Oceanic and Atmospheric Administration/National Environmental Satellite, Data and Information Service (NOAA/NESDIS)

REPORT DATE: JULY 10, 2017
 REPORT TIME: 0045Z (7/9/2017 2045 EDT)
 ANALYST: WESTBROOK

DATA SOURCE: LANDSAT-8 OLI
 MODE: Multispectral
 RESOLUTION: 30 meter
 IMAGE DATE/TIME: 7/9/2017 1521Z (1121 EDT)

Legend

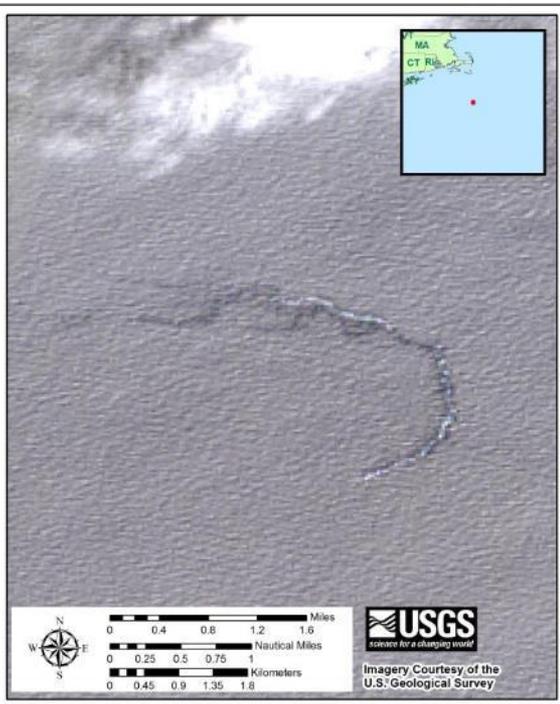
- █ Possible Oil
- █ Possible Thicker Oil
- ← False-Positive (not oil)
- + Suspected Point Source: [40°06'07" N / 69°55'04" W]

1.9 km² Area of Possible Oil

CONFIDENCE: High

REMARKS:
 An anomaly suspected to be oil was observed in satellite imagery. The anomaly measured 3 NM in length and 0.29 NM in width. The anomaly was observed 70 NM SSE of Nantucket. Winds were 5kts out of the SW.

Confidence is high that the anomaly seen was oil. It was exhibiting sheen and feathering in addition to having high contrast with the surrounding areas. It appears to have originated from a known shipwreck. No other natural phenomena or anomalies were seen in the area.



