

**IMPACTS FOR D7 (through next 5 days)**

**Winds – None**

**Storm Surge – None**

**Rainfall/Flash Flooding – High**

**Tornadoes – None**

**Waves - Extreme**

# HURRICANE ERNESTO BRIEFING



8:00 PM EDT

Wednesday, August 14, 2024

Prepared by:

**Chris Landsea**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*

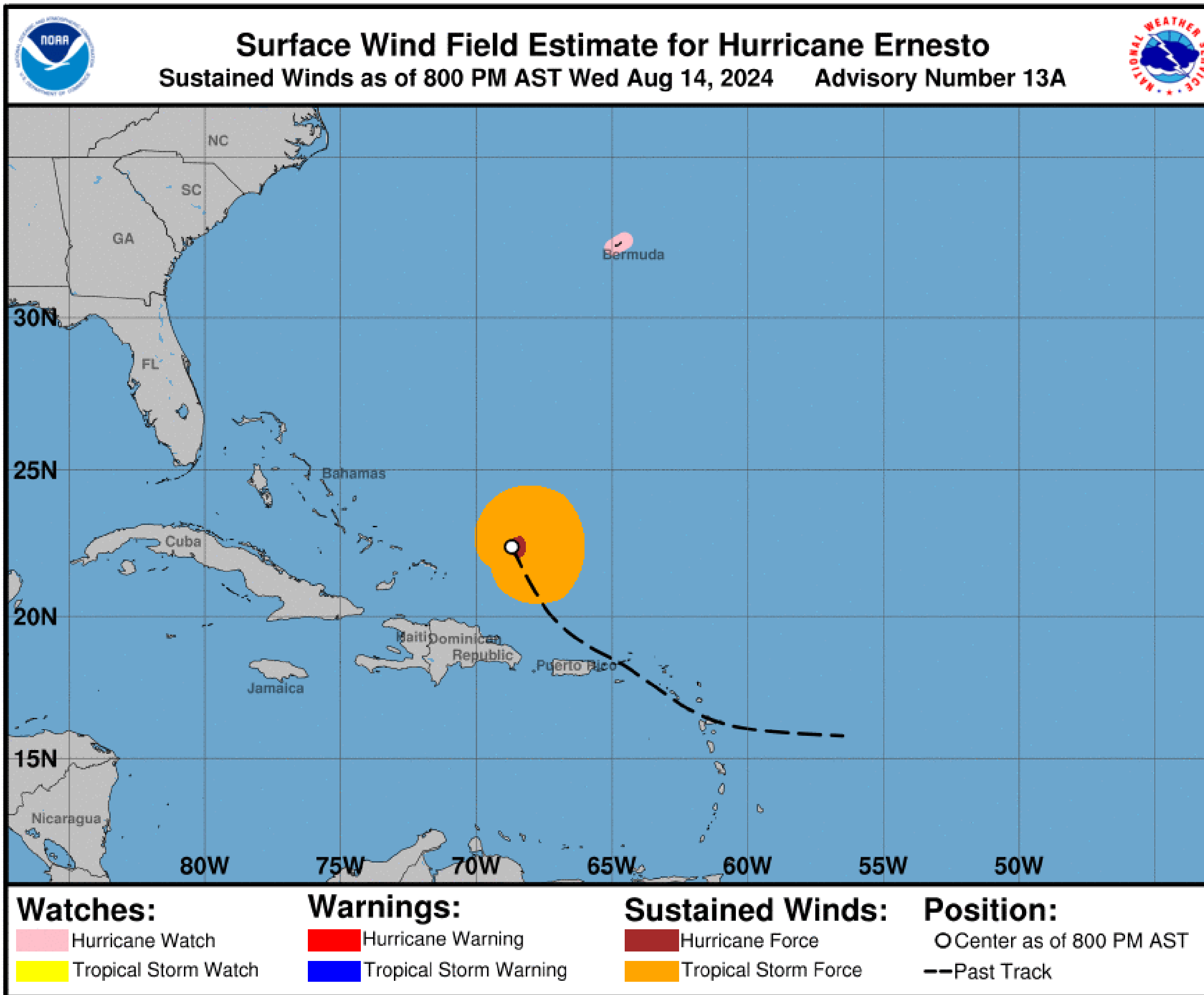


# Situation Overview

Hurricane Ernesto



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



**...AIR FORCE HURRICANE HUNTERS FIND ERNESTO IS STRENGTHENING...  
...HURRICANE WATCH IN EFFECT FOR BERMUDA...**

## SUMMARY OF 800 PM AST INFORMATION

LOCATION...22.4N 68.7W  
ABOUT 155 NM ENE OF GRAND TURK ISLAND  
ABOUT 610 NM SSW OF BERMUDA  
MAXIMUM SUSTAINED WINDS...70 KT  
PRESENT MOVEMENT...NW 14 KT

## SIZE

64 KT..... 30NE 30SE 0SW 0NW.  
50 KT..... 100NE 100SE 0SW 0NW.  
34 KT..... 150NE 150SE 60SW 90NW.  
12 FT SEAS..200NE 180SE 90SW 180NW.  
PEAK SEAS 31 FT

