

IMPACTS FOR D7 (through next 5 days)

Winds – Medium

Storm Surge – Low

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - High

TROPICAL STORM ERNESTO BRIEFING

8:30 AM EDT

Tuesday, August 13, 2024

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Changes since Last Briefing

Tropical Storm Ernesto



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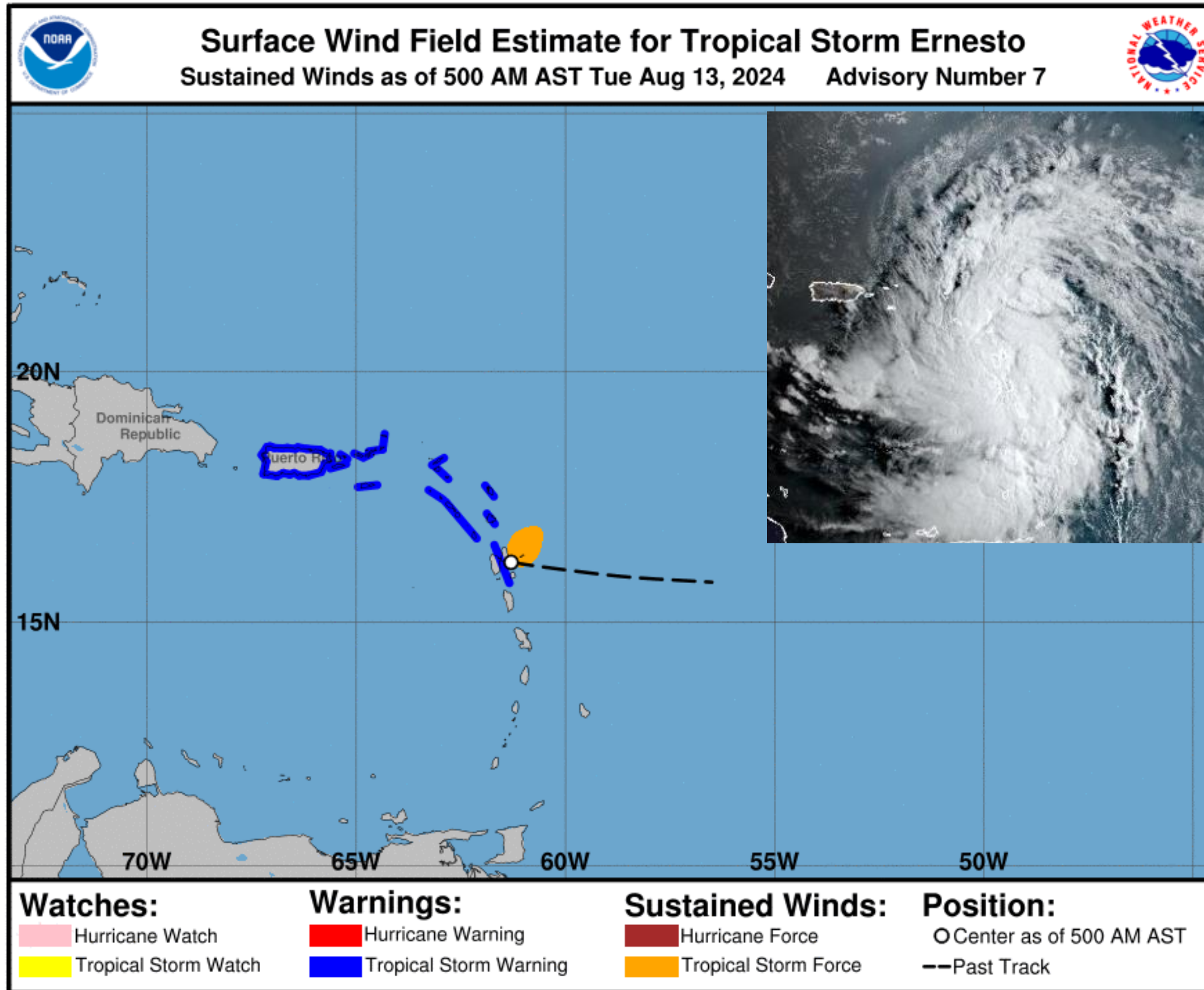
- Ernesto has slightly strengthened and is slowing down
- All hazards remain the same

Situation Overview

Tropical Storm Ernesto



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**...ERNESTO STRENGTHENS A LITTLE WHILE
PASSING ACROSS THE LESSER ANTILLES...**