MARINE POLLUTION SURVEILLANCE REPORT



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Legend

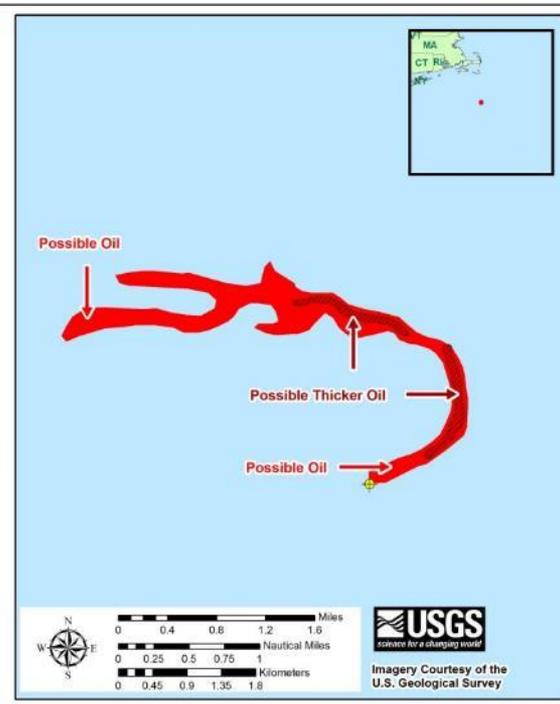
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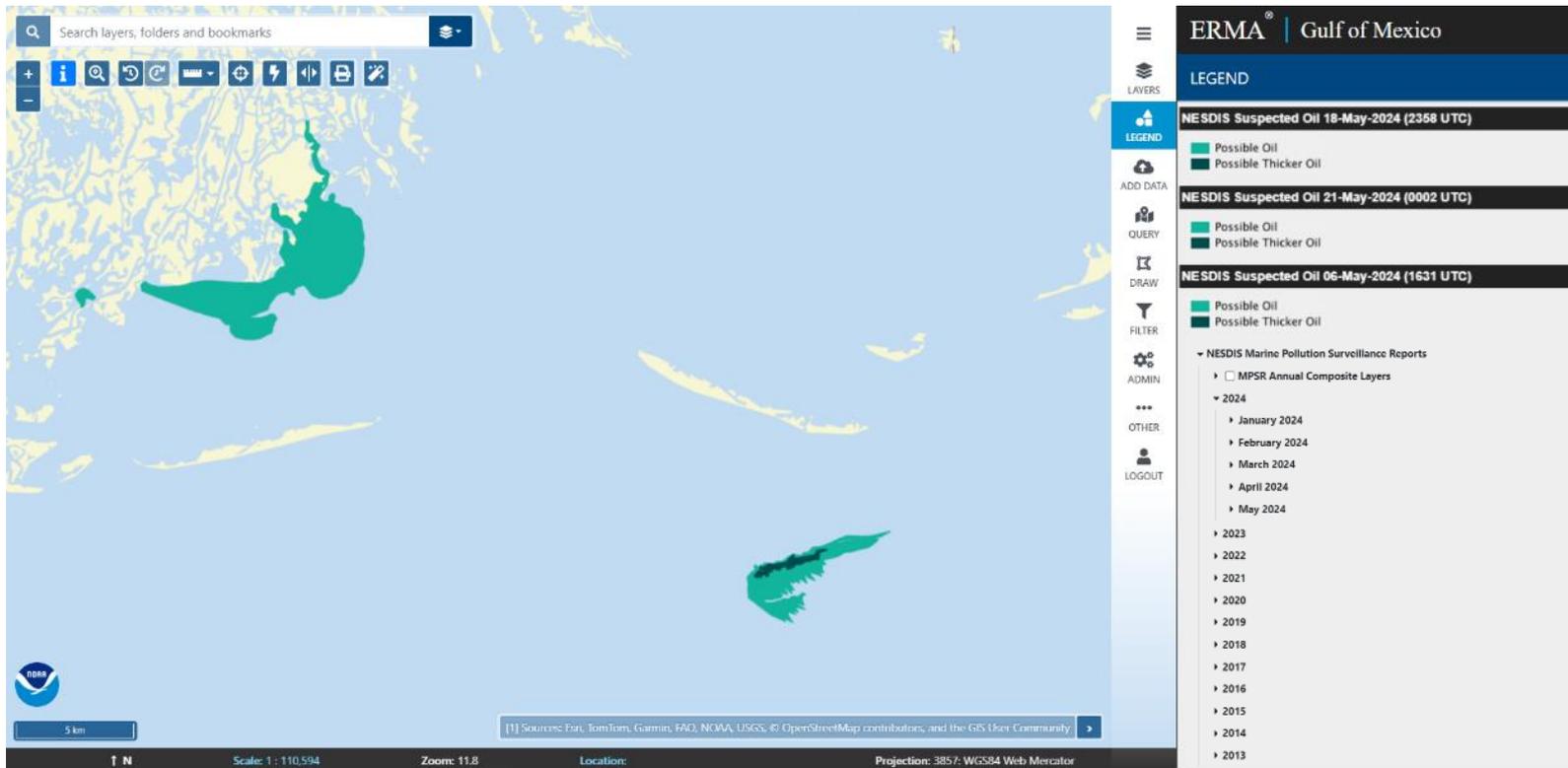
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Marine Pollution Surveillance Reports (MPSR)



ERM A Layer - Data View

Incident Response

- ResponseLink Hotlines
 - NOAA ORR Incident News
 - All ResponseLink Hotlines (NOAA)
 - Active
 - Major
 - Dispe
 - Dispe

view metadata

enable popup

zoom to extent

bring to front

send to back

view data

Right-click "view data"

- Columns
- Clear All Filters
- Refresh
- View Summary Stats
- Create Temporary Layer**

Chrome

in/view-data/36946#null=&Iq=%257B%252236946%2522%253A%257B%2522thre

ines (NOAA)

Rows 1 to 100 of 2,500 r

	name	spill_date	url	effort	threat	commodity
1001	Tarballs	2002-03-29	https://responselink.o			
1002	Little Lake Pipeline Spill	2002-04-07	https://responselink.o			South Louisiana
1003	Detroit River Mystery Sp	2002-04-10	https://responselink.o			Light lubricator
1004	Soy Oil Spill		https://responselink.o			Soy bean oil
1005	T/V Crude Target		https://responselink.o			West African Cr
1006	M/V Ocean Club	2002-05-19	https://responselink.o			diesel with som
1007	T/V Sea Jackie	2002-05-22	https://responselink.orr			heavy fuel oil
1008	SS Jacob Luckenbach O	2002-05-23	https://responselink.orr	On-scene support	Oil	Bunker fuel
1010	Green Canyon Block My	2002-05-30	https://responselink.orr	Products generated		
1011	Liquid Asphalt Release	2002-07-05	https://responselink.orr	On-scene support	Oil	Asphalt emulsi
1012	Navy Barge SWOB 286	2002-07-05	https://responselink.orr	Products generated	Oil	Waste Oil, Dese
1013	Magnolia Oil Field Well	2002-08-11	https://responselink.orr	On-scene support	Oil	Crude oil

Excel-style Filtering

Filter choices...