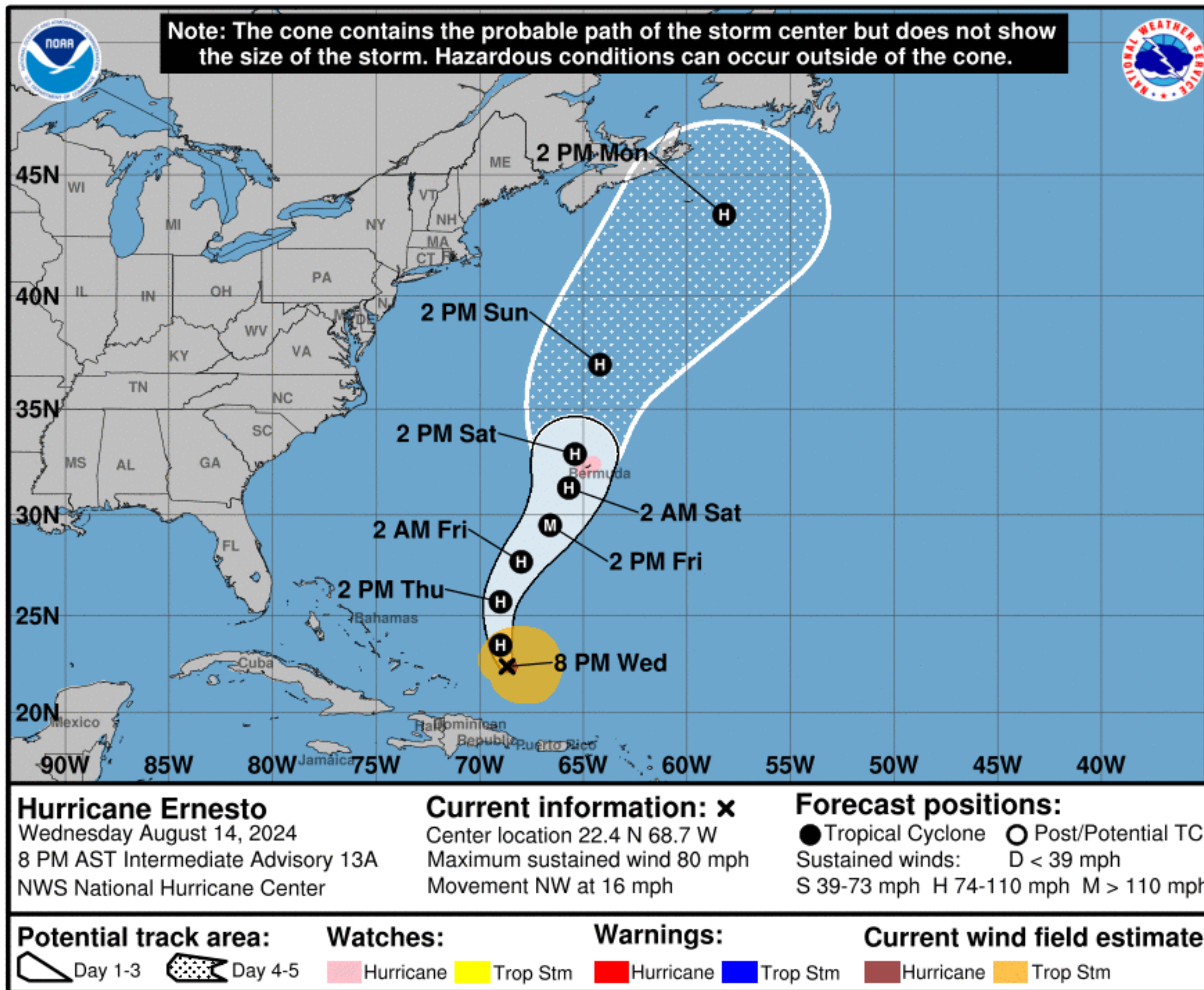


# Forecast Information



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

## Hurricane Ernesto



- Ernesto expected to gradually turn toward the north of Thursday and north-northeast on Friday at about the same rate of speed.

- The hurricane is forecast to steadily intensify and may become a major hurricane by Friday.

- Current center forecast positions through the next 3 days illustrated by dots

- White swath of potential track error added to each side of the forecast track through day 3

\*\* Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

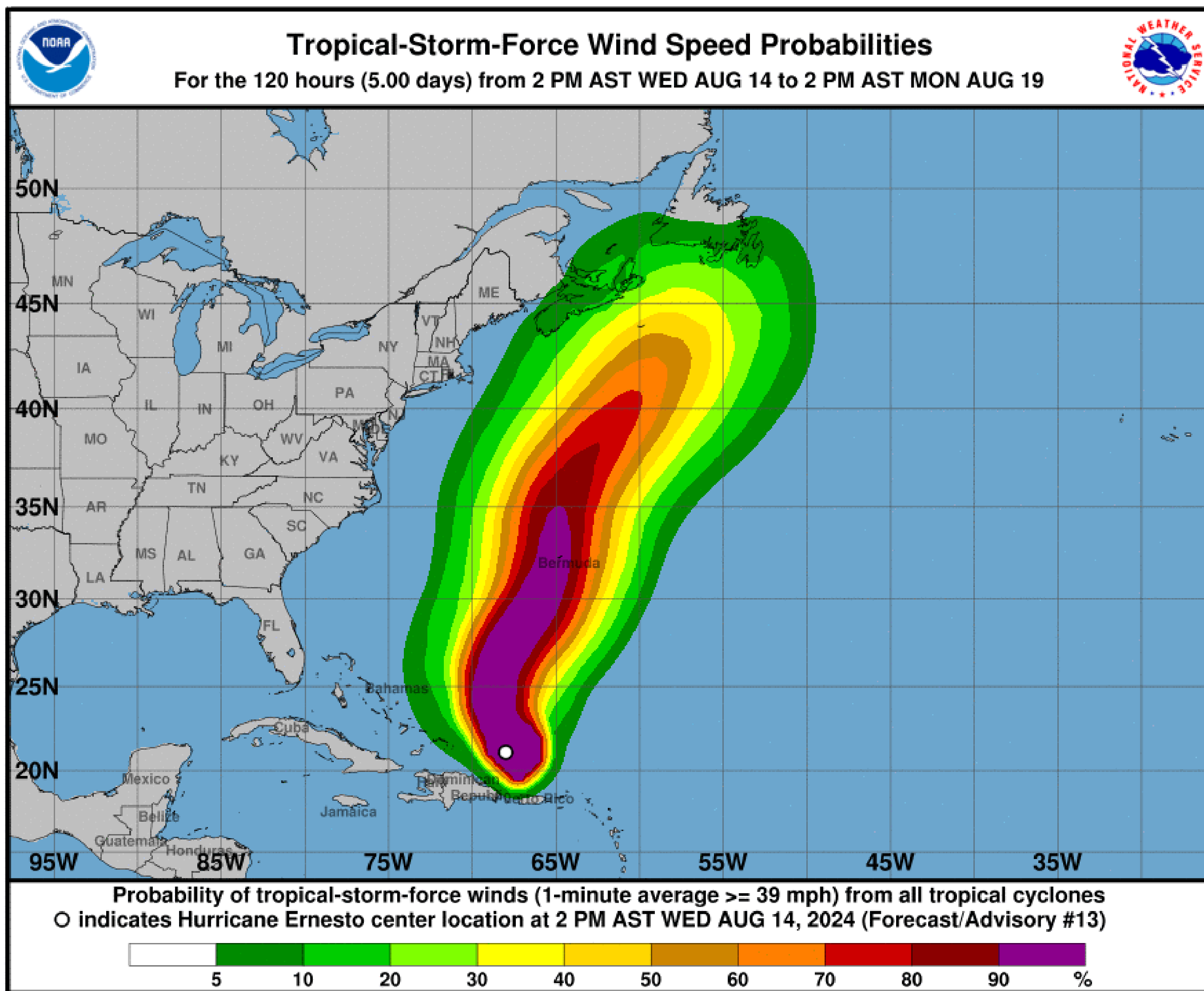
**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

