IMPACTS FOR D7 (through next 5 days)

Winds - Medium

Storm Surge – Low

Rainfall/Flash Flooding - High

Tornadoes – None

Waves - High

TROPICAL STORM ERNESTO BRIEFING



8:30 AM EDT

Wednesday, August 14, 2024

Prepared by:

Jeff Lewitsky

Tropical Analysis and Forecast Branch NWS National Hurricane Center



Tropical Storm Ernesto



Tropical Analysis and Forecast Branch NWS National Hurricane Center

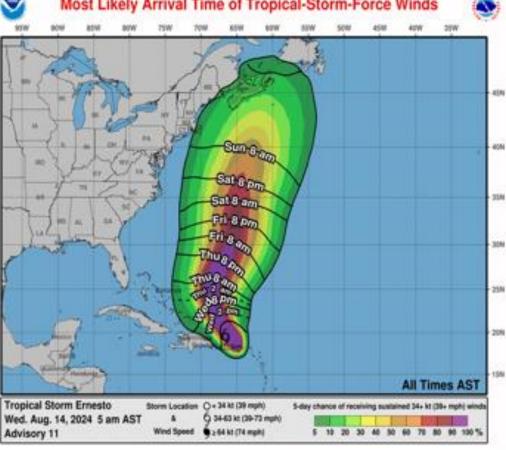


Key Messages for Tropical Storm Ernesto Advisory 11: 5:00 AM AST Wed Aug 14, 2024



- Tropical storm conditions are expected to continue over the Virgin Islands, Puerto Rico, Culebra, and Vieques during the next several hours.
- 2. Heavy rainfall will result in locally considerable flash flooding and mudslides today over the Virgin Islands and into portions of Puerto Rico.
- 3. Ernesto is likely to bring impacts to Bermuda late this week, and interests there should monitor the progress of this system.
- 4. Swells generated by Ernesto are expected to affect portions of the Virgin Islands, Puerto Rico, the Dominican Republic, the Turks and Caicos, and the Bahamas during the next few days, and then reach the east coast of the United States and Bermuda late this week and into the weekend. These swells are likely to cause life-threatening surf and rip current conditions.





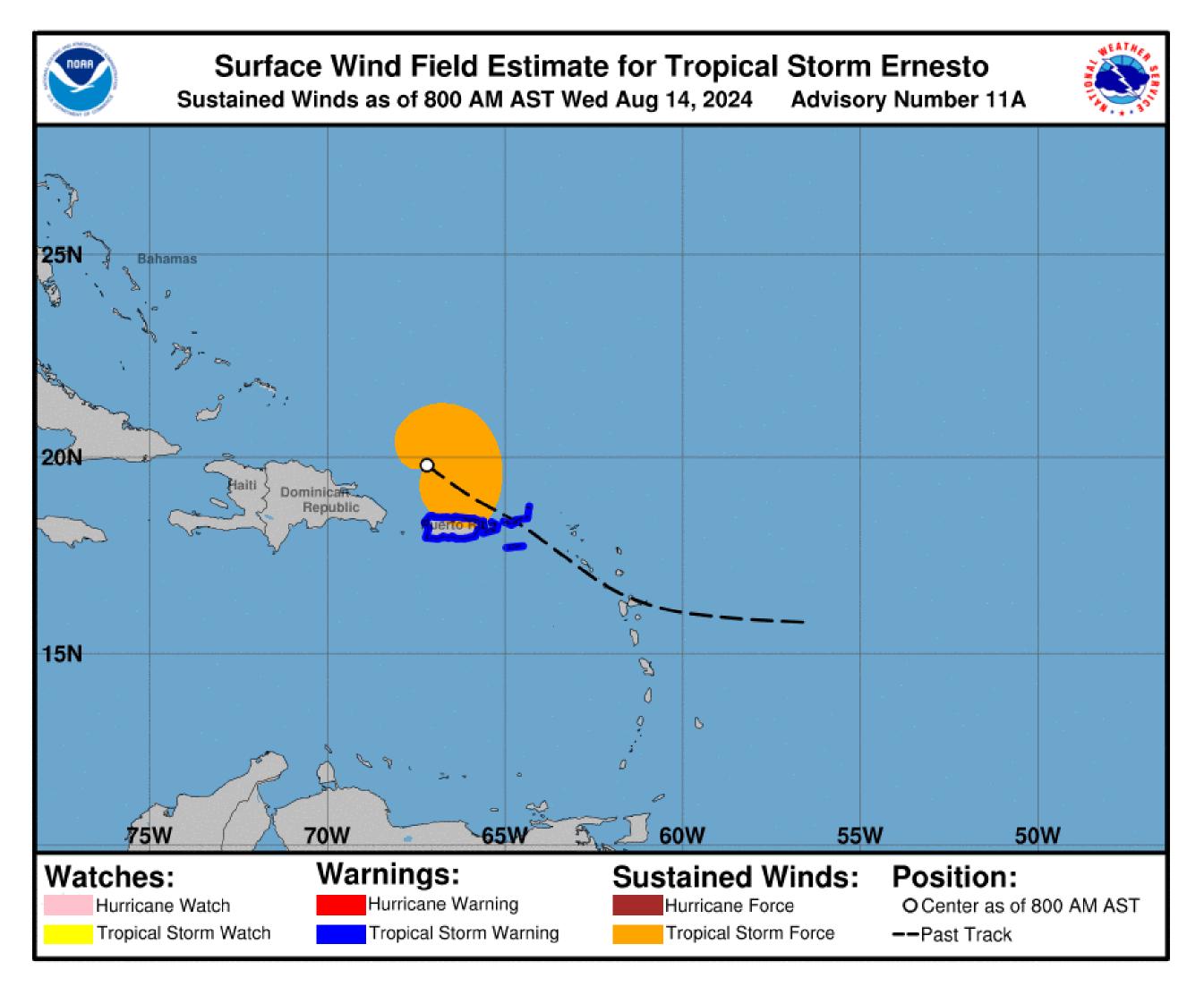
For more information go to hurricanes.gov

- Marine Key Messages:
- Very large seas will persist across the USVI/PR, peaking this morning
- Tonight into early Thursday, seas will slowly subside and subside below 8 ft

Situation Overview

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



...FLOODING RAINS FROM ERNESTO CONTINUE ACROSS PUERTO RICO AND THE VIRGIN ISLANDS...

