NOAA's National Weather Service



An Overview of the Weather Forecast Office's Role

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National Weather Service

MIssion and Vision



Mission:

Provide weather, water, and climate data, forecasts, warnings and impact-based decision support services for the protection of life and property and enhancement of the national economy.

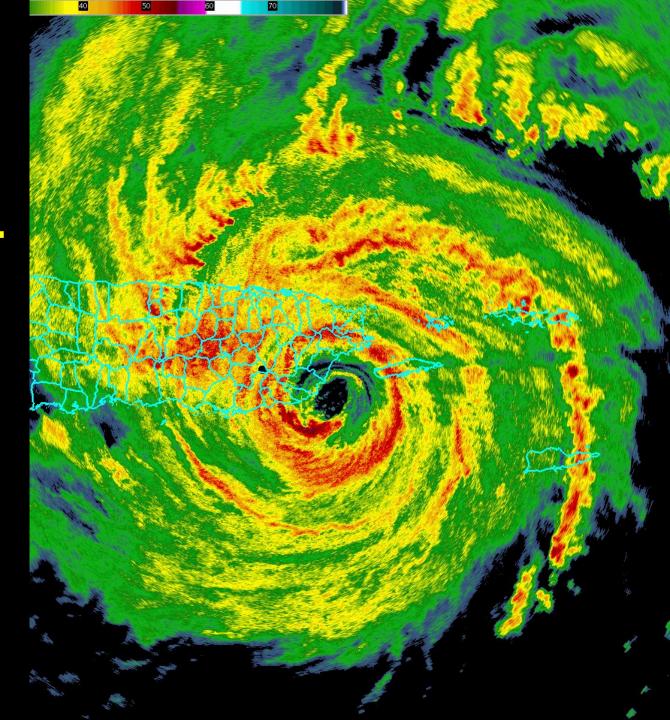
Vision:

A Weather-Ready Nation Society is prepared for and responds to weather, water, and climatedependent events.

Hurricane Maria LANDFALL

Sep 20, 2017 - 1015 Z

Maria made landfall in Yabucoa, Puerto Rico as a strong category 4 hurricane with maximum sustained winds of 155 mph.