# T.S. Wind Speed Probabilities

Hurricane Ernesto



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- **No Tropical Storm (or Hurricane) Winds are expected for D7's coastlines**
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

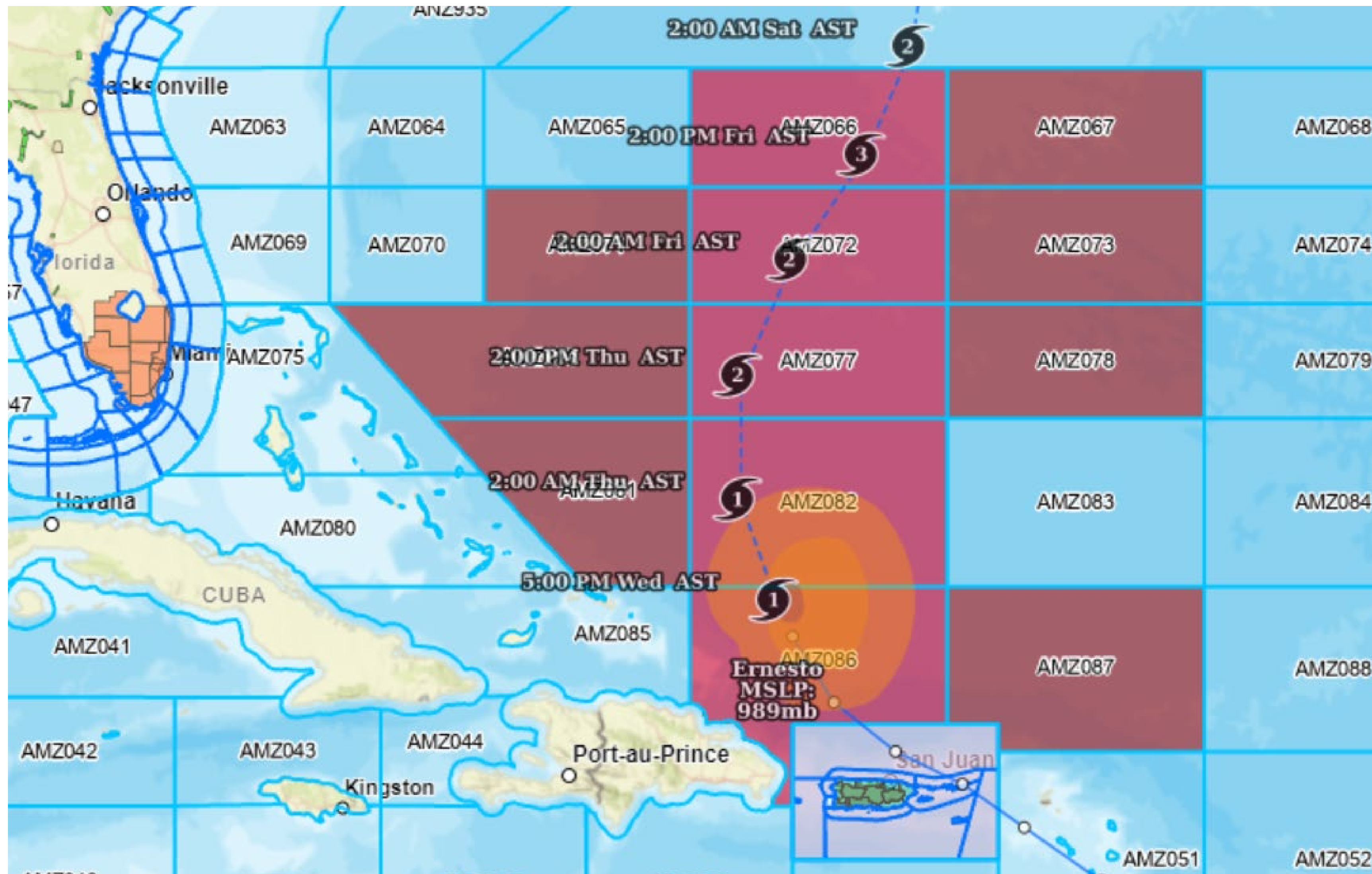


# Hazards Map

Hurricane Ernesto



Tropical Analysis and Forecast Branch  
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<https://nowcoast.noaa.gov/>



