

NHC/TAFB Weather Support for the USCG

Stephen Konarik

NHC/TAFB Marine Forecaster

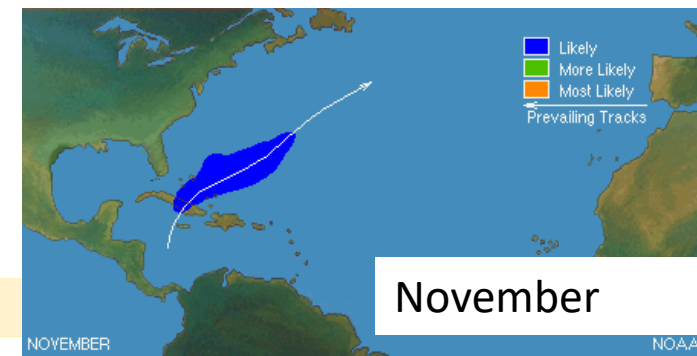
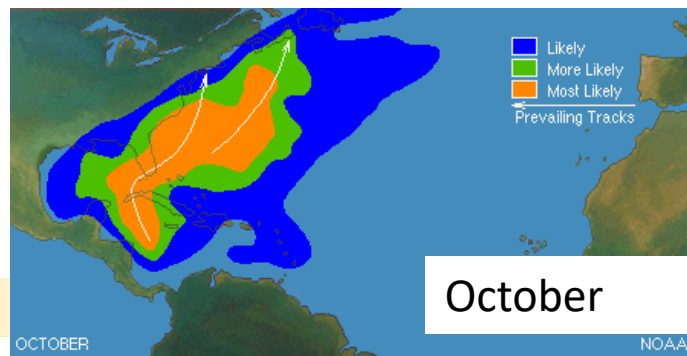
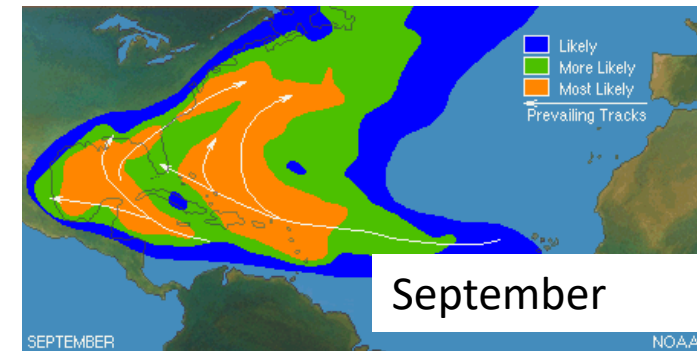
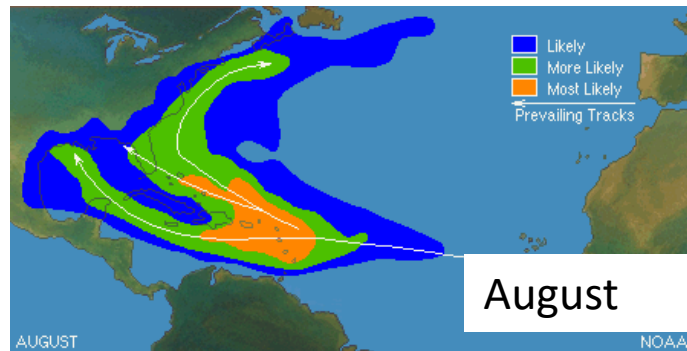
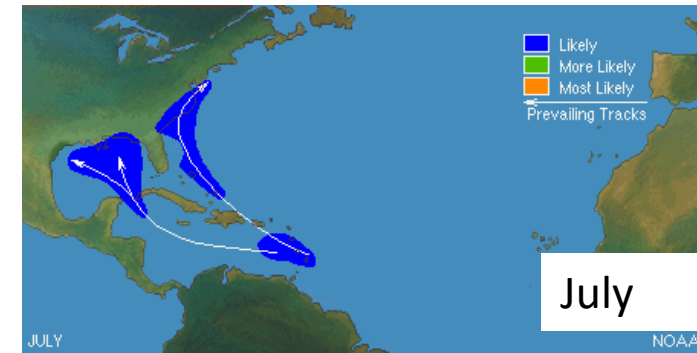
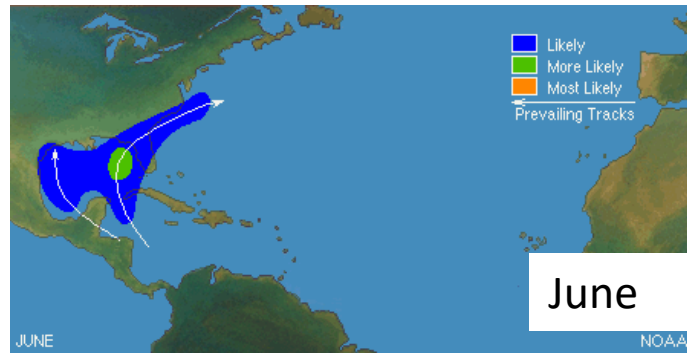
USCG/Navy/NOAA Partners Focal Point



Typical Areas for Tropical Storms and Hurricane Formation



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



USCG/NOAA Memorandum of Agreement

Interagency coordination to support our common goals



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

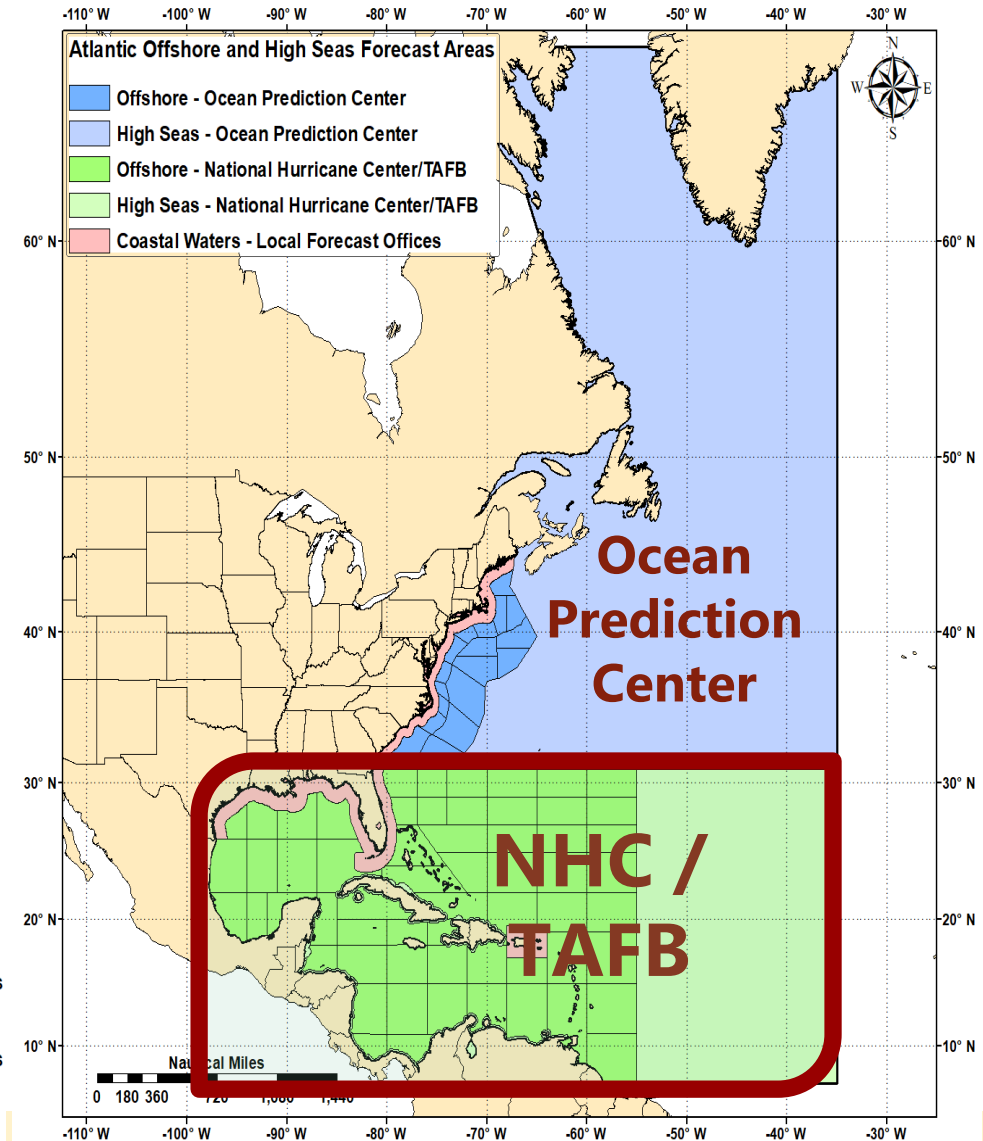
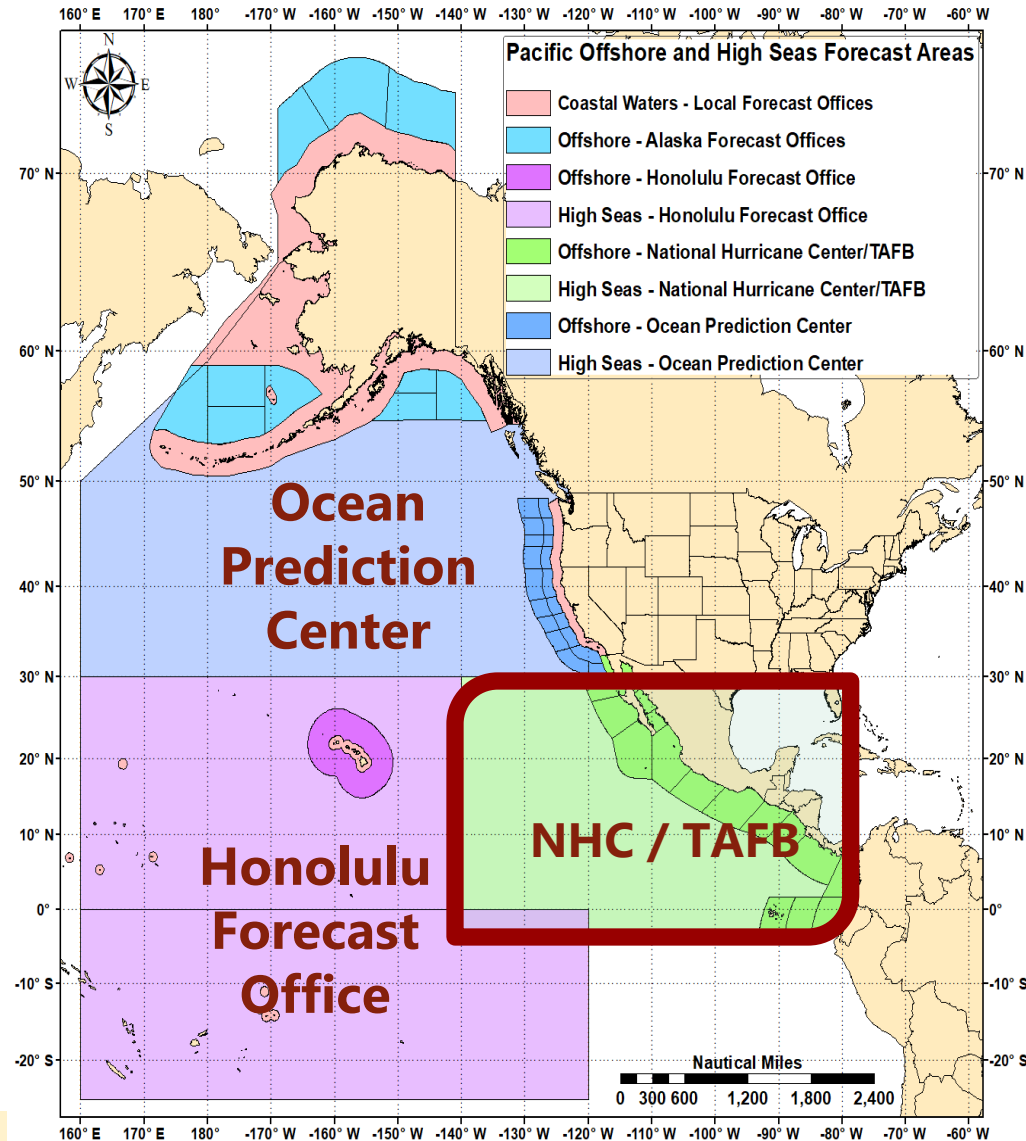
- “NOAA/NWS agrees to provide USCG units with weather information necessary for the safe and successful accomplishment of their assigned missions.”
- Interagency coordination through “meteorological forecasts and warnings provided by the NOAA/NWS in support of USCG missions.”
- “...Specific forecasts (i.e., Spot Forecasts) and briefings may be provided for extraordinary events...”



NHC/TAFB – Areas of Responsibility



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

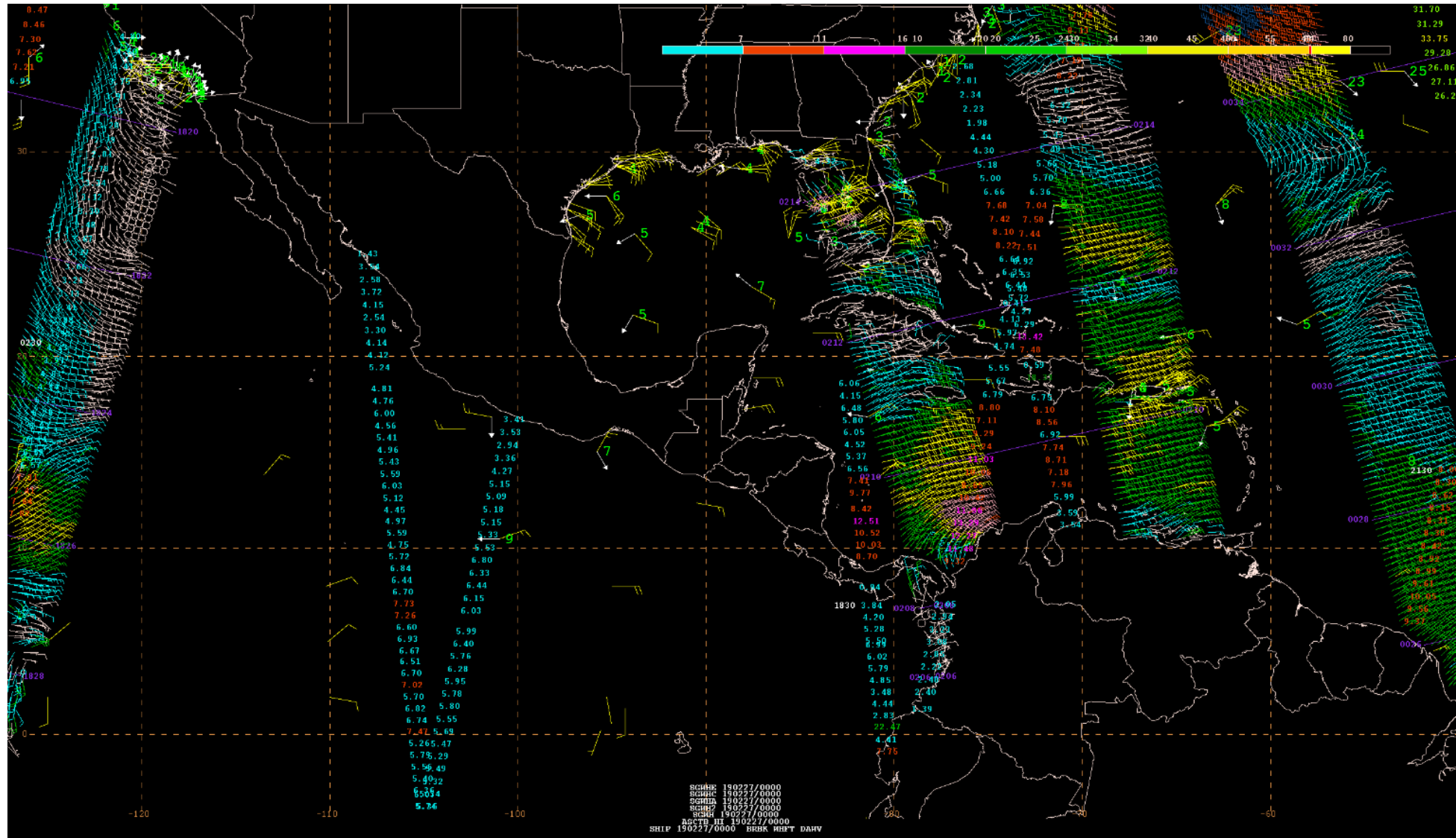


Tools We Use: Observations

Ship reports, Buoys, Satellite derived winds and waves, Etc.