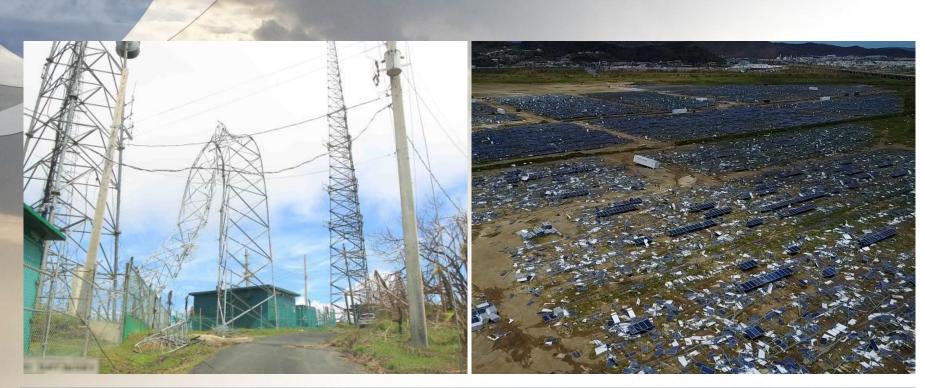






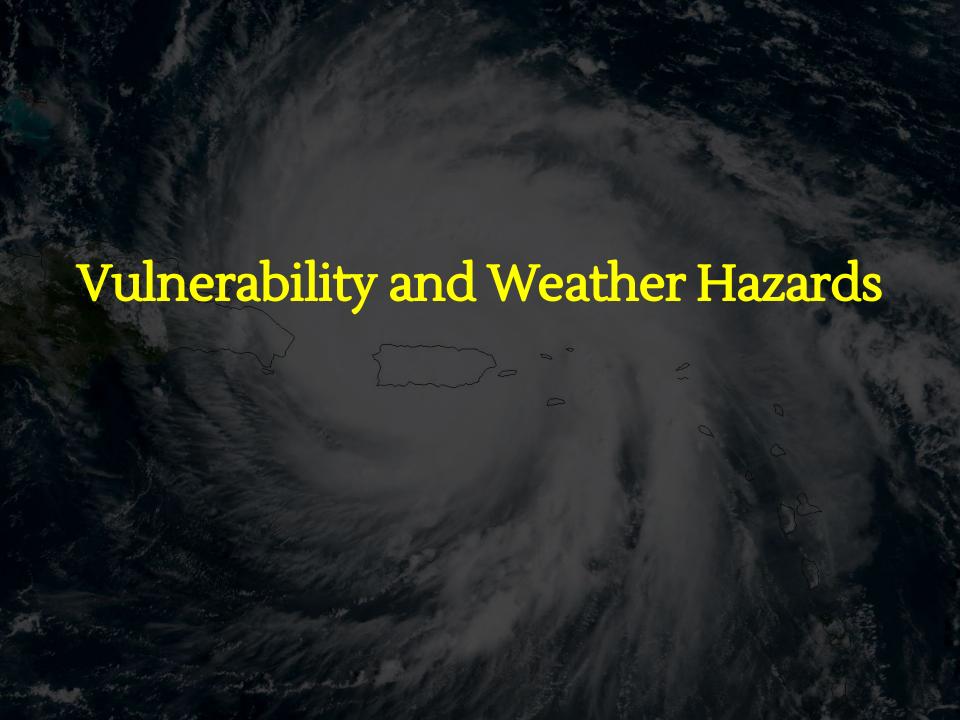


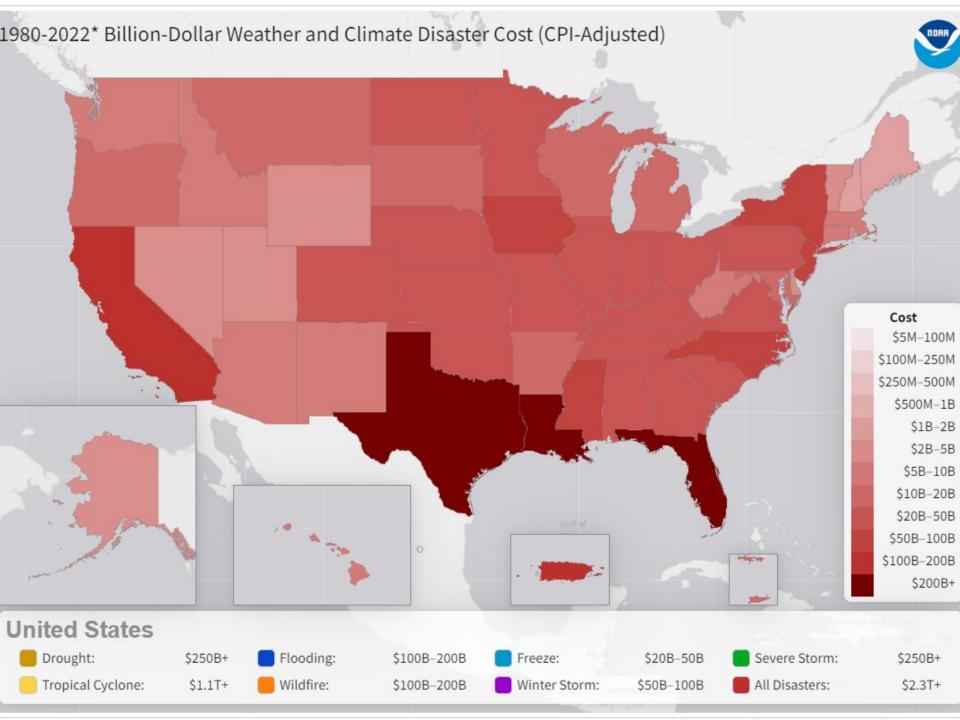


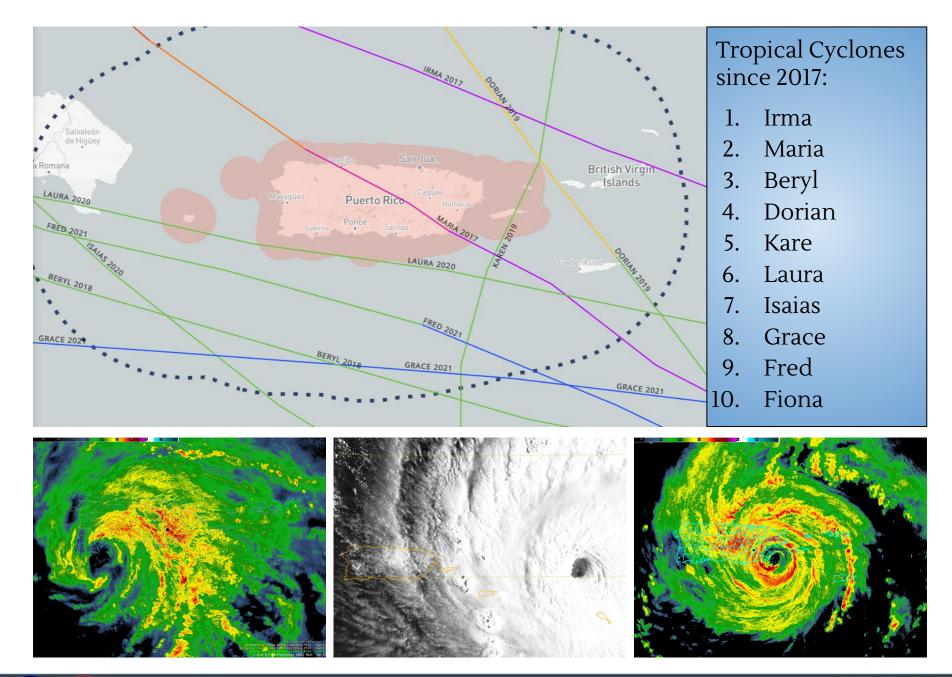










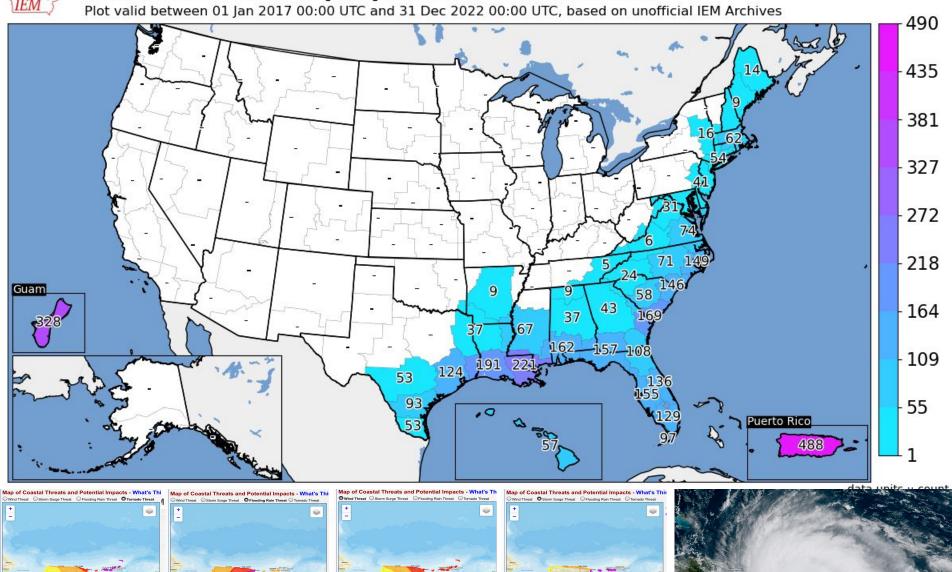


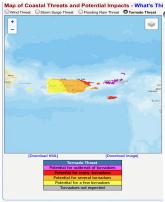