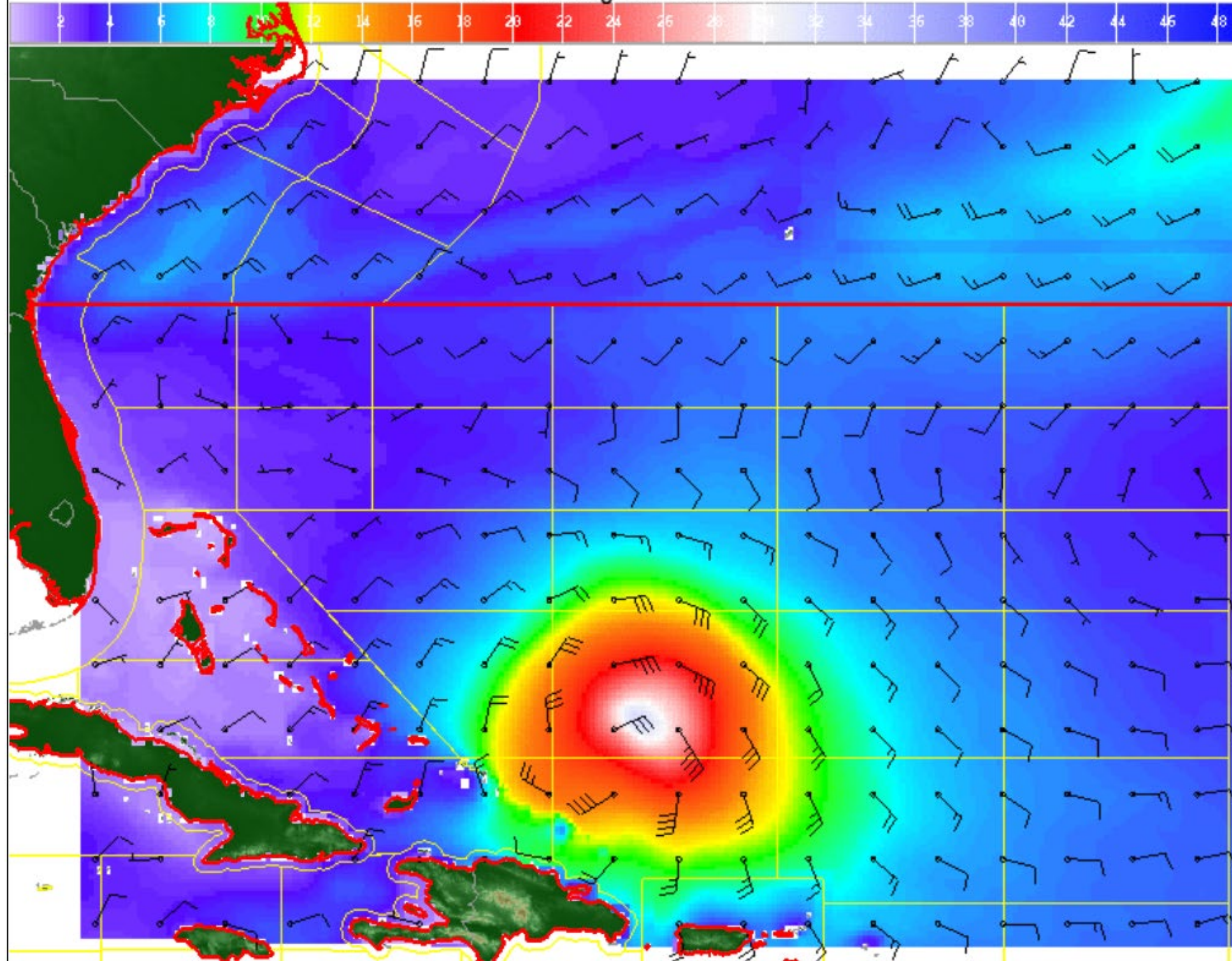
# Wind And Waves



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Ernesto

Valid 15 Aug 2024 0000 GMT



## Current Conditions

8pm EDT, Wednesday, August 14th

Peak Winds: 70 kt

Peak Seas: 33 ft

■ Wave heights are in feet



Significant Wave Height (ft)



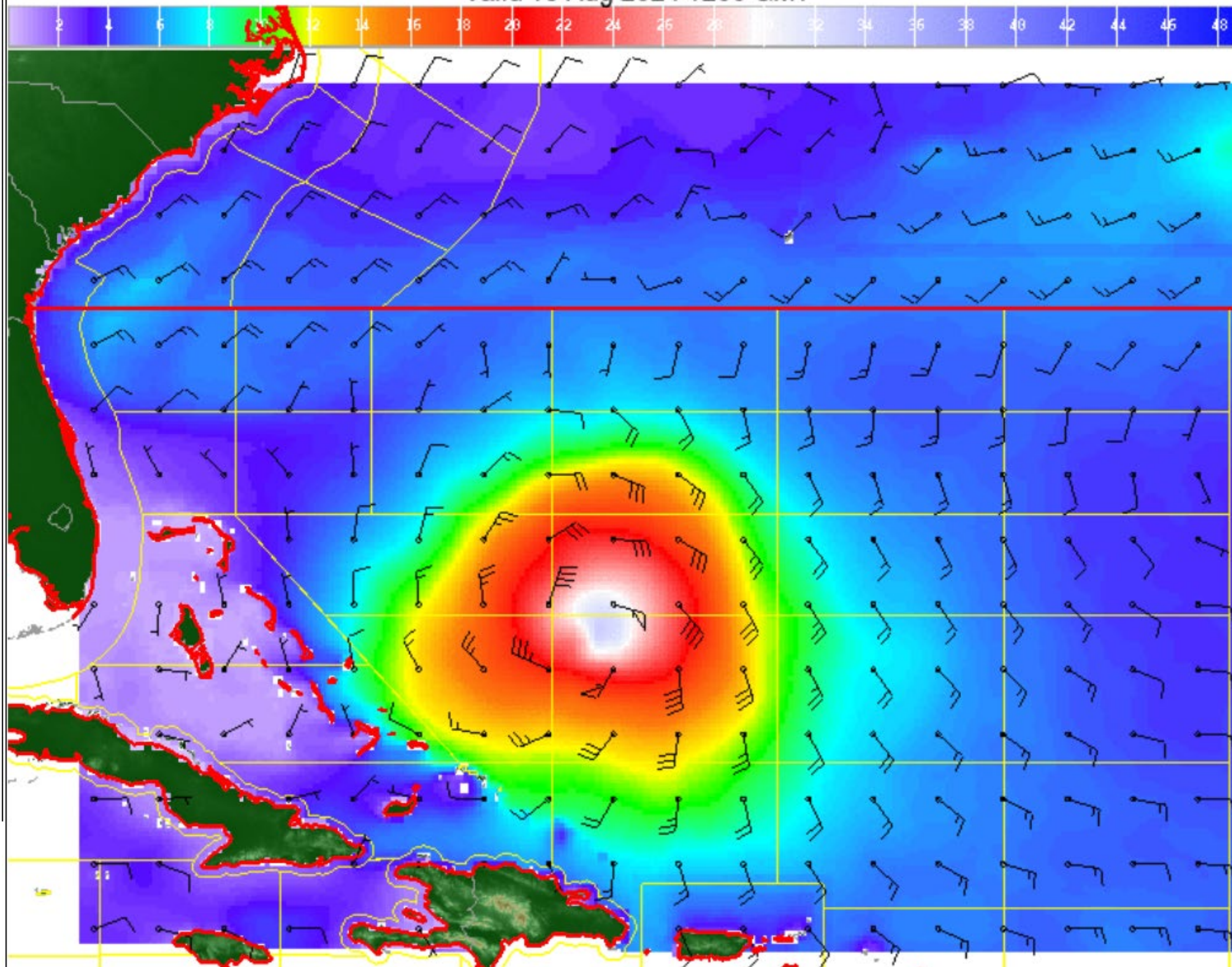
# Wind And Waves

Hurricane Ernesto



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Valid 15 Aug 2024 1200 GMT



12 Hr Forecast

8am EDT, Thursday, August 15th

Peak Winds: 80 kt

Peak Seas: 35 ft

■ Wave heights are in feet



Significant Wave Height (ft)