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Tools We Use: Satellite

GOES-16: A new era of geo-stationary satellite imagery and data



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



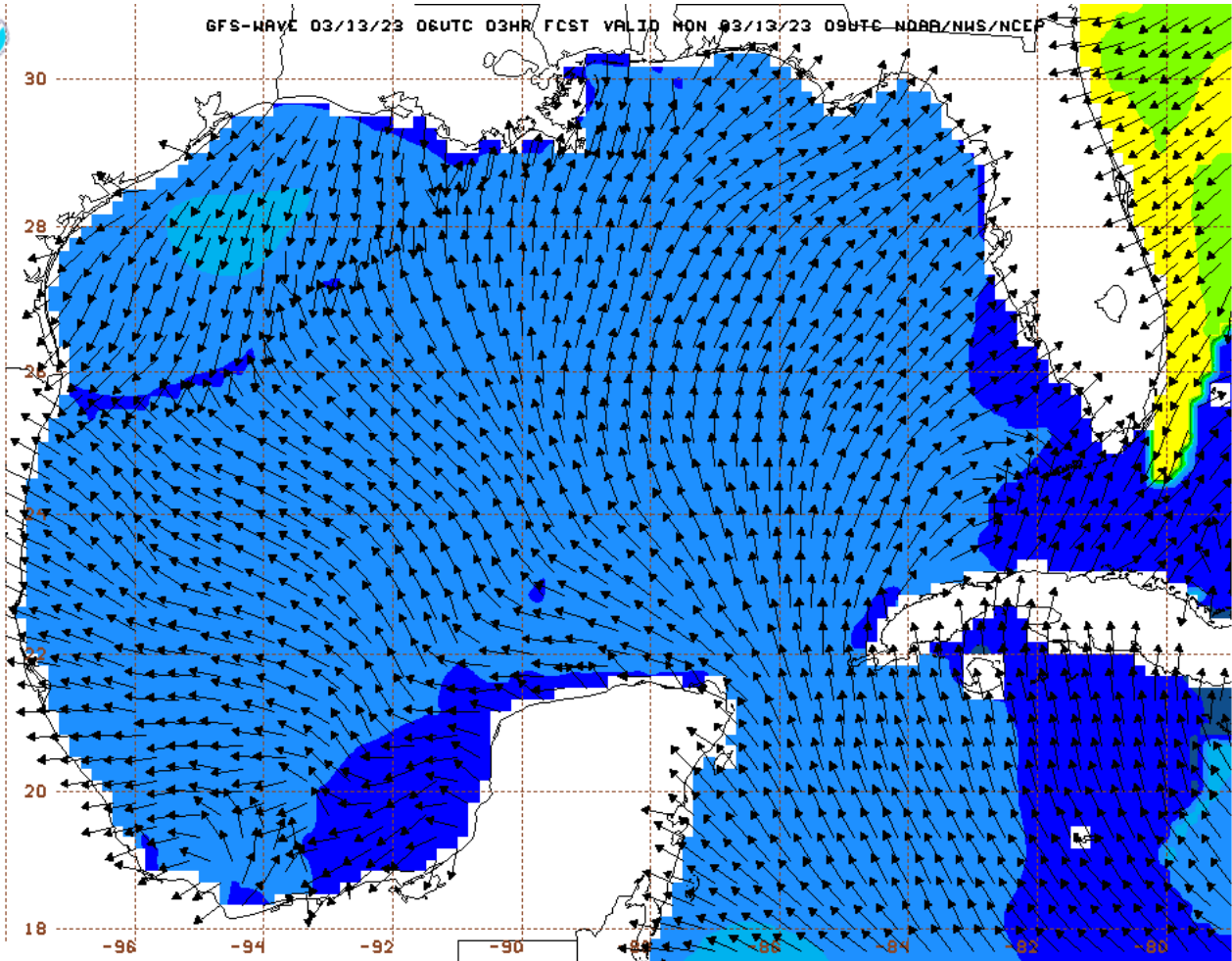
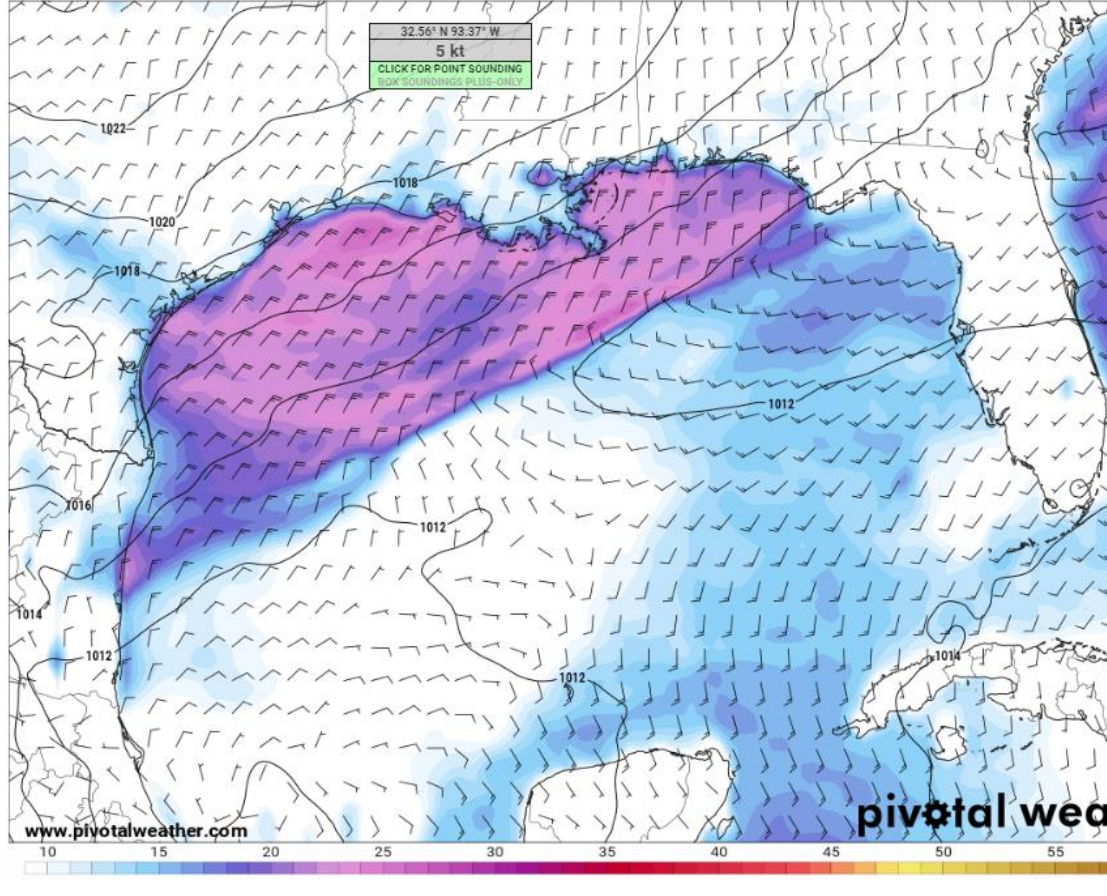
13 Mar 2023 13:10Z - NOAA/NESDIS/STAR - GOES-East - GEOCOLOR Composite

Tools We Use: Global Computer Models



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

MSLP (mb) and 10 m AGL Wind (kt)
F006 Valid: Mon 2023-03-13 12z

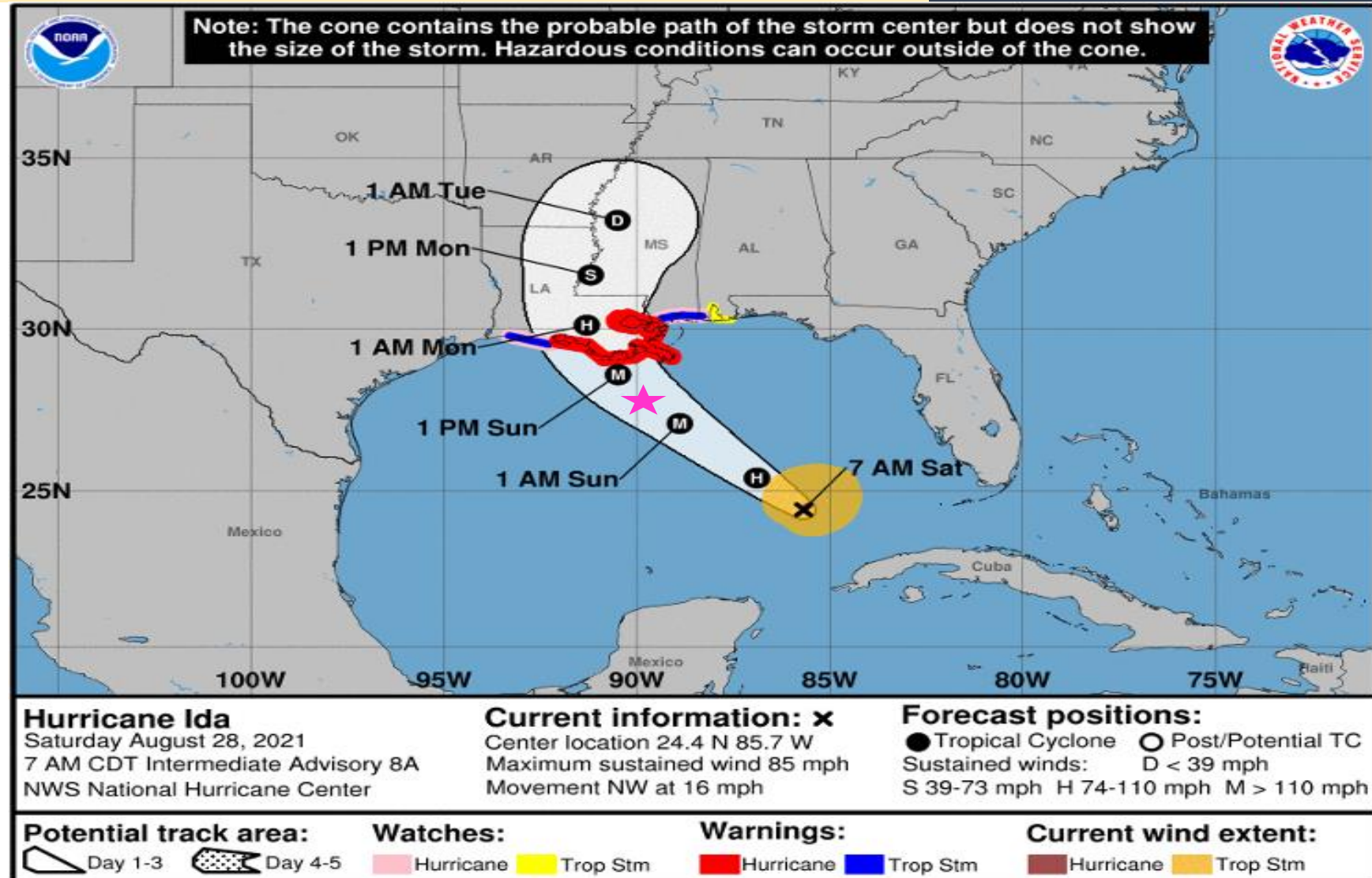


GFS-WAVE MON 230313/0900V003 PEAK WAVE DIR AND PERIOD (SEC)

Tools We Use: NHC/HSU Forecasts



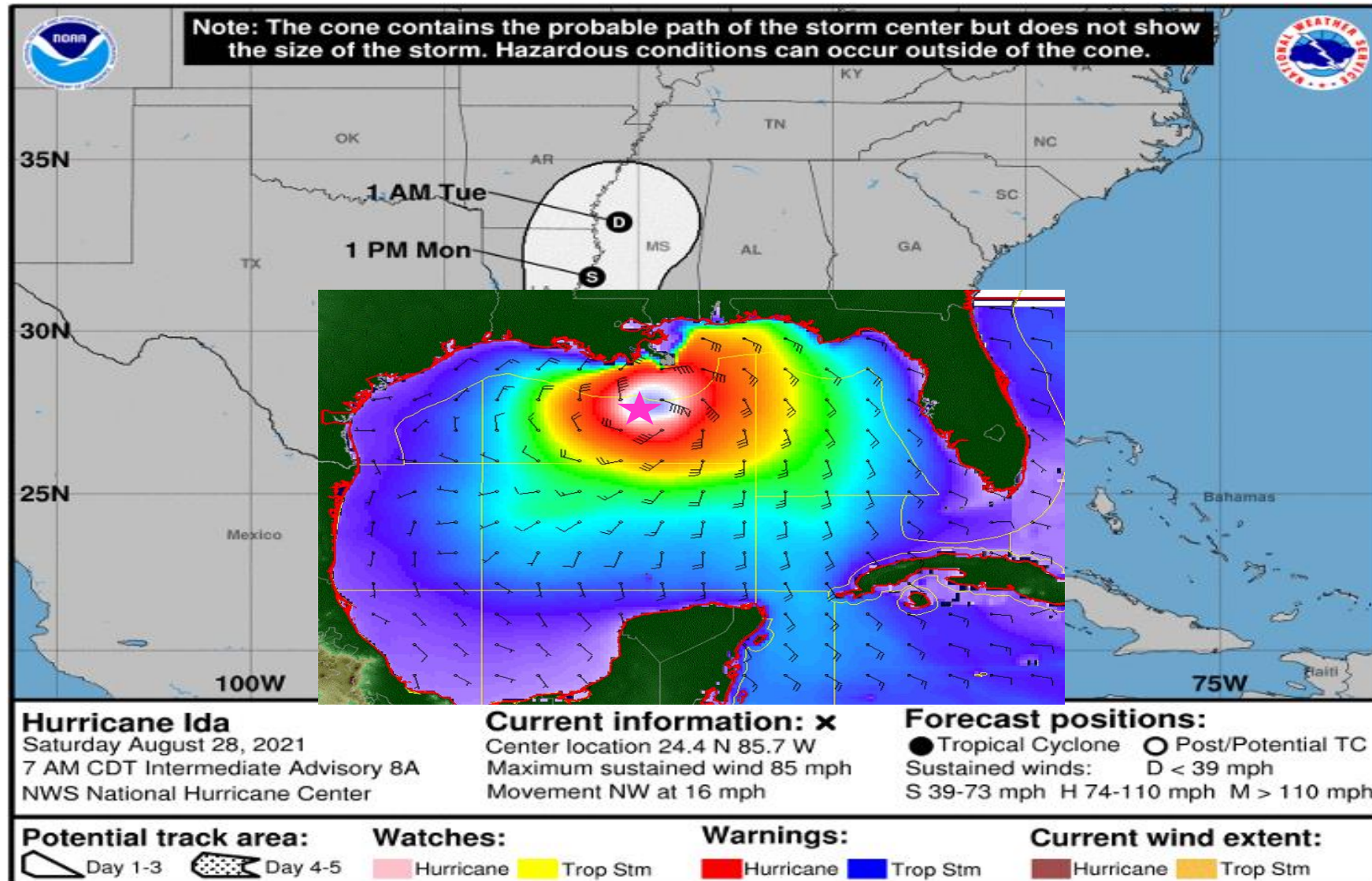
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Tools We Use: NHC/HSU Forecasts



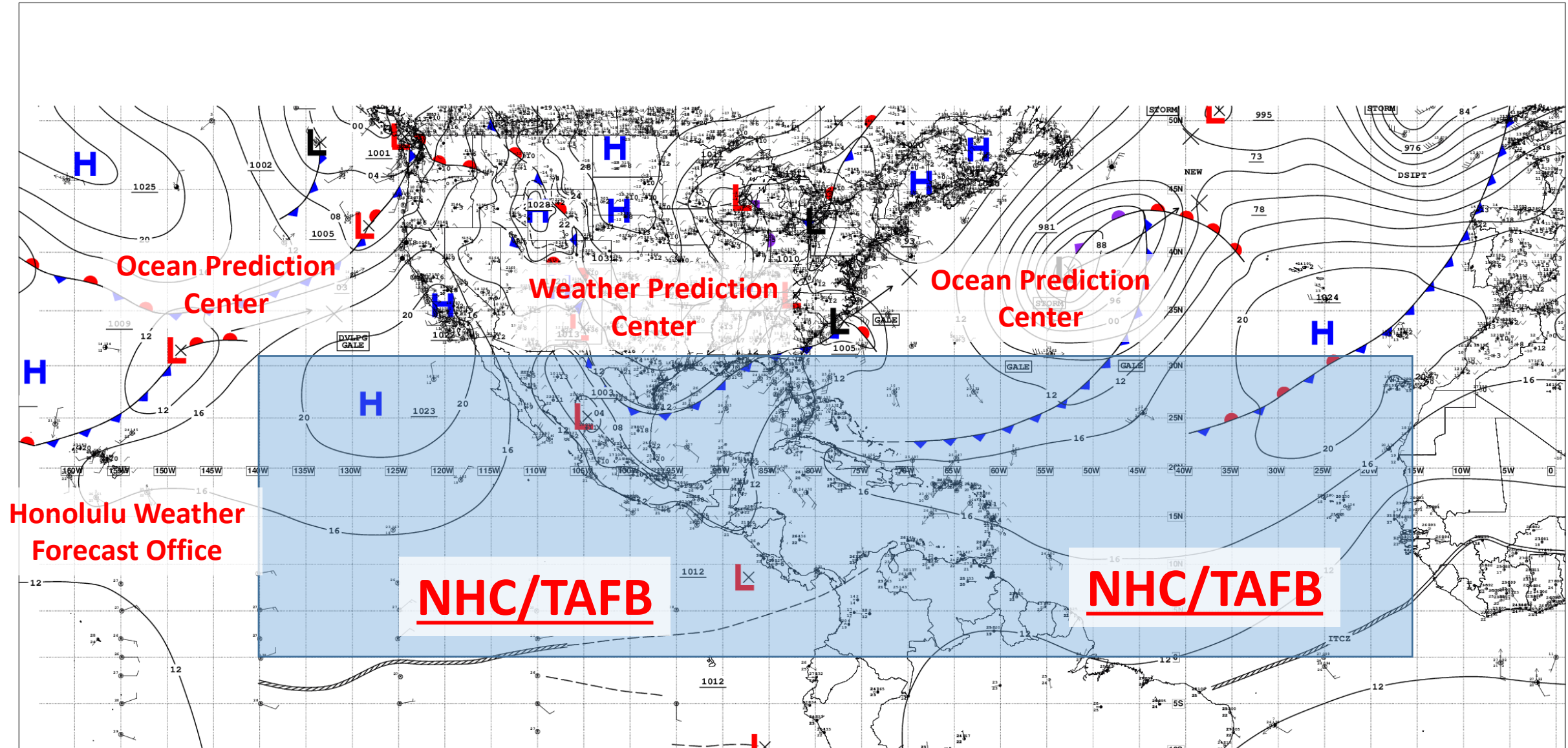
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Information We Produce: Unified Surface Analysis



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

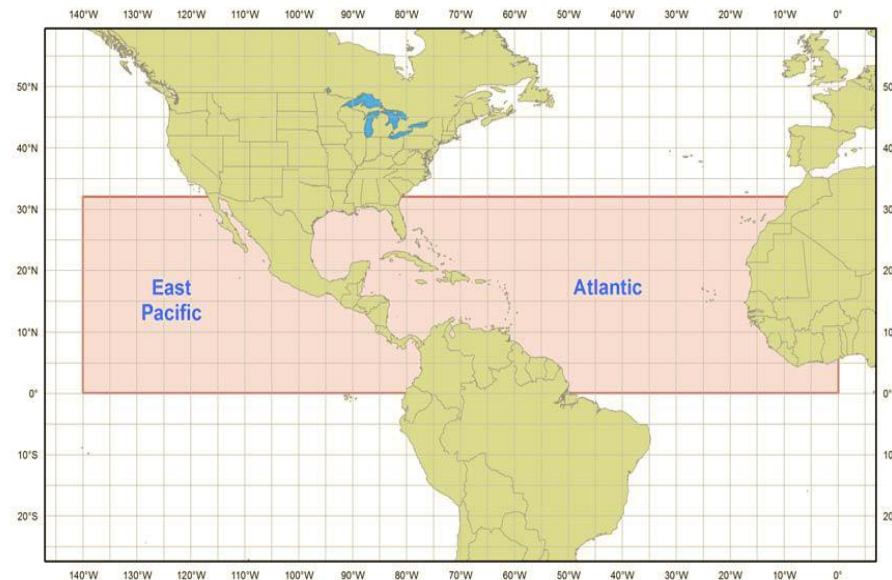




Describes major synoptic weather features and significant areas of disturbed weather in the Tropical Atlantic, including the Gulf of Mexico.