Summary of 800 AM EDT Information

LOCATION...19.8N 67.2W
About 109 nm NW of San Juan Puerto Rico
Maximum Sustained Winds...60 kt
Present Movement...NW at 14 kt

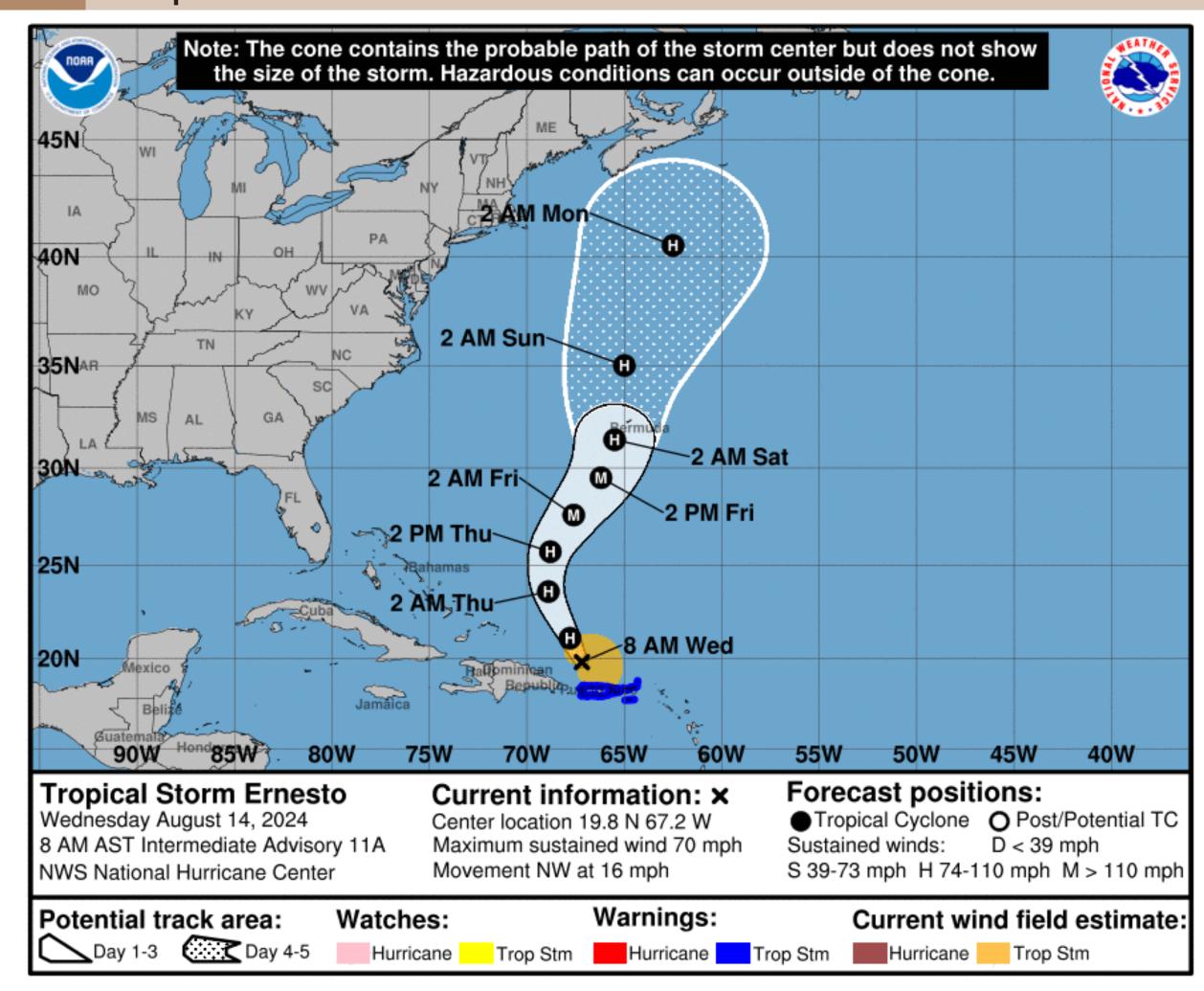
Peak Seas...25 ft

12 ft seas...200NE 145SE 60SW 180NW.