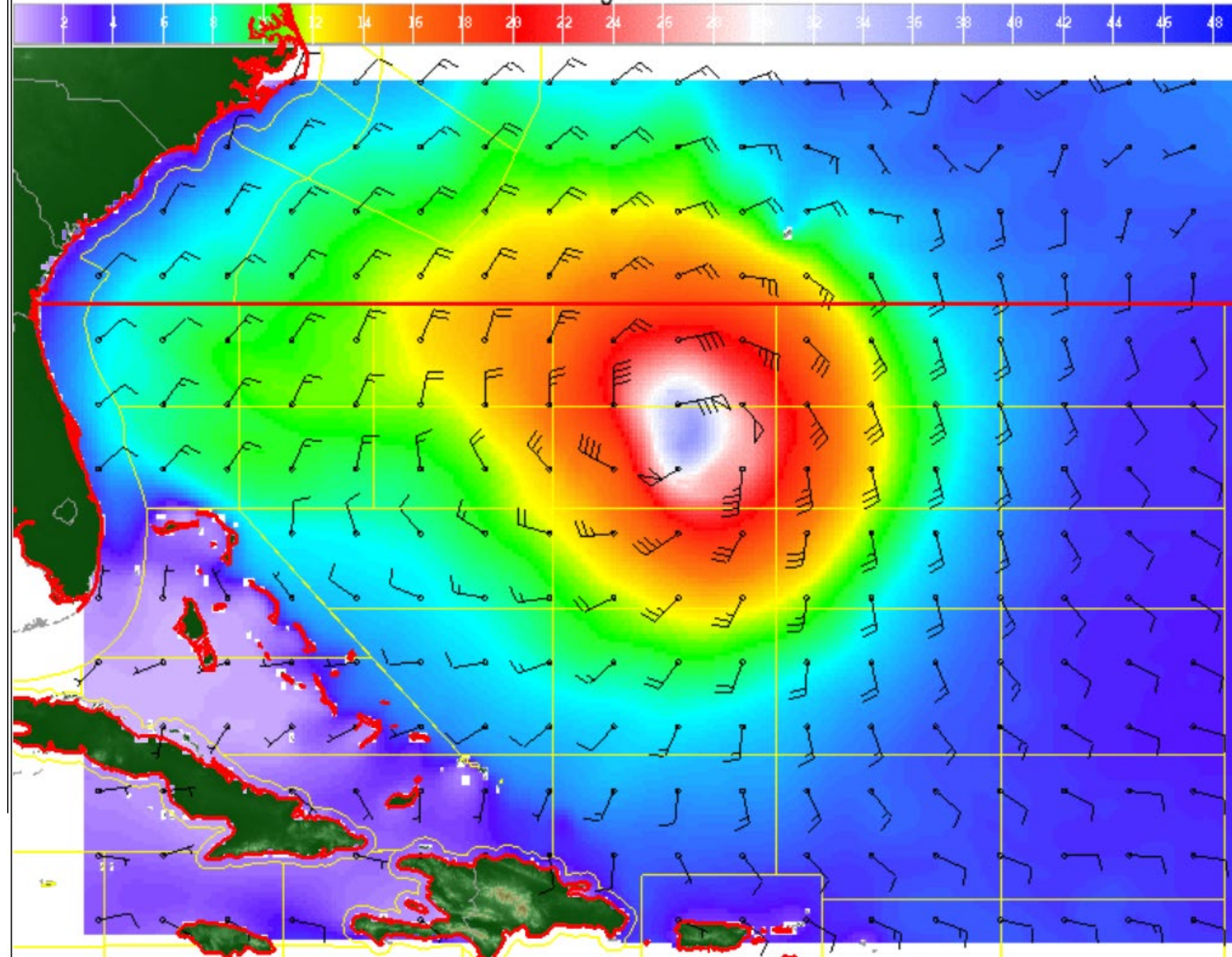
# Wind And Waves

Hurricane Ernesto



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Valid 16 Aug 2024 1200 GMT



36 Hr Forecast

8am EDT, Friday, August 16th

Peak Winds: 90 kt

Peak Seas: 38 ft

Note that dangerous rip currents will occur from Florida to the Carolinas on Friday

■ Wave heights are in feet



Significant Wave Height (ft)

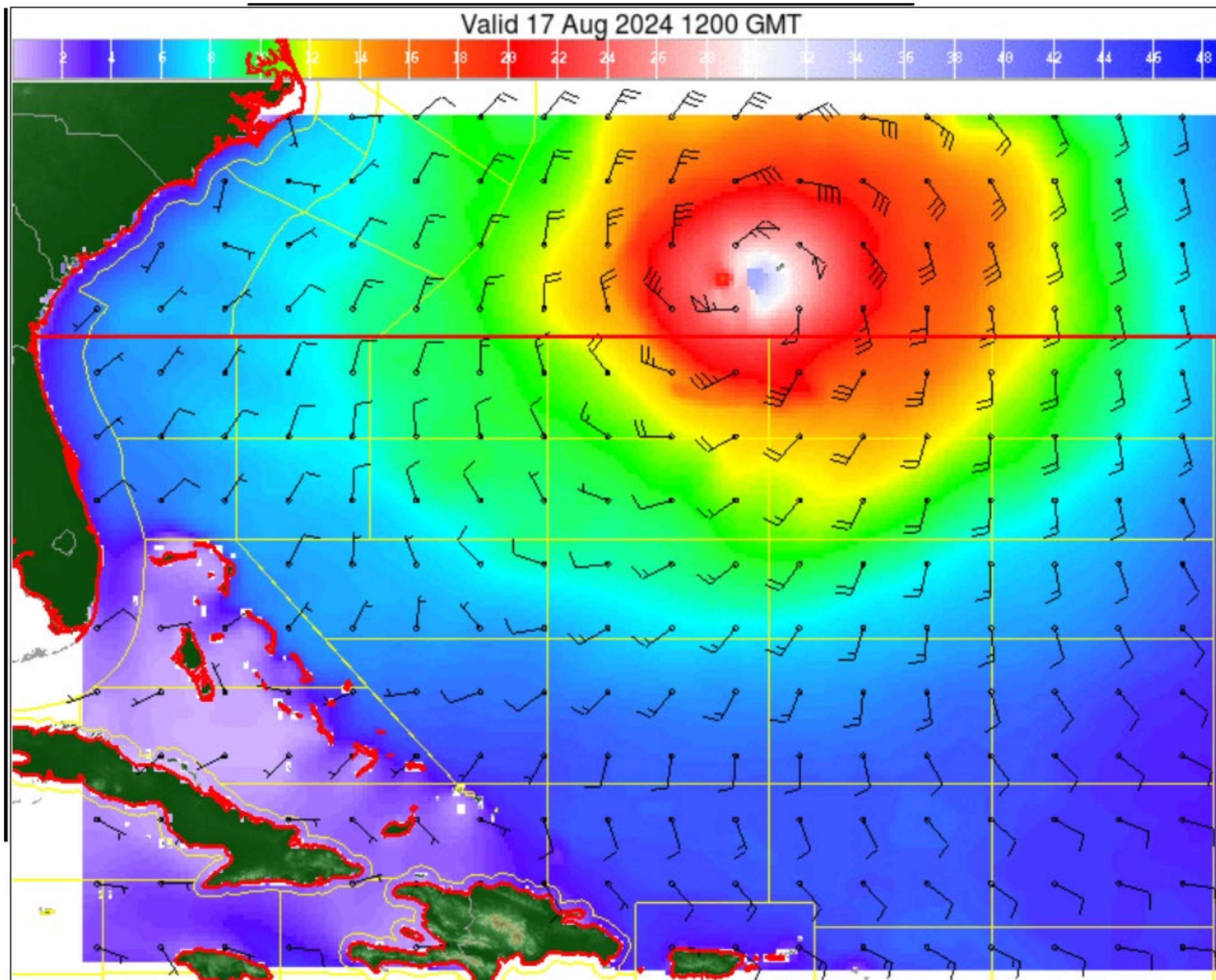


# Wind And Waves

Hurricane Ernesto



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NWS National Hurricane Center