Summary of 800 AM EDT Information

Location... 16.6N 61.9W

About 30 nm NW of Guadeloupe

About 260 nm ESE of San Juan Puerto Rico

Maximum Sustained Winds... 40 kt

Present Movement... W at 15 kt

Peak Seas... 15 ft

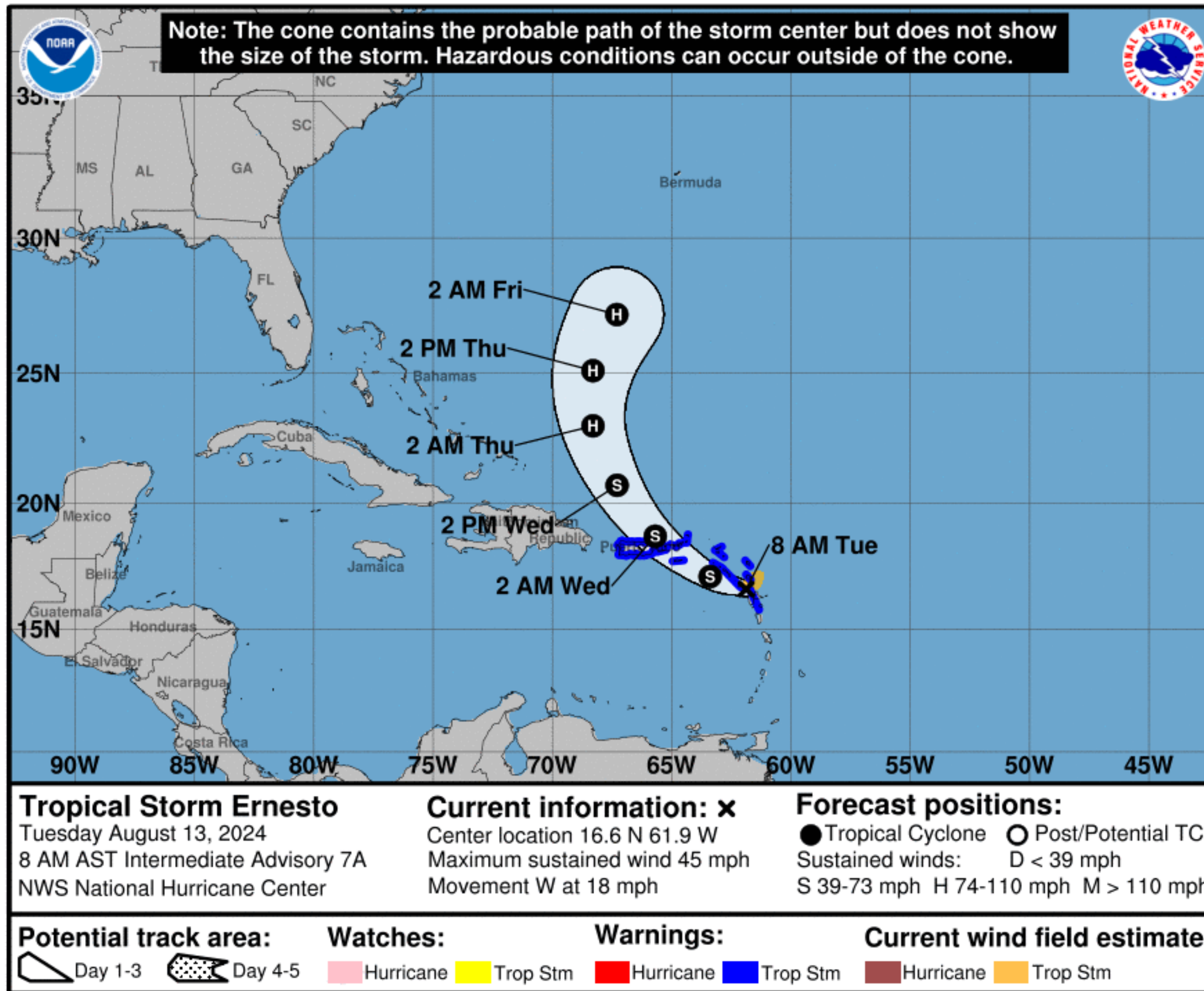
12 ft Seas... 210NE 0SE 0SW 150NW.

Forecast Information

Tropical Storm Ernesto



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- Ernesto is expected to take a WNW turn with decrease in speed within the next 12 hours
- USVI/PR can expect Ernesto to go near or over the area tonight into early Wednesday morning
- Some intensification is expected but Ernesto will likely impact USVI/PR as a tropical storm
- 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 swath of potential track error added to each side of the forecast track days 4-5

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

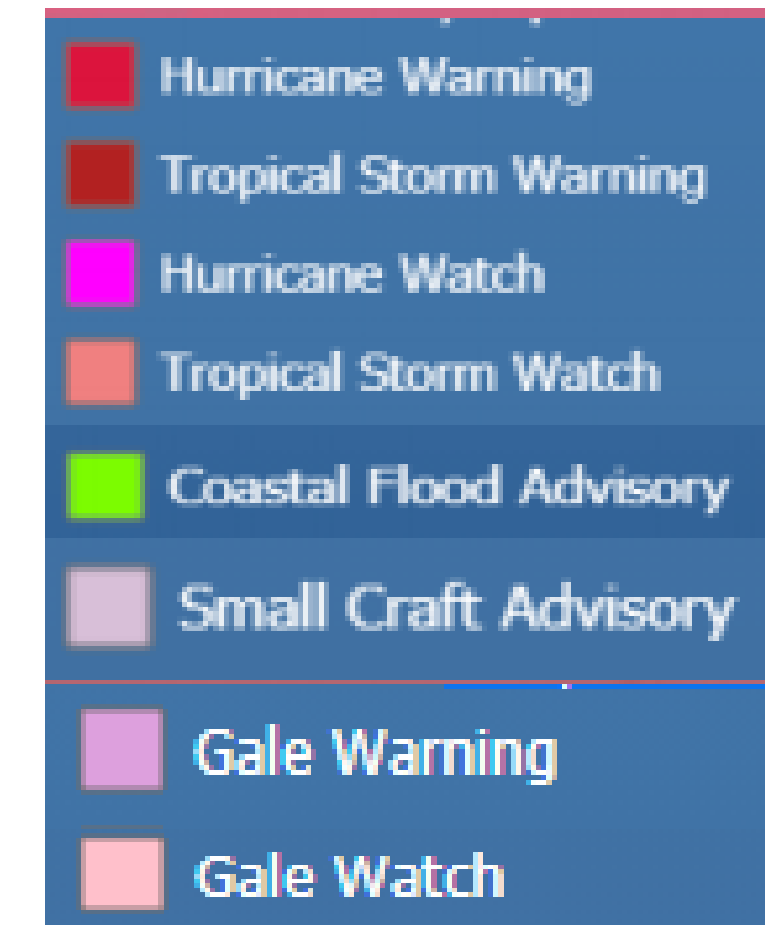
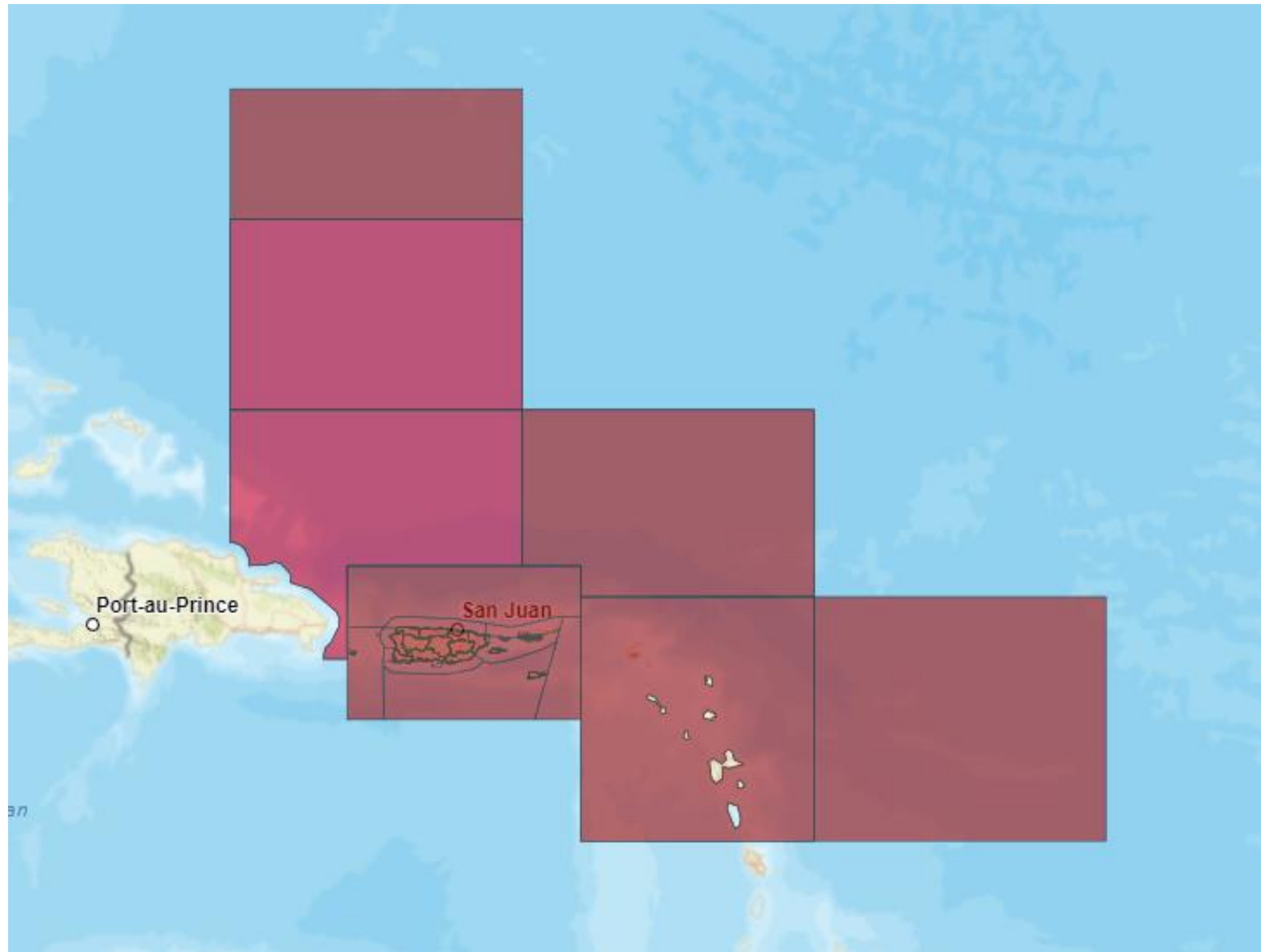
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Ernesto