Forecast Information

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



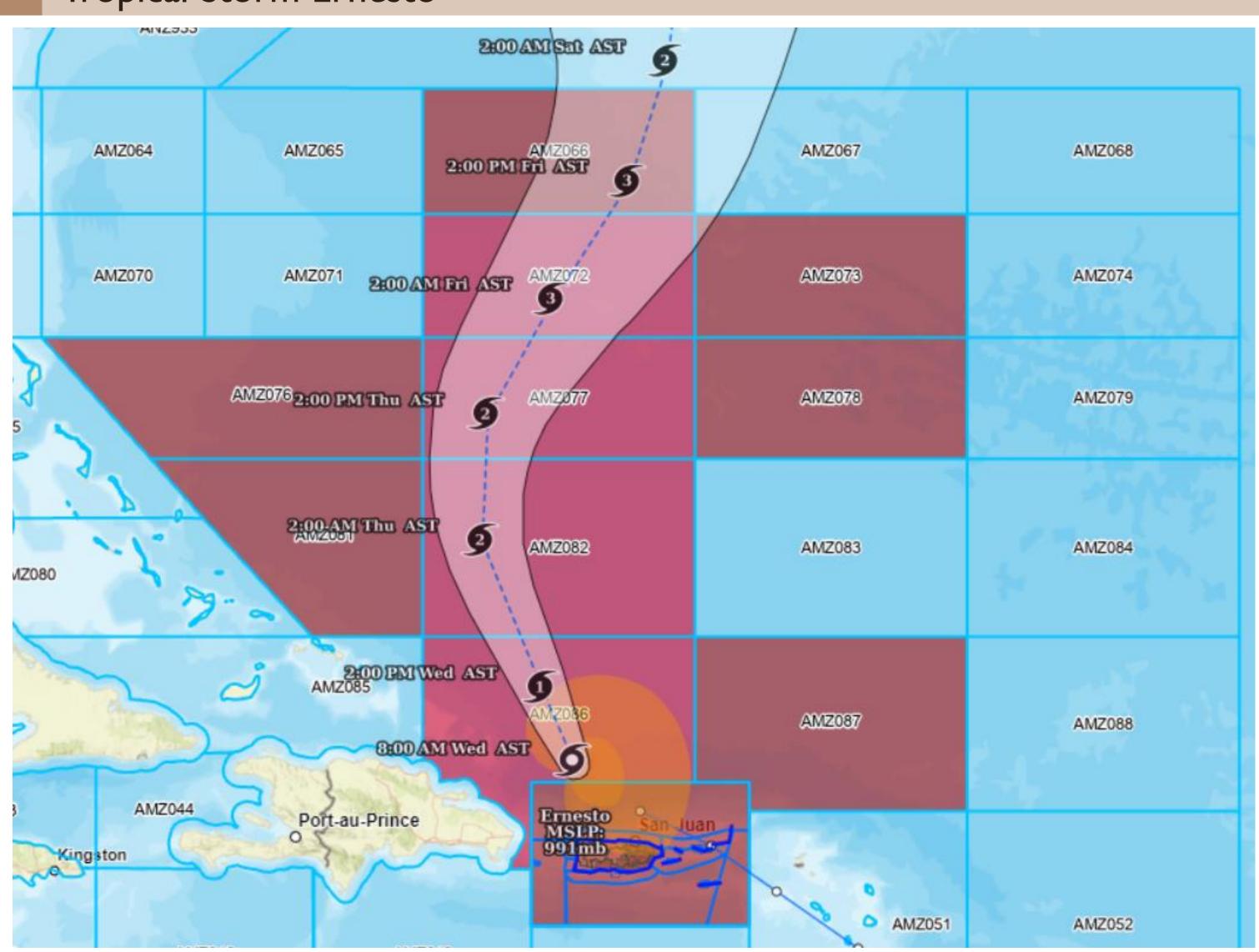
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- A turn toward the north-northwest and north with a gradual decrease in forward speed is expected tonight and Thursday.
- On the forecast track, the center of Ernesto will move northward away from Puerto Rico through today.
- Ernesto should then move over the western Atlantic later in the week and be nearing Bermuda on Saturday.
- Ernesto is expected to become a hurricane later today and could become a major hurricane in a couple of days.
- Current center forecast positions through the next 5 days (if applicable) illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3
- Hatched swatch of potential track error added to each side of the forecast track days 4-5