Includes:

- Special Features
- Tropical Disturbances
- Tropical Cyclones
- Gale/Storm/Hurricane Warnings
- Tropical Waves
- ITCZ/Monsoon Trough
- Synoptic Discussion



Tropical Weather Discussion
NWS National Hurricane Center Miami FL
1205 UTC Mon Mar 13 2023

Tropical Weather Discussion for North America, Central America, Gulf of Mexico, Caribbean Sea, northern sections of South America, and Atlantic Ocean to the African coast from the Equator to 31N. The following information is based on satellite imagery, weather observations, radar and meteorological analysis.

Based on 0800 UTC surface analysis and satellite imagery through 1000 UTC.

...SPECIAL FEATURES...

Atlantic Gale Warning: A cold front enters the forecast waters near 31N48W and continues southwestward to 24N60W then to near 23N70W, where it have begun to dissipate. Gale-force SW winds are within 180 nm E of the front and N of 25N, where seas are 13 to 17 ft in westerly swell. Behind the front, gale-force westerly winds prevail to the N of 30N between the front and 56W. Large NW swell trailing the front is producing seas of 16 to 23 ft across this area. Fresh to strong winds extend southward to 25N E of the front and to 27N behind the front, and eastward to 44W. Numerous showers with some moderate thunderstorms are within 180 nm ahead of the front affecting mainly across the waters N of 24N. The active weather is expected to shift eastward with the front through this afternoon as the front moves quickly eastward across the waters N of 27N. Gale-force winds are expected to lift N of 31N and the discussion area by sunrise, leaving strong winds to near 30 kt and large seas prevailing on both sides of the front. Seas of 12 ft and greater will spread SE to 23N by afternoon, while peak seas near 24 ft are expected to reach along 31N this morning behind the front. Seas of 12 ft and greater will shift SE through Tue night and finally lift out to the NE of the area along 35W late Wed morning.

Please read the latest High Seas Forecast at <https://www.nhc.noaa.gov/text/MIHSHSFAT2.shtml> for more details on the gale event and associated large swell.

...MONSOON TROUGH/ITCZ...

The monsoon trough enters the Atlantic through coast of Sierra Leone near 09N13W, then continues SW to near 05N18W. The ITCZ extends from 05N18W to the equator at 28W to near the coast of NE Brazil near 03.5538W. Scattered moderate convection is noted from 01N to 04N between 03W and 16W. Clusters of moderate to strong convection are noted from 02.5N to 03.5S between 17W and 33W.

GULF OF MEXICO...

A weakening ridge dominates most of the Gulf waters, producing moderate to fresh S to SW winds E of 90W. Gentle S winds prevail for the SW and west-central Gulf. The latest buoy and altimeter data show seas of 3 to 5 ft across this area. A cold front has entered the northern Gulf overnight, and extends from the western Florida Panhandle to just south of Brownsville, Texas. Widely scattered moderate convection is along the front across the Florida coastal waters extending into the Big Bend. Fresh to strong N to NE winds are building in behind the front, and have raised seas to 5-7 ft across the Texas coastal waters.

For the forecast, the cold front will sink gradually southward through Tue morning, reaching extreme SW Florida to near Tampico, Mexico, then exit SE of the Basin on Wed. Fresh to strong NE winds are expected N of the front Mon through Wed. Strong southerly winds will develop over the W and NW Gulf on Thu ahead of the next approaching cold front forecast to move into the NW Gulf early Fri. This front will reach from the Florida panhandle to the Bay of Campeche Fri night. Gale force winds are possible west of the front off Tampico, Mexico Fri evening.

CARIBBEAN SEA...

Fair and stable conditions prevail across the Caribbean basin this morning, with patchy low clouds and a few showers possible across W and NW portions. Moderate to locally fresh trades prevail

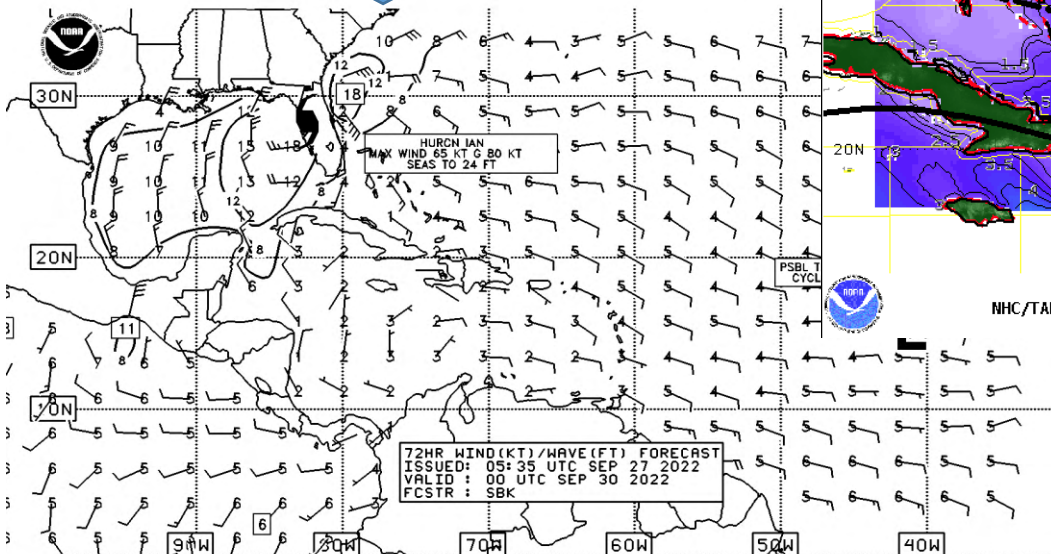
Information We Produce: Wind and Wave Forecasts



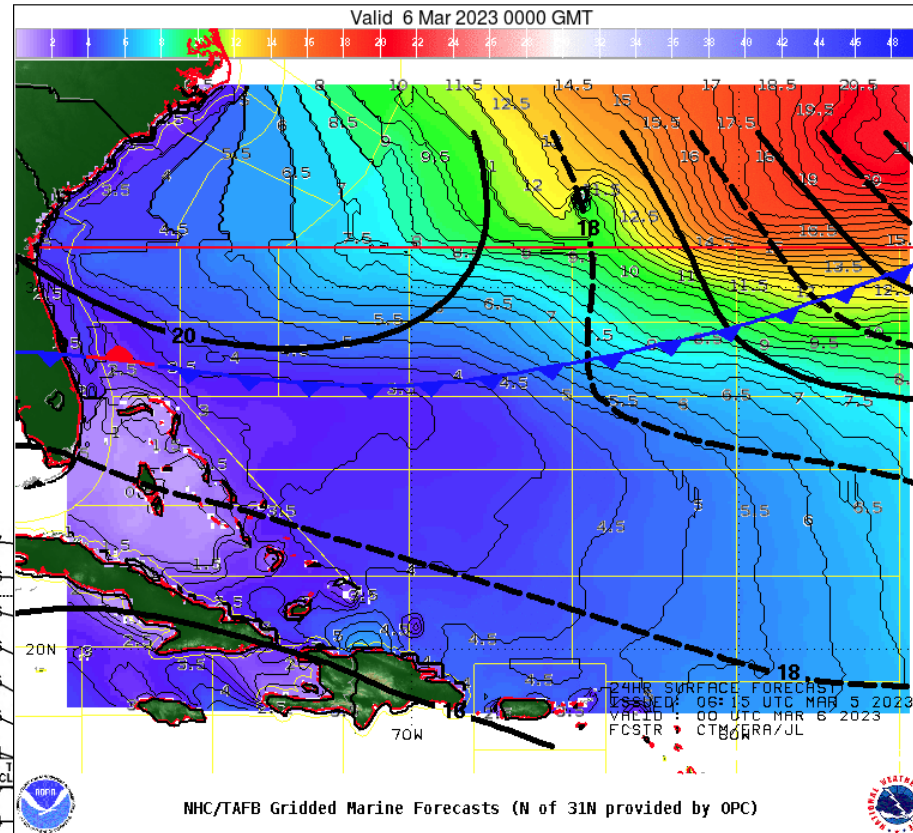
Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Gridded Forecasts

Graphics



NWS/NHC/TROPICAL ANALYSIS AND FORECAST BRANCH
SIG WAVE HT IS SHOWN (THE AVG HT OF THE HIGHEST 1/3 OF THE WAVES)



NHC/TAFB Gridded Marine Forecasts (N of 31N provided by OPC)

Text Forecasts

HIGH SEAS FORECAST
NWS NATIONAL HURRICANE CENTER MIAMI FL
1630 UTC TUE SEP 27 2022

SUPERSEDED BY NEXT ISSUANCE IN 6 HOURS

SEAS GIVEN AS SIGNIFICANT WAVE HEIGHT...WHICH IS THE AVERAGE HEIGHT OF THE HIGHEST 1/3 OF THE WAVES. INDIVIDUAL WAVES MAY BE MORE THAN TWICE THE SIGNIFICANT WAVE HEIGHT.

SECURITE

ATLANTIC FROM 07N TO 31N W OF 35W INCLUDING CARIBBEAN SEA AND GULF OF MEXICO

SYNOPSIS VALID 1200 UTC TUE SEP 27.
24 HOUR FORECAST VALID 1200 UTC WED SEP 28.
48 HOUR FORECAST VALID 1200 UTC THU SEP 29.

.WARNINGS.

...GULF OF MEXICO HURRICANE WARNING...
.HURRICANE IAN NEAR 23.0N 83.6W 950 MB AT 1500 UTC SEP 27 MOVING N OR 360 DEG AT 9 KT. MAXIMUM SUSTAINED WINDS 110 KT GUSTS 135 KT. TROPICAL STORM FORCE WINDS WITHIN 120 NM OF CENTER EXCEPT 100 NM SW QUADRANT. SEAS 12 FT OR GREATER WITHIN 75 NM NE QUADRANT...180 NM SE QUADRANT...60 NM SW QUADRANT...AND 90 NM NW QUADRANT WITH SEAS TO 19 FT. ELSEWHERE WITHIN 24N80W TO 26N82W TO 26N93W TO 19N85W TO 20N79W TO 24N80W WINDS 20 TO 33 KT. SEAS 8 TO 12 FT.
.24 HOUR FORECAST HURRICANE IAN NEAR 26.0N 83.0W. MAXIMUM SUSTAINED WINDS 115 KT GUSTS 140 KT. TROPICAL STORM FORCE WINDS WITHIN 130 NM NE QUADRANT...120 NM SE QUADRANT...110 NM SW QUADRANT...AND 150 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 270 NM SW AND 90 NM NE SEMICIRCLES WITH SEAS TO 31 FT. ELSEWHERE WITHIN 28N79W TO 31N86W TO 29N95W TO 24N94W TO 22N87W TO 24N79W TO 28N79W WINDS 20 TO 33 KT. SEAS 8 TO 12 FT.
.48 HOUR FORECAST HURRICANE IAN INLAND OVER FLORIDA NEAR 27.8N 82.1W. MAXIMUM SUSTAINED WINDS 75 KT GUSTS 90 KT. TROPICAL STORM FORCE WINDS WITHIN 120 NM S SEMICIRCLE...300 NM NE QUADRANT AND 160 NM NW QUADRANT. SEAS 12 FT OR GREATER WITHIN 360 NM SW SEMICIRCLE OVER GULF WATERS WITH SEAS TO 23 FT...AND WITHIN 360 NM NE QUADRANT OVER ATL WATERS WITH SEAS TO 15 FT. ELSEWHERE OVER FORECAST WATERS WITHIN 31N77W TO 30N84W TO 31N88W TO 29N92W TO 24N88W TO 25N79W TO 31N77W WINDS 20 TO 33 KT. SEAS 10 TO 12 FT. REMAINDER OF AREA WITHIN 24N82W TO 25N89W TO 29N92W TO 27N97W TO 22N94W TO 21N86W TO 24N82W WINDS 20 KT OR LESS. SEAS 8 TO 10 FT IN MIXED SWELL.
.60 HOUR FORECAST TROPICAL STORM IAN INLAND NEAR 28.5N 81.7W. MAXIMUM SUSTAINED WINDS 60 KT GUSTS 75 KT.
.72 HOUR FORECAST TROPICAL STORM IAN INLAND NEAR 29.5N 81.5W. MAXIMUM SUSTAINED WINDS 50 KT GUSTS 60 KT.
EXTENDED OUTLOOK...USE FOR GUIDANCE ONLY...ERRORS MAY BE LARGE.
.96 HOUR FORECAST TROPICAL STORM IAN INLAND NEAR 33.0N 81.8W. MAXIMUM SUSTAINED WINDS 35 KT GUSTS 45 KT.
.120 HOUR FORECAST POST-TROPICAL EXTRATROPICAL IAN NEAR 35.0N 81.5W. MAXIMUM SUSTAINED WINDS 25 KT GUSTS 35 KT.

FORECAST WINDS IN AND NEAR ACTIVE TROPICAL CYCLONES SHOULD BE USED WITH CAUTION DUE TO UNCERTAINTY IN FORECAST TRACK...SIZE AND INTENSITY.

.SYNOPSIS AND FORECAST.

.ATLC LOW PRES NEAR 13.5N35W 1008 MB. OVER FORECAST WATERS WITHIN 15N35W TO 16N36W TO 15N38W TO 12N38W TO 11N35W TO 15N35W N



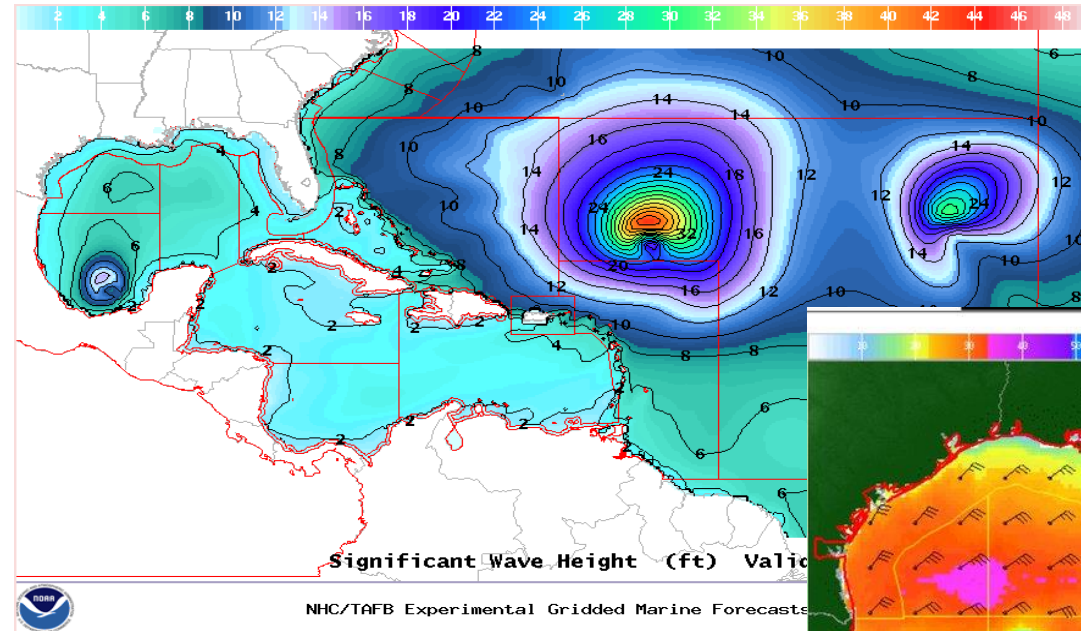
Gridded Marine Forecasts

RESOLUTION

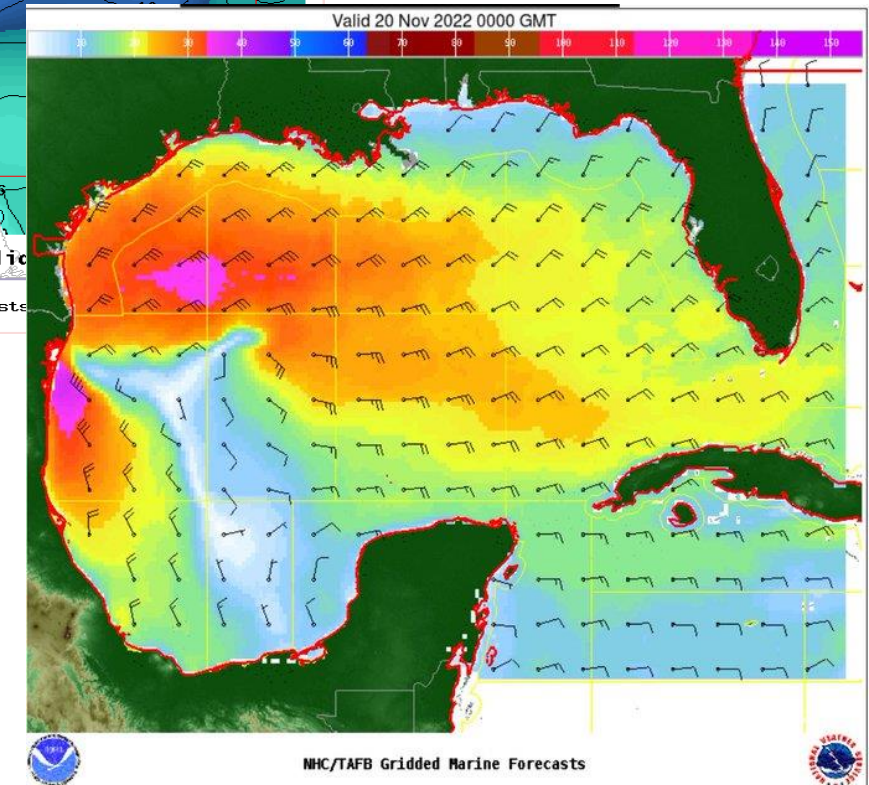
- 10 km
- 3 hourly to 72 hours
- 6 hourly to 144 hours (6 days)