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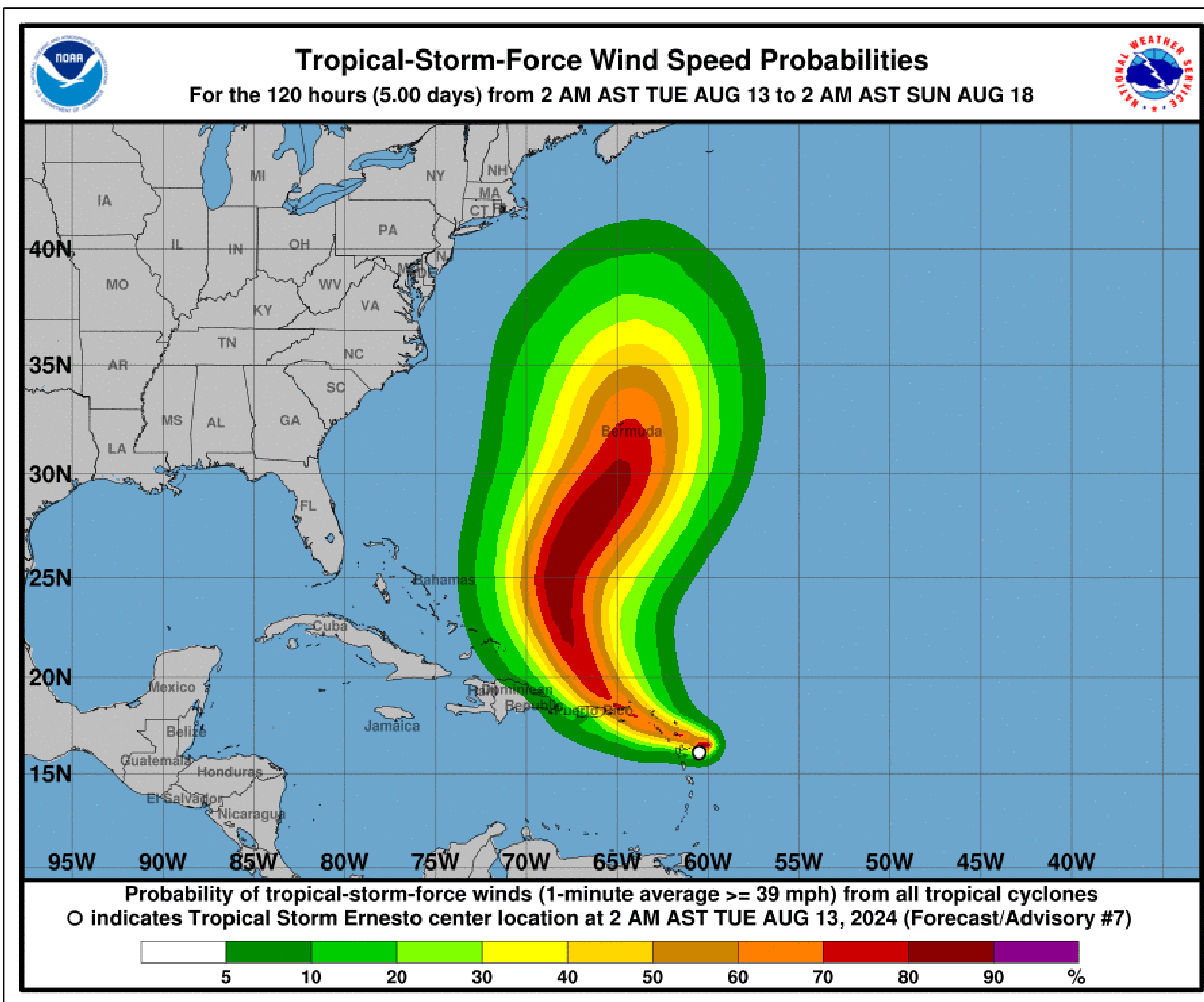


T.S. Wind Speed Probabilities

Tropical Storm Ernesto



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- Ponce 25%
- **Aguadilla 30%**
- San Juan 25%
- Vieques 60%
- **Saint Thomas 75%**
- **Saint Croix 55%**

