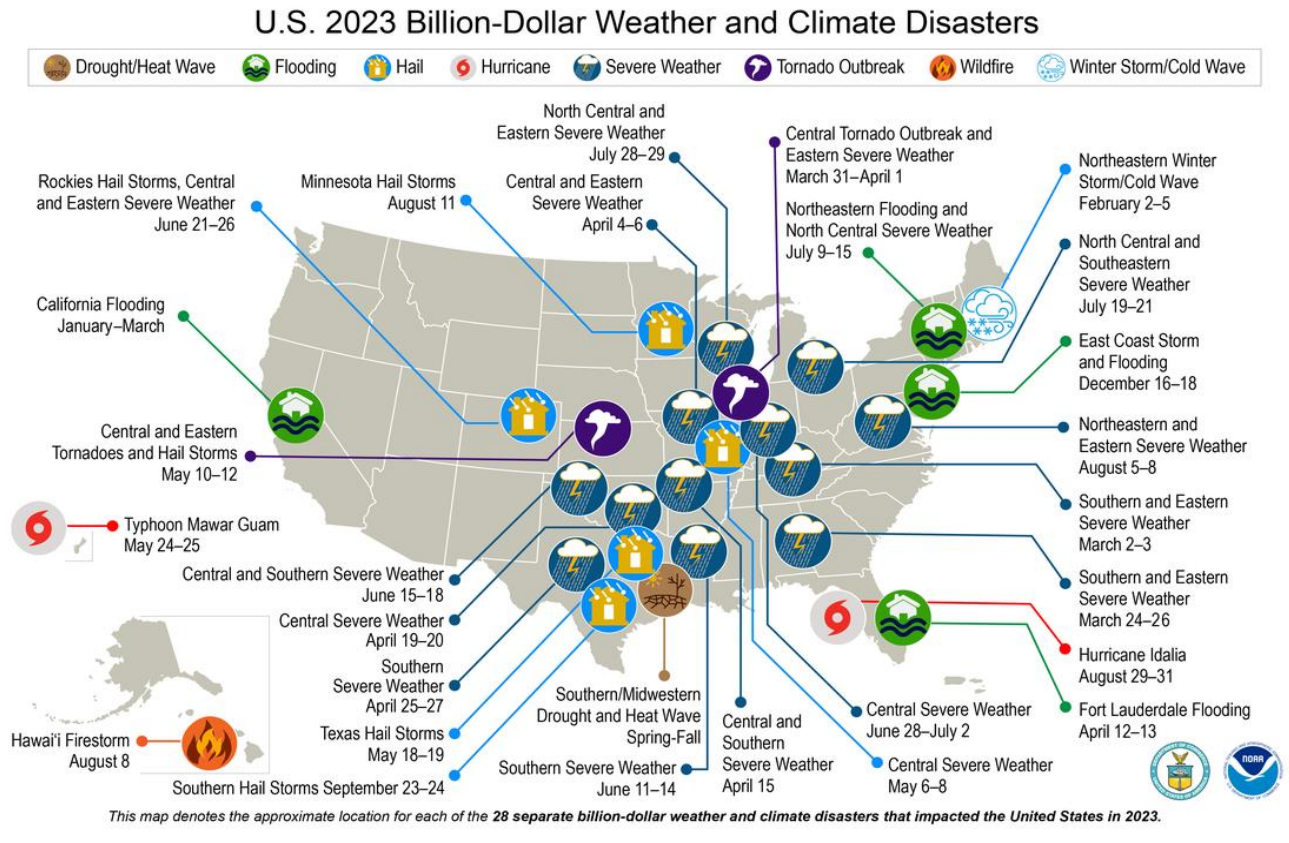
NOAA

National Oceanic and Atmospheric Administration

Elizabeth McLanahan
Director, Office of International Affairs

NOAA Research Priorities and Products to Support Disaster Management

U.S. 2023 Billion-Dollar Disasters



Research Strategy Goals (2020-2026)

1. Explore the Marine Environment

Increase knowledge of the oceans, coastal areas, and Great Lakes to support resource management and public awareness.