60 Hr Forecast

8am EDT, Saturday, August 17th

Peak Winds: 100 kt

Peak Seas: 40 ft

Note that dangerous rip currents will occur from Florida to the Carolinas on Saturday

■ Wave heights are in feet



Significant Wave Height (ft)



# Expected Storm Total Rainfall and Observed Rainfall

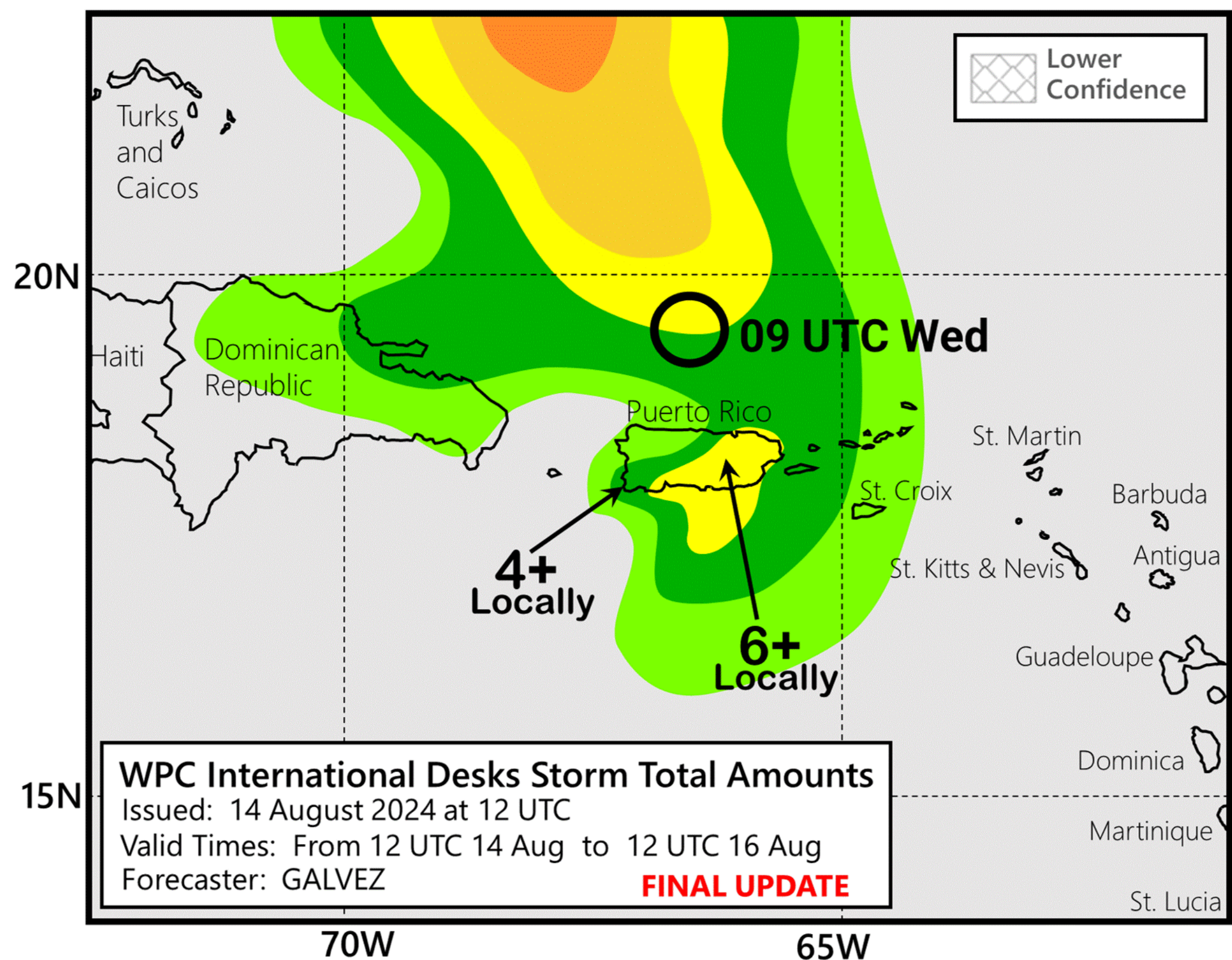


Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

Hurricane Ernesto

Images from NWS Weather Prediction Center

## Tropical Storm Ernesto Total Forecast Rainfall



Rainfall	
inches	mm
30+	750+
20-30	500-750
16-20	400-500
12-16	300-400
8-12	200-300
6-8	150-200
4-6	100-150
2-4	50-100
1-2	25-50

**NOTE**  
This forecast is for planning purposes. A detailed official forecast will be issued by the respective National Hydro Meteorological Service.

NWS San Juan @NWSSanJuan · 25m

12 PM AST Aug 14: Radar-Estimated Rainfall Totals between 6 AM Aug 13 and 12 PM AST Aug 14, 2024. | Totales de lluvia estimados por radar entre las 6 AM del 13 de agosto y las 12 PM AST del 14 de agosto de 2024. #PRwx #USVIwx