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

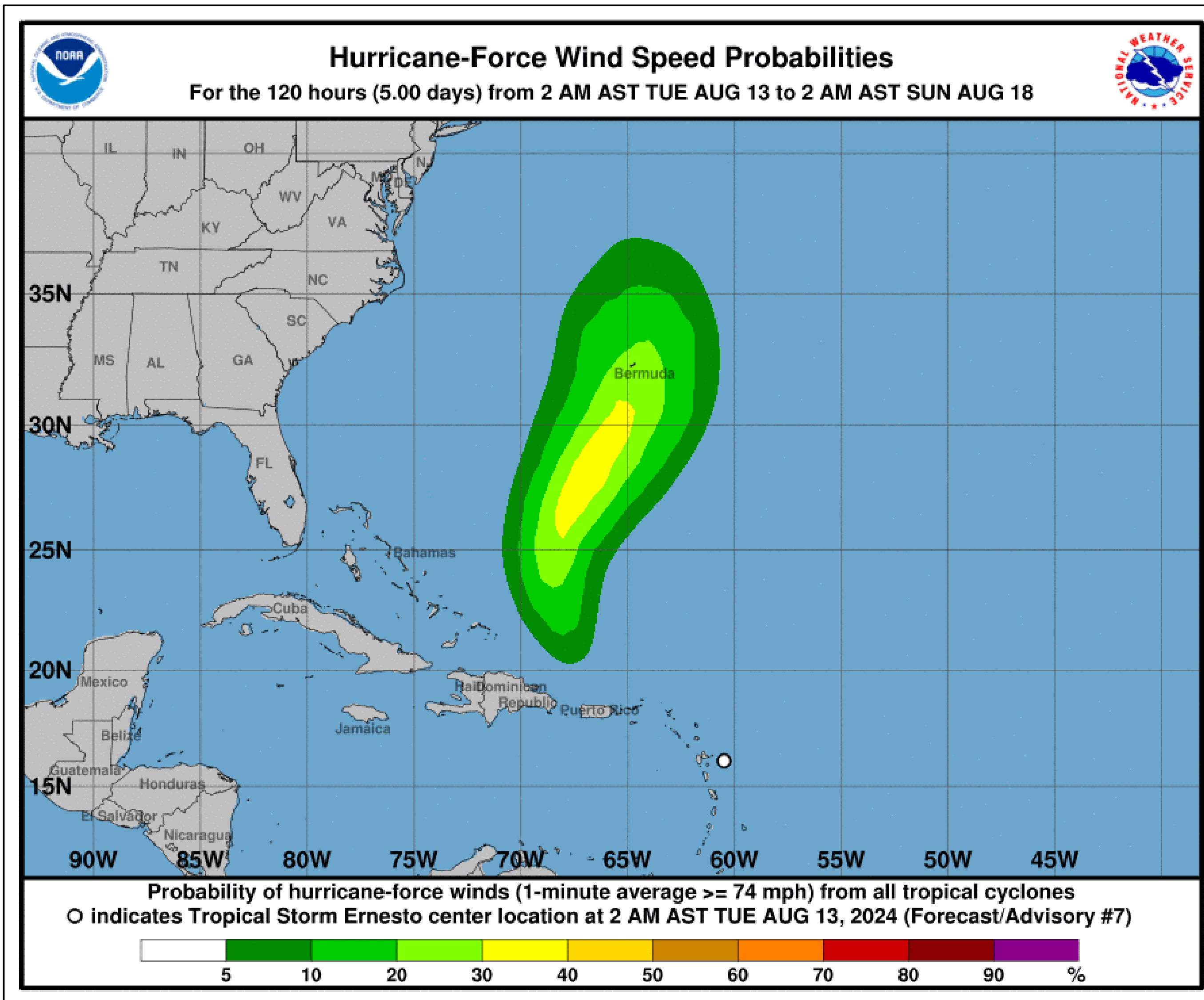
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities



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Tropical Storm Ernesto



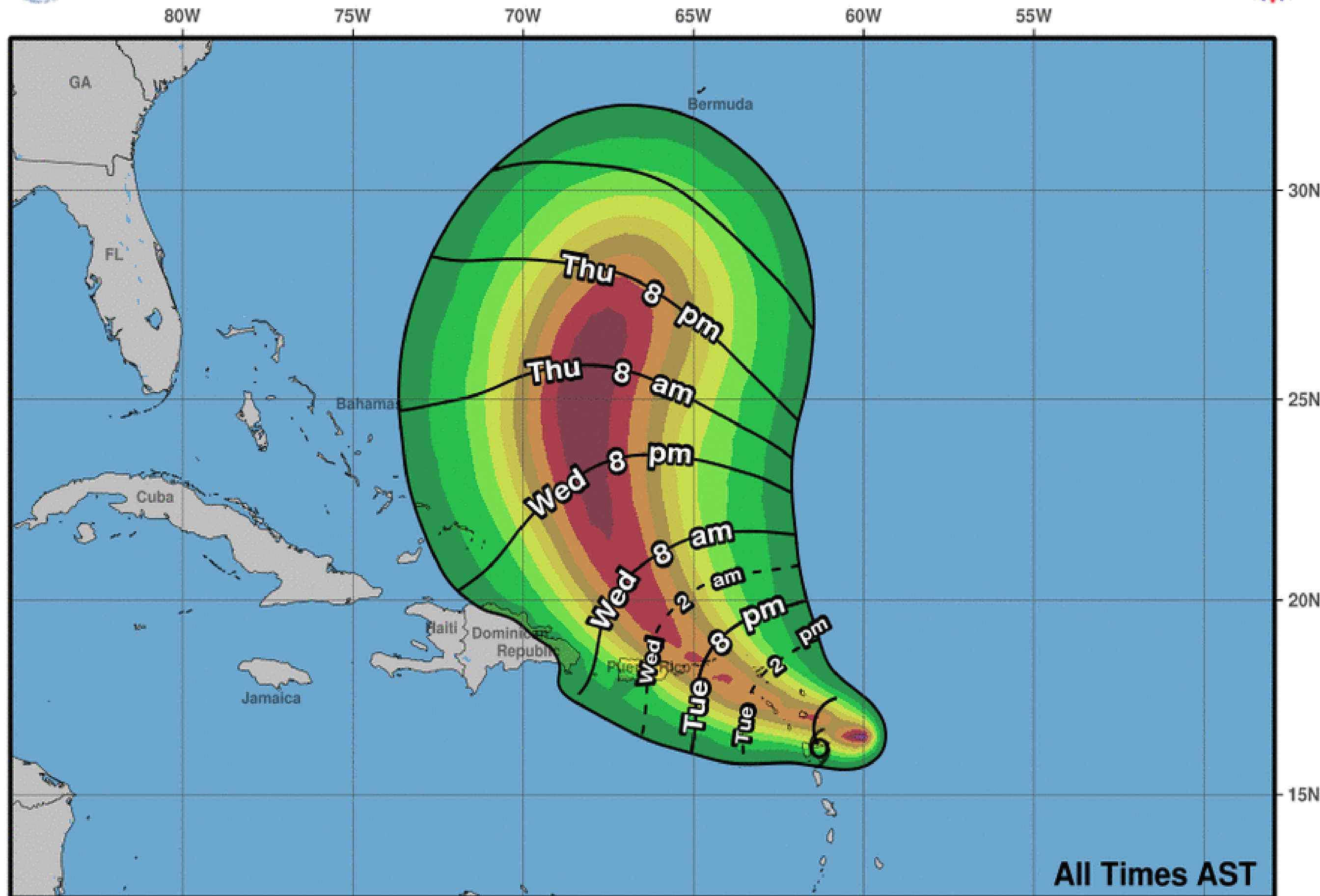
- **None**
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
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Tropical Storm Ernesto