2. Detect Changes in the Ocean and Atmosphere

Produce, analyze, and interpret observation records to understand the Earth system and inform the public.

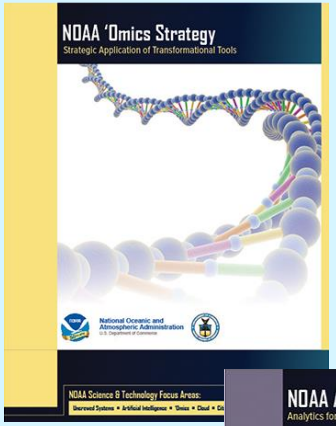
3. Make Forecasts Better

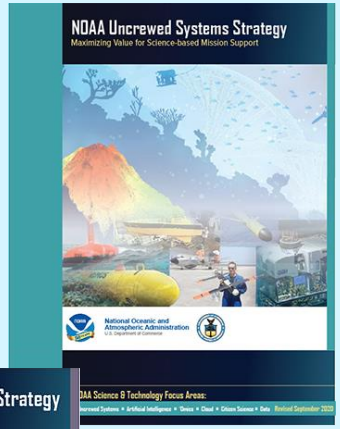
Improve accuracy, precision, and efficiency of forecasts and predictions to save lives and property and support a vibrant economy.

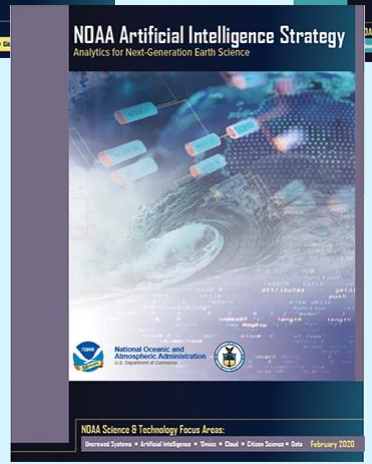
4. Drive Innovative Science

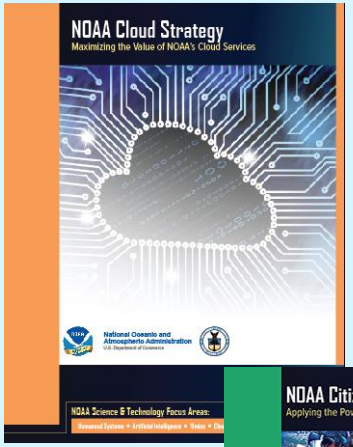
Cultivate and deliver mission-relevant research to lead the environmental science community.