## Radar-Estimated Rainfall Totals

Valid between 6 AM AST Aug 13 and 12 PM AST Aug 14, 2024

Weather Forecast Office  
San Juan, PR  
Issued Aug 14, 2024 12:07 PM AST



@NWSSanJuan #prwx #usviwx

weather.gov/sju



# Chance of Rainfall Flooding

Hurricane Ernesto

Images from Weather Forecast Office San Juan



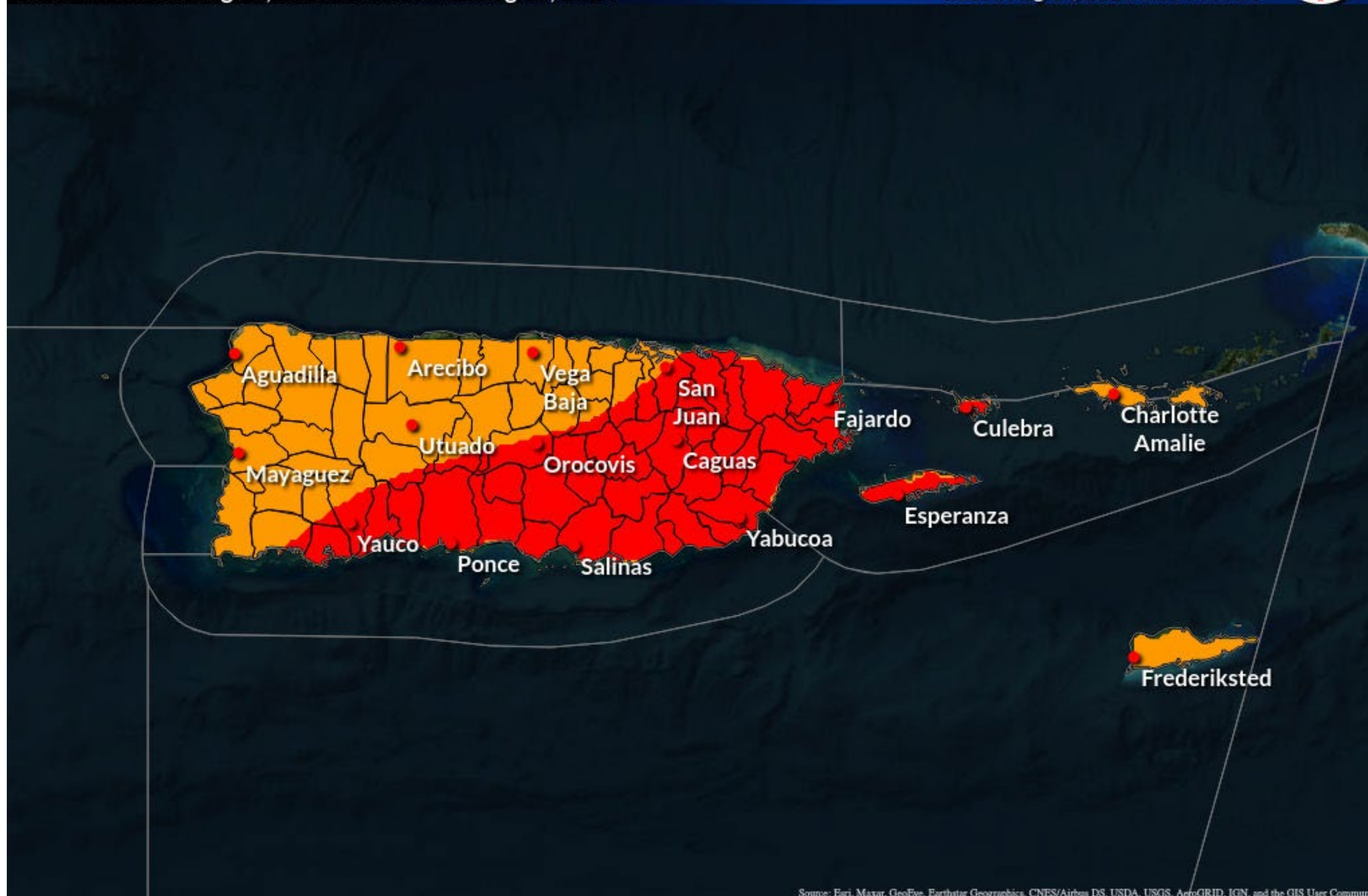
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NWS National Hurricane Center

## Excessive Rainfall Risk for Wed/Wed Night

Valid 4 PM Wed Aug 14, 2024 to 8 AM Thu Aug 15, 2024

Weather Forecast Office  
San Juan, PR

Issued Aug 14, 2024 4:15 PM AST



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

@NWSSanJuan #prwx #usviwx

weather.gov/sju



Elevated

**ESPAÑOL:** Inundaciones de áreas urbanas, carreteras, riachuelos y badenes. Inundaciones repentinas aisladas posibles.

Life-threatening flash flooding entering structures and cutting off neighborhoods, especially in the flood prone areas.



Significant

**ESPAÑOL:** Inundaciones repentinas amenazantes a vida posiblemente entrando a estructuras y separando vecindarios, particularmente en zonas propensas a inundacion.

Widespread life-threatening flash flooding, entering structures and affecting many streets and neighborhoods. Catastrophic flooding possible (record flooding) with significant disruption to daily life.