0-3 Day Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Storm Ernesto
Tue. Aug. 13, 2024 5 am AST
Advisory 7

Storm Location & Wind Speed

- < 34 kt (39 mph)
- 34-63 kt (39-73 mph)
- ≥ 64 kt (74 mph)

3-day chance of receiving sustained 34+ kt (39+ mph) winds

5 10 20 30 40 50 60 70 80 90 100 %

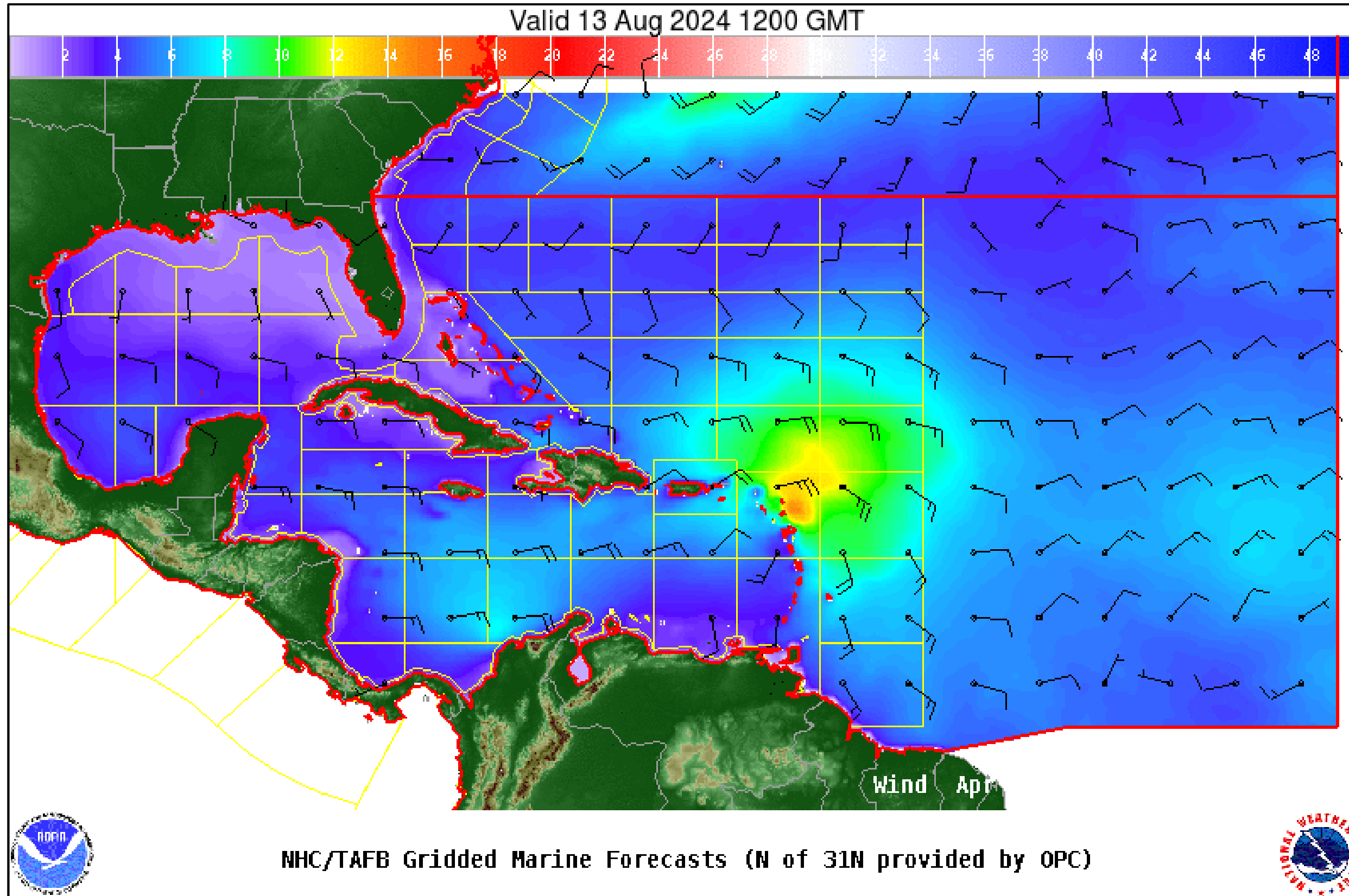
- **USVI – Tuesday evening**
- **Puerto Rico -Tuesday night**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
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- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Tropical Storm Ernesto