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

Tropical Analysis and Forecast Branch NWS National Hurricane Center

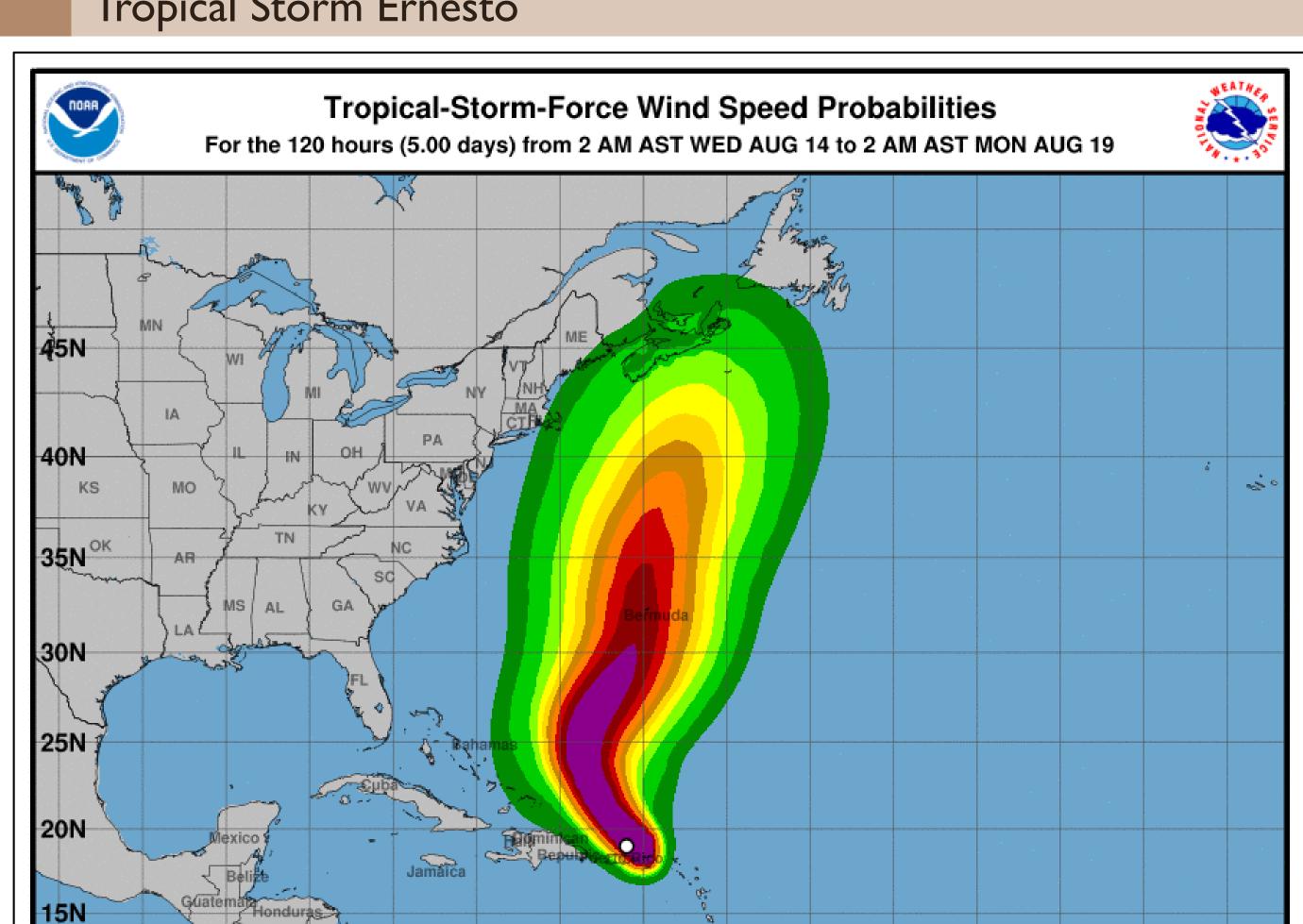
Tropical Storm Ernesto

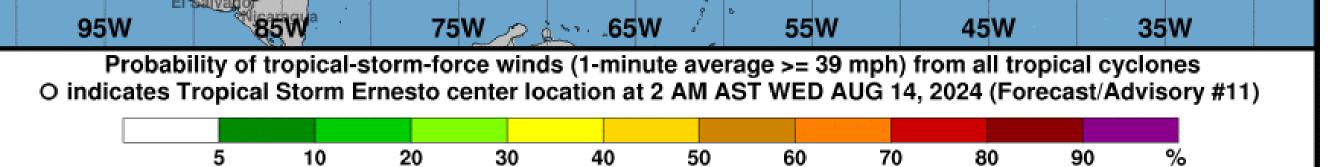




T.S. Wind Speed Probabilities

Tropical Storm Ernesto





Tropical Analysis and Forecast Branch NWS National Hurricane Center

- Ponce 0%
- Aguadilla 5%
- San Juan 85%
- Vieques 100%
- Culebra 100%
- Saint Thomas 100%
- Saint Croix 50%

-**Green** indicates probabilities have gone down since last briefing -Red indicates probabilities have gone up since last briefing -Black indicates probabilities remain

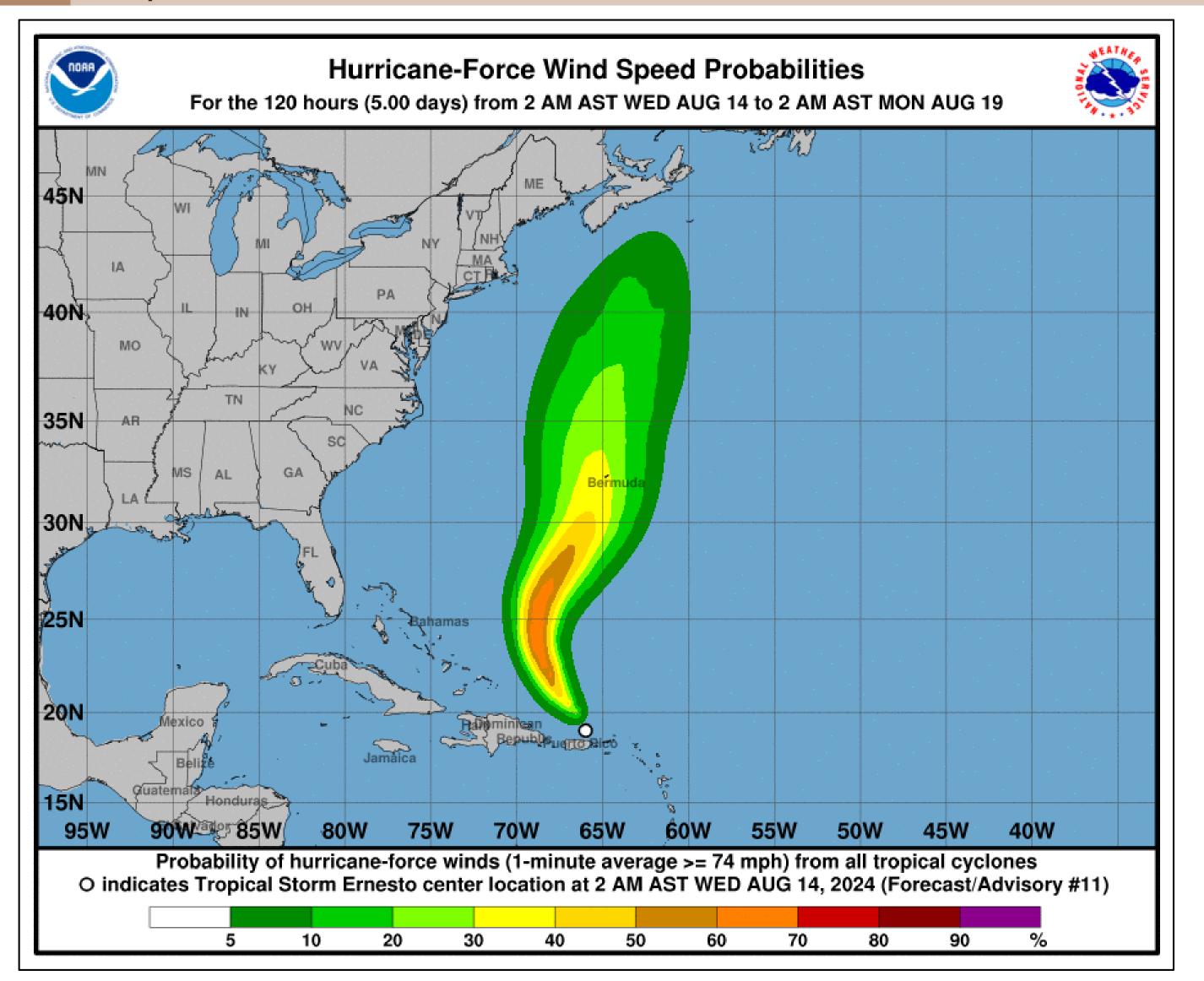
the same

- 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.