WEATHER PARAMETERS

- 10 meter wind and gusts
- Significant Wave Height
- Hazards



NHC/TAFB Experimental Gridded Marine Forecasts



NHC/TAFB Gridded Marine Forecasts



**TAFB provides graphical
products to mariners via 3
USCG transmitters:**

**NEW ORLEANS (NMG)
POINT REYES, CA (NMC)
HAWAII (KVM70)**

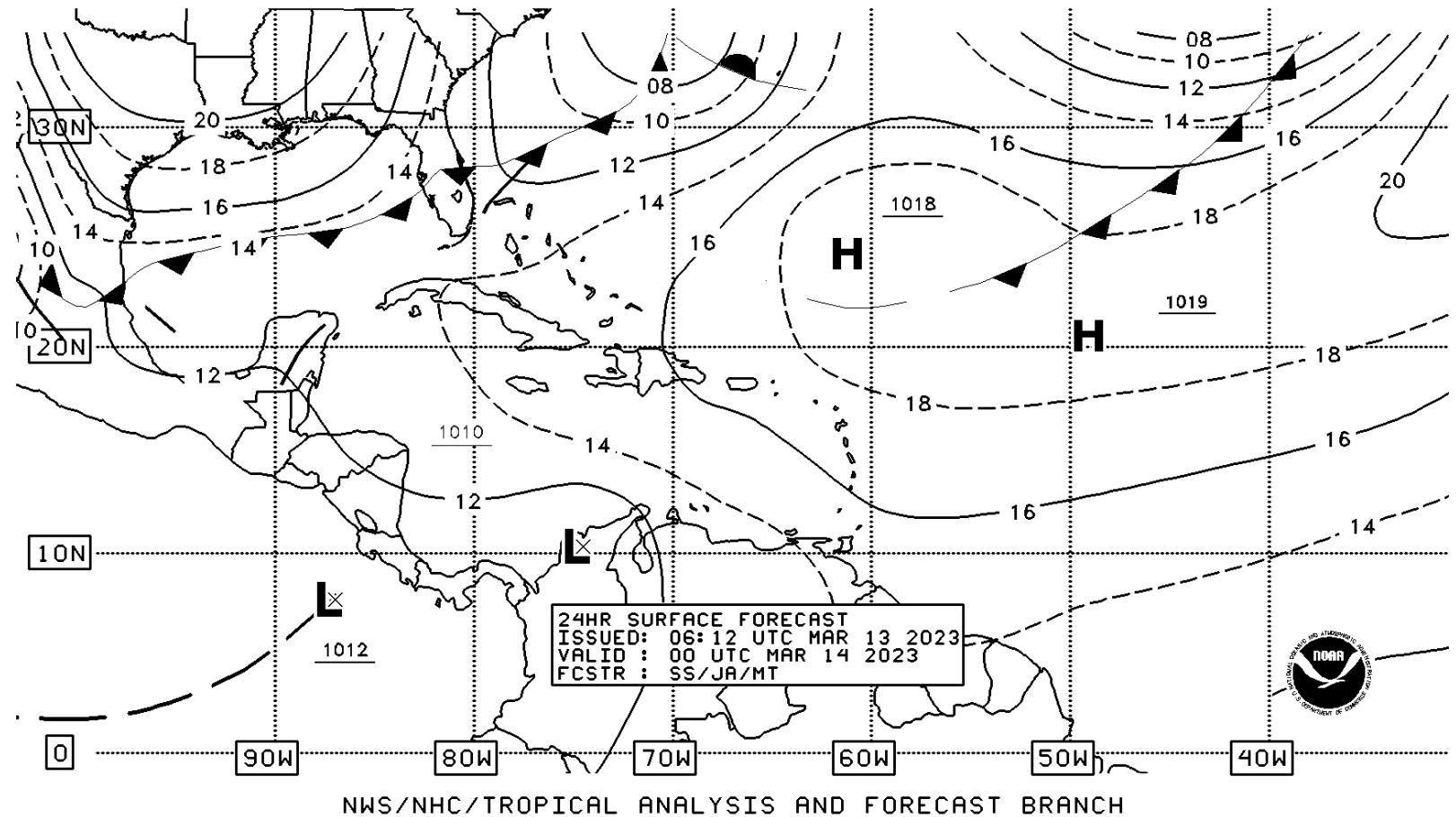
Information We Produce: Surface Features/Forecasts

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

- Fronts, troughs, tropical cyclones, tropical waves, ridges
- 24, 48, and 72 hour Forecasts
- Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific
- Issued twice daily

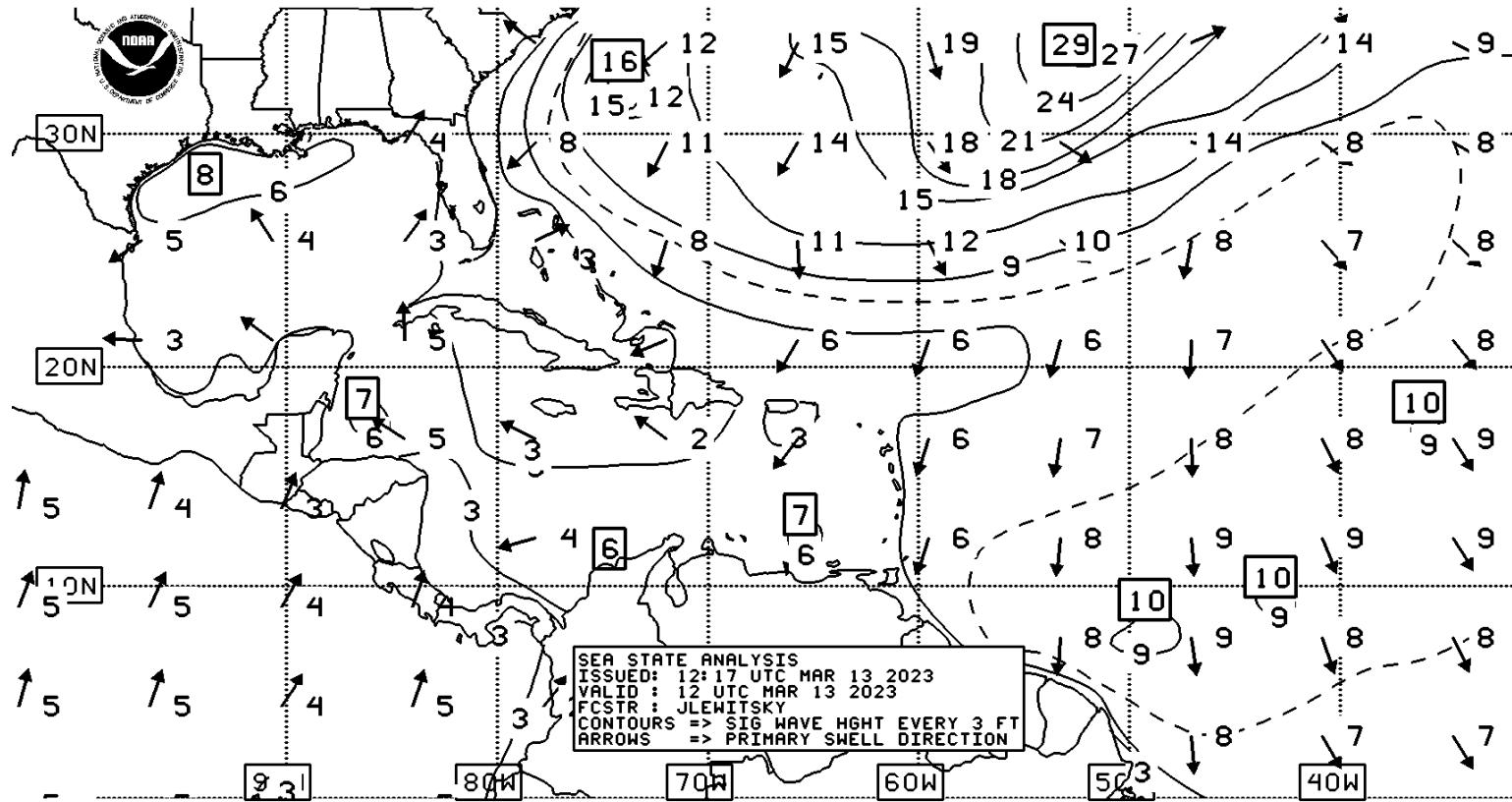


Information We Produce: Sea State Analysis

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



NWS/NHC/TROPICAL ANALYSIS AND FORECAST BRANCH
SIG WAVE HT IS SHOWN (THE AVG HT OF THE HIGHEST 1/3 OF THE WAVES)

- **Significant Wave Height Analysis (the average height of the highest one-third of the waves) and Primary Swell Direction**
- **Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific**
- **Issued twice daily**

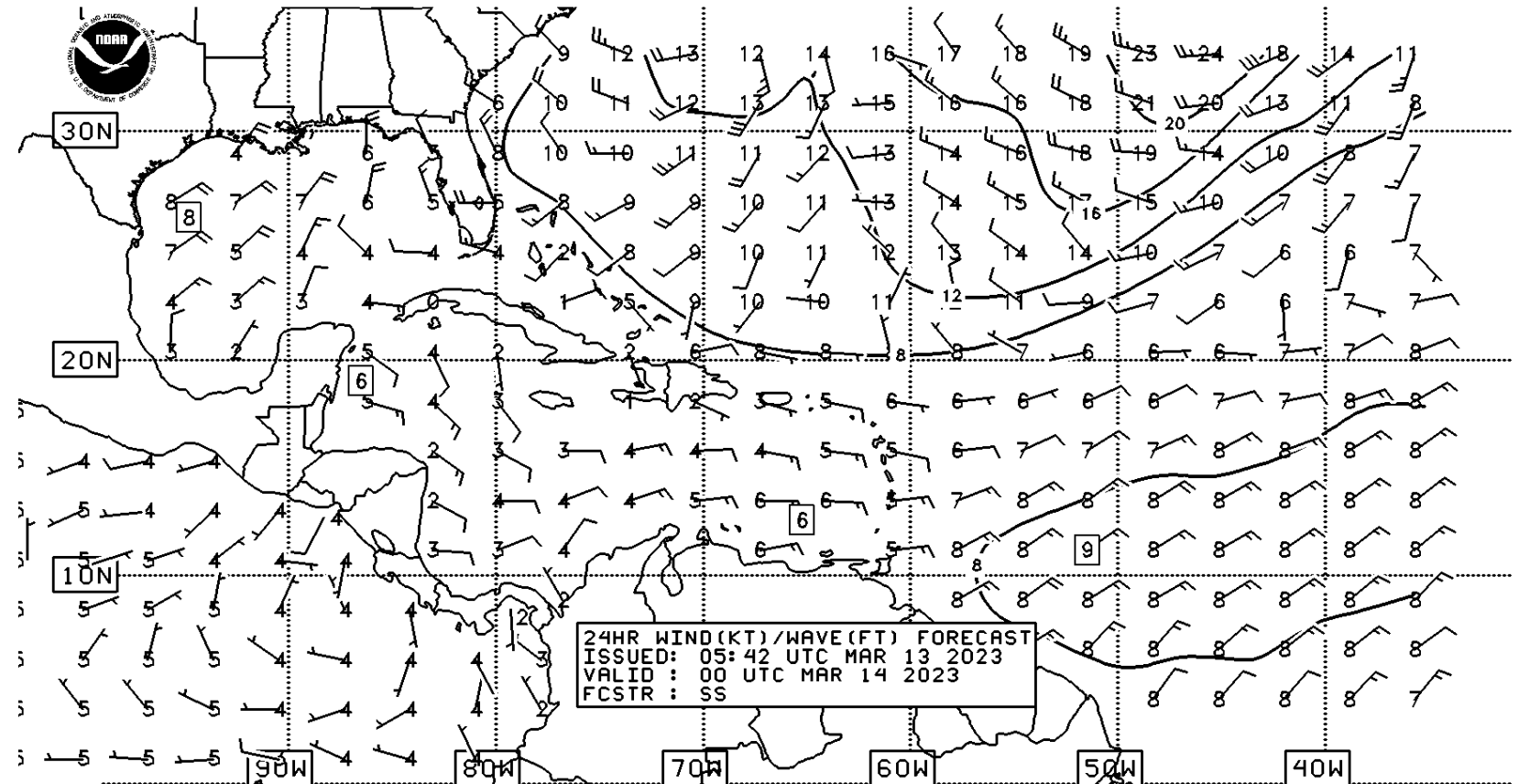
Information We Produce: Wind and Wave Forecasts

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

- **Surface Winds and Significant Wave Height Predictions**
- **24, 48, and 72 hour Forecasts**
- **Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific**
- **Issued twice daily**



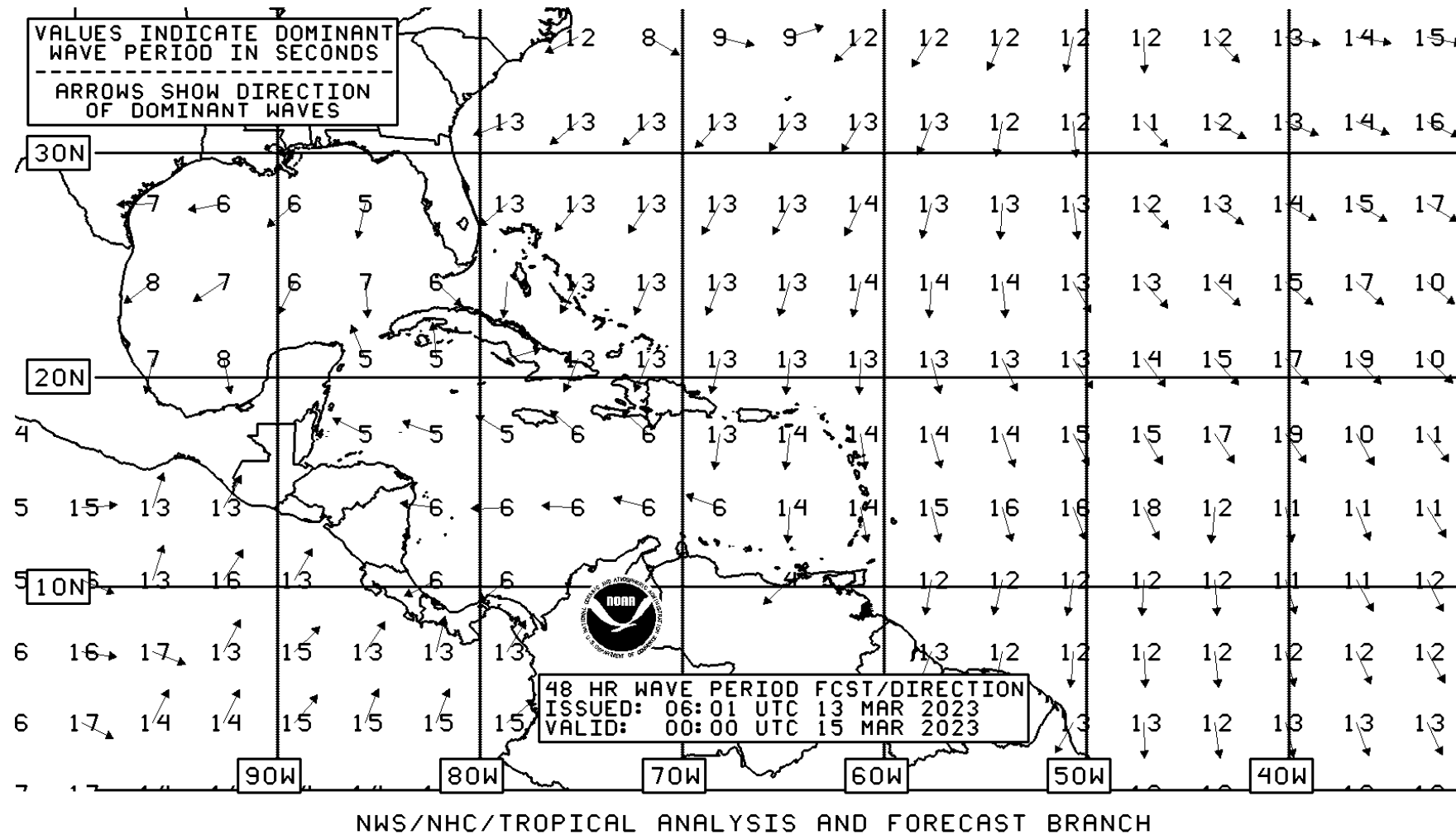
NWS/NHC/TROPICAL ANALYSIS AND FORECAST BRANCH
SIG WAVE HT IS SHOWN (THE AVG HT OF THE HIGHEST 1/3 OF THE WAVES)

Information We Produce: Wave Period and Direction Forecasts

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Dominant wave period and direction
- 48 and 72 hour Forecasts
- Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific
- Issued twice daily