- Select All
- Notification
- On-scene support
- Phone support
- Products generated

OK Reset Close

String Filtering

Filtering Data

Edit Filters

Sector Delaware Bay Boom Strategies

Select a column to filter: +

priority 2

Filter choices... X

- Select All
- 1
- 2
- 3

OK Reset Close

ERMA | Atl

Sector Delaware Bay Bo

- Boom Priority 1
- Boom Priority 2
- Boom Priority 3

Port Penn

1000 mi

Scale: 1 : 69,851 Zoom: 13 Location: 39.50430°, -75.49948° Projection: 3857: WGS84 Web Mercator

LEGEND

Activate All Filters Deactivate All Filters Remove All Filters

Sector Delaware Bay Boom Strategies

1 filter

ADD DATA

QUERY

DRAW

FILTER

DASHBOARD

ADMIN

OTHER

LOGOUT



ERMA Tools - Add Map Data

- Add Excel, csv, GIS data to your ERMA session

ERMA® | Atlantic

ADD MAP DATA

To add your own data to ERMA's Map click the 'Add Data' button below. A temporary layer will appear in the "My Map Data" folder within the table of contents after it has been successfully loaded. Data added to the map will not be stored. Upon closing the browser, the data layers may be removed.

ADD DATA

Navigation icons: LAYERS, LEGEND, ADD DATA, QUERY, DRAW.

Add Map Data

Upload Type

Choose File

Files larger than 1mb may cause Microsoft Edge to become slow or unresponsive

SUPPORTED FILE TYPES

1. Shapefile

- Data must be uploaded with one layer per zip file
- Each layer zip file should contain all the component files of the shapefile

2. CSV or Excel file

- Must contain a header row of column names and spatial data labeled with some form of 'lat','lon' or 'latitude','longitude'
- Only the first sheet in the Excel workbook will be mapped

3. GPX File (.gpx) or KML (.kml)

4. GeoJSON File (.geojson or .json)

- Assumed to be in Geo coordinates (EPSG 4326)

5. Geo Tiff File (.tiff or .tif)

- Assumed to be in Geo coordinates (EPSG 4326)

Cancel

Save Layer

UAS Oil-on-Water Job Aids

Working with CG-MER to create SOPs/Job Aids to define UAS sensors, flight parameters, data management, flow into NOAA OR&R systems for oil-on-water

- **Job Aid #1: UAS for Oil Spill Response Guidance and Training for USCG and OR&R**
- **Job Aid #2: Oil Spill Response Data Management, Storage and Delivery Guidance for USCG and NOAA**

Release expected in January, 2025

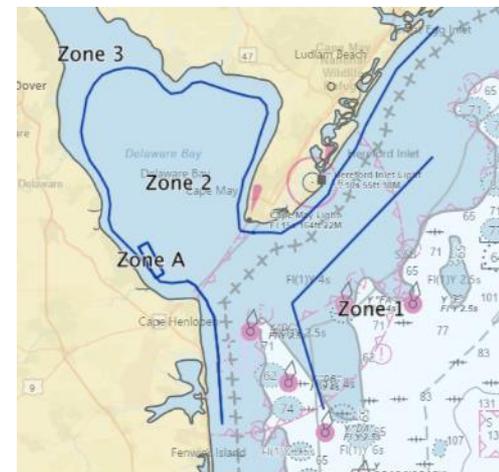
Discussion items

Abandoned and Derelict Vessels (ADVs) - would like to have these more consistently available throughout the US

Some sectors (DelBay) have provided planning/response data (burn/dispersant pre-auth areas/shoreline assessment zones) - we welcome more

GRS - would be nice to have consistent symbology/attributes throughout the US

MISLE / CART / EEIs? Subset would fit into ERMA really well



Summary Overview

ERMA Availability:

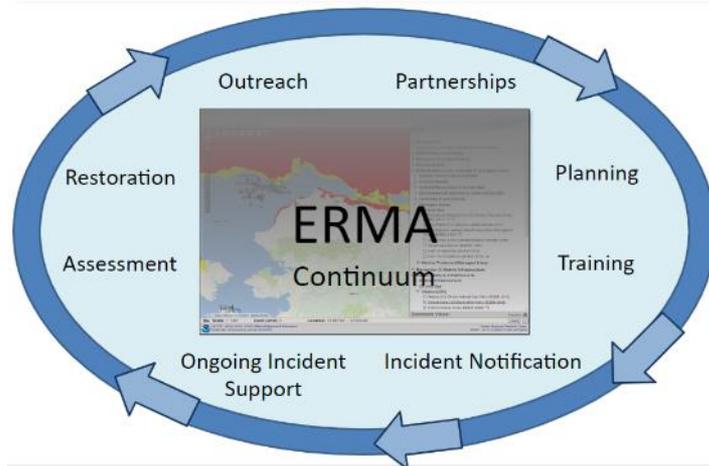
- USCG COP and Data Sharing
- 24/7 Availability
- Reach out to your SSC!

ERMA Data:

- Proprietary and Public data for and after an incident
- Controlled access to information
- 3 Things! (Search, Recent Data, Bookmarks)

ERMA Functionality:

- Supports a variety of ICS related activities
- Provides Analysis and Tools
- Dashboards and Reporting
- Always Evolving and Improving!



<https://erma.noaa.gov/atlantic>

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Questions?