Hurricane Wind Speed Probabilities

Tropical Analysis and Forecast Branch NWS National Hurricane Center

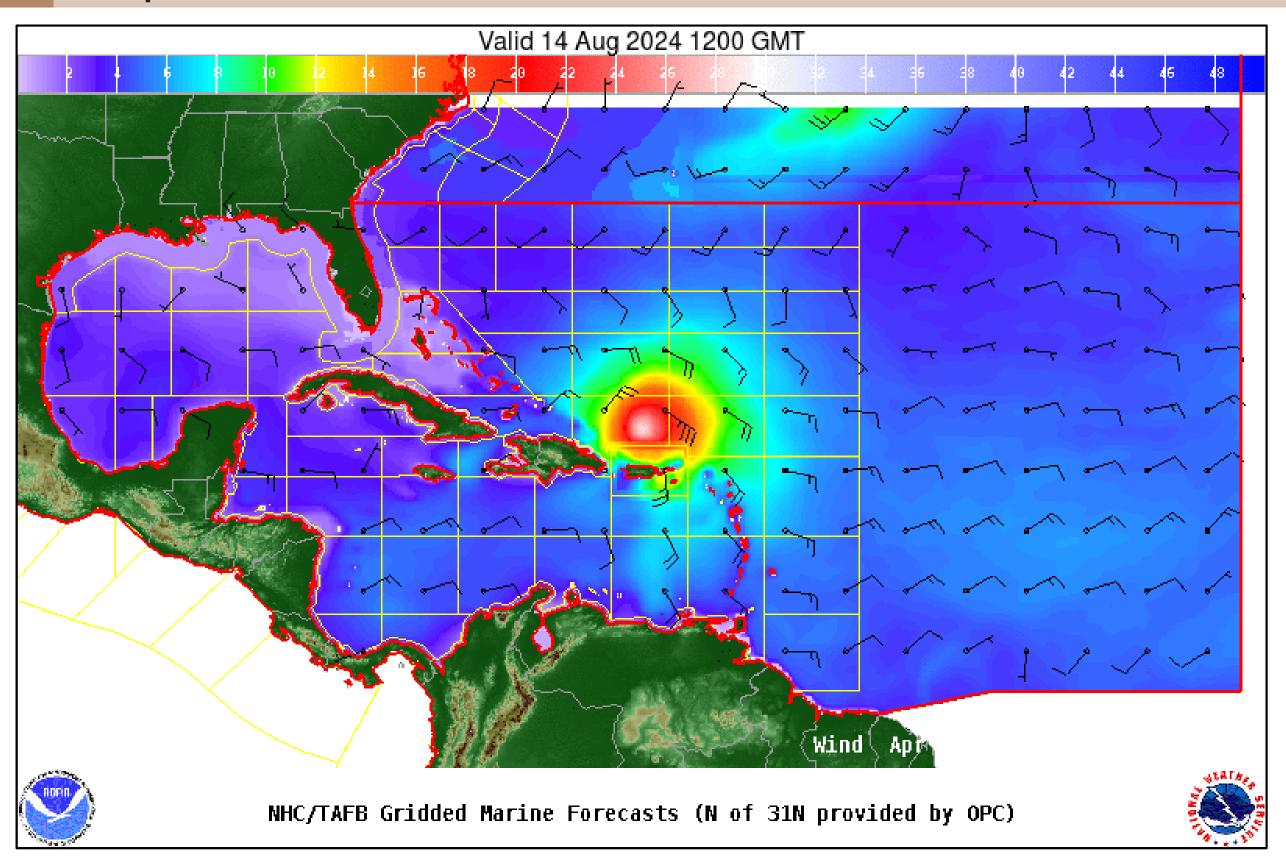
Tropical Storm Ernesto



- PR and USVI: None
- Probabilities of sustained hurricane force winds (64 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%
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Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



Current Conditions

Wednesday, August 14th at 8am EDT

Peak Winds: 60 kt

Peak Seas: 25 ft

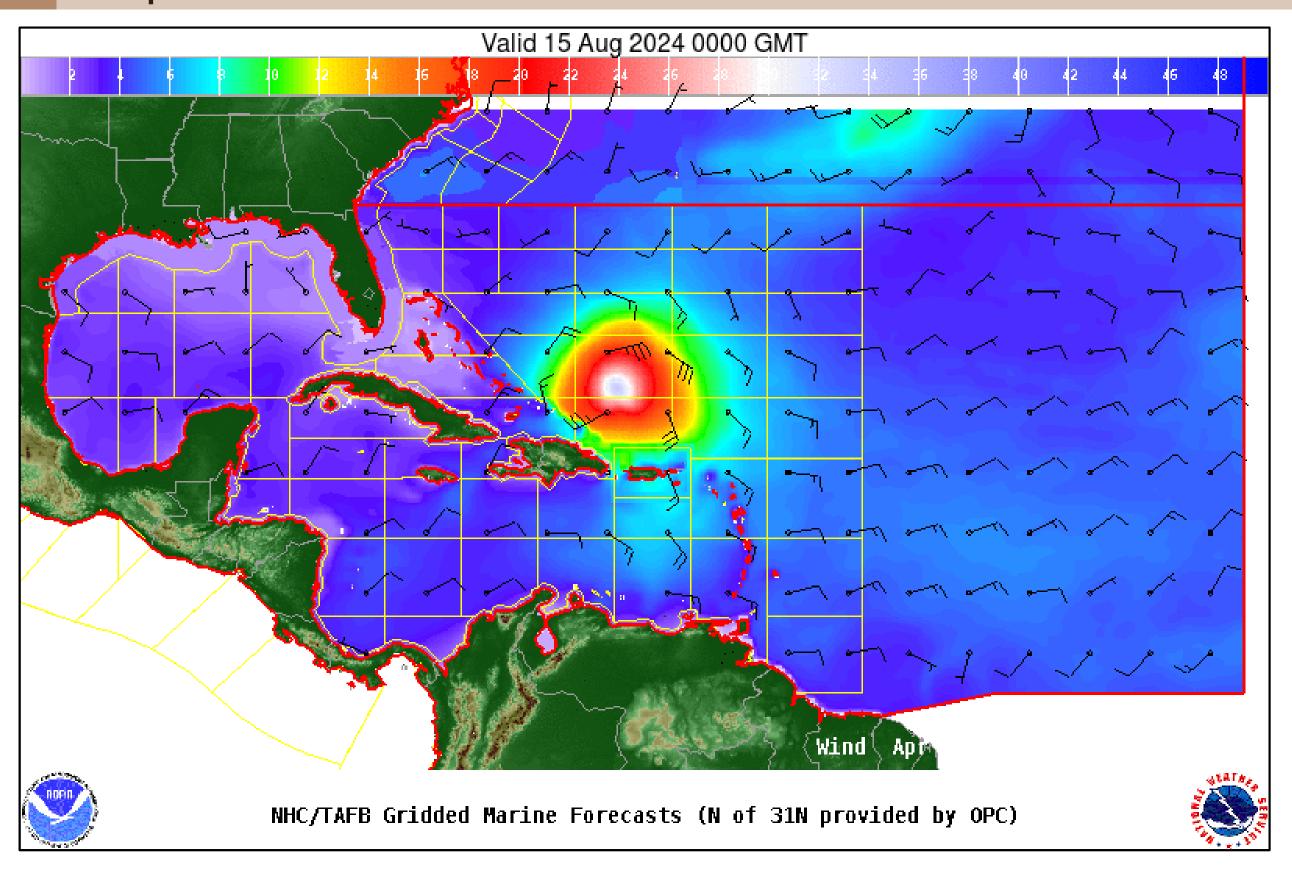
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



