

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

**Winds – Low**

**Storm Surge – None**

**Rainfall/Flash Flooding – Low**

**Tornadoes – None**

**Waves - Low to Medium**

# TROPICAL STORM EARL BRIEFING



9:00 AM EDT  
Saturday, September 3, 2022

Prepared by:

**Jeff Lewitsky**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



NHC\_TAFB

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

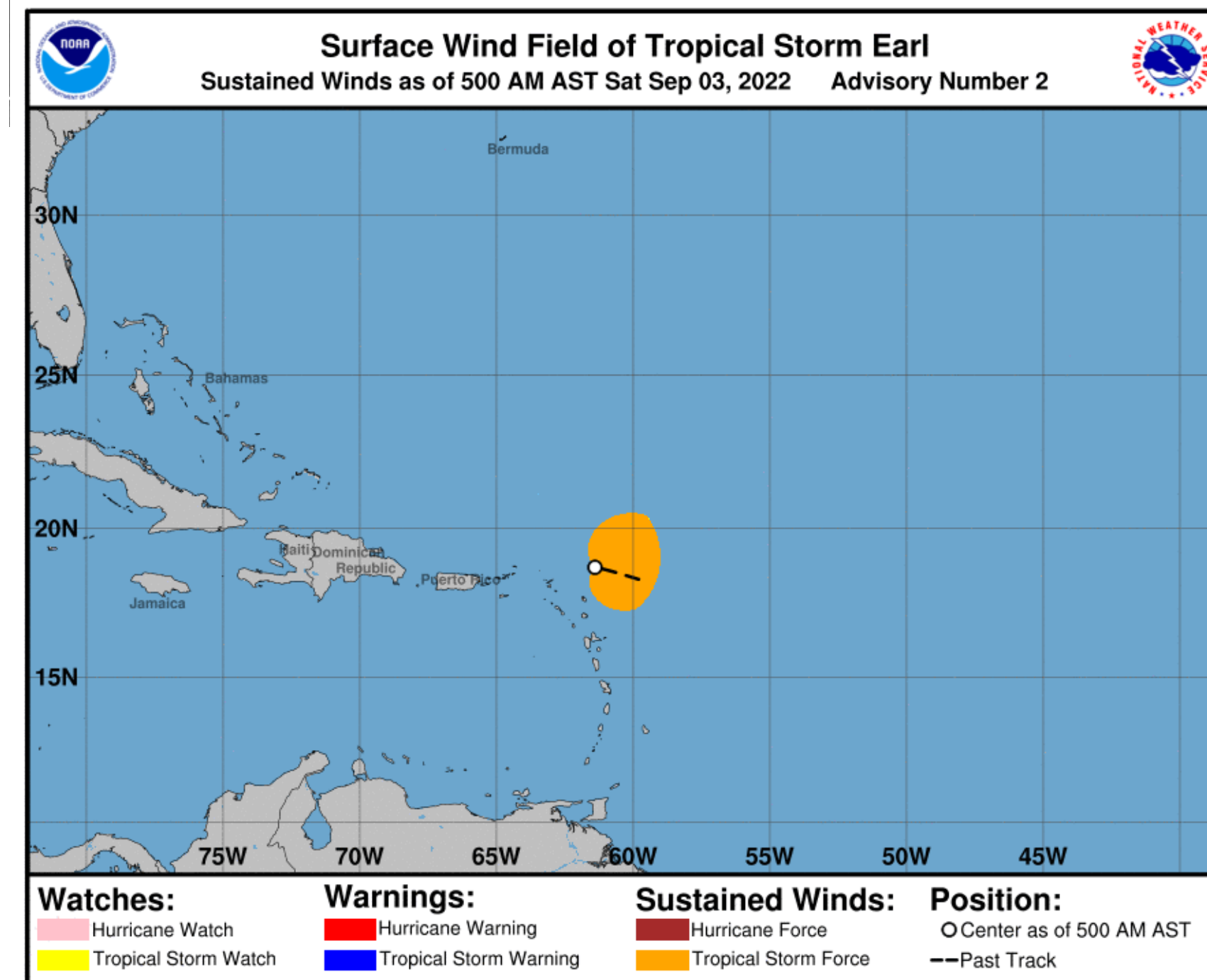
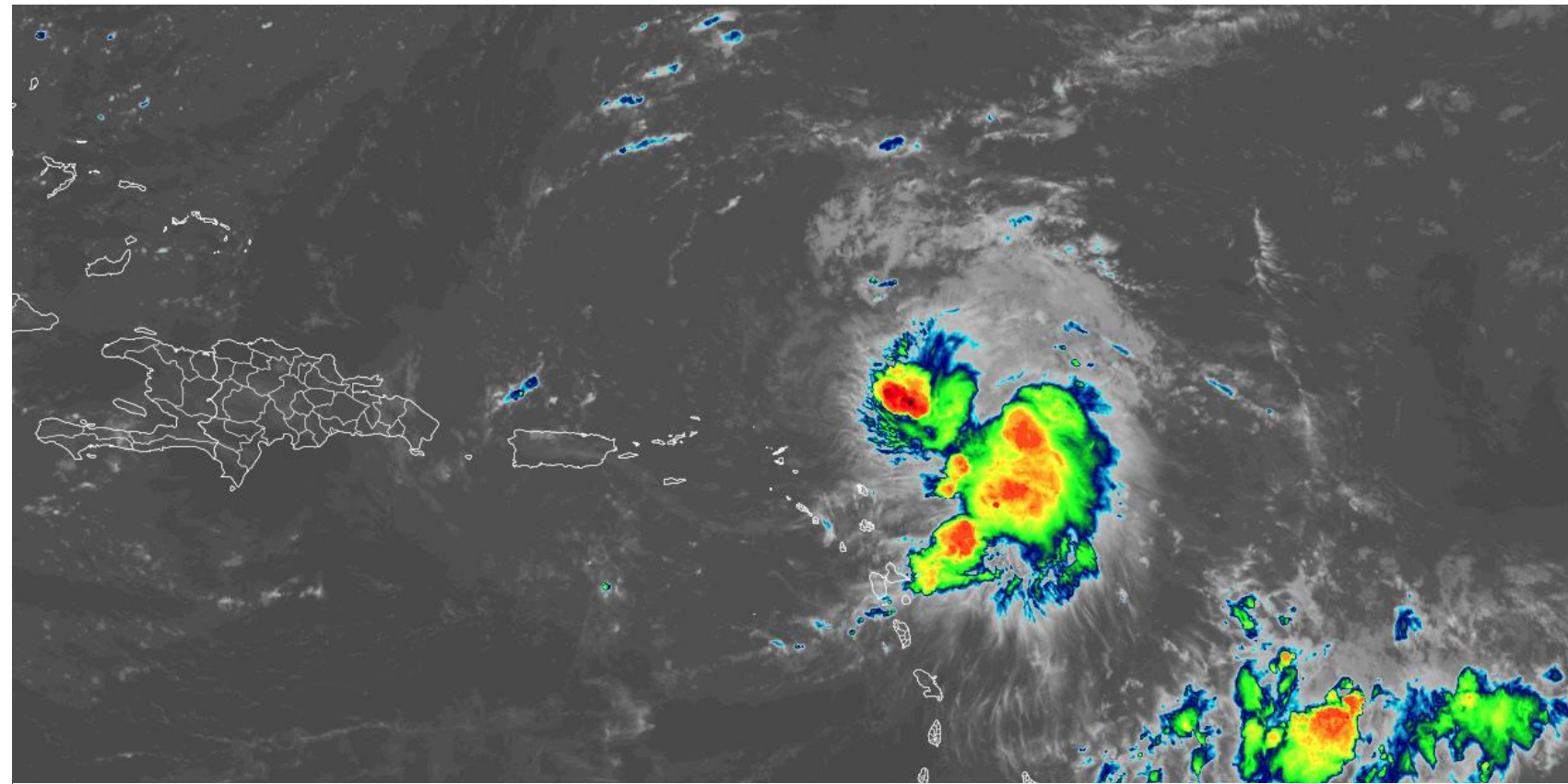