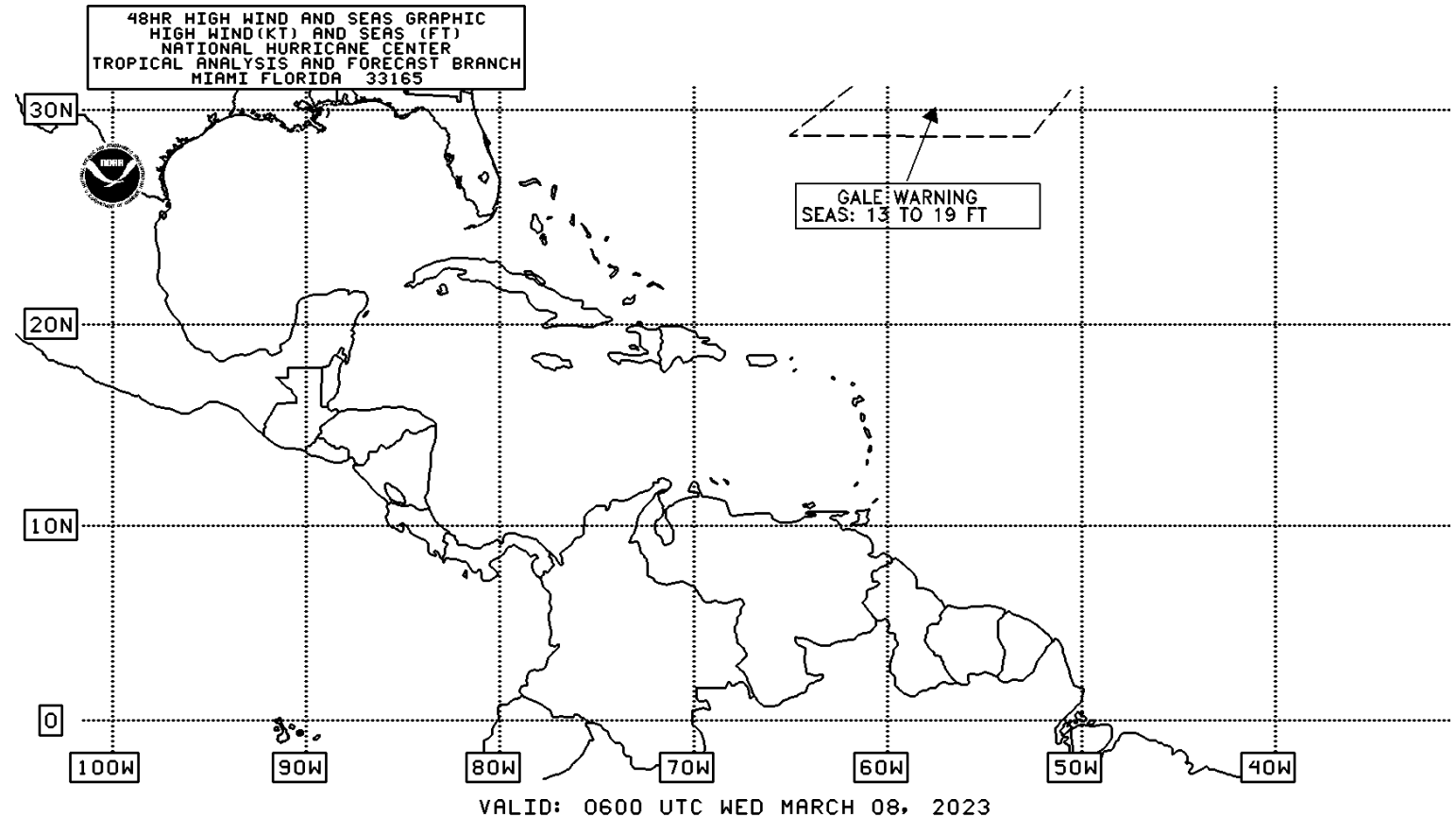
Information We Produce: High Wind and Seas

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

- 48 hour forecast depiction of Gale, Storm, and Hurricane-Force Wind Warnings (with peak seas)
- Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific
- Issued four times daily
- Issued 1 December to 14 May

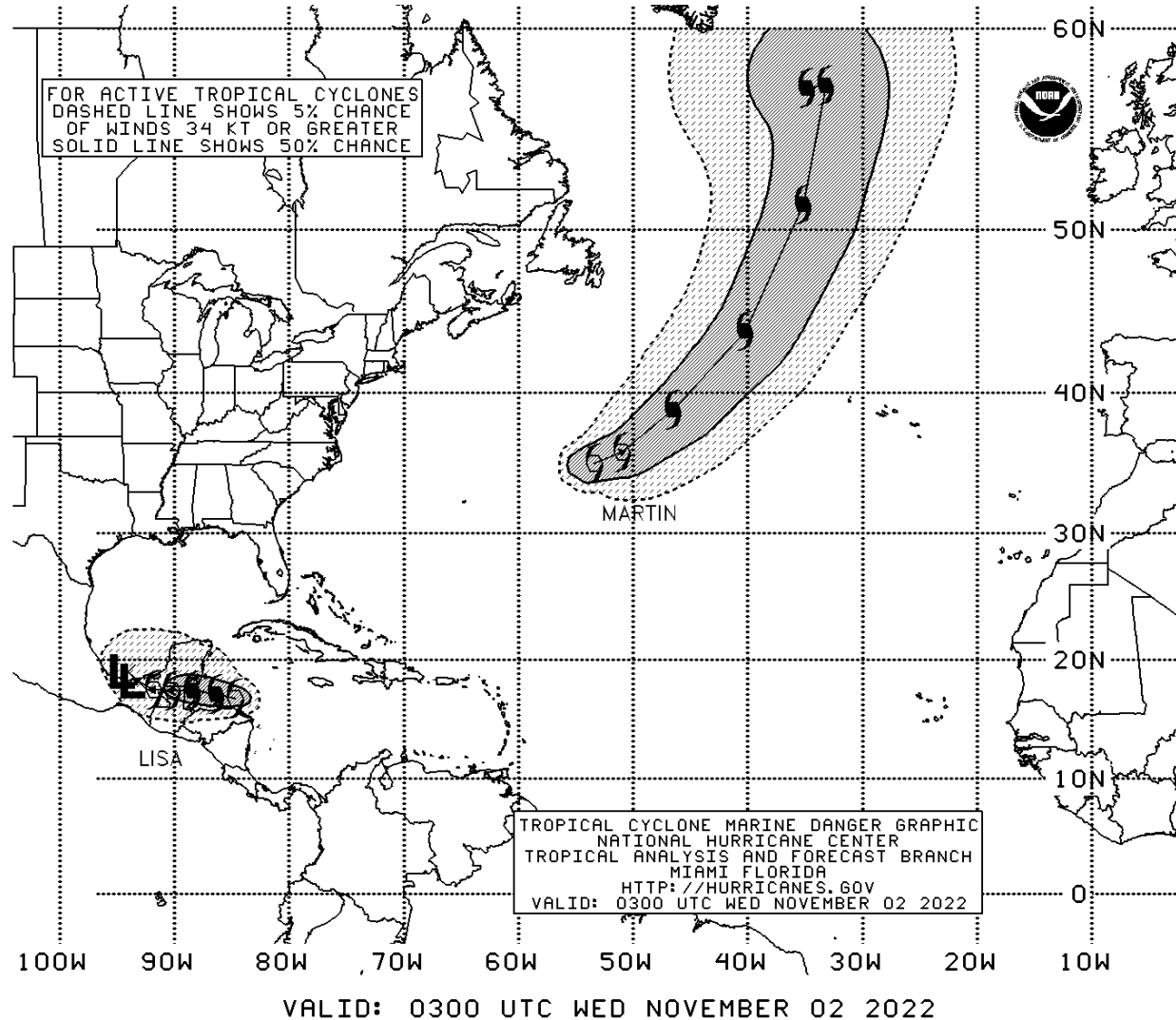


Information We Produce: Tropical Cyclone Danger

Disseminated via USCG transmitter at New Orleans



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



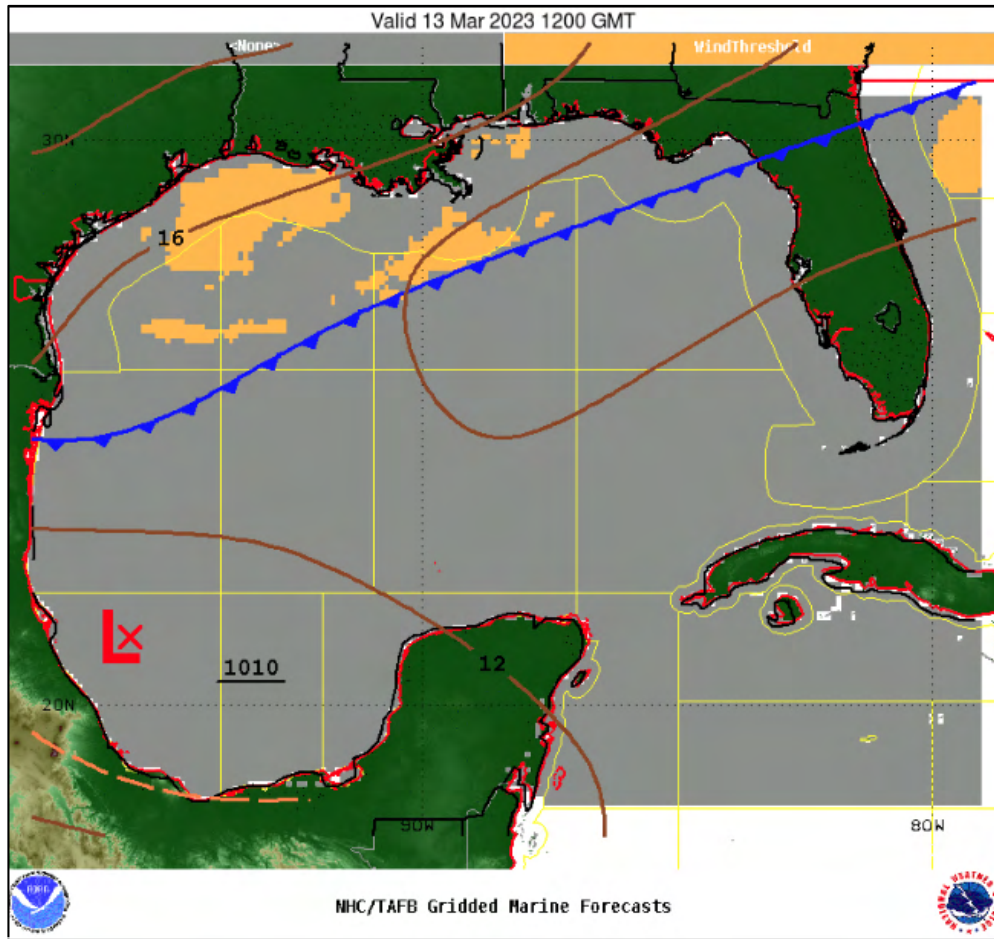
- **Wind Speed Probabilities-Based – Uses 5% and 50% chance of 34 kt (tropical storm force winds)**
- **3 Day Forecasts**
- **Western Atlantic, Caribbean, Gulf of Mexico, and Eastern Pacific**
- **Issued four times daily during hurricane season**

Information We Produce: Marine Composite Page

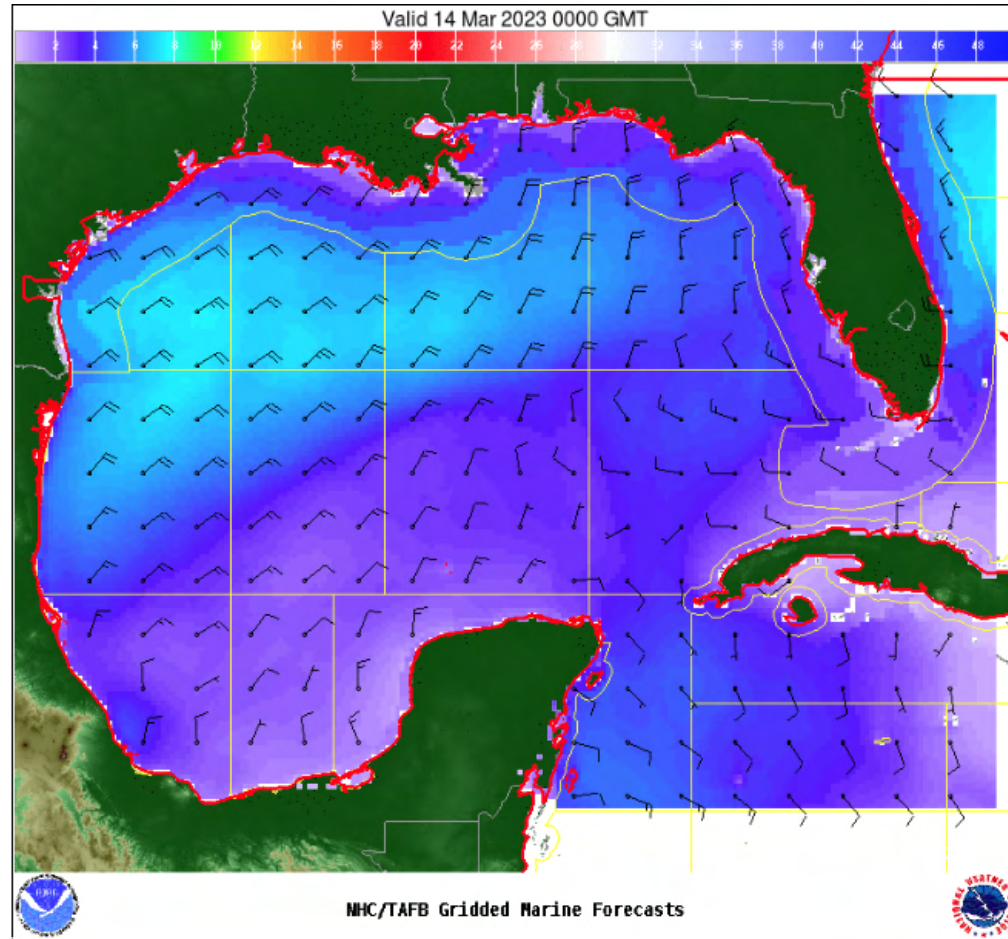
Designed for mariners with low-bandwidth internet connections



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Red: Gale Warning
Orange: Winds > 23 kt
Blue: Seas \geq 8 ft



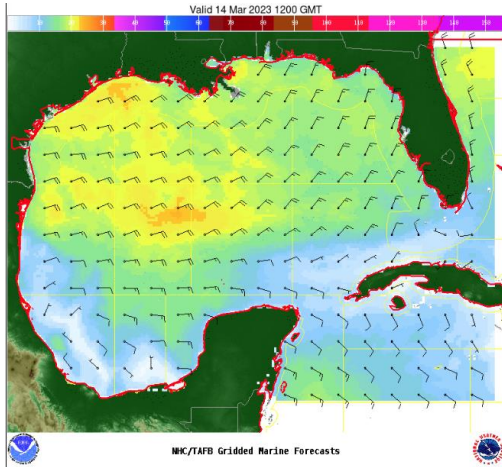
Colors: Seas (in feet)
Flags: Wind barbs (in knots)

Information We Produce: Marine Composite Page

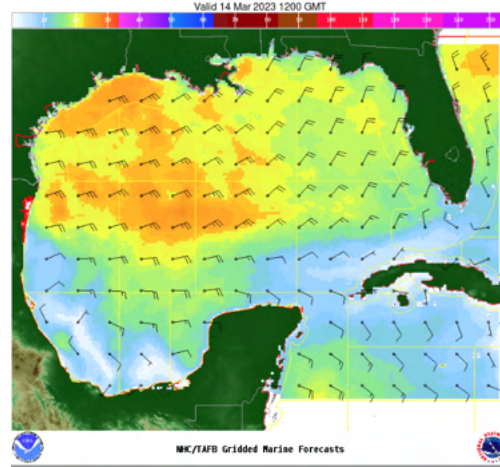
Designed for mariners with low-bandwidth internet connections



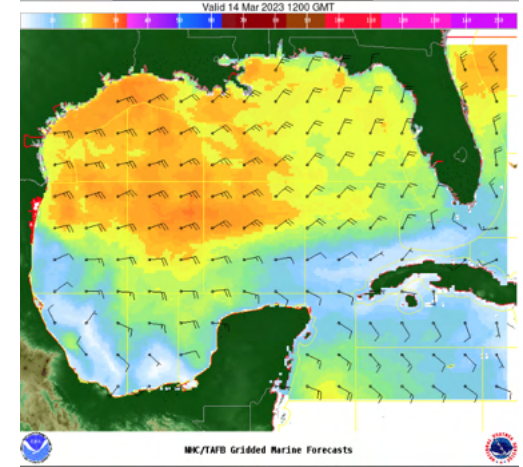
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



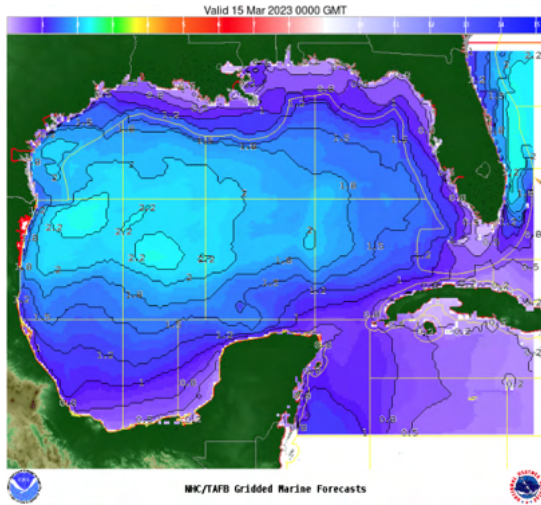
10 meter wind



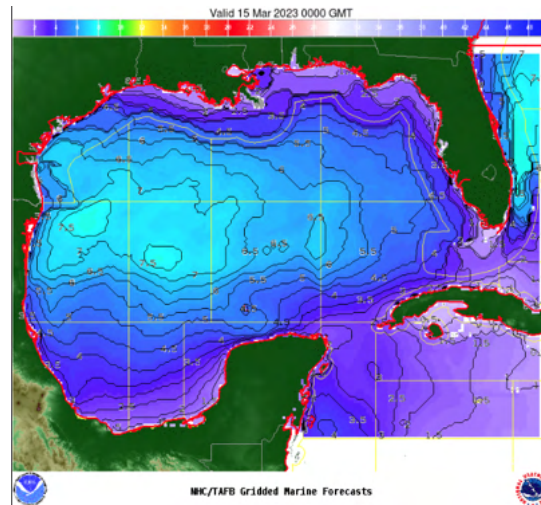
30 meter wind



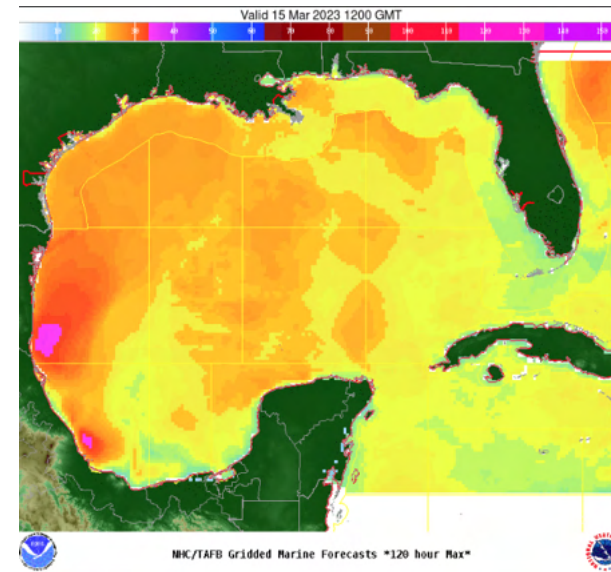
50 meter wind



Wave height in feet



Wave height in meters



Cumulative
Maximum Wind
Speed over next
120 hours (5 days)