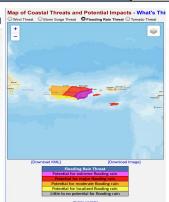


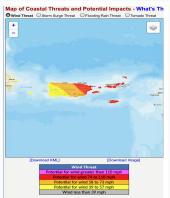


NWS Issuance Count of [HLS] Hurricane Local Statement



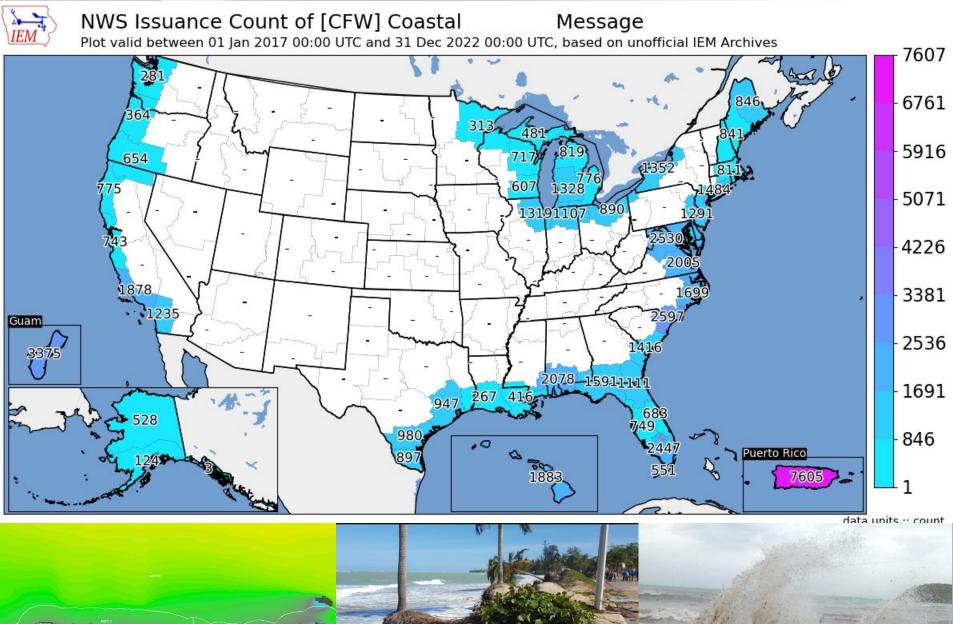
















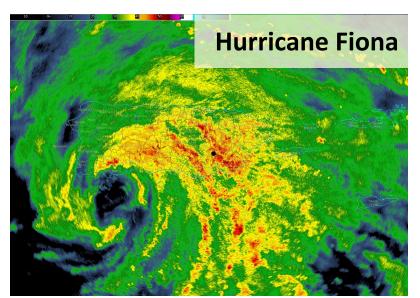
Impact-based Decision Support Services (IDSS)





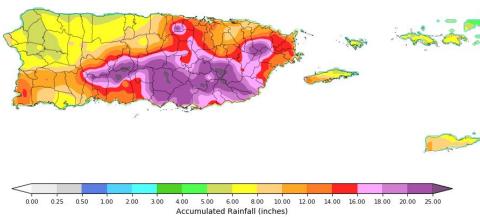






Preliminary Rainfall Totals for Puerto Rico and the U.S. Virgin Islands

Data Source: MPE (Radar Estimates & Rain Gages) Valid from 09/16/2022 18Z to 09/20/2022 12Z