12 Hour Forecast

Wednesday, August 14th at 8pm EDT

Peak Winds: 75 kt

Peak Seas: 32 ft

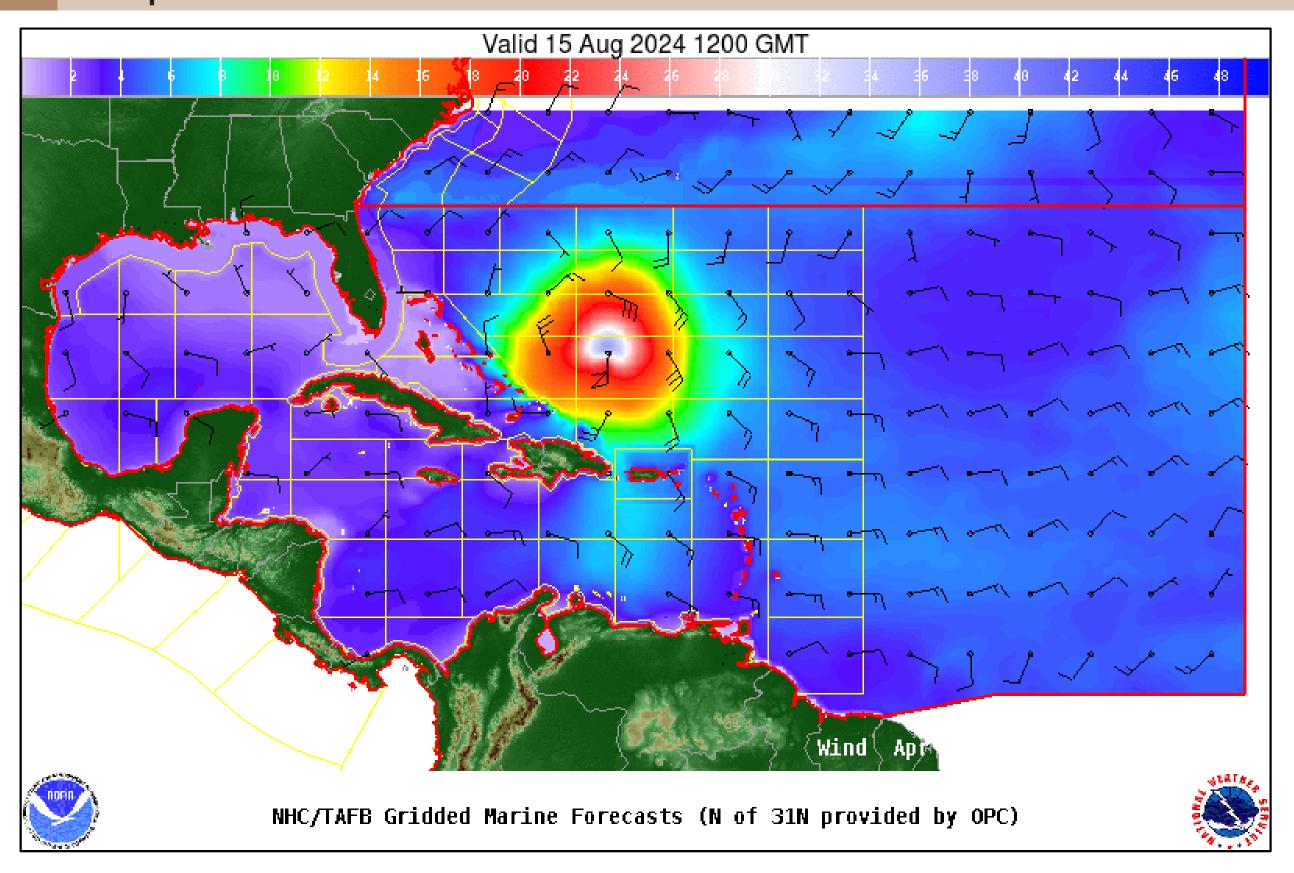
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