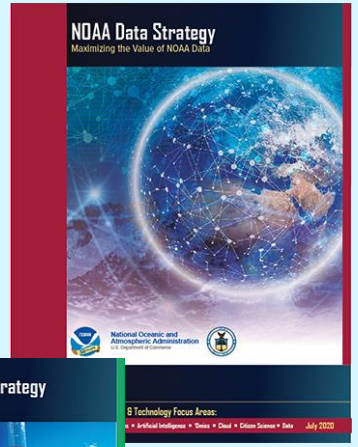
NOAA Science & Technology Focus Areas

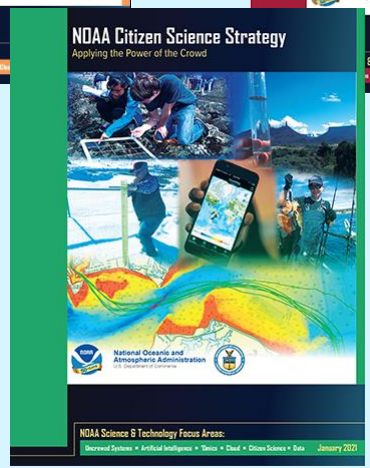




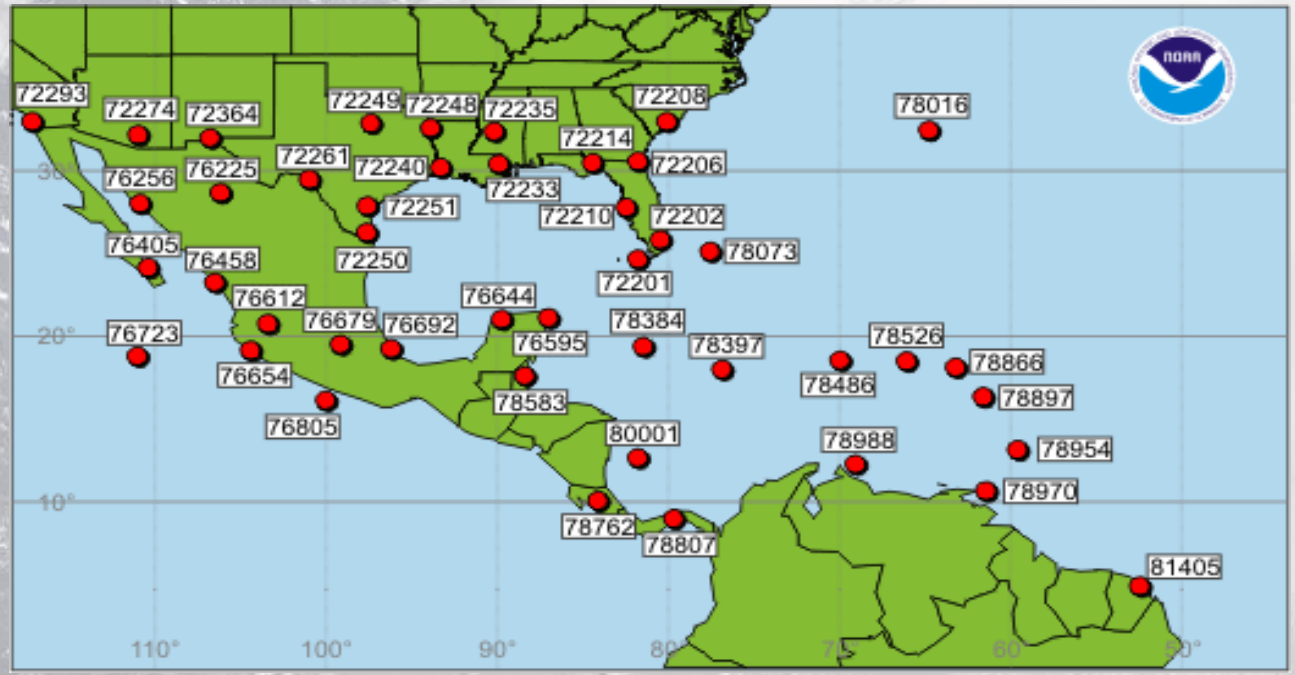






