

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

Winds – **Low**

Storm Surge – **Low**

Rainfall/Flash Flooding – **Medium**

Tornadoes – **Low**

Waves - **High**

POTENTIAL TROPICAL CYCLONE FIVE BRIEFING

8:30 AM EDT

Monday, August 12, 2024

Prepared by:

Amanda Reinhart

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

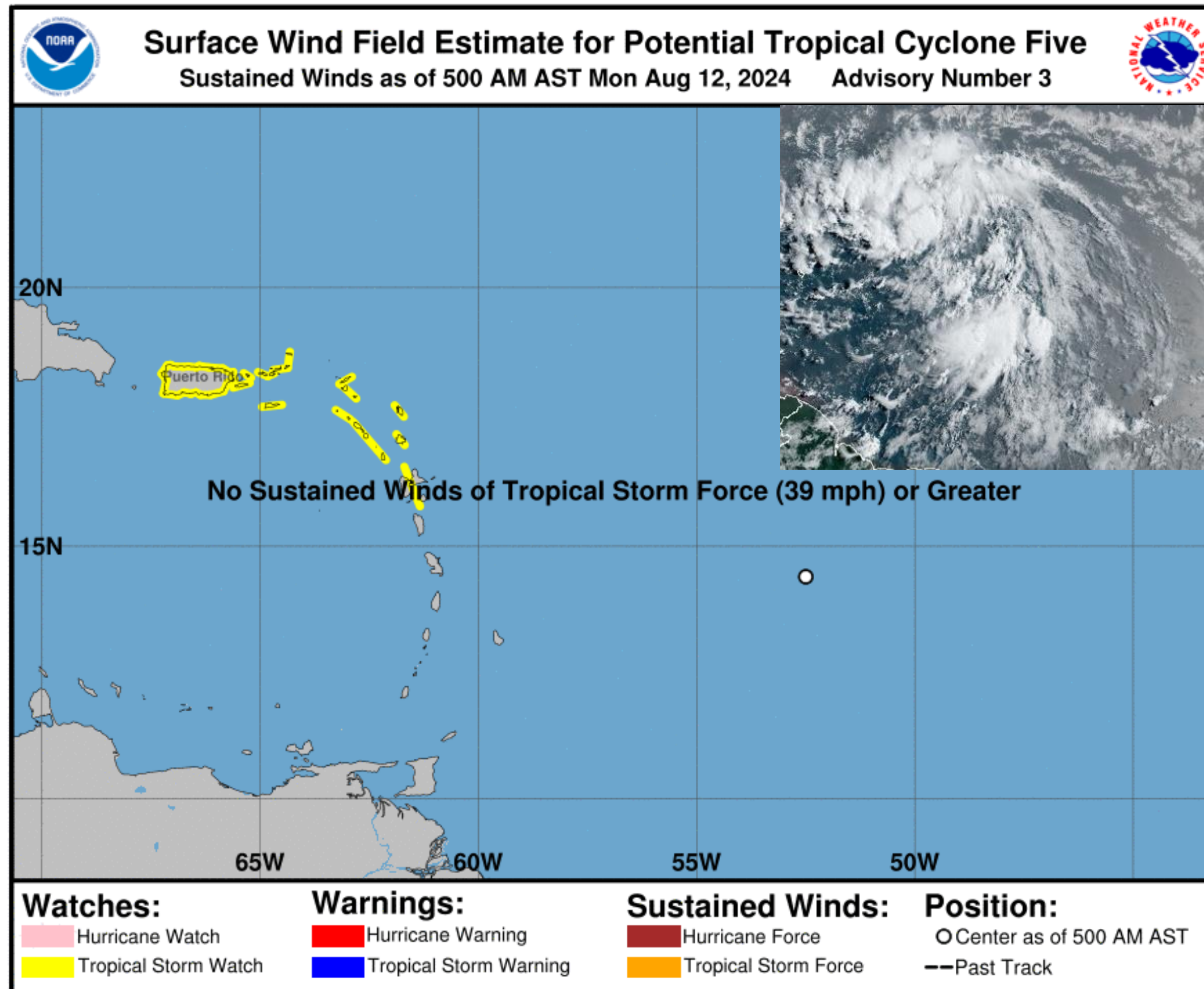
www.nhc.noaa.gov

Situation Overview

Potential Tropical Cyclone Five



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...DISTURBANCE MOVING RAPIDLY WESTWARD...

...TROPICAL STORM WATCH ISSUED FOR PUERTO RICO AND NEARBY ISLANDS...