Recent Marine Accidents from Atlantic Hurricanes



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Sinkings



EL FARO

33 fatalities during Hurricane Joaquin (2015)

BOURBON RHODE

11 fatalities during Hurricane Lorenzo (2019)

BOUNTY

2 fatalities during Hurricane Sandy (2012)

FANTOME

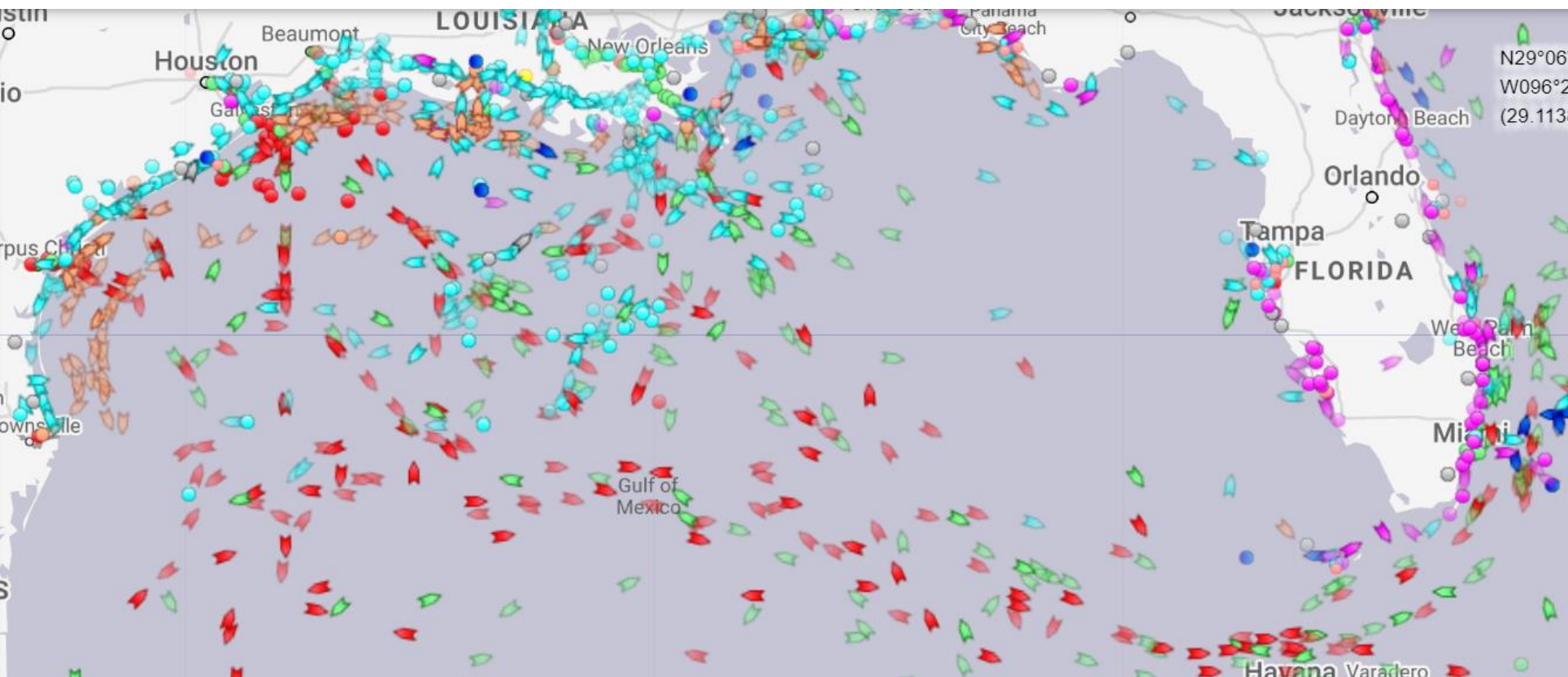
31 fatalities during Hurricane Mitch (1998)