# Current Satellite View

## Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



**...EARL CONTINUING WEST-NORTHWESTWARD...  
...SHOULD PASS NORTH OF THE LEEWARD ISLANDS  
TODAY...**

## Summary of 500 AM AST Information...

**Location... 18.7N 61.4W**

**About 115 MI ENE of the Northern  
Leeward Islands**

**Maximum Sustained Winds... 35 kt**

**Present Movement... WNW at 11 kt**

**Minimum Central Pressure... 1005 mb**

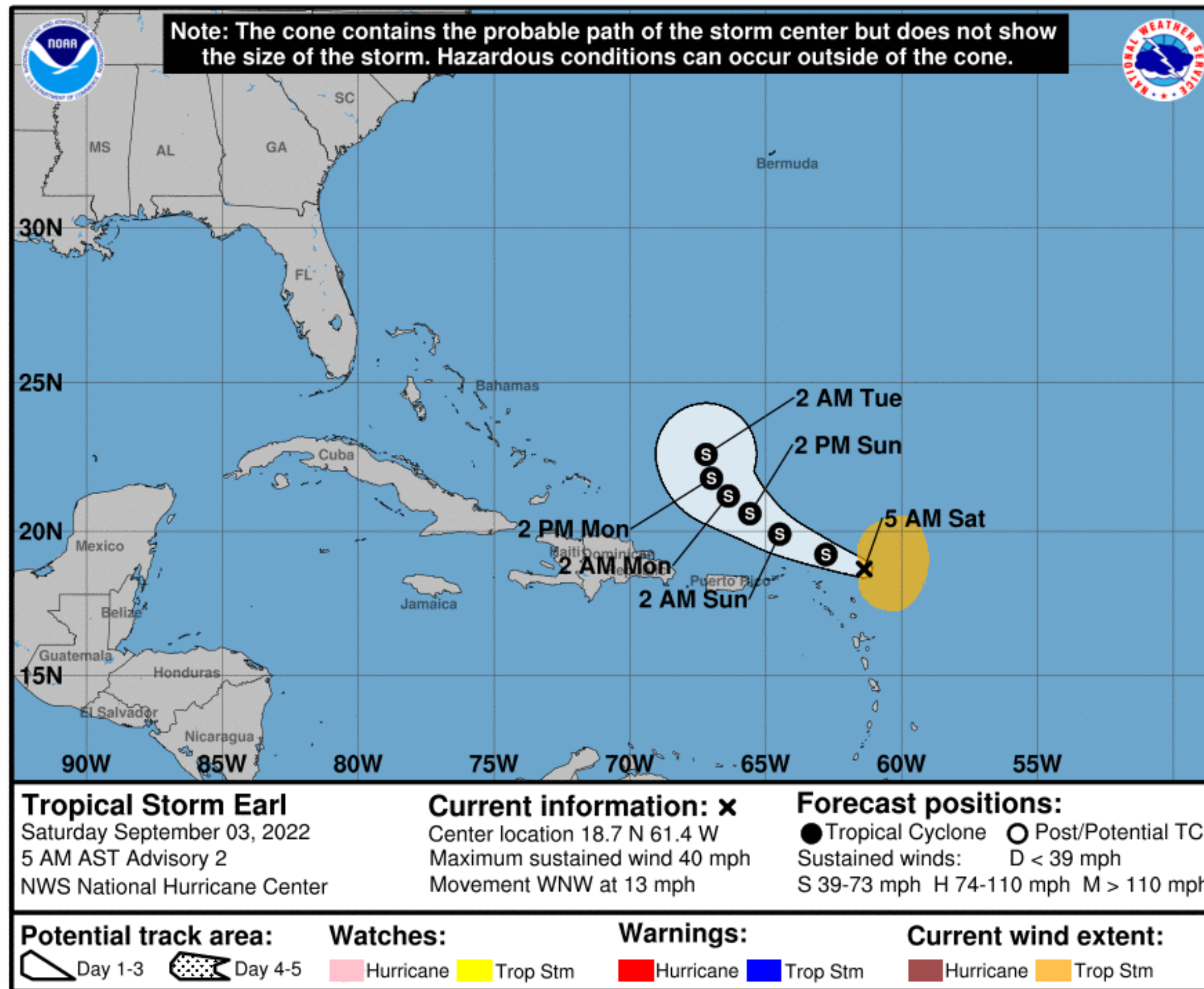


# Forecast Information

## Tropical Storm Earl



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NWS National Hurricane Center



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

- Earl will pass to the northeast and then north of Puerto Rico and the US Virgin Islands through the weekend.
- 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.