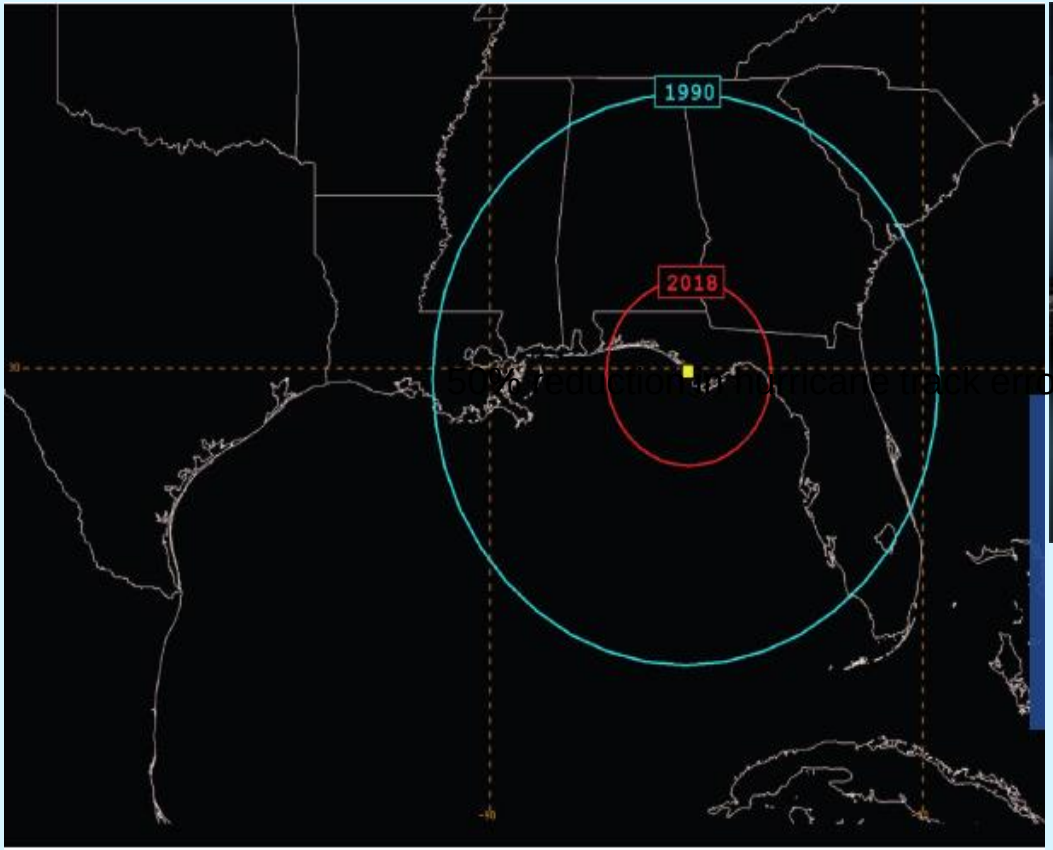


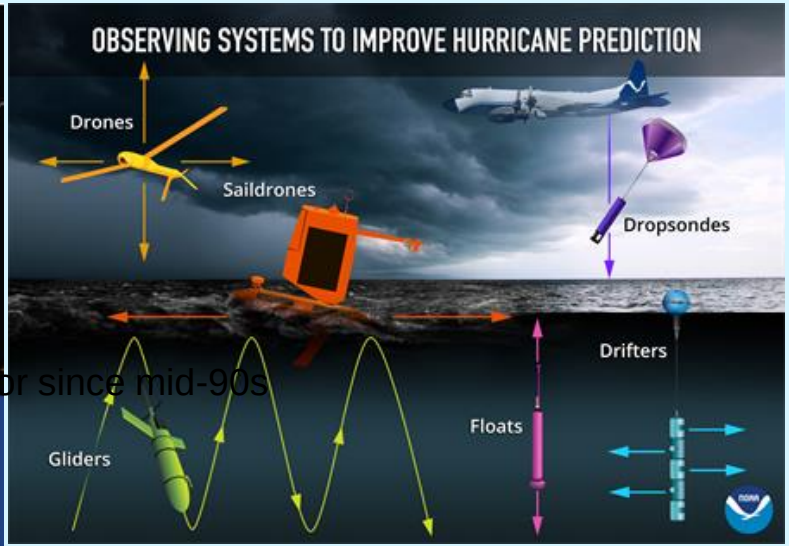
Upper Air Stations in Western Hemisphere



Collaboration for improved accuracy.