Summary of 500 AM EDT Information

Location... 14.4N 52.5W

About 560 nm ESE of Antigua

About 815 nm ESE of San Juan Puerto Rico

Maximum Sustained Winds... 25 kt

Present Movement... W at 22 kt

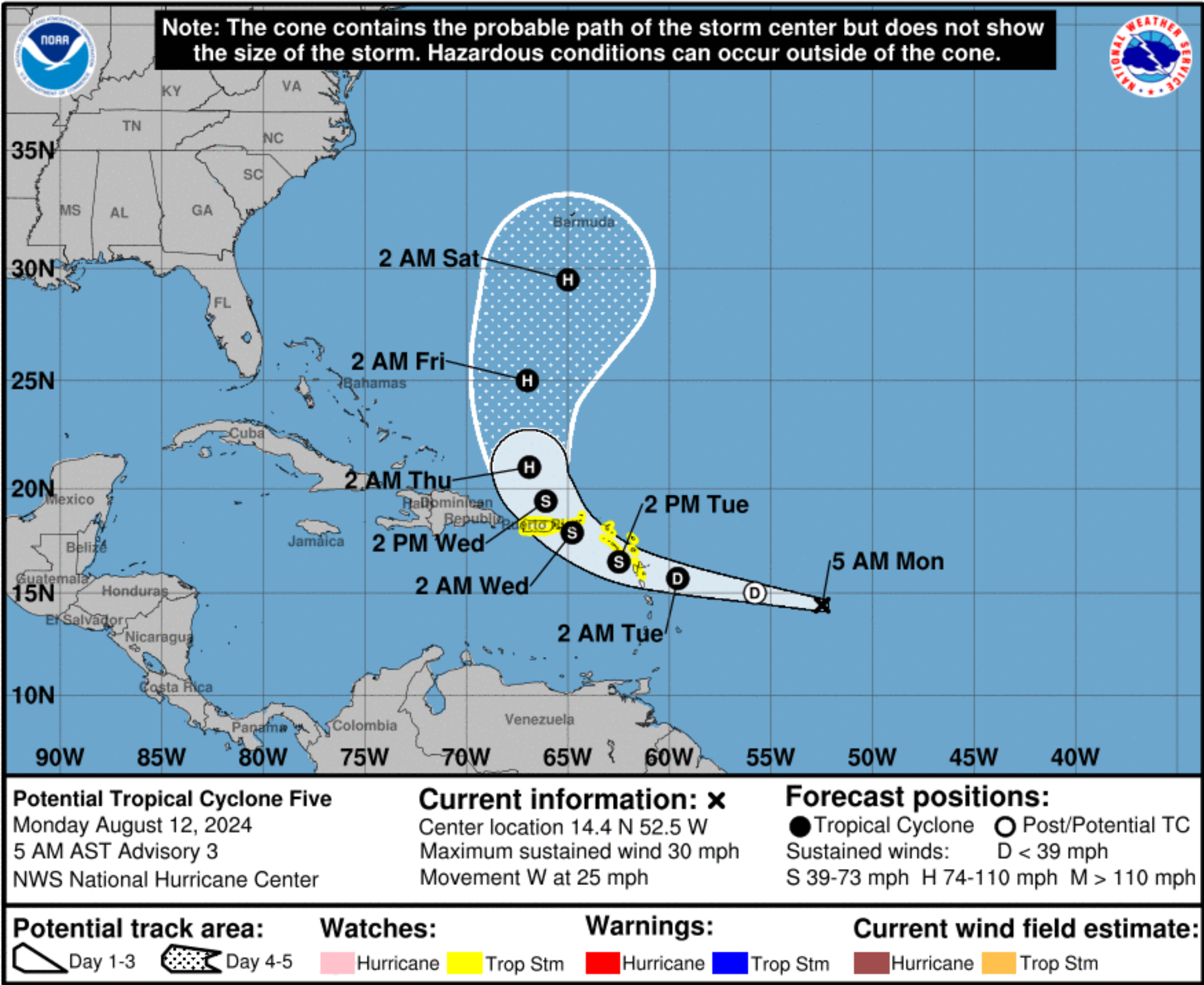
Peak Seas... 12 ft within 150 nm NE quadrant

Forecast Information

Potential Tropical Cyclone Five



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

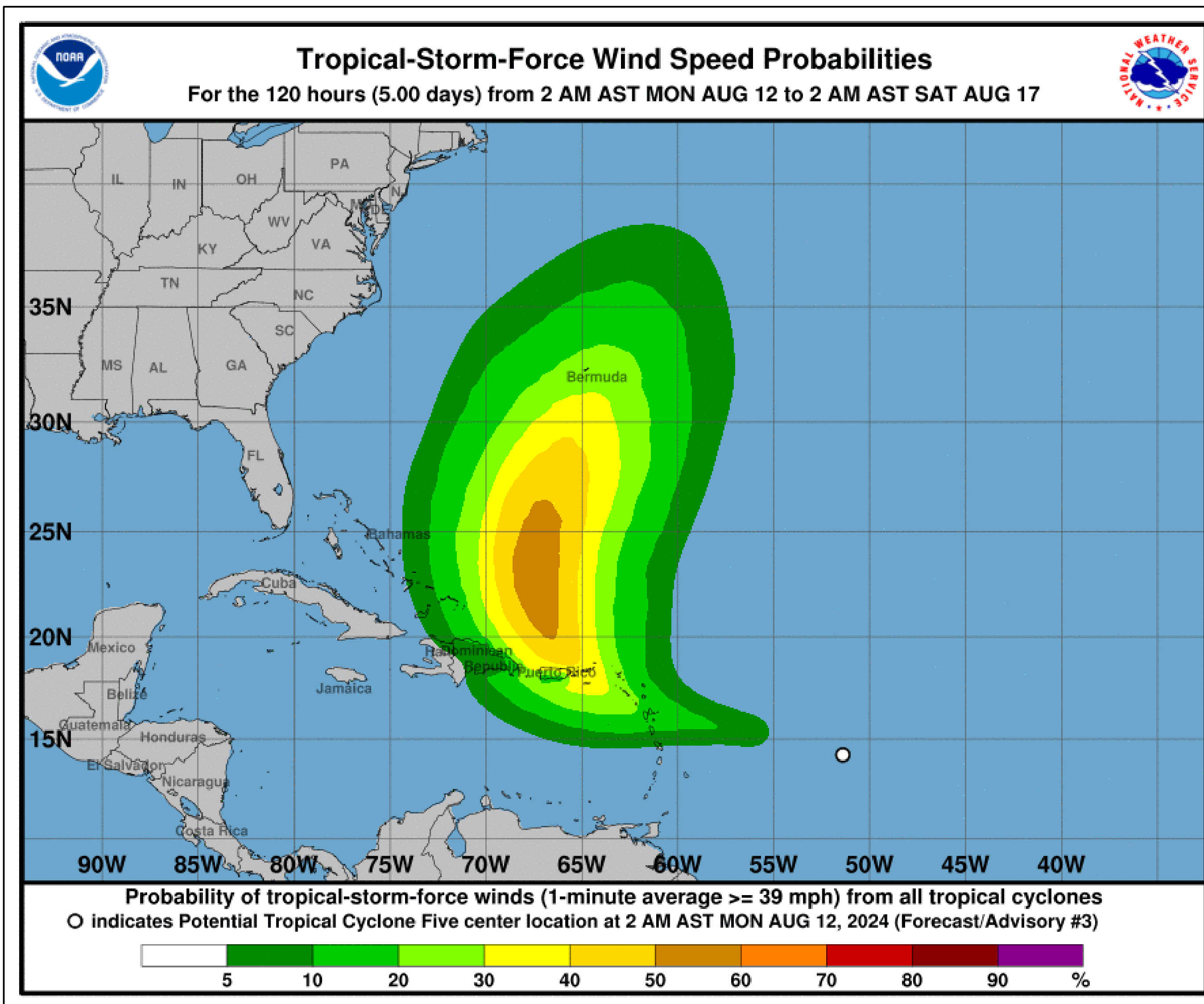
- PTC 5 is expected to continue moving westward over the next 24 to 36 hours with slightly decreased forward speed
 - Still uncertainty when/if the system will turn northwestward and northward and how it will impact Leeward Islands, USVI and Puerto Rico
 - System still expected to track over the Leeward Islands as a tropical storm and potentially impact USVI/PR
- 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
- ** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