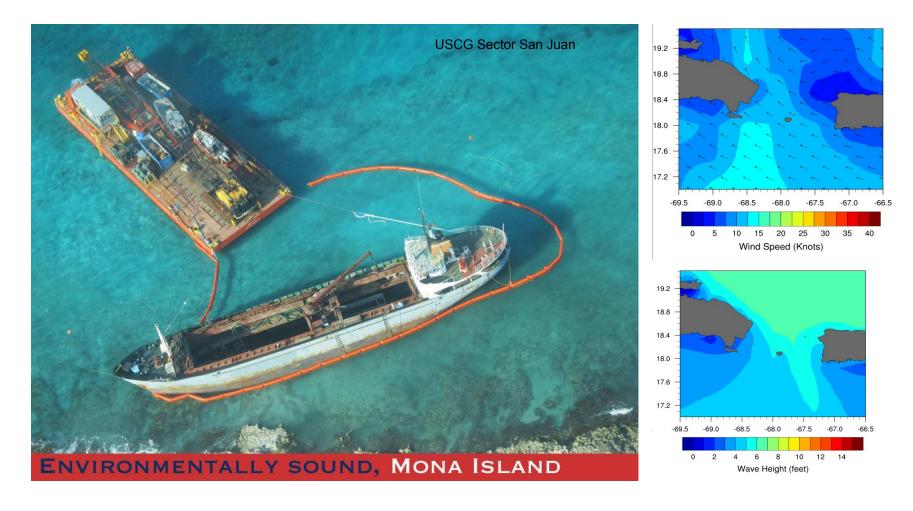






HAZMAT Events

Impact-based Decision Support Services









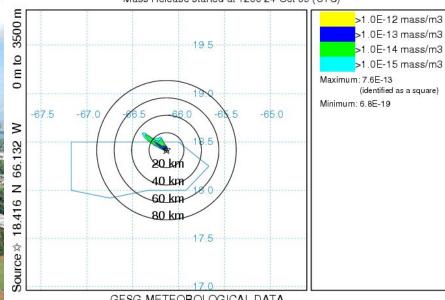
Decision Support

for Non-Weather Incidents



NOAA HYSPLIT MODEL

Concentration (mass/m3) averaged between 0 m and 3500 m Integrated from 1200 24 Oct to 1300 24 Oct 09 (UTC) Mass Release started at 1200 24 Oct 09 (UTC)



GFSG METEOROLOGICAL DATA

Job ID: 2260 Job Start: Sat Oct 24 17:37:42 UTC 2009 Release: lat.: 18.416308 lon.: -66.132238 Hgt: 0 to 3500 m Release Quantity: 1 mass Start: 09 10 24 12 0 Duration: 12 hrs, 0 min Pollutant Averaging/Integration Period: 1 hrs and 0 min Dry Deposition rate: 0 cm/s Wet Removal: None #Part: 24000 Meteorology: 12002 24 Oct 2009 - GFS Produced by user: ernesto.rodriguez



















NOAA Southeast and Caribbean Regional Collaboration Team (SECART)

Mission: To identify, communicate, and respond to regional needs, catalyze collaboration, and connect people and capabilities to advance NOAA's mission and priorities in the Southeast and Caribbean Region.

FY23-25 Priorities

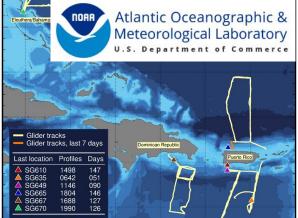
- Goal 1: Improve efficiency and effectiveness of NOAA's mission execution through engagement across NOAA line offices and with partners
- Goal 2: Improve Economic, Environmental, and Social Resilience of Communities to Weather, Water, and Climate Impacts
- Goal 3: Promote the sustainability of the region's coastal and marine ecosystems

Recent Key Activities:

- Annual Hurricane Awareness Webinar Series
- NOAA Disaster Resilience Workshops and Guide
- Southeast and Caribbean Disaster Resilience Partnership
- Climate and Equity Roundtable and Pilot Project
- Southeast Seafloor Mapping & Prioritization
- Response to Stony Coral Tissue Loss Disease









State of the beaches in Puerto Rico after Hurricane Maria (2017)

Ву

Maritza Barreto-Orta¹, Rafael Méndez-Tejeda², Ernesto Rodríguez³, Nahir Cabrera⁴, Elizabeth Díaz⁵, and Kevián Pérez⁶ Hurricane Maria: Coastal Geomorphological Impacts at Municipality Level (2017) Hurricane Category 3 Hurricane Category 4 Hurricane Category Hurricane Category 4 Legend High Damage (Field Work) High Damage (Remote Sensing) Beach Assessment conducted by 12.5 Lower Damage (Remote Sensing) Red de Playas de Puerto Rico y el Caribe (UPR-RP)

Lower damage (Field Work)