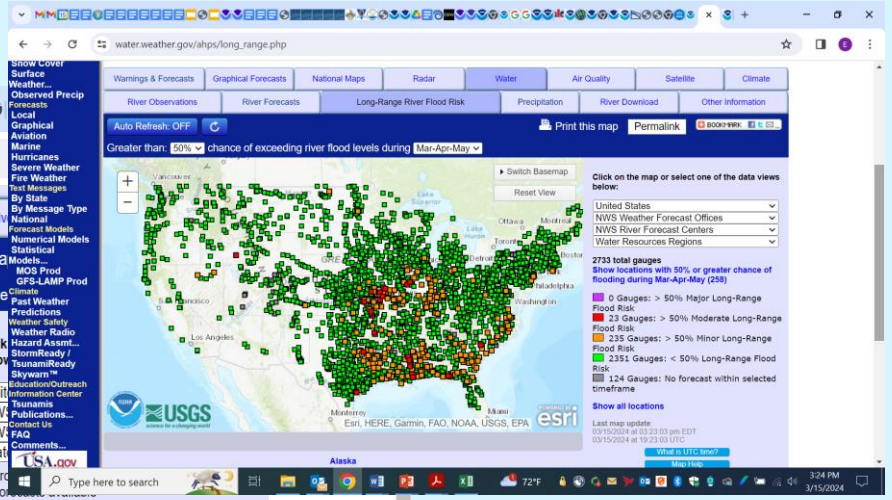
Improving Hurricane Forecasts



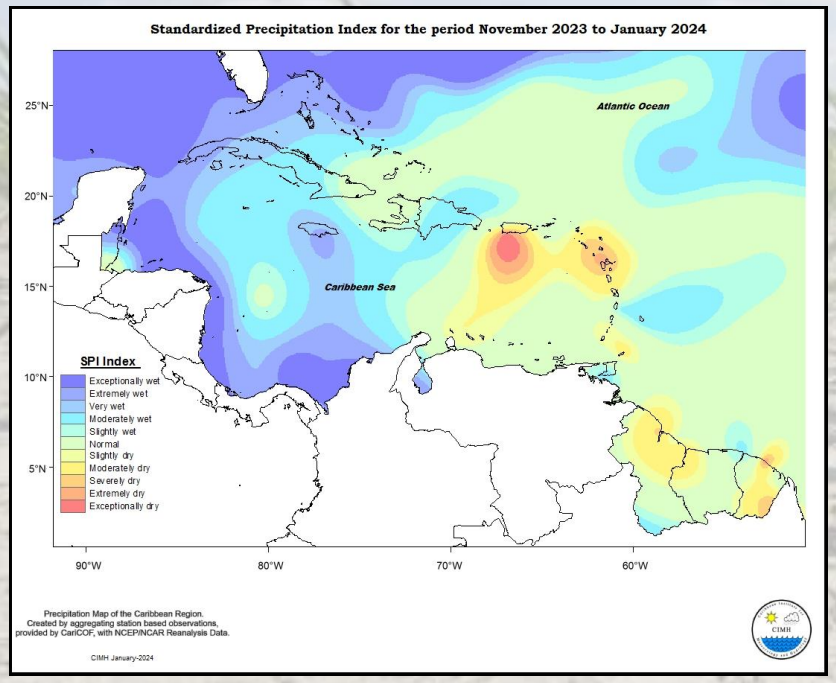


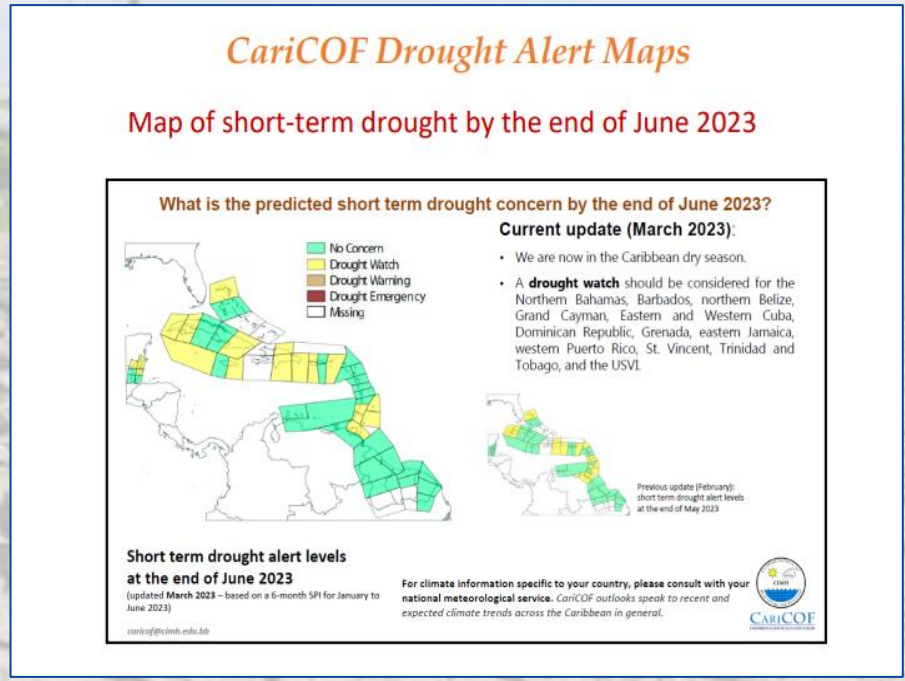
50% reduction in hurricane track error since mid-90s.
30% reduction in intensity error in the last decade.