24 Hour Forecast

Thursday, August 15th at 8am EDT

Peak Winds: 90 kt

Peak Seas: 36 ft

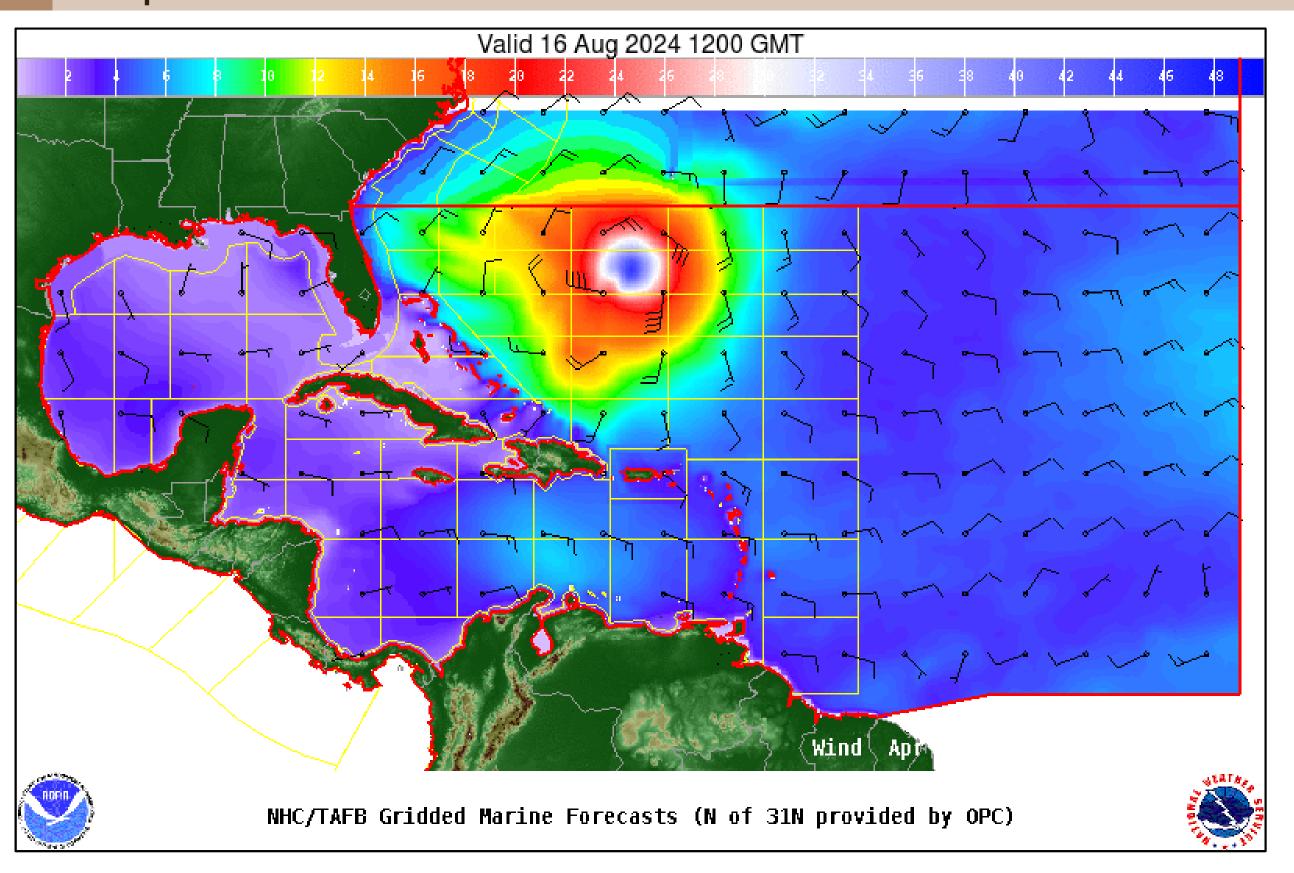
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



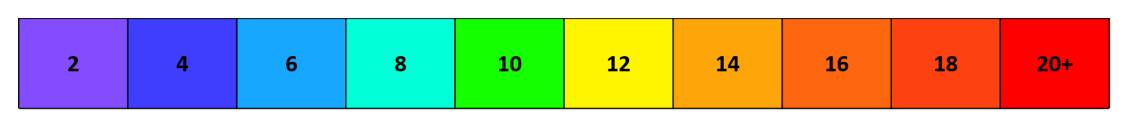
48 Hour Forecast

Friday, August 16th at 8am EDT

Peak Winds: 100 kt

Peak Seas: 42 ft

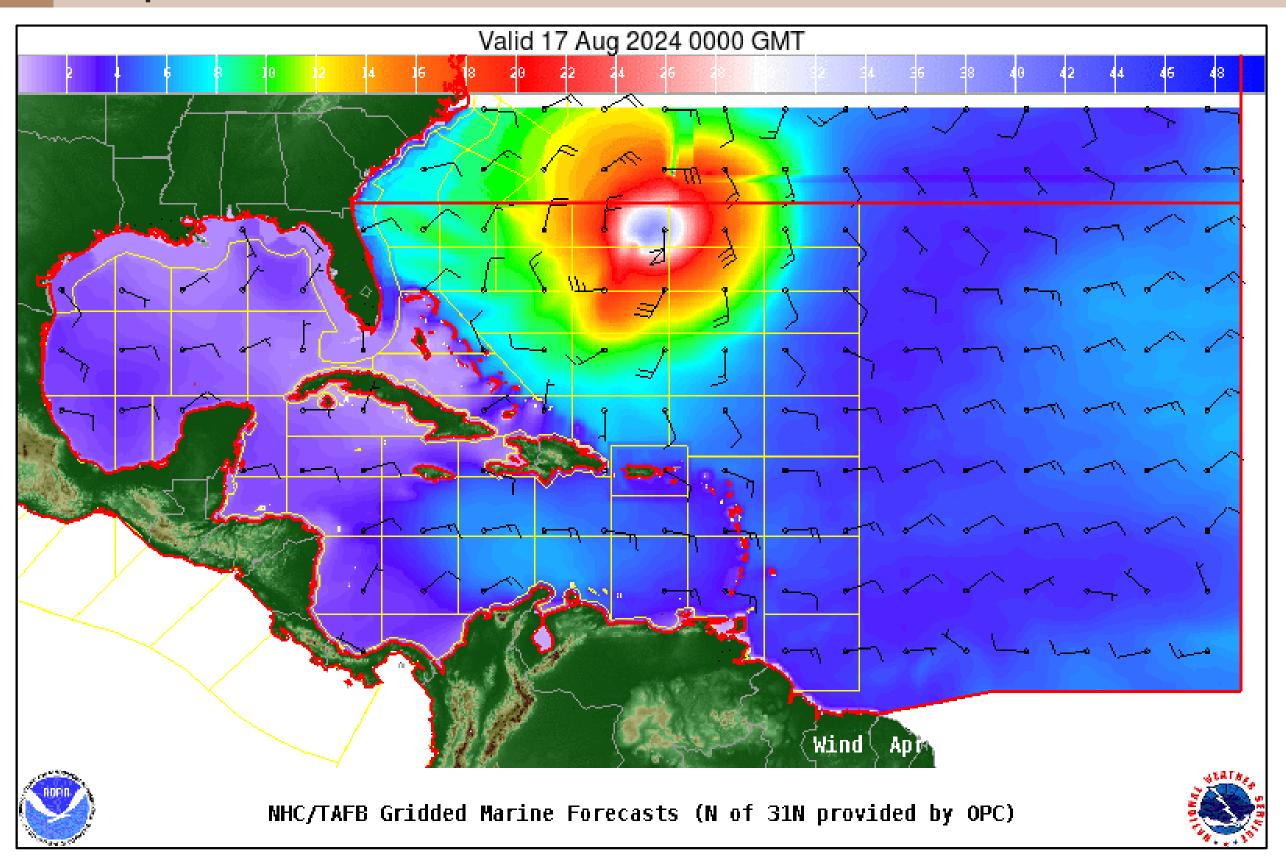
Wave heights are in feet



Significant Wave Height (ft)