T.S. Wind Speed Probabilities

Potential Tropical Cyclone Five



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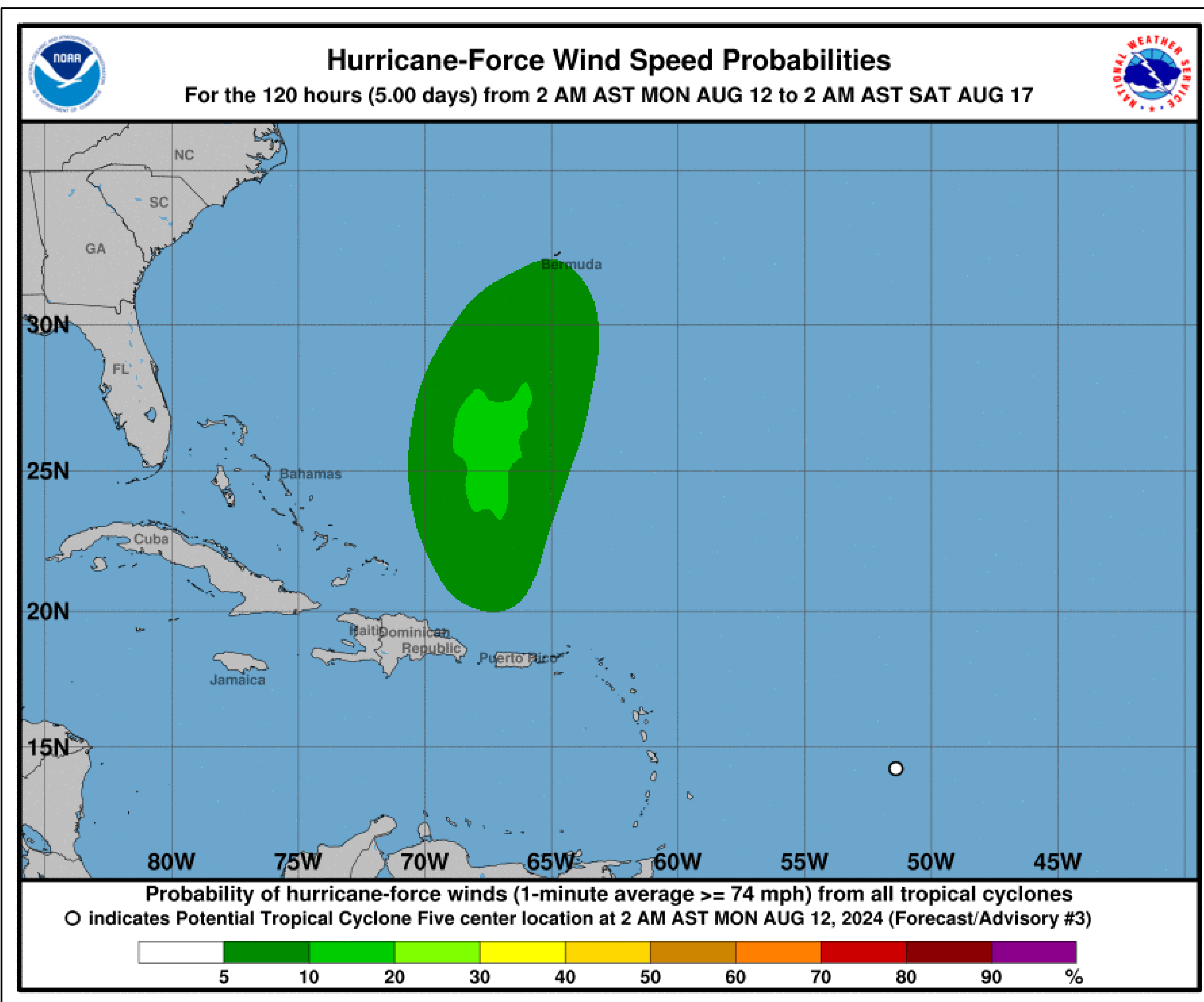
- Ponce 30%
 - Aguadilla 30%
 - San Juan 20%
 - Vieques 20%
 - Saint Thomas 45%
 - Saint Croix 40%
-
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
 - Clear or dark green are the lowest chances of 0-30%.
 - 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