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Current Conditions

Tuesday, August 13th at 8am EDT

Peak Winds: 35 kt

Peak Seas: 15 ft

- Wave heights are in feet



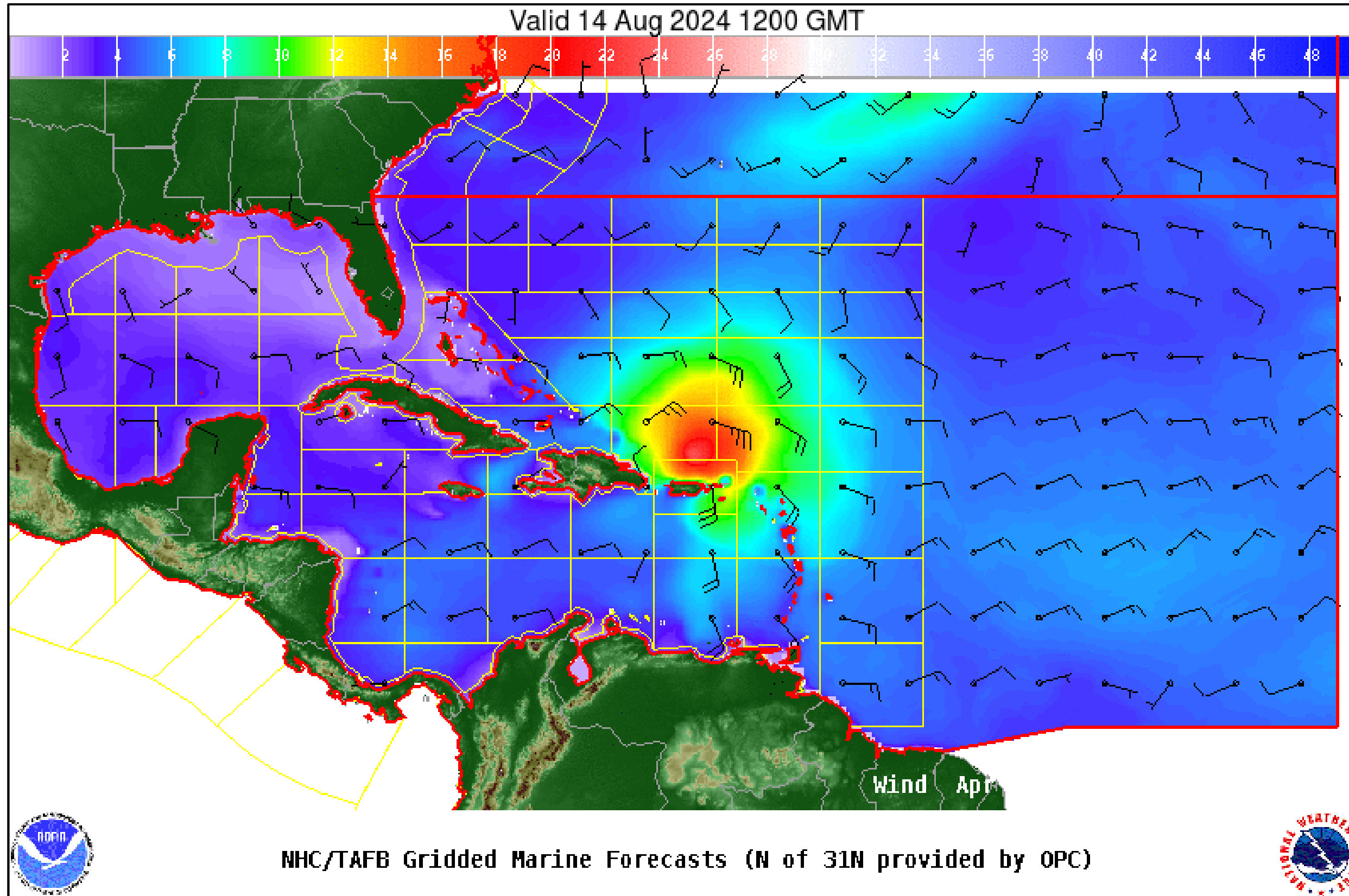
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ernesto



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24 Hour Forecast

Wednesday, August 14th at 8am EDT

Peak Winds: 55 kt

Peak Seas: 23 ft

- Wave heights are in feet



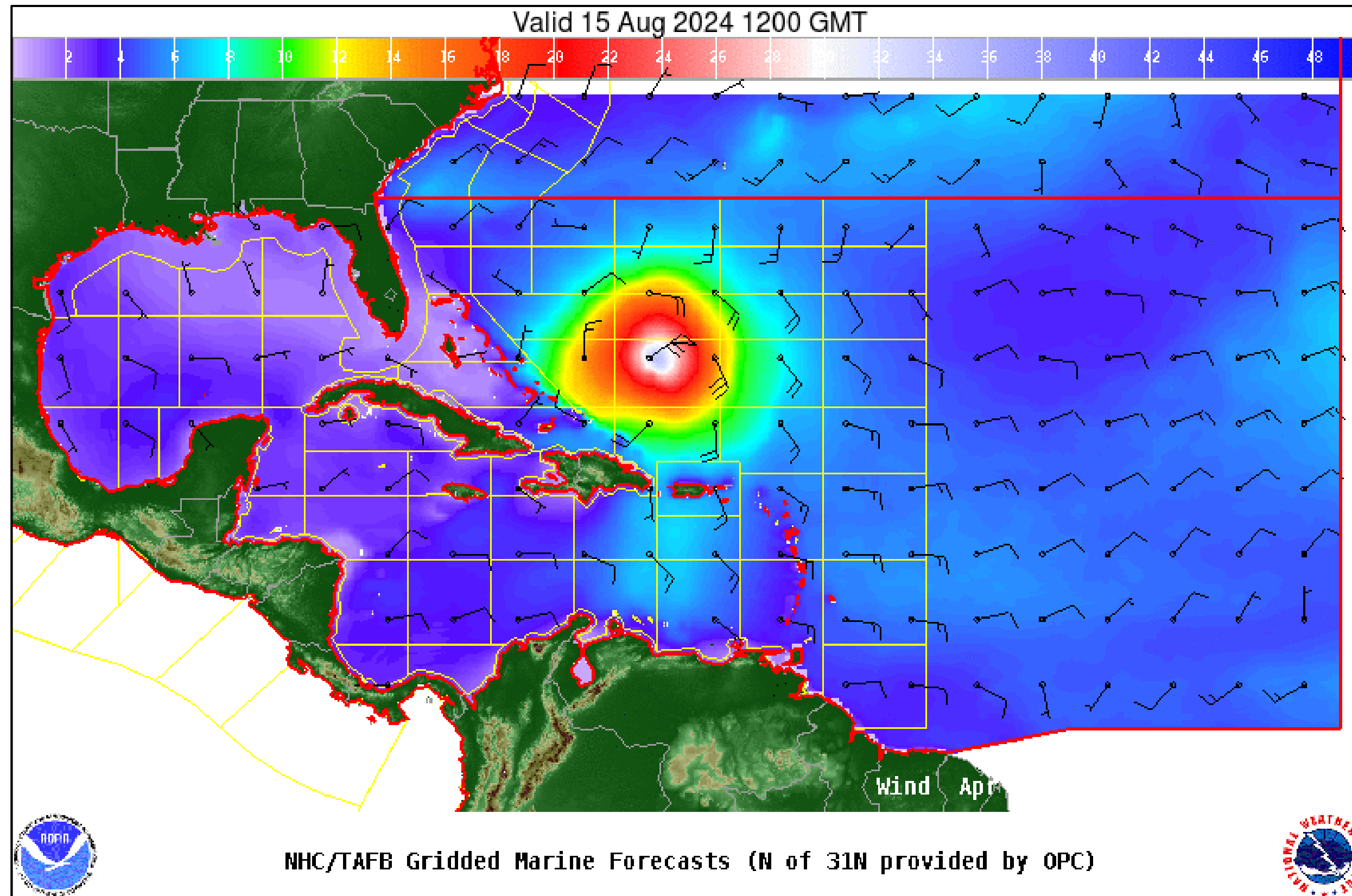
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ernesto