River Flooding



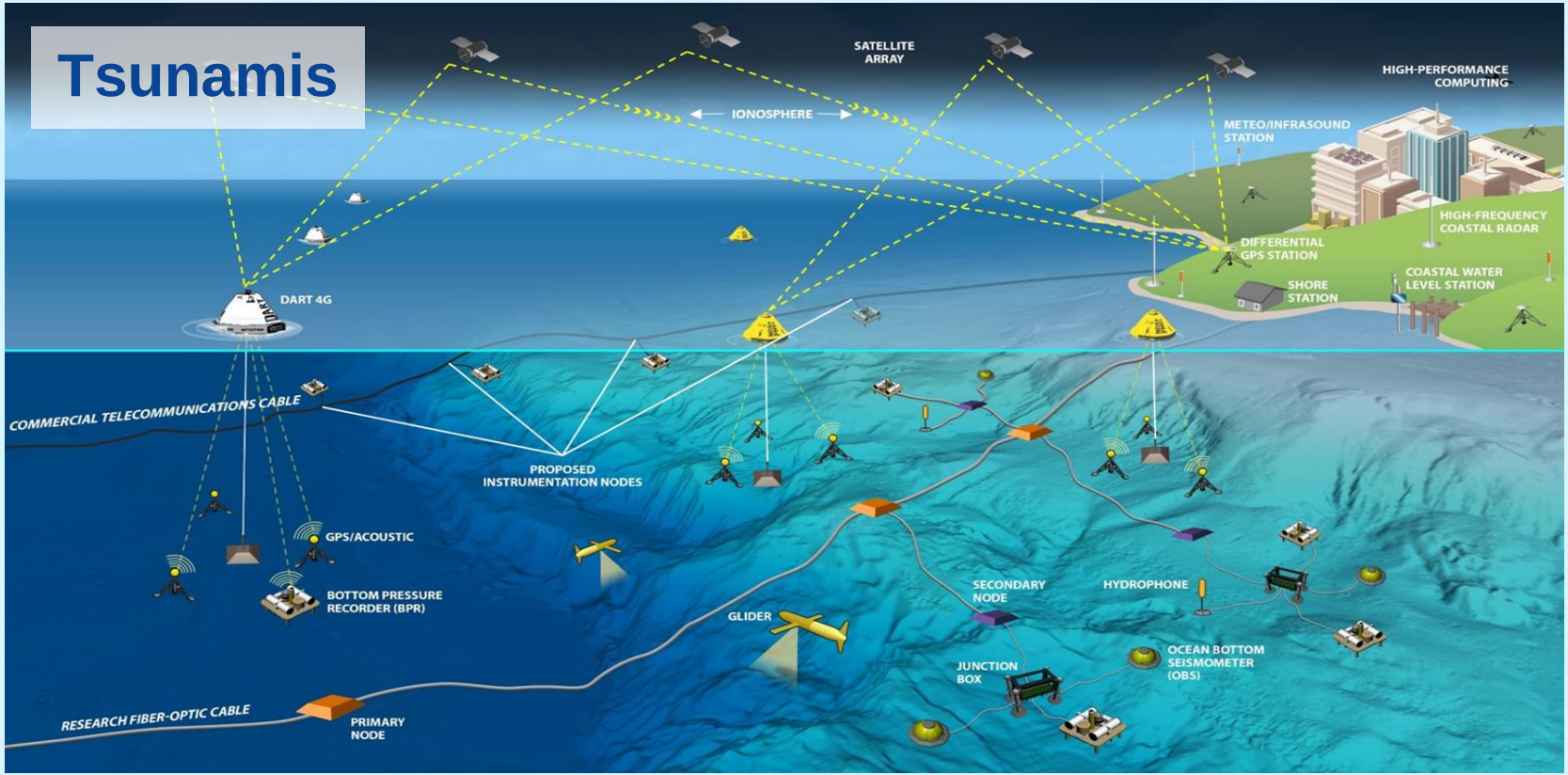
Drought





Cooperation to provide regional outlooks.