Potential Tropical Cyclone Five



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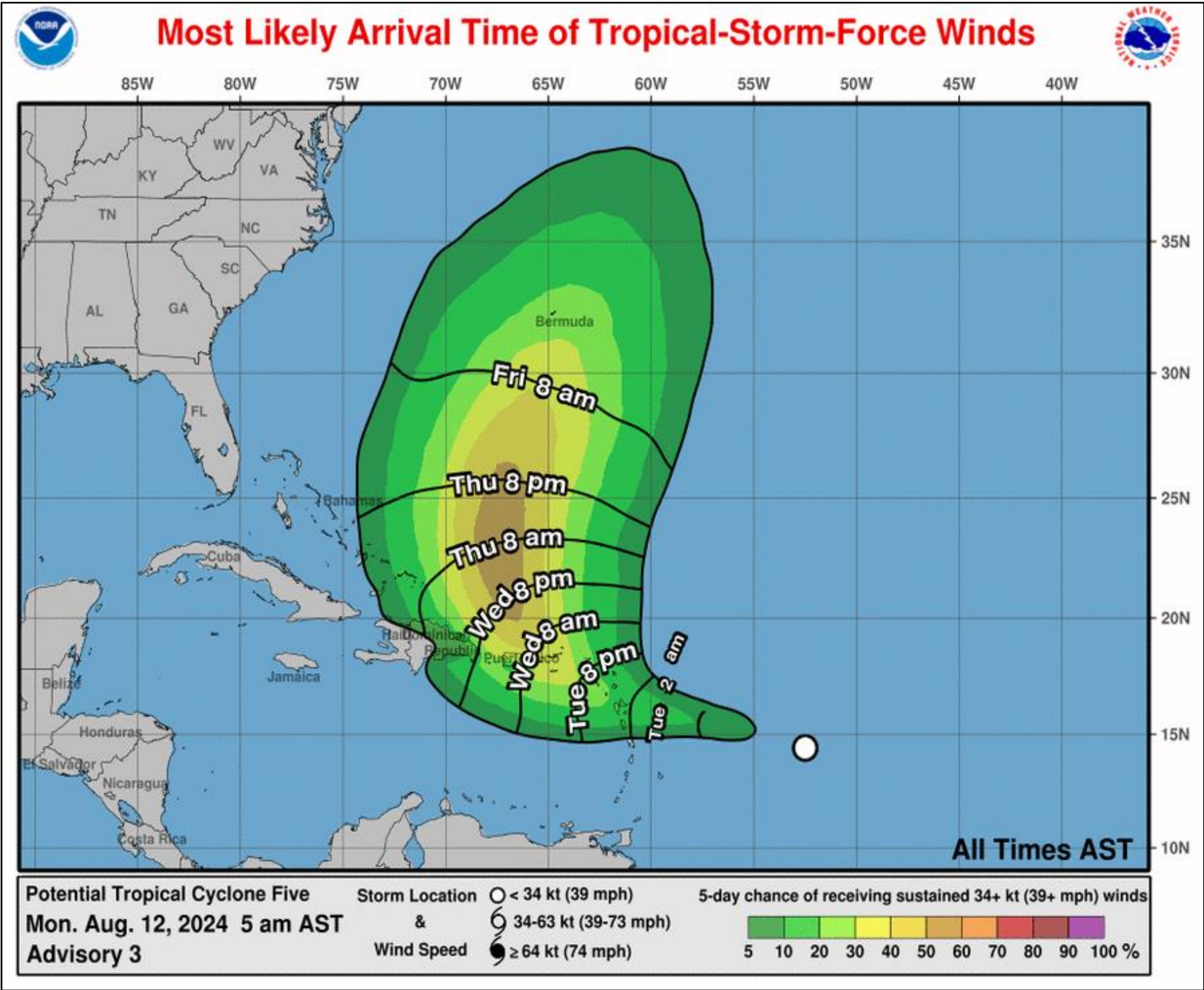
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities



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Potential Tropical Cyclone Five



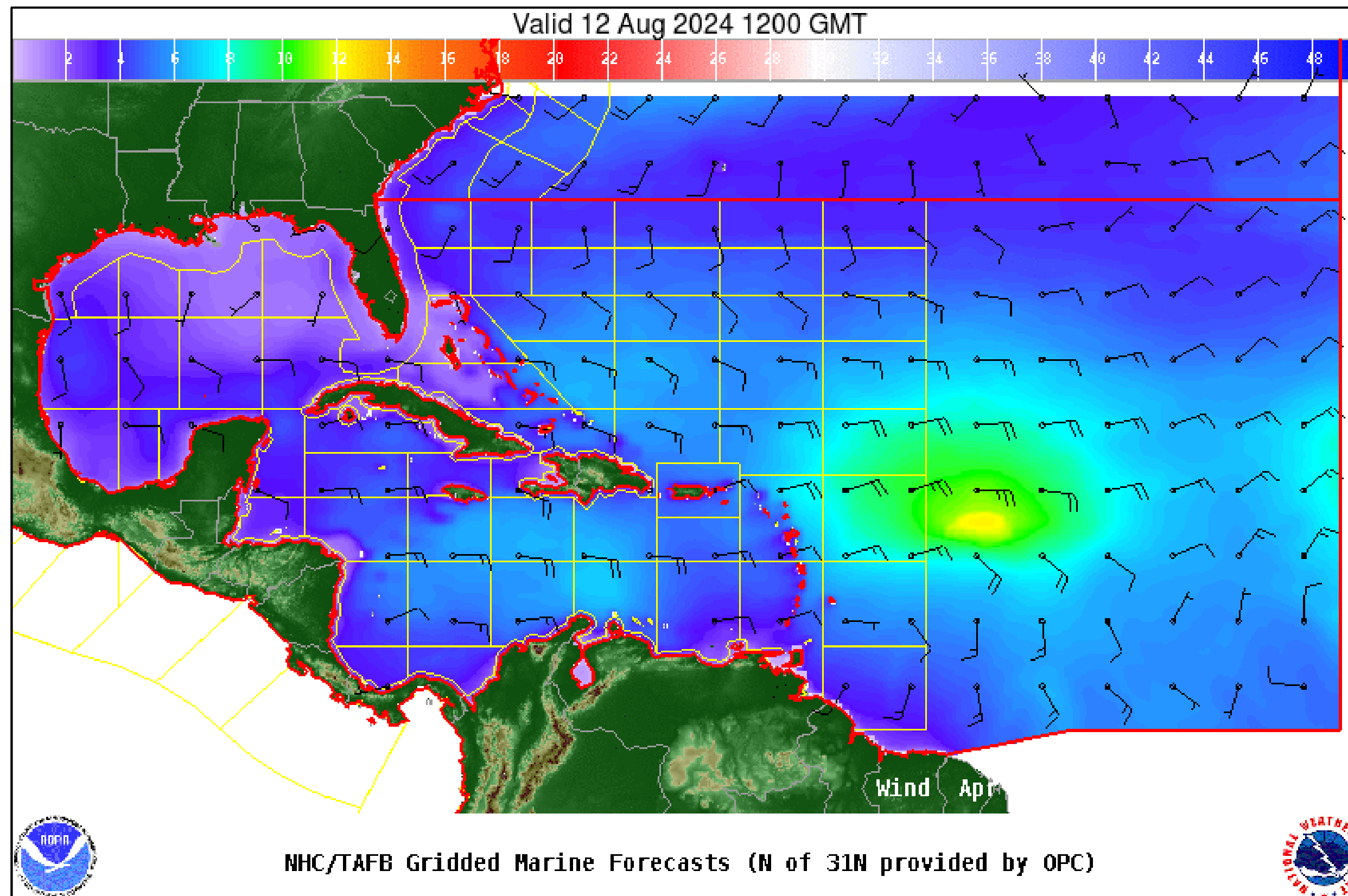
- USVI – early Wednesday morning
- Puerto Rico - Wednesday morning
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Potential Tropical Cyclone Five