# Key Messages

## Hurricane Ernesto



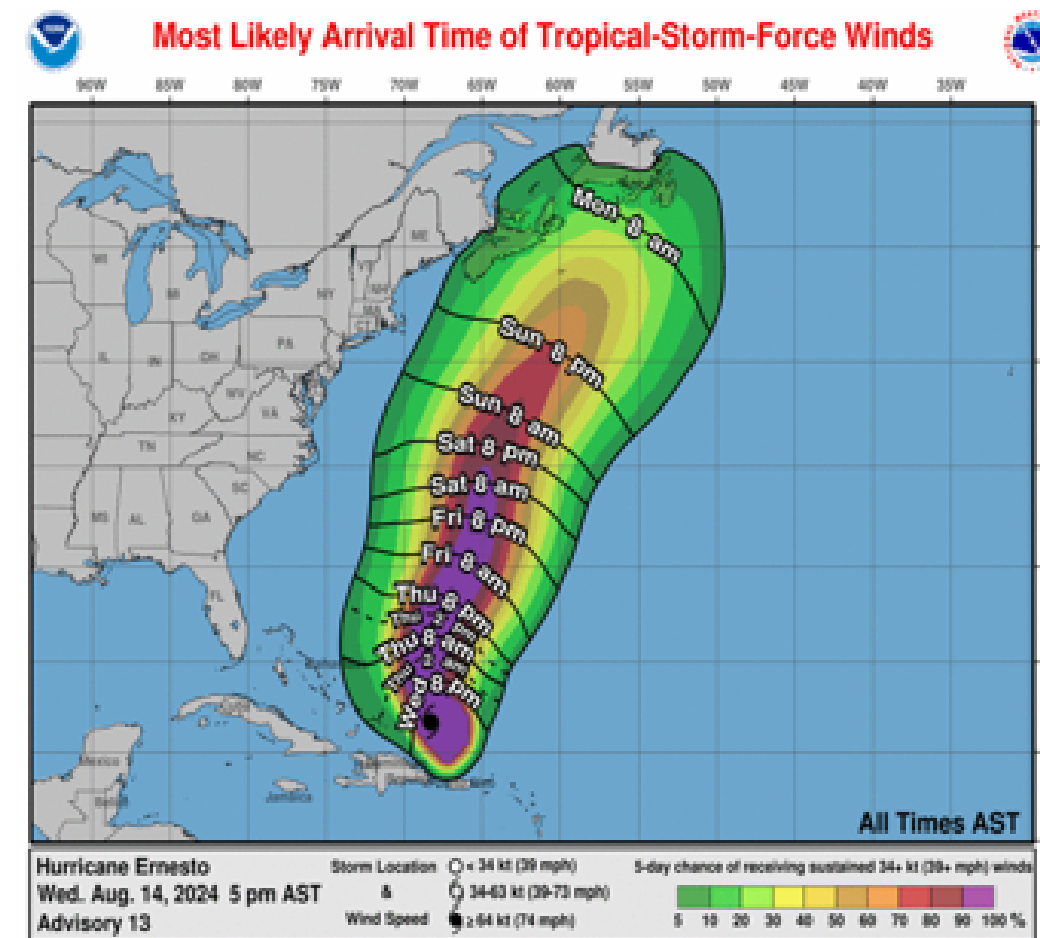
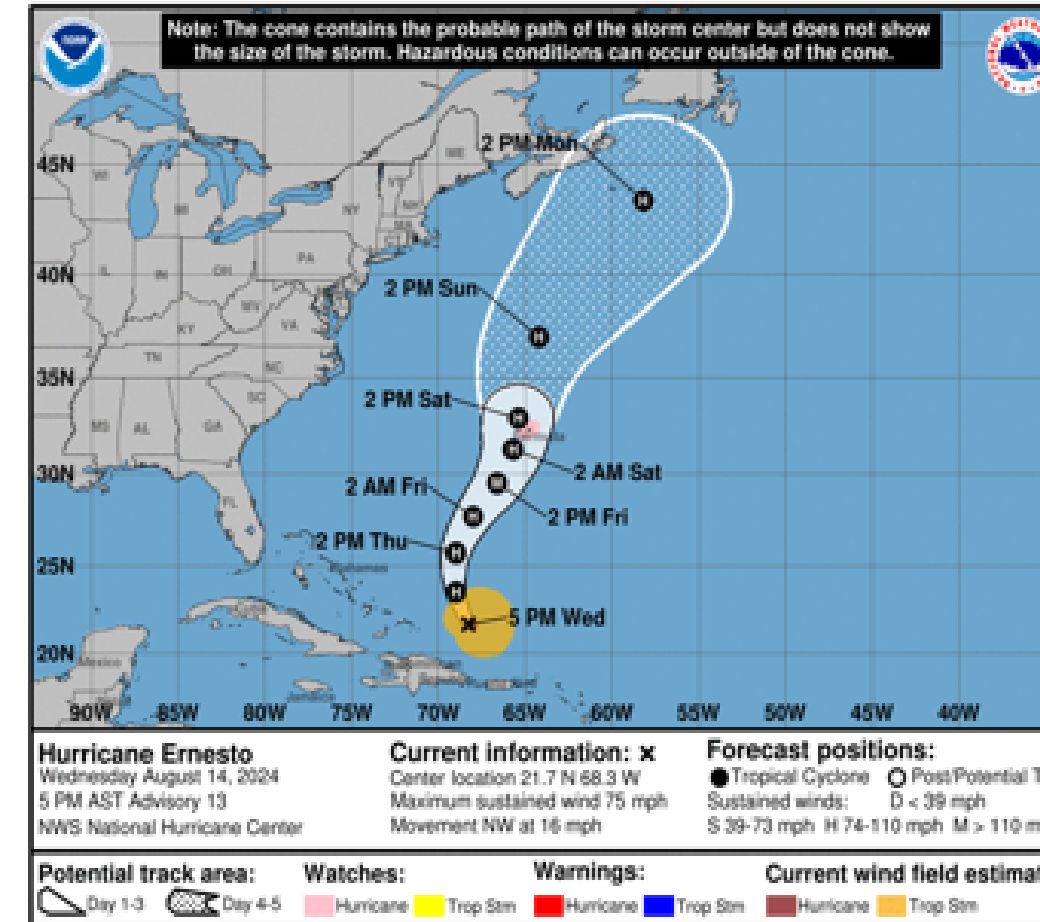
Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



### Key Messages for Hurricane Ernesto Advisory 13: 5:00 PM AST Wed Aug 14, 2024



1. Hurricane conditions are possible on Bermuda on Saturday, with tropical storm conditions possible by Friday afternoon. Rainfall associated with Ernesto may begin to affect Bermuda as early as Thursday and result in flash flooding across Bermuda later in the week and this weekend.
2. Heavy rainfall will be diminishing across Puerto Rico into the Virgin Islands this evening. Locally considerable flash flooding and mudslides will continue through tonight over the Virgin Islands and into portions of Puerto Rico.
3. Even though Ernesto is forecast to remain well offshore the U.S. East Coast, swells generated by the storm are expected to reach the area late this week and into the weekend. Beach goers should be aware of a significant risk of life-threatening surf and rip currents, and stay out of the water if advised by lifeguards. Surf and rip currents are also possible on the Virgin Islands, Puerto Rico, the Dominican Republic, the Turks and Caicos, and the Bahamas during the next few days.



- **Marine Key Messages:**
- Extreme (40 ft) seas are expected by Fri over D7's SRR
- Wind/Wave conditions will be back to normal by Thursday morning over USVI/Puerto Rico
- Note that dangerous rip currents will occur from Florida to the Carolinas on Friday and Saturday

### IMPACTS FOR D7 (through next 5 days)

**Winds – None**

**Storm Surge – None**

**Rainfall/Flash Flooding – High**

**Tornadoes – None**

**Waves - Extreme**

For more information go to [hurricanes.gov](https://hurricanes.gov)



You can contact the  
Tropical Analysis and  
Forecast Branch at  
305-229-4424



# HURRICANE ERNESTO BRIEFING

This briefing was prepared by:  
Chris Landsea – [Chris.Landsea@noaa.gov](mailto:Chris.Landsea@noaa.gov)

**TIME of NEXT NHC Advisory:**

**11 PM EDT**

*The Next Briefing Will Be:*

*Thursday 8:30 AM EDT*

*You can always find get the latest graphics and information for this storm at [www.hurricanes.gov](http://www.hurricanes.gov)*



NHC\_TAFB

[www.nhc.noaa.gov](http://www.nhc.noaa.gov)