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72 Hour Forecast

Thursday, August 15th at 8am EDT

Peak Winds: 75 kt

Peak Seas: 34 ft (8-9 ft near USVI/PR)

- Wave heights are in feet



Significant Wave Height (ft)

Time of Departure

Tropical Storm Ernesto



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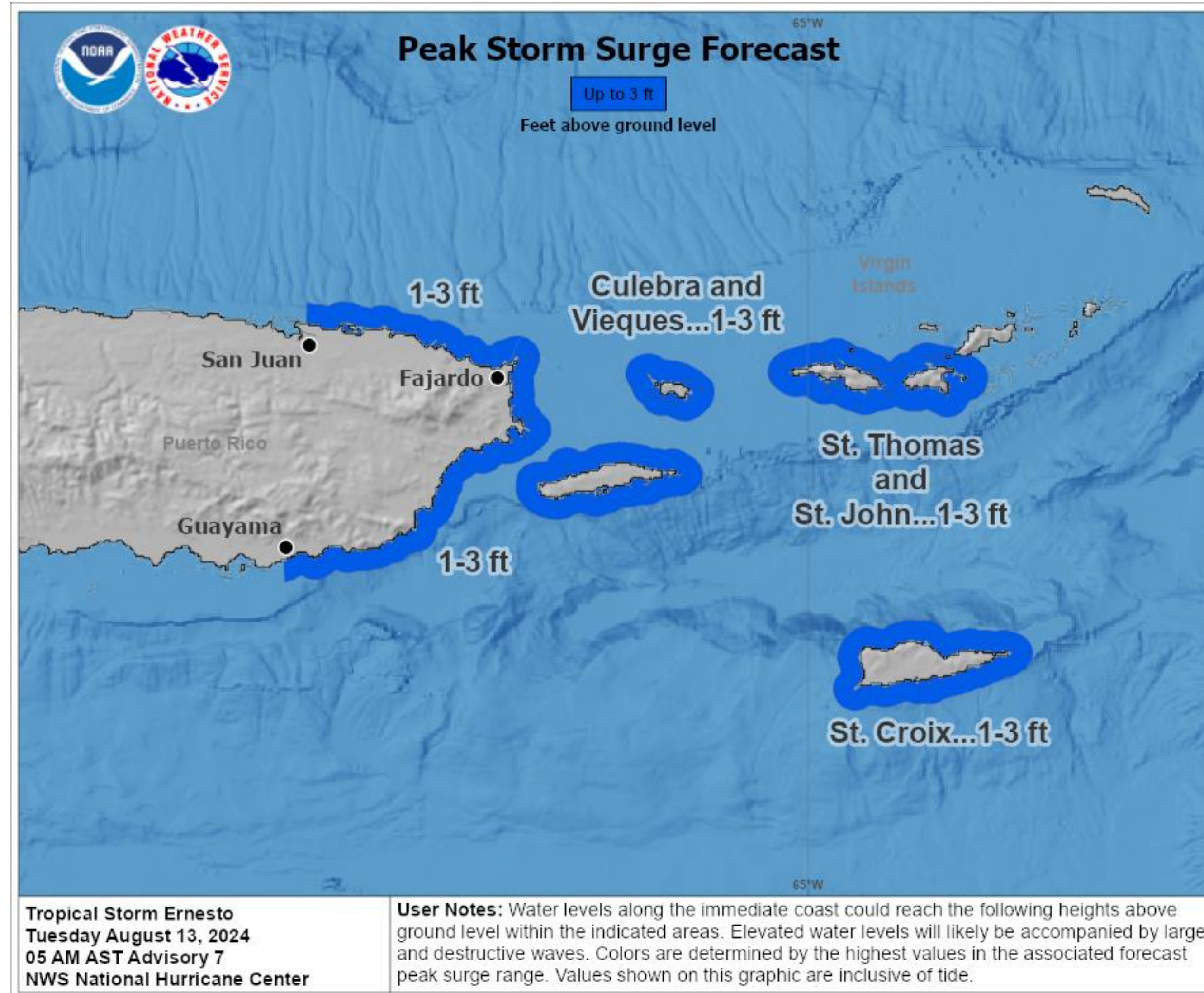
City	Most Likely	Latest Reasonable
St. Thomas	Tuesday night	Early Wednesday morning
Vieques	Tuesday night into early Wednesday morning	Wednesday morning
San Juan	Early Wednesday morning	Late Wednesday morning