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Current Conditions

Monday, August 12th at 8am EDT

Peak Winds: 25 kt

Peak Seas: 12 ft

- Wave heights are in feet



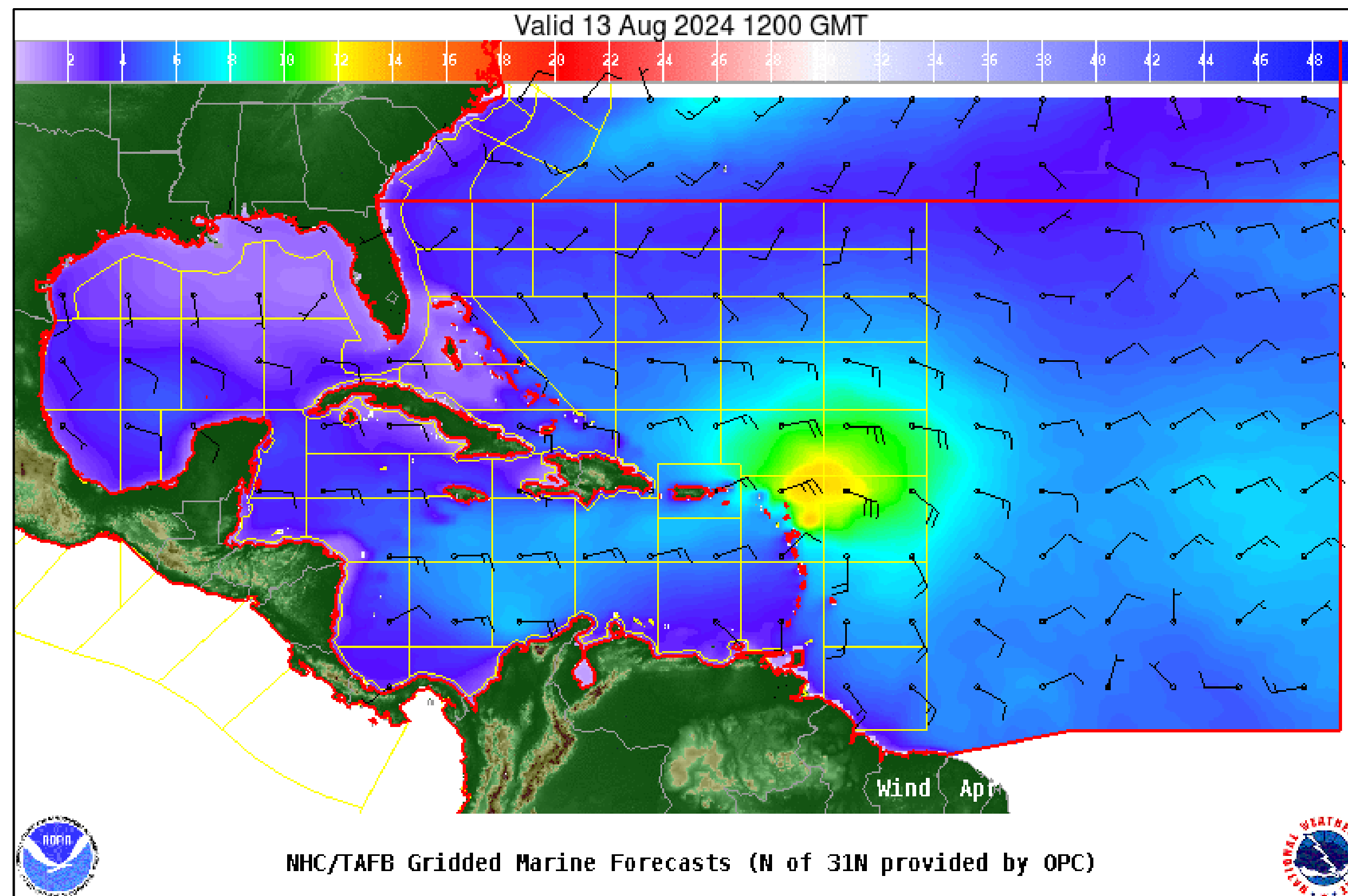
Significant Wave Height (ft)