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



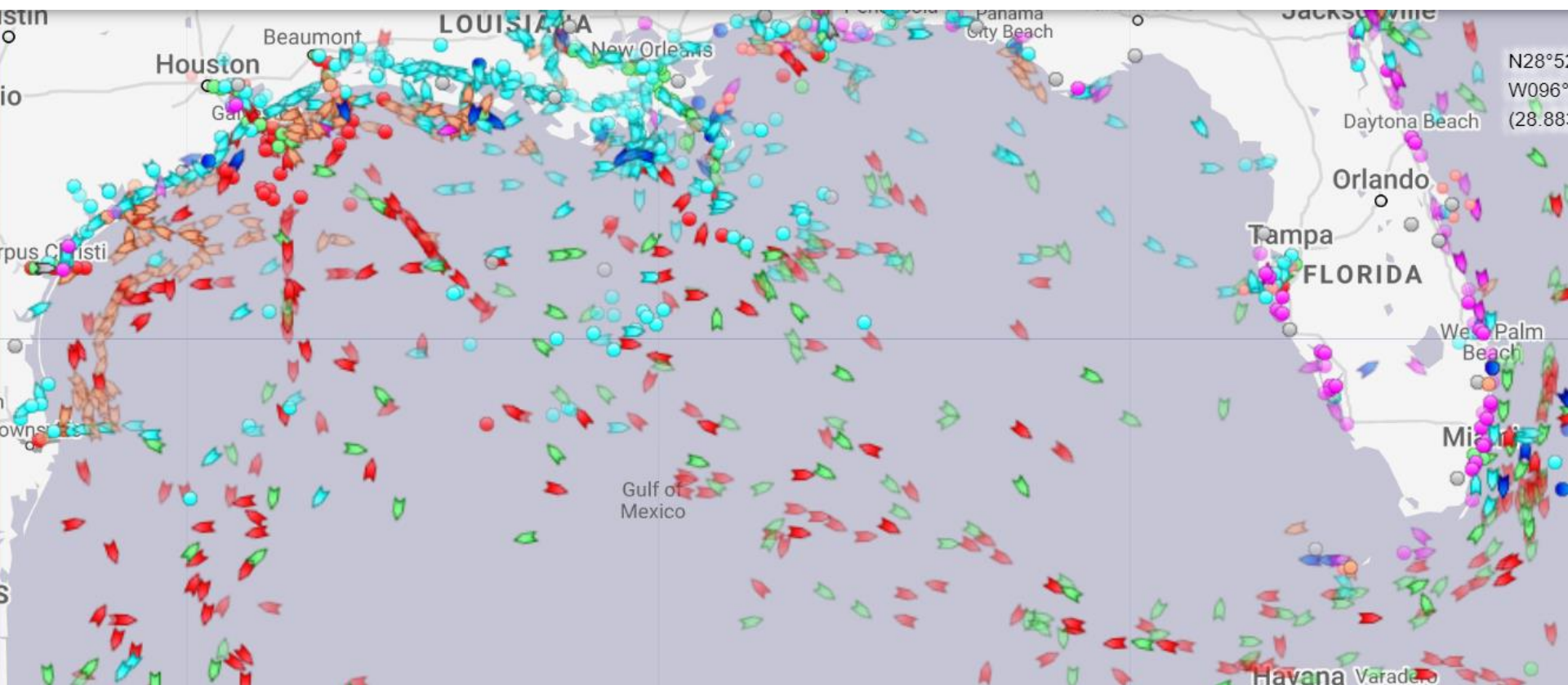
October 6th, 2pm EDT

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



October 7th, 9am EDT

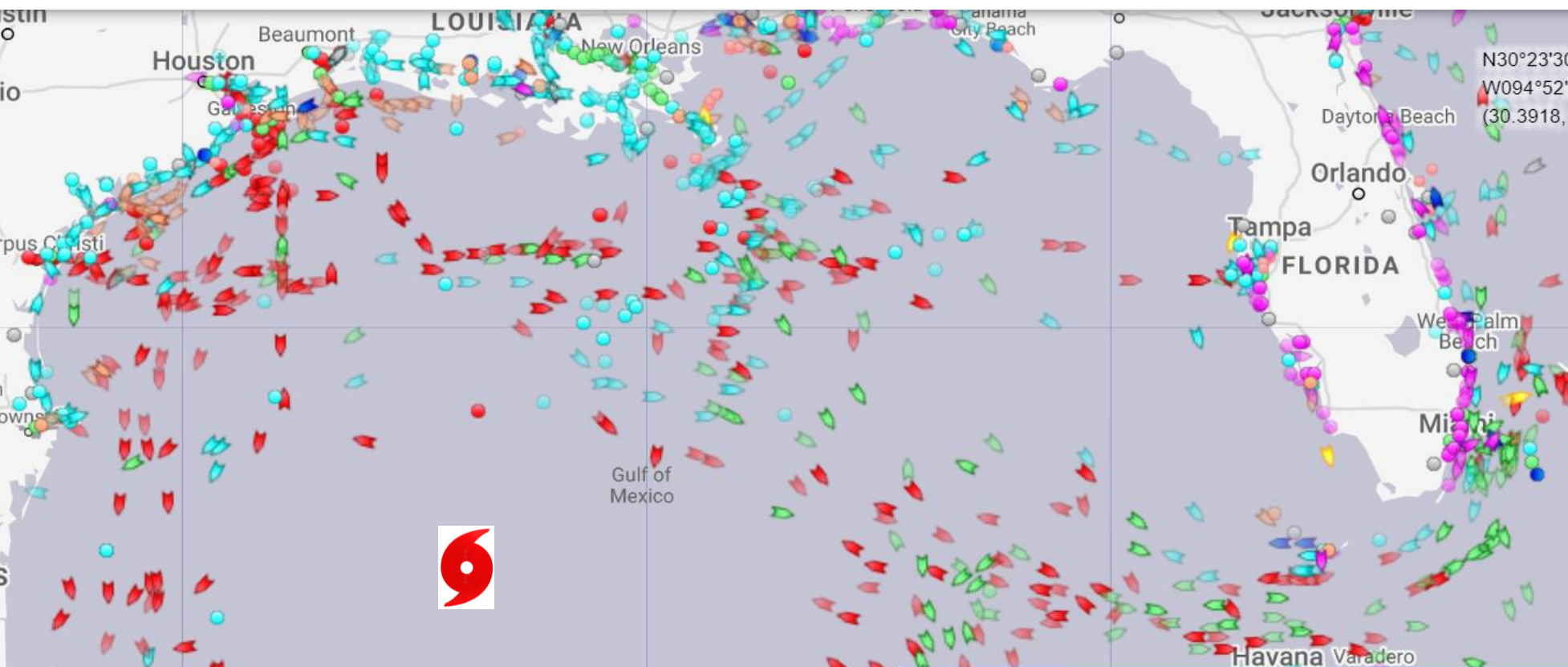


Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



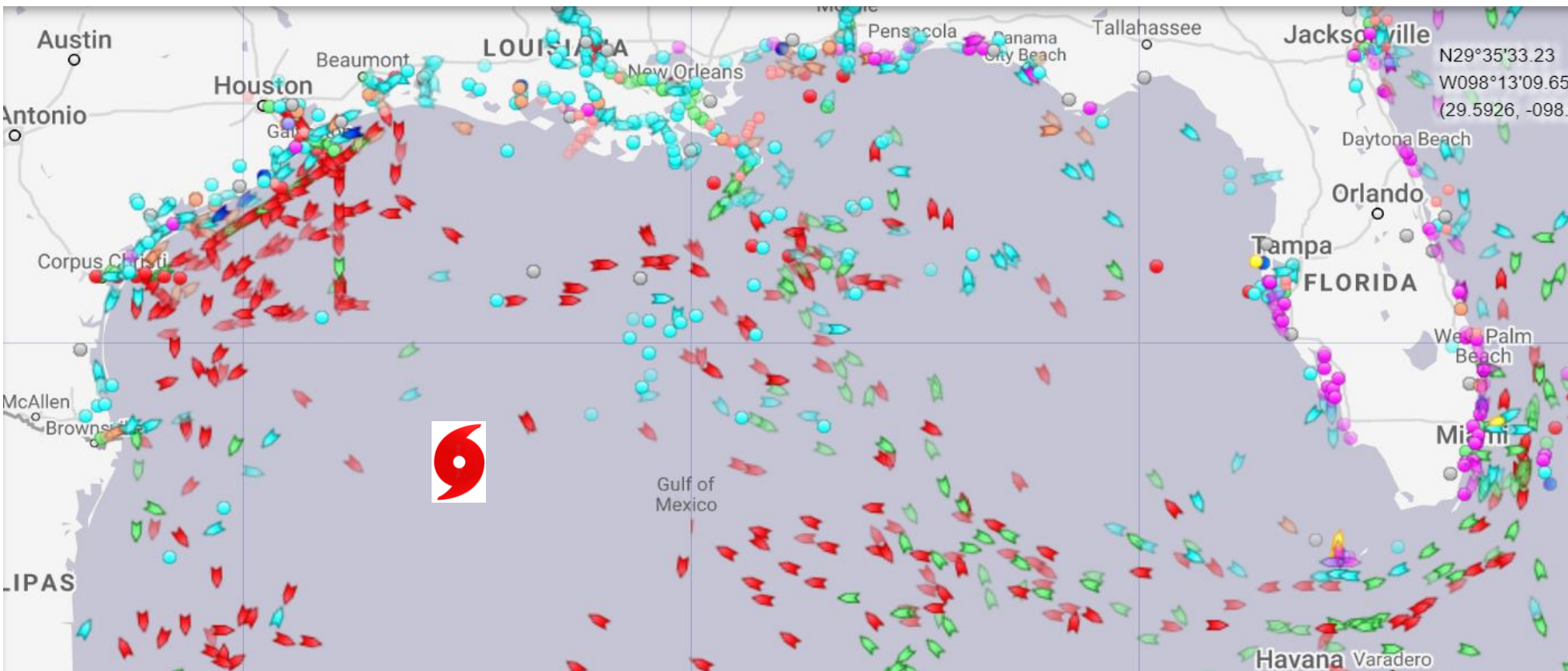
October 8th, 9am EDT

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



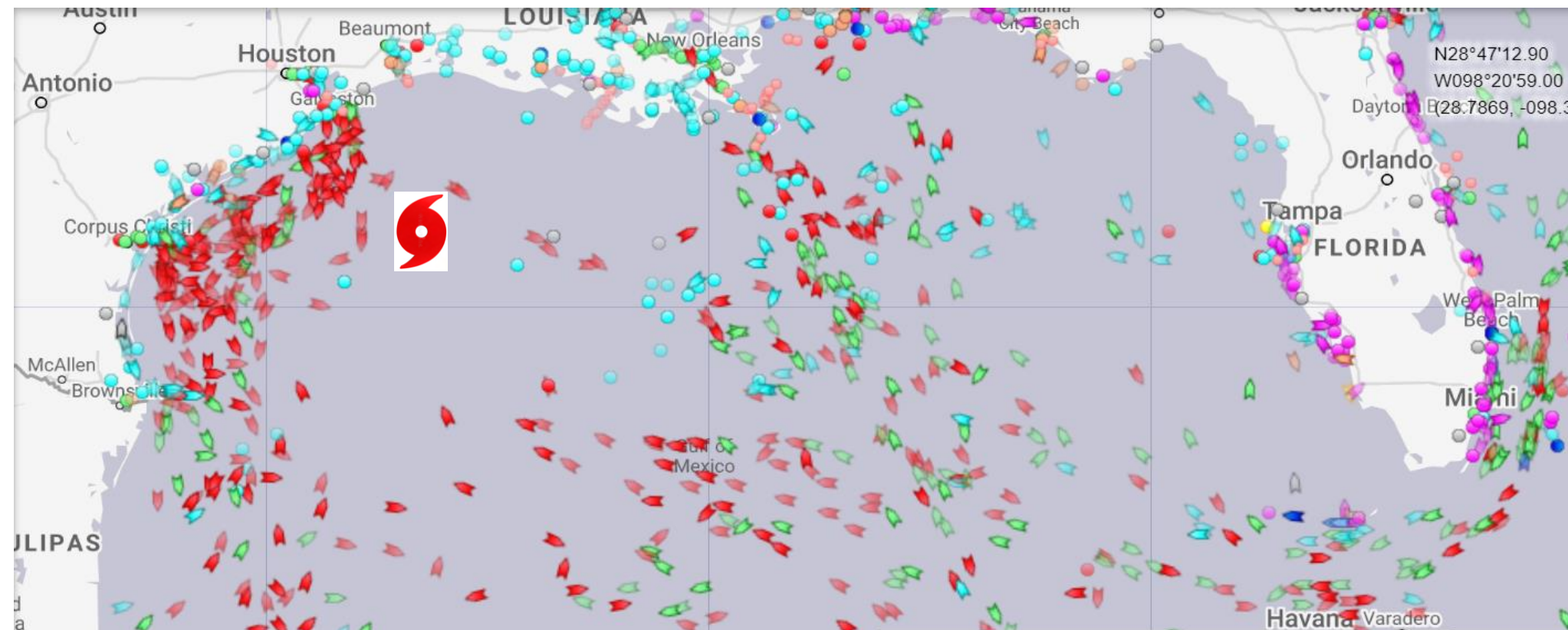
October 8th, 5pm EDT

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



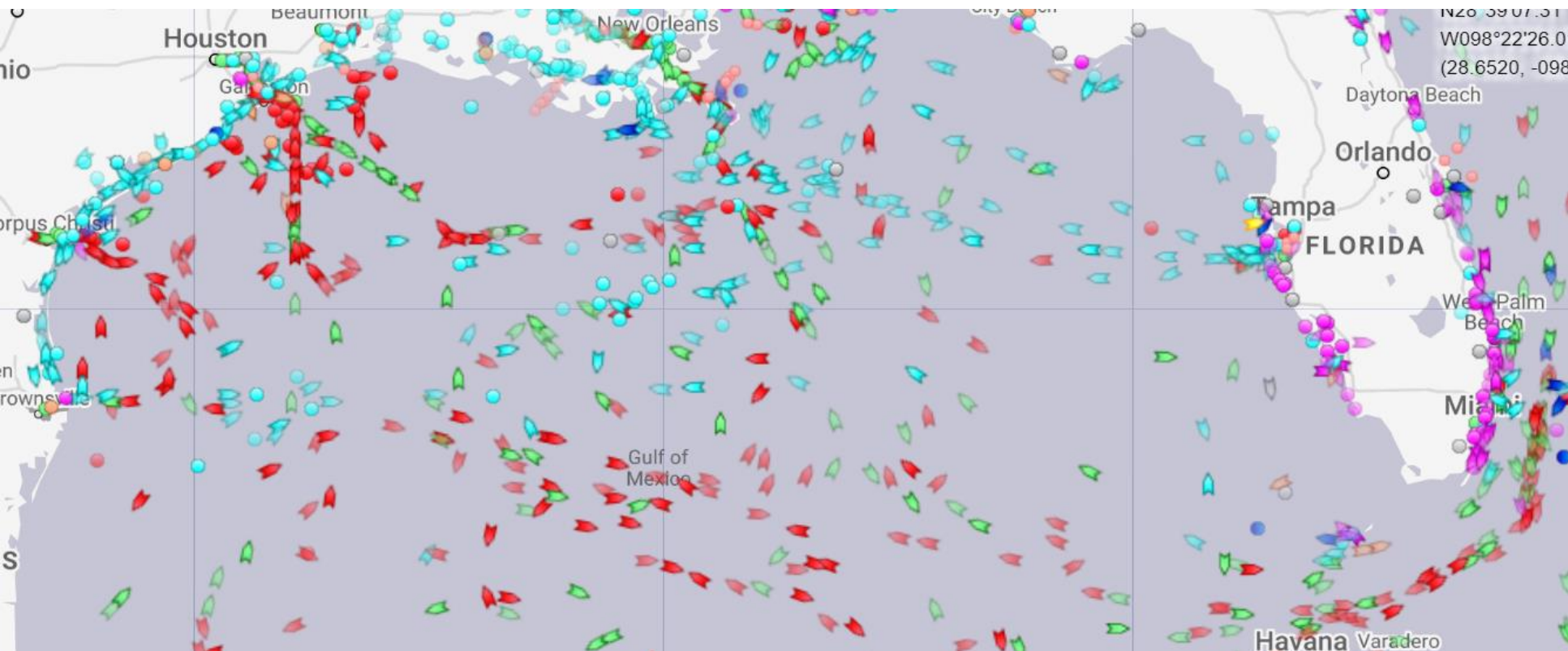
October 9th, 9am EDT

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



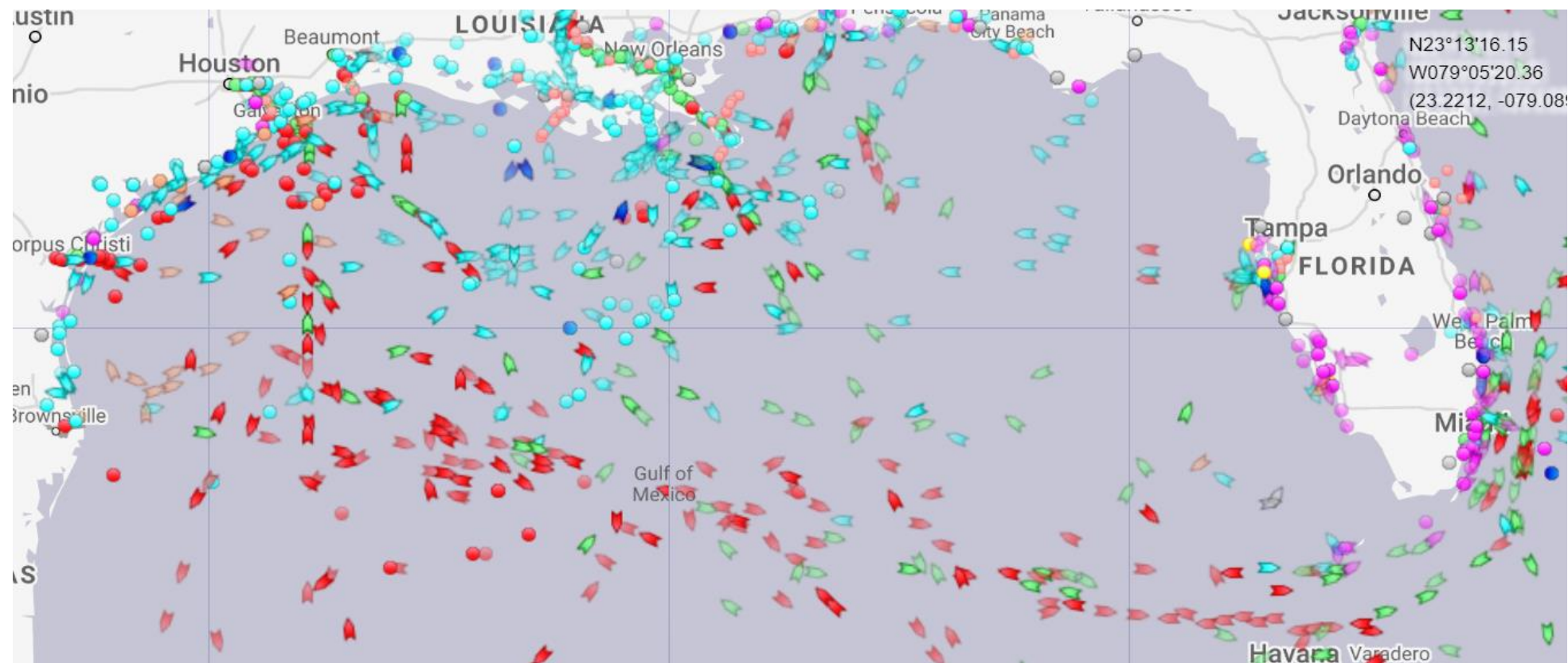
October 10th, 1pm EDT

Goal: Hurricane Avoidance by Vessels

Hurricane Delta - 2020



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



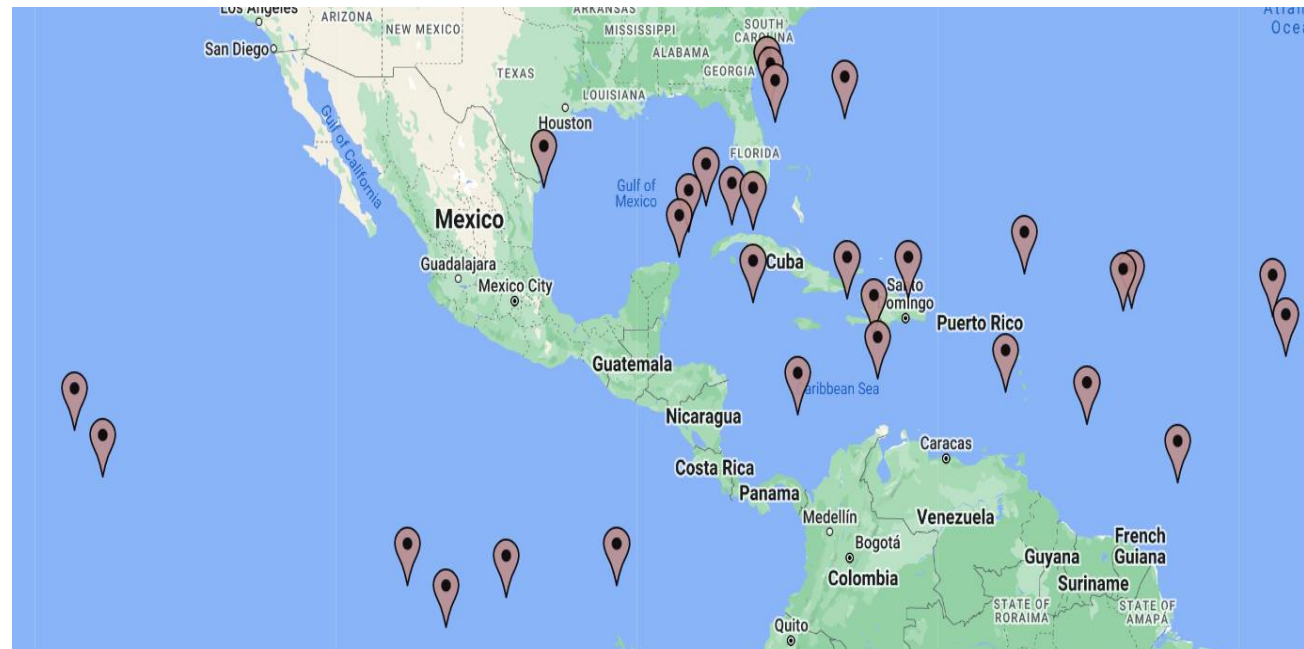
October 11th, 7am EDT

Spot Forecasts



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

- On-demand, site-specific weather forecasts issued by the National Weather Service in support of incident management decisions
 - The National Hurricane Center can issue spot forecasts to support USCG response to marine incidents or search and rescue operations



**54 Spot Forecasts by NHC/TAFB
for 2022 U.S. Coast Guard District Operations**

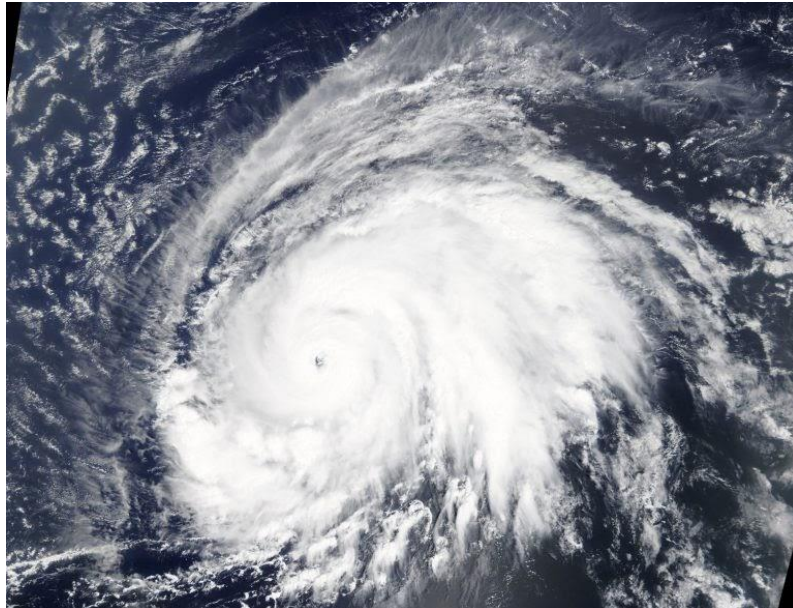
Example: *Bourbon Rhode* Sinking

Hurricane Lorenzo (2019)



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

- We provided 35 spot forecasts for the *Bourbon Rhode* SAR and recovery efforts from Sep 26-Oct 5, 2019



SPOT FORECAST FOR Vessel In Distress...USCG
NWS NATIONAL HURRICANE CENTER MIAMI FL
929 PM EDT Thu Sep 26 2019

Forecast is based on forecast start time of 2048 EDT on September 26.
If conditions become unrepresentative...contact the NWS
National Hurricane Center/Tropical Analysis and Forecast
Branch at (305)229-4425.

.DISCUSSION...At 500 PM AST (2100 UTC), the center of Hurricane Lorenzo was located near latitude 16.5 North, longitude 40.8 West. Lorenzo is moving toward the northwest near 11 kt and this motion is expected to continue through tonight. A turn toward the north-northwest is expected on Friday, followed by a turn toward the north on Saturday. Winds and seas for the forecast location will improve during the next couple of days as Hurricane Lorenzo moves farther away.

.TONIGHT...

TIME (EDT)	8 PM	10 PM	MIDNGT	2 AM	4 AM
Sky (%)	91	88	88	88	91
Weather cov	SCTTRD	SCTTRD	SCTTRD	SCTTRD	SCTTRD
Weather type	RNSHWR	RNSHWR	RNSHWR	RNSHWR	RNSHWR
Tstm cov	ISOLTD	ISOLTD	ISOLTD	ISOLTD	ISOLTD
Temp	77	76	76	76	75
Surface wind	SW 30	SW 30	S 30	S 29	S 29
Surface wnd gst	51	51	50	49	49
Swell hgt (ft)	NW 12	NW 12	NW 12	NW 9	NW 9
Swell period (s)	11	11	11	10	10
Wave period (s)	11	11	11	10	10
Wind wave (ft)	9	9	9	9	9
Wave height (ft)	19	19	17	16	16

Spot Forecast Content

What marine weather information can we provide?



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Marine Weather

- Surface wind/gust (kt)
- Significant wave height (ft)
 - Swell height
 - Wind wave height
- Dominant wave period (s)
- Sea surface temperature (°F)
- Sky coverage/weather
- Max/min temperature (°F)
- Dew point (°F)
- Humidity

Do you need aviation forecast support?

- Let us know, and we can pass along the incident details and your contact information to the NOAA Aviation Weather Center for further assistance.

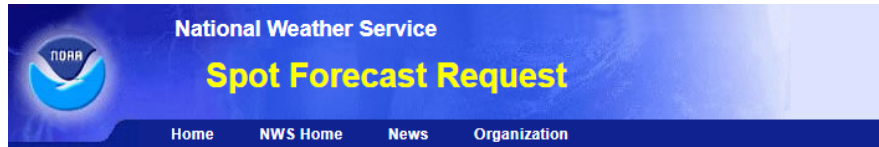


Requesting Spot Forecasts

How do you submit a direct forecast request?



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Spot Forecast Request

NOTICE - This interface is intended to be used solely for the relay of forecast information to the National Weather Service. Submissions sent through this online form are intended for internal agency use. We are required (by e-Gov Act of 2002) to explicitly state that submission of any information is voluntary. For further information please read our [Privacy Policy](#) and [Disclaimer](#). False statements on this form may be subject to prosecution under the False Statement Accountability Act of 1996 (18 U.S.C. § 1001) or other statutes.

Incident and Decision Support Forecast Request

This site is the National Weather Service interface to requesting, filling, and monitoring spot forecasts issued by our Forecast Offices and National Centers.

[Click here to provide 'Spot Webpage Testing Feedback'](#)

Submit Spot Request	Interactive Request: Request a spot forecast using an interactive map, with or without a Lat/Lon of the incident.
Monitor Spot Forecasts	Monitor: Use this to monitor existing spot requests and forecasts.