Tsunamis

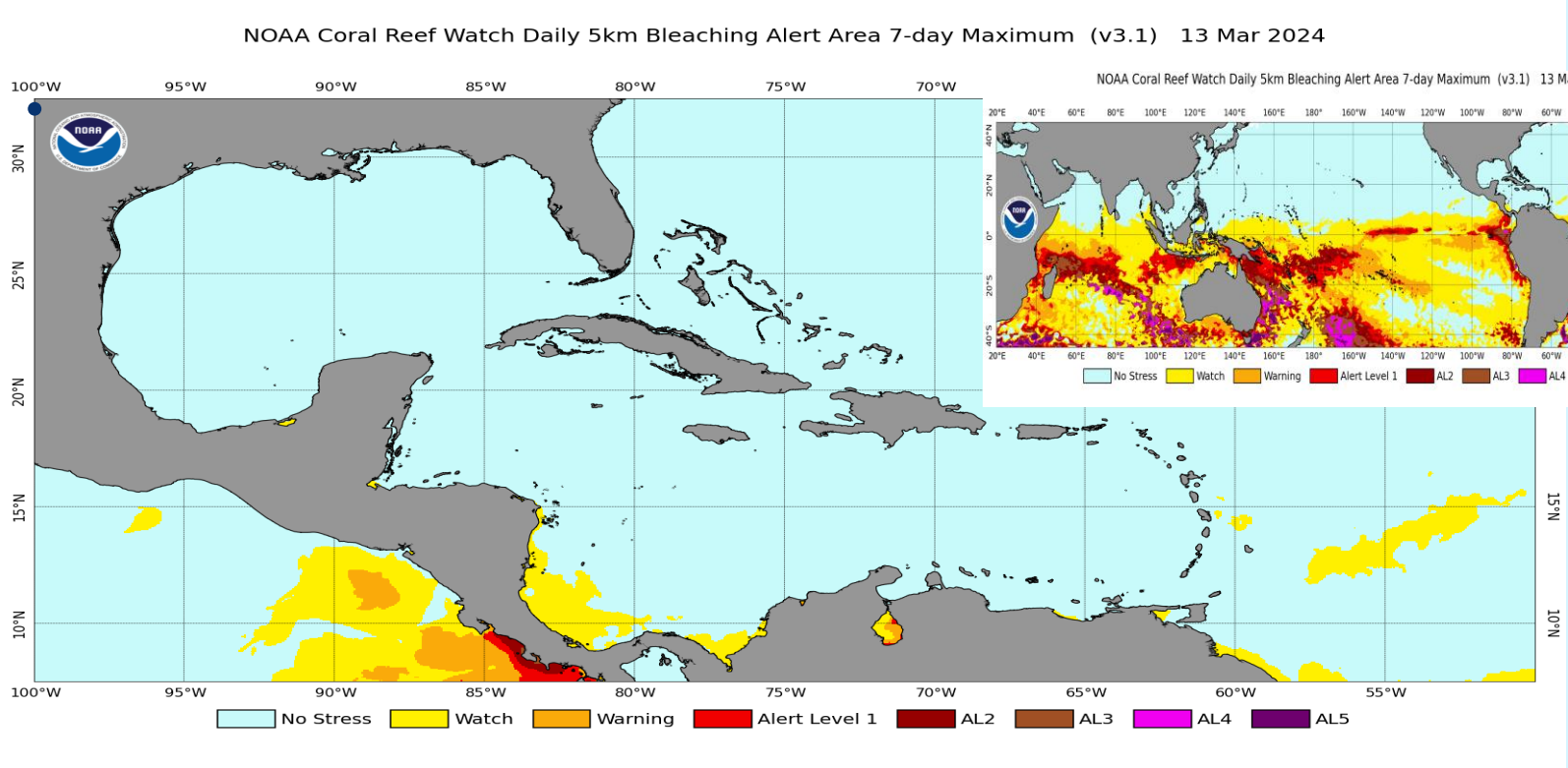


Overview of different types of sensors and technologies needed to produce reliable forecasts.

Oil Spills

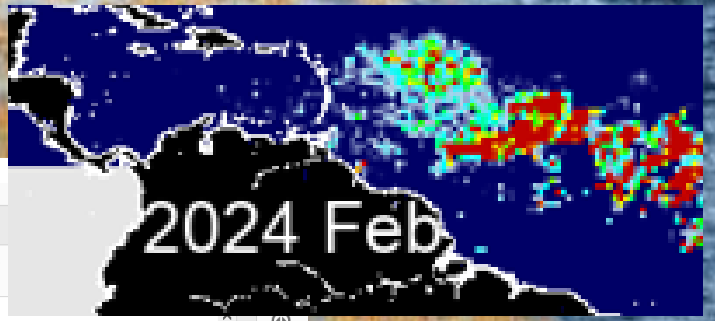
NOAA responds to over 150 oil and chemical spills in U.S. waters each year.

Coral Bleaching



Alerts to help managers prepare.

Sargassum Inundation



Sargassum 2.pdf - Adobe Acrobat Pro (32-bit)