Wind And Waves

Potential Tropical Cyclone Five



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24 Hour Forecast

Tuesday, August 13th at 8am EDT

Peak Winds: 30 kt

Peak Seas: 14 ft

- Wave heights are in feet



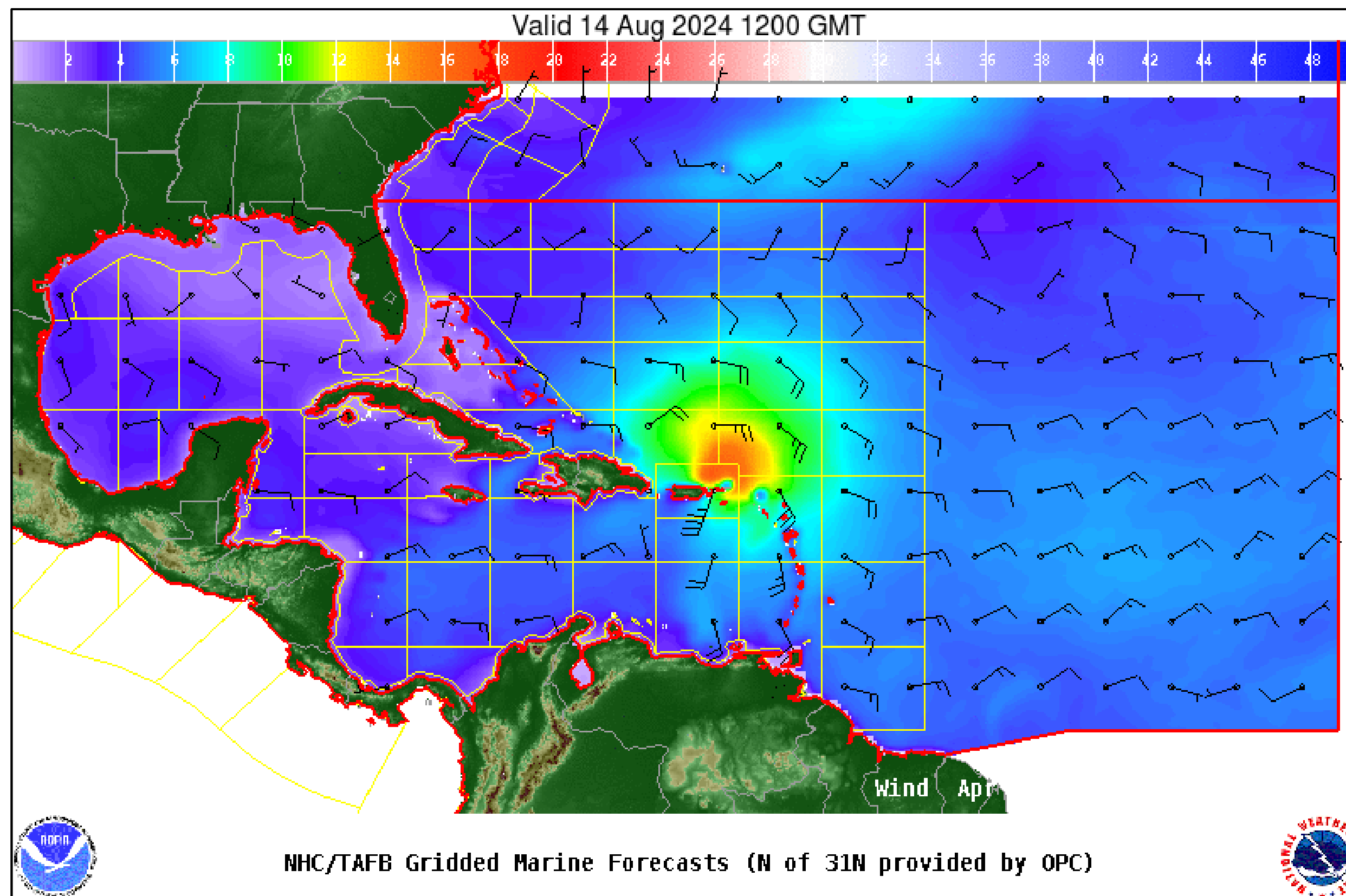
Significant Wave Height (ft)

Wind And Waves

Potential Tropical Cyclone Five



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48 Hour Forecast

Wednesday, August 14th at 8am EDT

Peak Winds: 45 kt

Peak Seas: 19 ft

- Wave heights are in feet



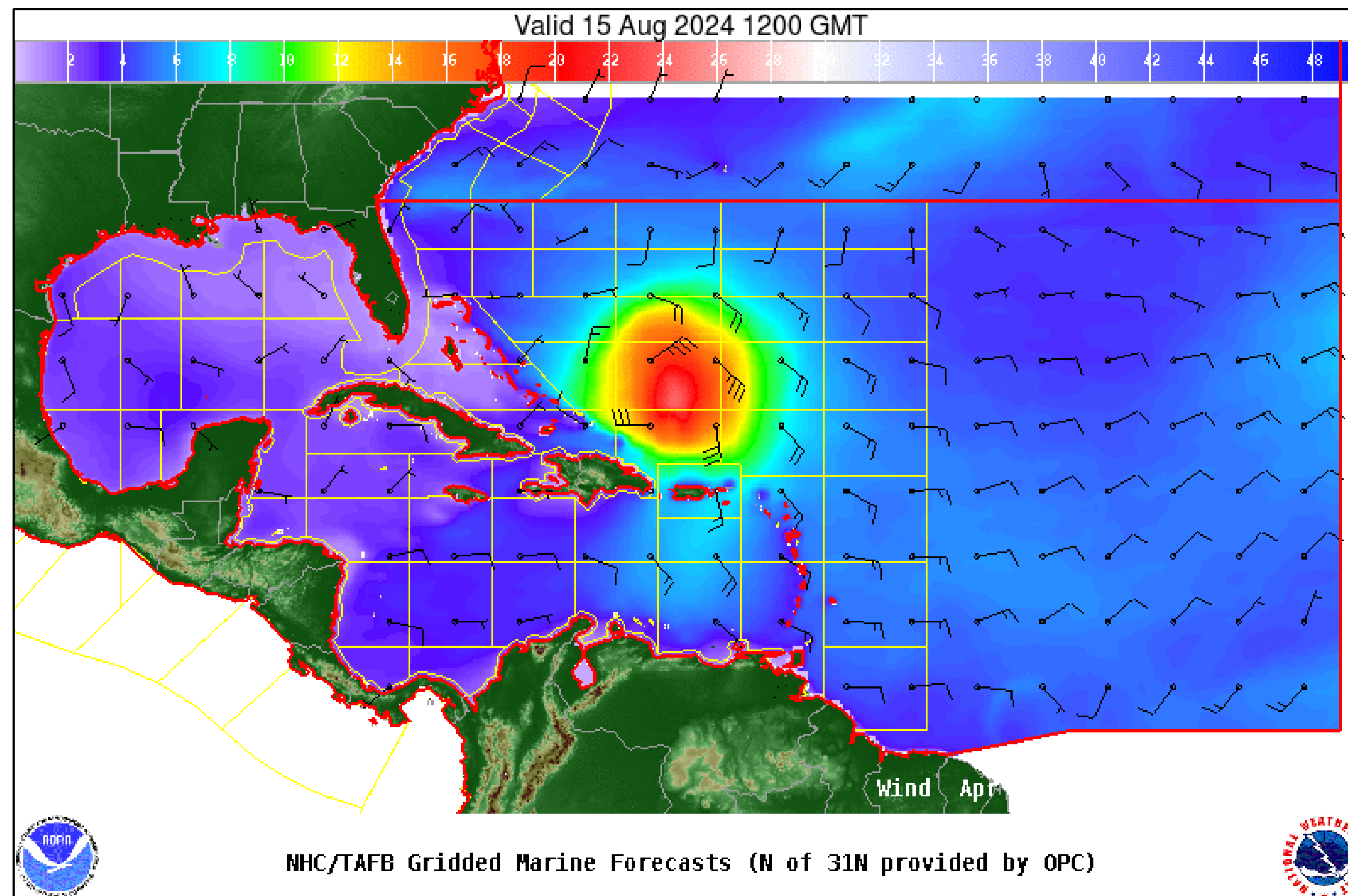
Significant Wave Height (ft)