Please take the online survey to let us know what you think of this interface.
[Download the Product Description Document \(PDD\)](#)

Spot forecast Release 1, revision 228
Spot forecast database schema 2.20



National Weather Service
1325 East West Highway
Silver Spring, MD 20910
Page Author: NWS Internet Services Team
Web Master: w-nws.webmaster@noaa.gov

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- You can directly submit spot forecast requests to us:
<https://www.weather.gov/spot/request/>
- We will share step-by-step instructions on how to use the web request interface
- If further assistance is needed for a marine incident, feel free to call our 24/7/365 forecast operations:
 - **305-229-4424**

Spot Forecasts in Action



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

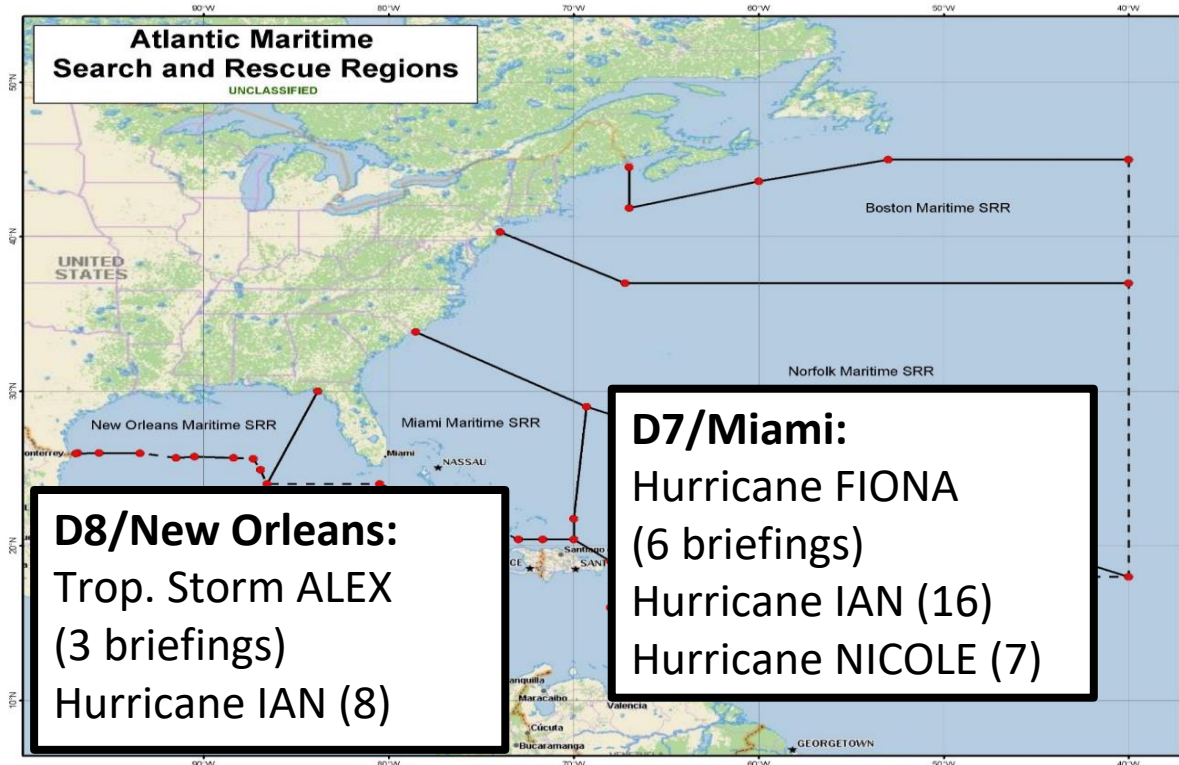
010925Z MAR 23
HYDROLANT 469/23(11).
GULF OF MEXICO.
DNC 15.
VESSEL, EIGHT PERSONS ON BOARD, REQUEST
ASSISTANCE IN 26-27.89N 089-14.70W AT
010723Z MAR. VESSELS IN VICINITY REQUESTED
TO KEEP A SHARP LOOKOUT, ASSIST IF POSSIBLE.
REPORTS TO RCC NEW ORLEANS,
PHONE: 855 485 3727, FAX: 504 589 2148,
E-MAIL: D8COMMANDCENTER@USCG.MIL.//

- You can directly submit spot forecast requests to us:
<https://www.weather.gov/spot/request/>
- We will share step-by-step instructions on how to use the web request interface
- If further assistance is needed for a marine incident, feel free to call our 24/7/365 forecast operations:
 - 305-229-4424

Tropical Briefings

TYPICALLY ISSUED WHEN

- Tropical Storm force winds may be impacting coastline within 5 days
- Hurricane conditions in Search and Rescue Area (SAR) within 5 days



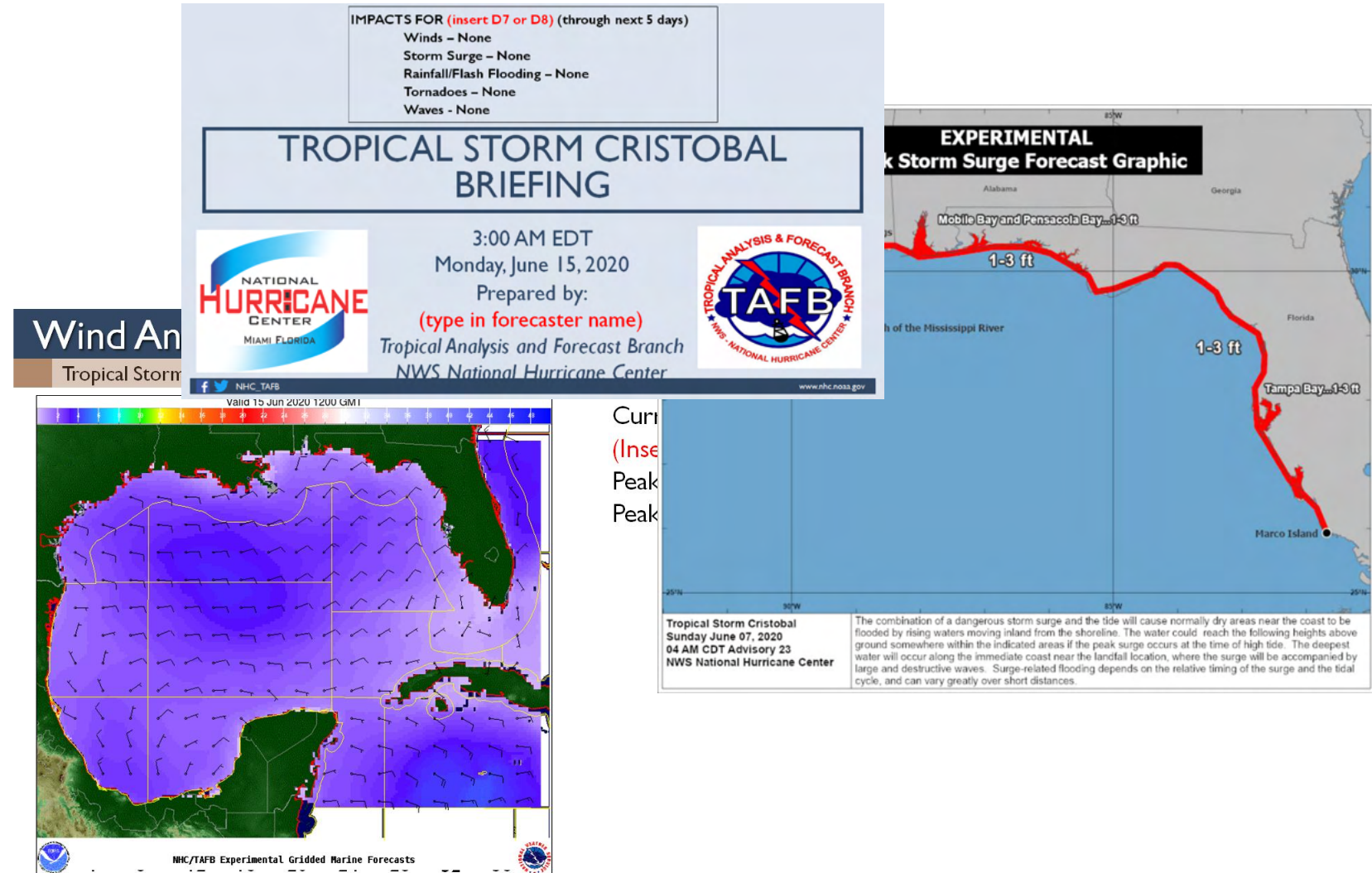
Tropical Analysis and Forecast Branch
NWS National Hurricane Center

BRIEFING GOALS

- Potential impacts to mariners over the Gulf of Mexico, Caribbean Sea, and Atlantic in their SR
- Potential impacts to major ports in the United States
- Potential impacts to USCG District 7 facilities and personnel
- Potential impacts to other countries in the Caribbean that may need USCG assistance.



- Provide tailored information for
 - Wind Hazards, including time of arrival and departure
 - Rainfall/inland flooding potential
 - Storm Surge Information
 - Wave heights
 - Tornadoes



6/15/2020 3:04 PM



NHC Tropical Cyclone
Status Updates



Latest Hurricane
Briefings
Available to
Download
(in development)

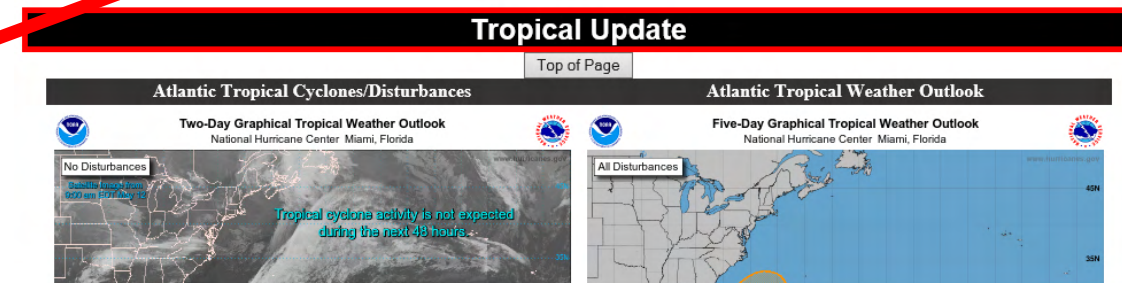
[District 7 Briefing](#)

[Submit NWS Spot Forecast Request](#)

[District 8 Briefing](#)

[Tropical Update](#) [Current Conditions](#) [Marine Forecasts](#) [Wave Models](#) [Weather Forecasts](#) [River Forecasts](#) [Other Links](#)

Submit NWS Spot
Forecast Request



USCG Weather Support Webpage

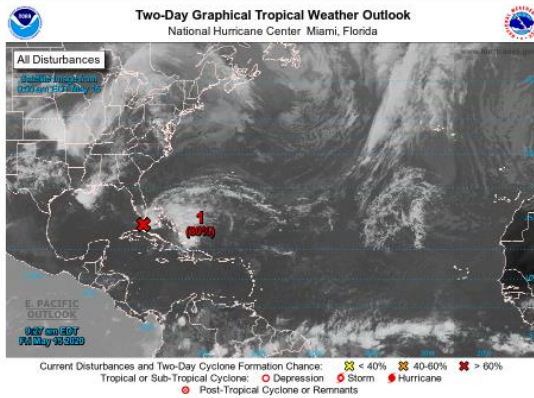


Tropical Analysis and Forecast Branch
NWS National Hurricane Center

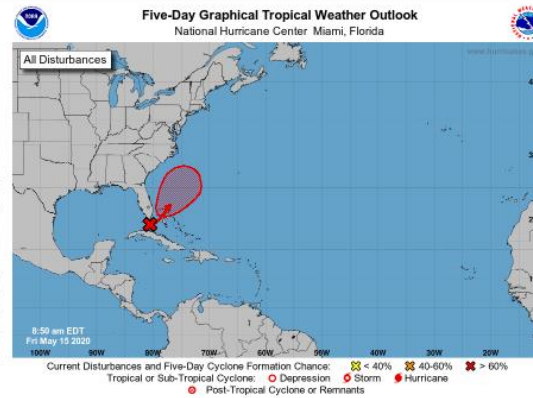
Tropical Update

[Top of Page](#)

Atlantic Tropical Cyclones/Disturbances



Atlantic Tropical Weather Outlook



NWS Watch, Warning, and Advisory Map

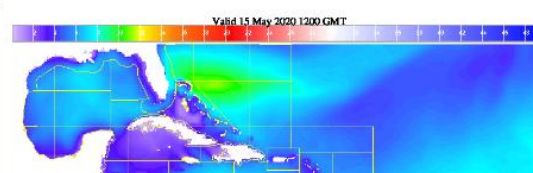
Hover over map to enlarge.
Click on map for full map and product legend.



Offshore Waters Forecast Text Products



Marine Graphical Forecast Map



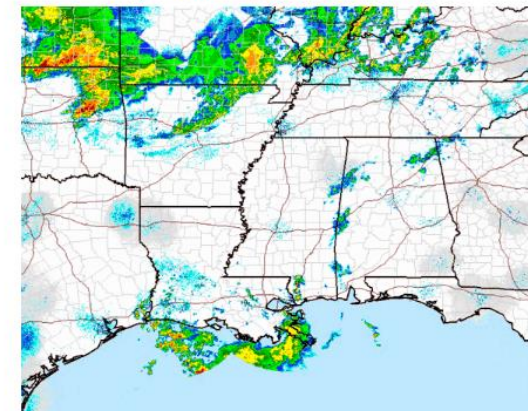
Current Marine Conditions

[Top of Page](#)

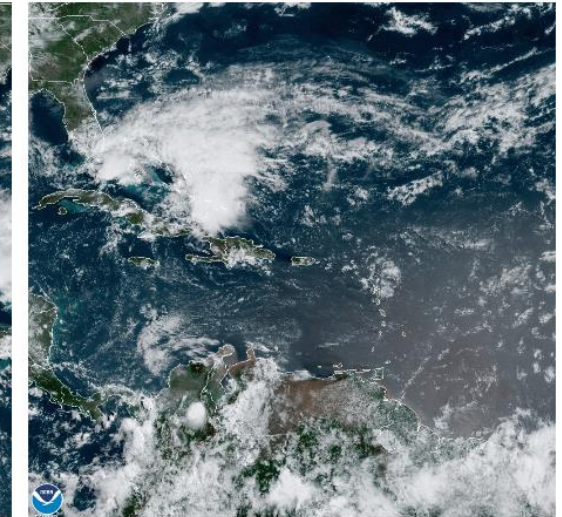
Gulf of Mexico Satellite Imagery



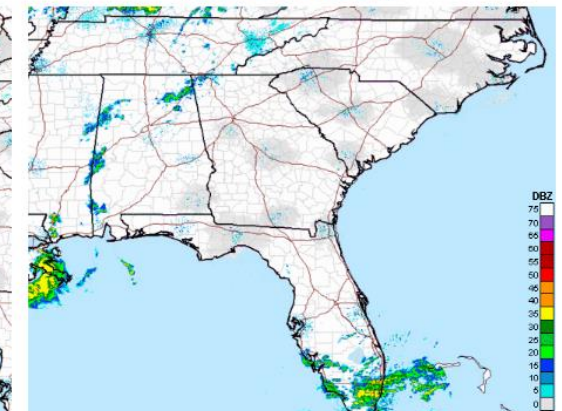
Lower Mississippi Valley Radar Loop



SW Atlantic/Caribbean Satellite Imagery



Southeast U.S. Radar Loop

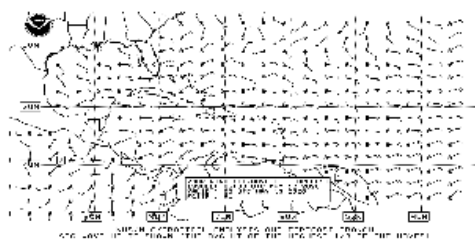




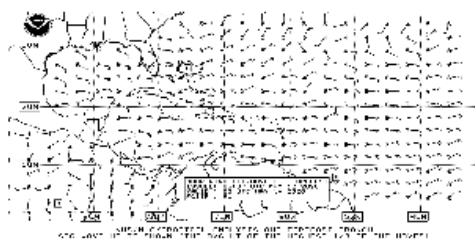
Gulf of Mexico & Atlantic Marine Forecasts

[Top of Page](#)

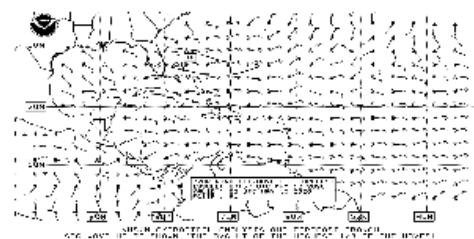
24-hr Wind & Wave Forecast



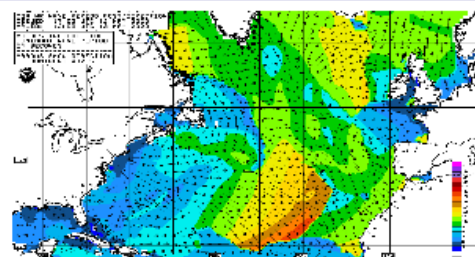
48-hr Wind & Wave Forecast



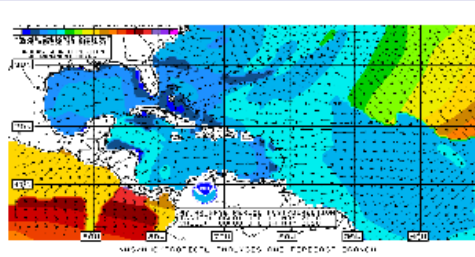
72-hr Wind & Wave Forecast



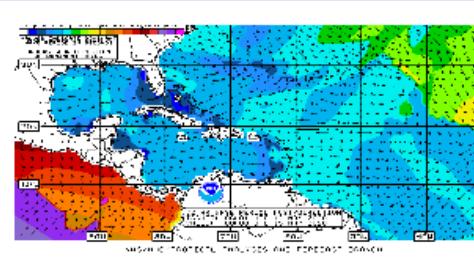
24-hr Wave Period & Direction Forecast



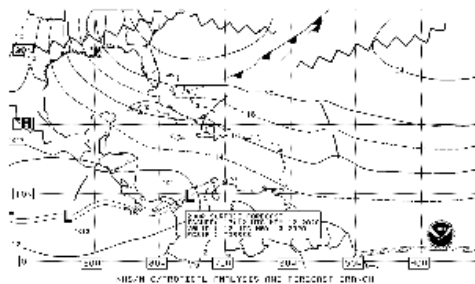
48-hr Wave Period & Direction Forecast



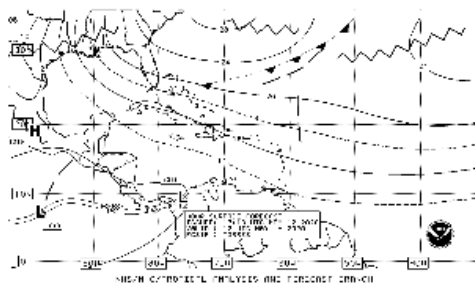
72-hr Wave Period & Direction Forecast



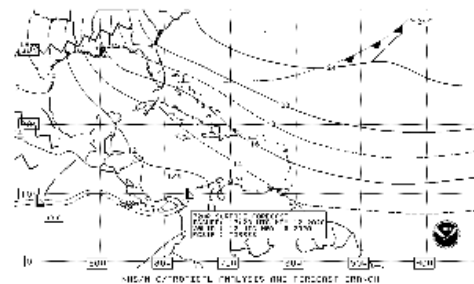
24-hr Surface Features Forecast



48-hr Surface Features Forecast



72-hr Surface Features Forecast





USCG District 8 Hurricane Tabletop Exercise April 20-21, 2022

Planning

- Stephen Konarik led the TAFB team with Andrew Hagen and Amanda Reinhart
- Began planning with USCG District 8 in January 2022
- Two separate, simultaneous hurricanes impacting District 8/Gulf of Mexico (Texas coast and Florida Panhandle/Mobile Bay)
- Alexandria Andonian (Storm Surge Unit) provided the Storm Surge forecasts

Exercise

- Organized 5 full briefings with each having 2 “mini” briefings within them (24 separate briefings altogether)
- On May 8, Chris Landsea, Stephen Konarik, Amanda Reinhart, Brad Reinhart, and Aidan Mahoney toured D8 facilities in New Orleans and provided additional training





Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Thank you for your continued partnership!