File Edit View E-Sign Window Help

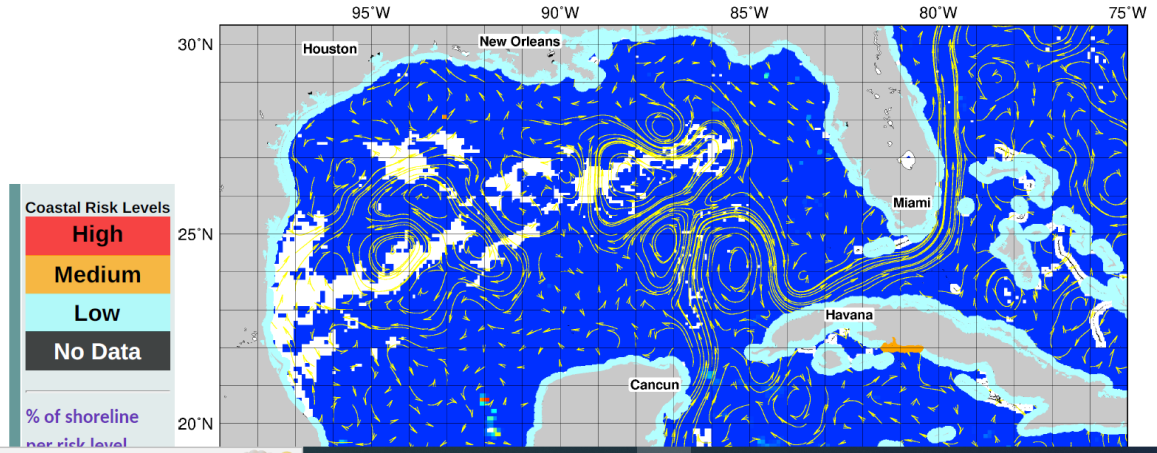
Home Tools Sargassum 2.pdf

1 / 1 126%

Experimental Weekly Sargassum Inundation Risk (SIR v1.3)

By the National Oceanic and Atmospheric Administration (NOAA), and the University of South Florida (USF)

Status: Mar 5-11, 2024



Type here to search

7:19 AM 3/15/2024

Thank You!

Elizabeth.McLanahan@noaa.gov