Wind And Waves

Potential Tropical Cyclone Five



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96 Hour Forecast

Thursday, August 15th at 8am EDT

Peak Winds: 55 kt

Peak Seas: 24 ft

- Wave heights are in feet



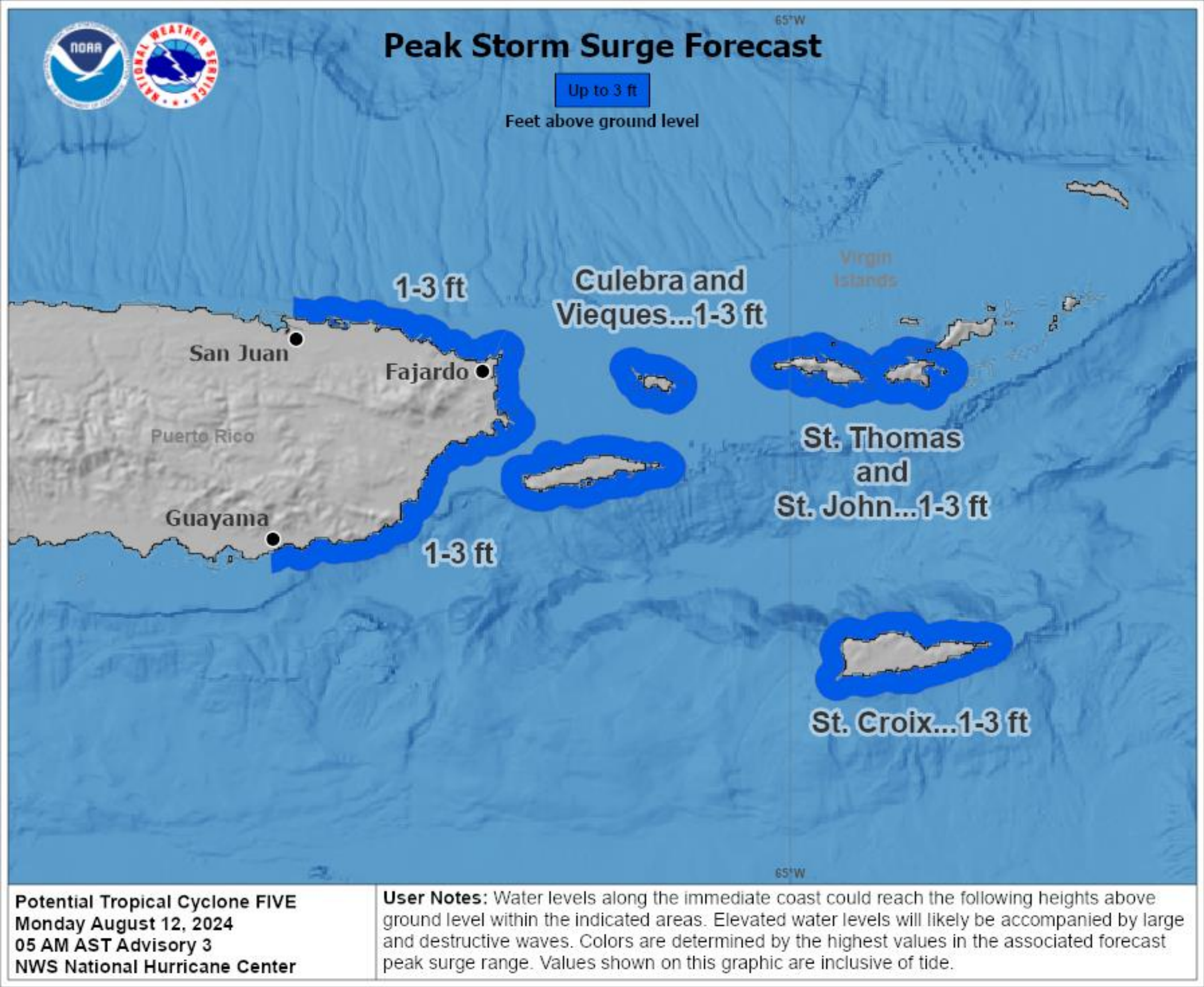
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