Potential Peak Storm Surge / Watches and Warnings



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Tropical Storm Ernesto



Expected Storm Total Rainfall and Chance of Rainfall Flooding

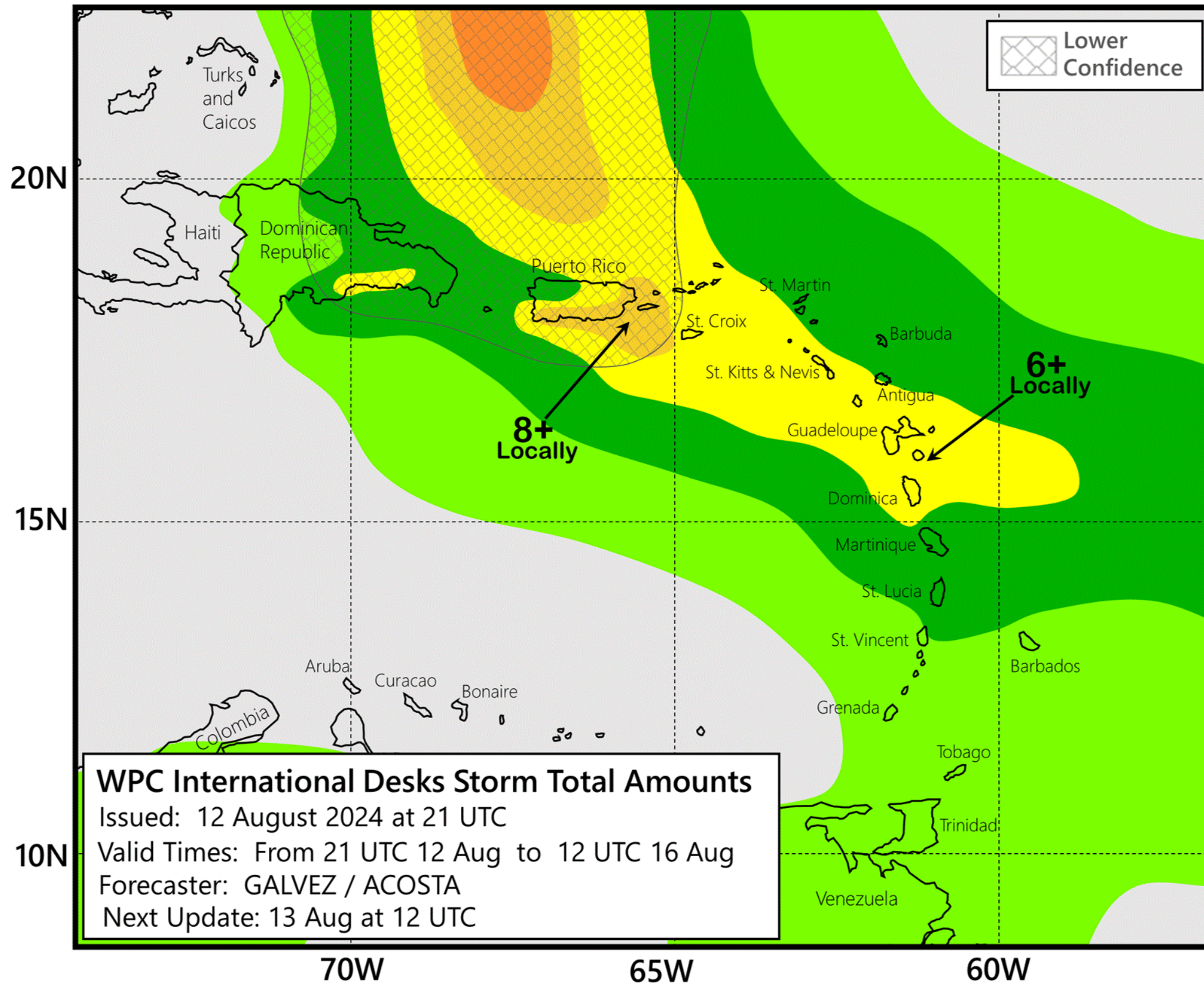


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Tropical Storm Ernesto

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.

WPC International Desks Storm Total Amounts
 Issued: 12 August 2024 at 21 UTC
 Valid Times: From 21 UTC 12 Aug to 12 UTC 16 Aug
 Forecaster: GALVEZ / ACOSTA
 Next Update: 13 Aug at 12 UTC


- Virgin Islands: 4 to 6 inches
- Puerto Rico: 3 to 6 inches, maximum amounts of 10 inches

Key Messages

Tropical Storm Ernesto

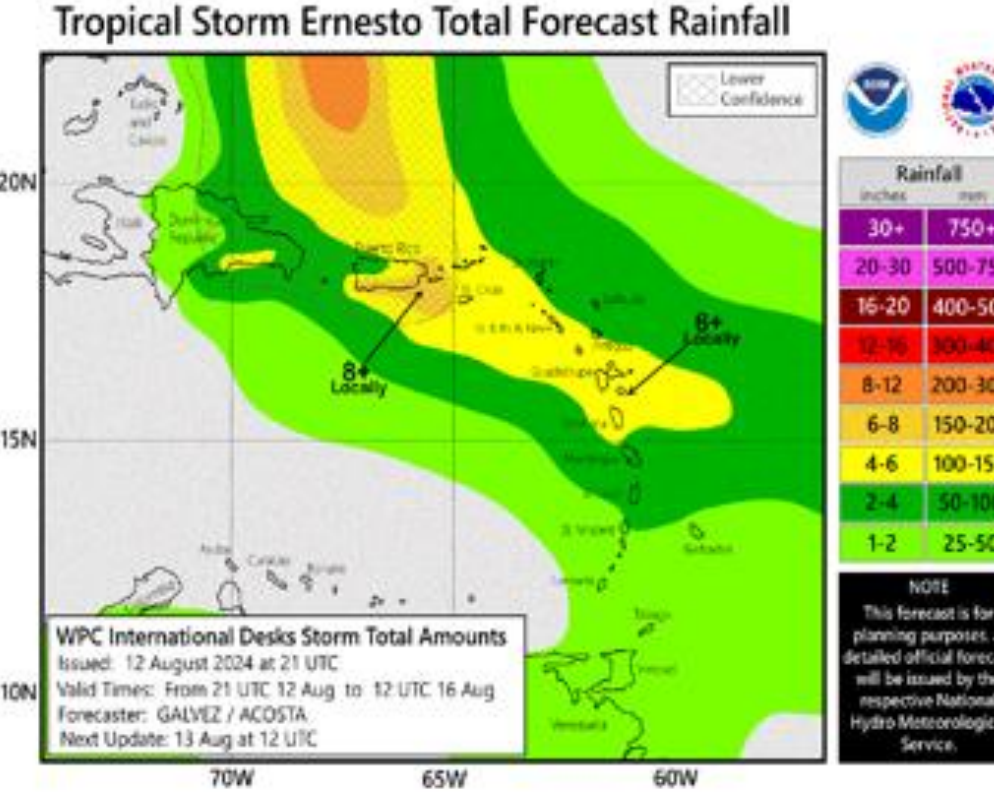



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Key Messages for Tropical Storm Ernesto

Advisory 7: 5:00 AM AST Tue Aug 13, 2024



1. Ernesto is expected to bring tropical storm conditions to portions of the Leeward Islands today and to the Virgin Islands and Puerto Rico by late today or tonight. Tropical Storm Warnings are in effect for this entire area.

2. Heavy rainfall may result in locally considerable flash flooding and mudslides in areas of the Leeward Islands through today, and over the Virgin Islands into Puerto Rico by later today through Wednesday.

3. It is too soon to know what impacts Ernesto could bring to Bermuda late this week, and interests there should monitor the progress of this system.

For more information go to hurricanes.gov

Marine Key Messages:

- Seas will begin to increase across the USVI and PR today, peaking to around 20 ft tonight into Wednesday morning
- Conditions will begin to improve Thursday morning, with seas dropping below 8 ft by Thursday afternoon

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



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TROPICAL STORM ERNESTO BRIEFING

TIME of NEXT NHC Advisory:
15 UTC: 11 AM EDT

The Next Briefing Will Be:
Wednesday, 8:30 AM EDT

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



NHC_TAFB

www.nhc.noaa.gov