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Ernesto



60 Hour Forecast

Friday, August 16th at 8pm EDT

Peak Winds: 100 kt

Peak Seas: 40 ft

Wave heights are in feet



Significant Wave Height (ft)

EATHER SERVICE

Tropical Storm Ernesto

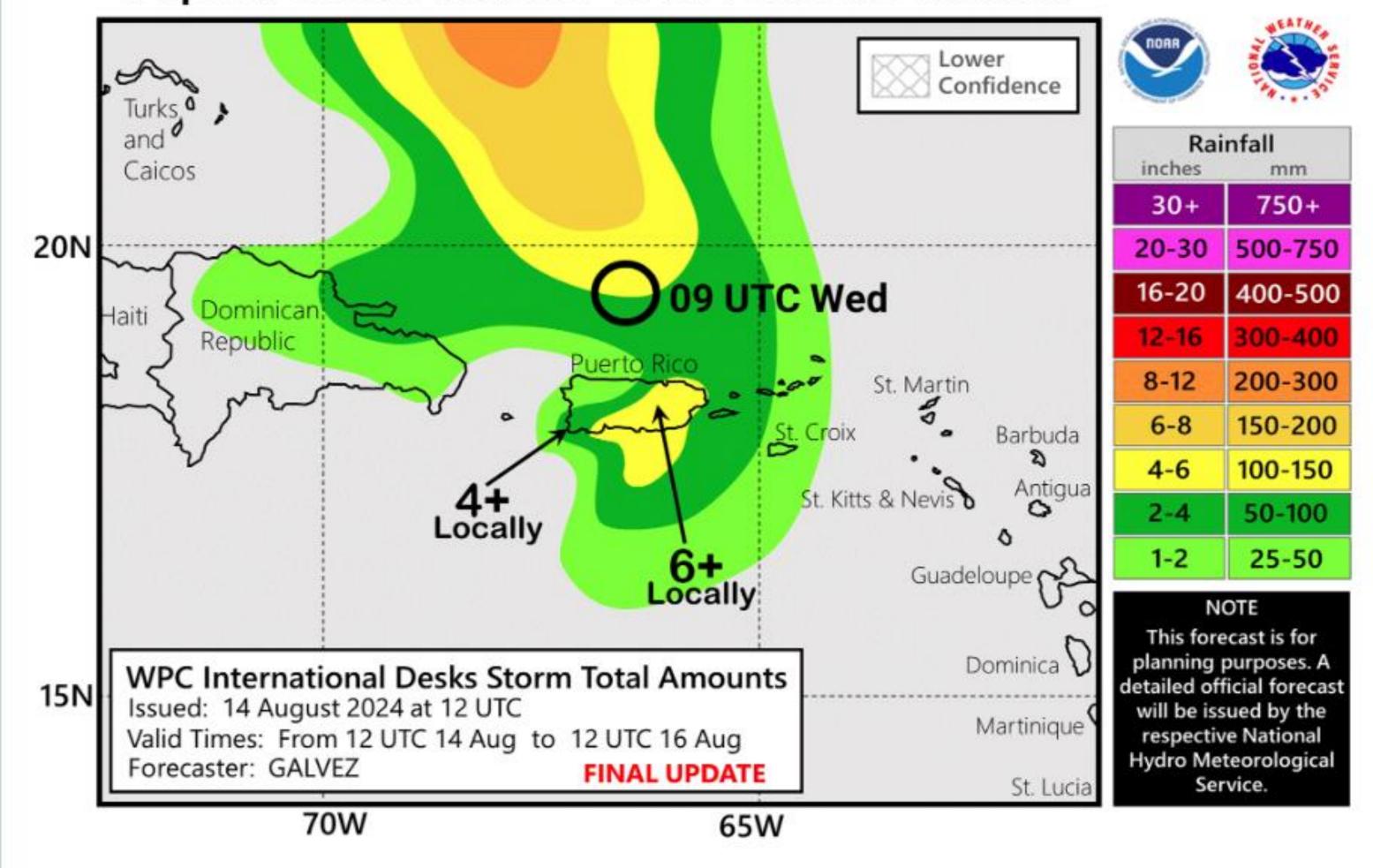
City	Most Likely	Latest Reasonable
St. Thomas	Wednesday morning	Wednesday morning
Vieques	Wednesday morning	Wednesday morning
San Juan	Wednesday morning	Wednesday morning

Tropical Storm Ernesto

Images from NWS Weather Prediction Center

Rainfall Forecast (from the Weather Prediction Center)

Tropical Storm Ernesto Total Forecast Rainfall



8/14/2024 8:10 AM

Tropical Storm Ernesto



Tropical Analysis and Forecast Branch NWS National Hurricane Center

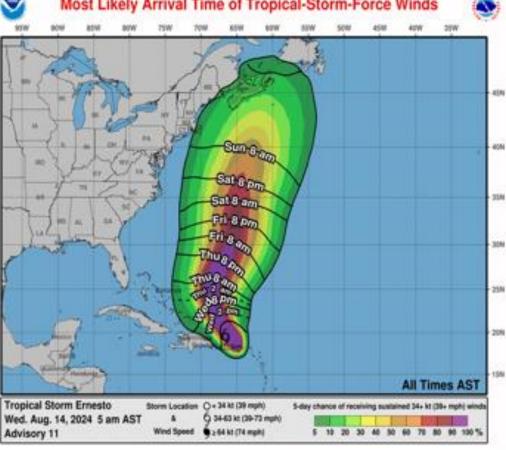


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You can contact the Tropical Analysis and Forecast Branch at 305-229-4424



This briefing was prepared by:

Jeff Lewitsky

E-mail: Jeffrey.Lewitsky@noaa.gov

Phone: 305-229-4484

TROPICAL STORM ERNESTO BRIEFING

TIME of NEXT NHC Advisory:

15 UTC: II AM EDT

The Next Briefing Will Be: Wednesday, 6:00 PM EDT

You can always find get the latest graphics and information for this storm at www.hurricanes.gov