Potential Tropical Cyclone Five

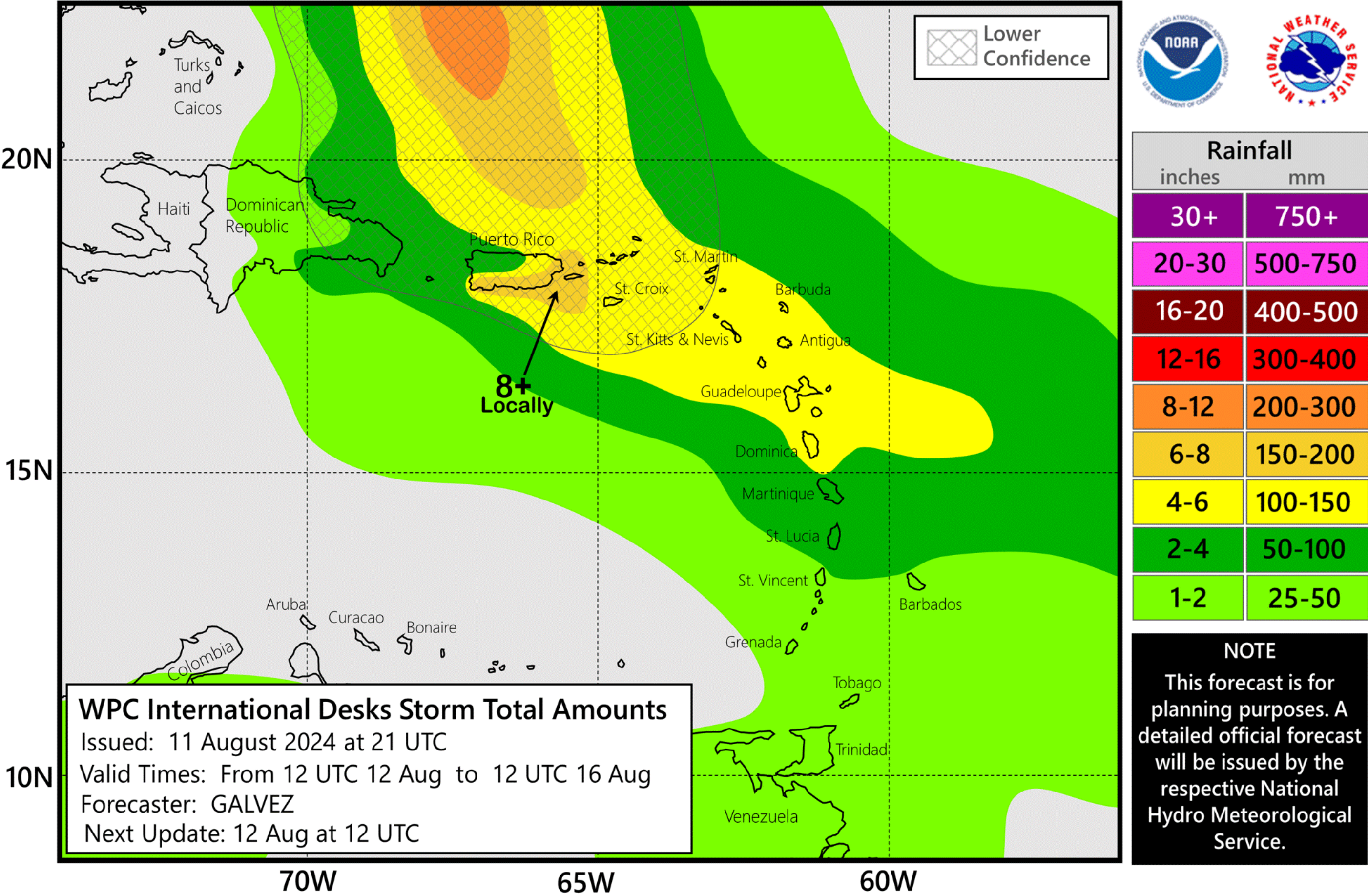


Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Potential Tropical Cyclone Five Images from NWS Weather Prediction Center





Key Messages

Potential Tropical Cyclone Five




Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Potential Tropical Cyclone Five

Advisory 3: 5:00 AM AST Mon Aug 12, 2024

1. The disturbance is expected to become a tropical storm before or as it reaches the Leeward Islands, where Tropical Storm Watches are in effect. Tropical storm conditions could begin on Tuesday for portions of the area.
2. Heavy rainfall may result in locally considerable flash flooding and mudslides in areas of the Leeward Islands by later today into Wednesday, and over Puerto Rico late Tuesday into Thursday.
3. A Tropical Storm Watch has been issued for Puerto Rico and the nearby islands. Additional watches and warnings will likely be required for portions of the northeastern Caribbean later today.



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Potential Tropical Cyclone Five
Monday August 12, 2024
5 AM AST Advisory 3
NWS National Hurricane Center

Current information: x
Center location 14.4 N 52.5 W
Maximum sustained wind 30 mph
Movement W at 25 mph

Forecast positions:
● Tropical Cyclone
○ Post-Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

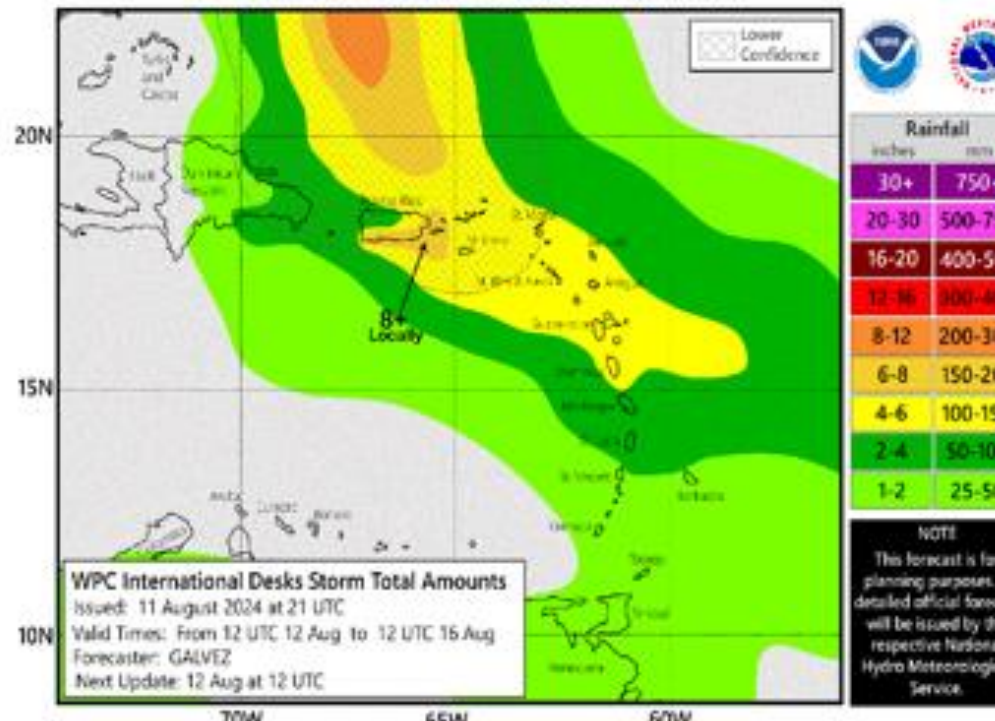
Potential track area:
Day 1-3 Day 4-5

Watches:
Hurricane Trop Str

Warnings:
Hurricane Trop Str

Current wind field estimate:
Hurricane Trop Str

PTC Five Total Forecast Rainfall



WPC International Desks Storm Total Amounts
Issued: 11 August 2024 at 21 UTC
Valid Times: From 12 UTC 12 Aug to 12 UTC 15 Aug
Forecaster: GALVEZ
Next Update: 12 Aug at 12 UTC

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

For more information go to hurricanes.gov

Marine Key Messages:

- Seas will begin to increase across the USVI and PR Tuesday afternoon
- Seas could peak around 20 ft near the islands
- 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



This briefing was prepared by:
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POTENTIAL TROPICAL CYCLONE FIVE BRIEFING

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

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

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



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