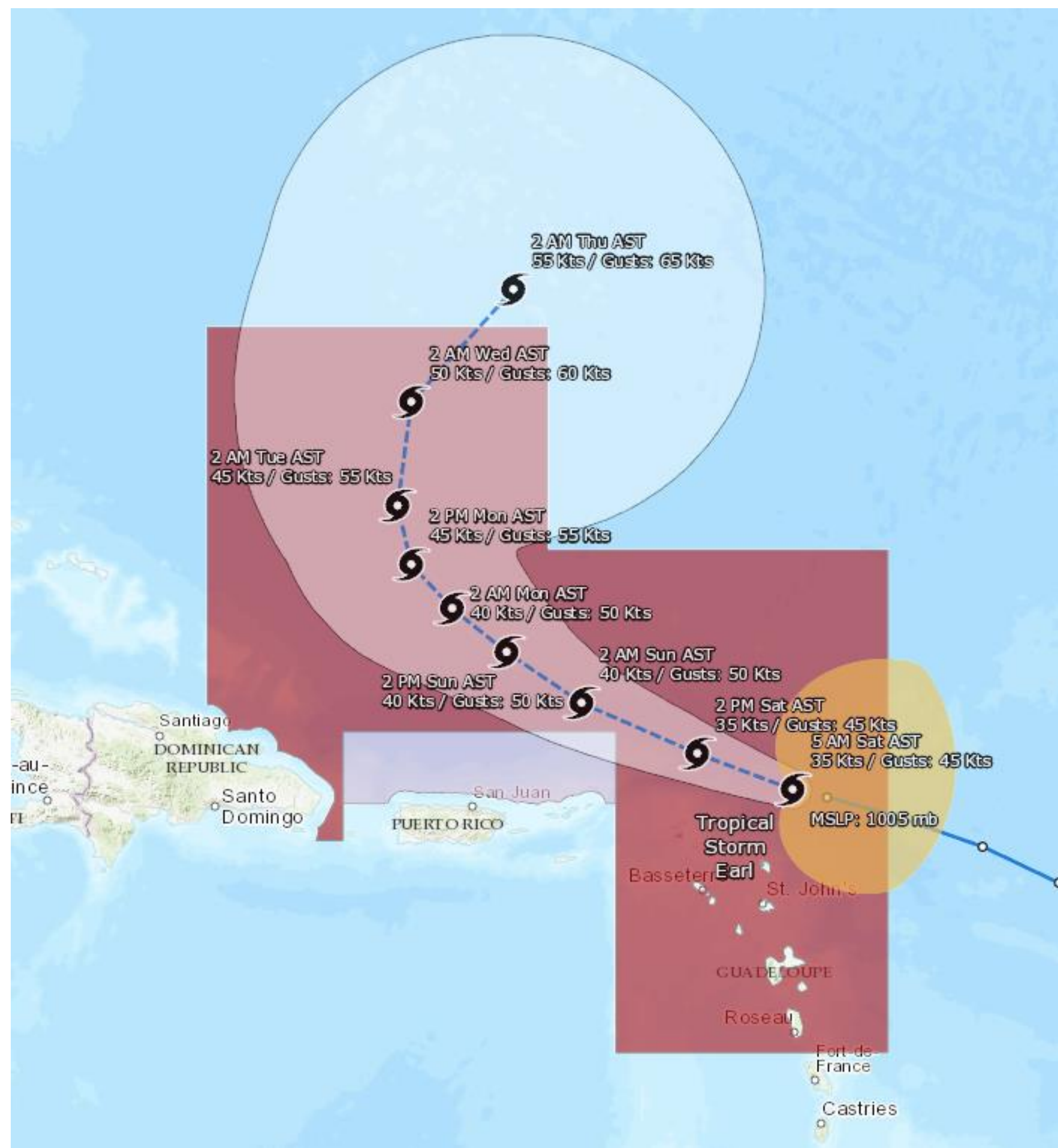


# Hazards Map

## Tropical Storm Earl



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NWS National Hurricane Center



 Tropical Storm Warning

 Small Craft Advisory

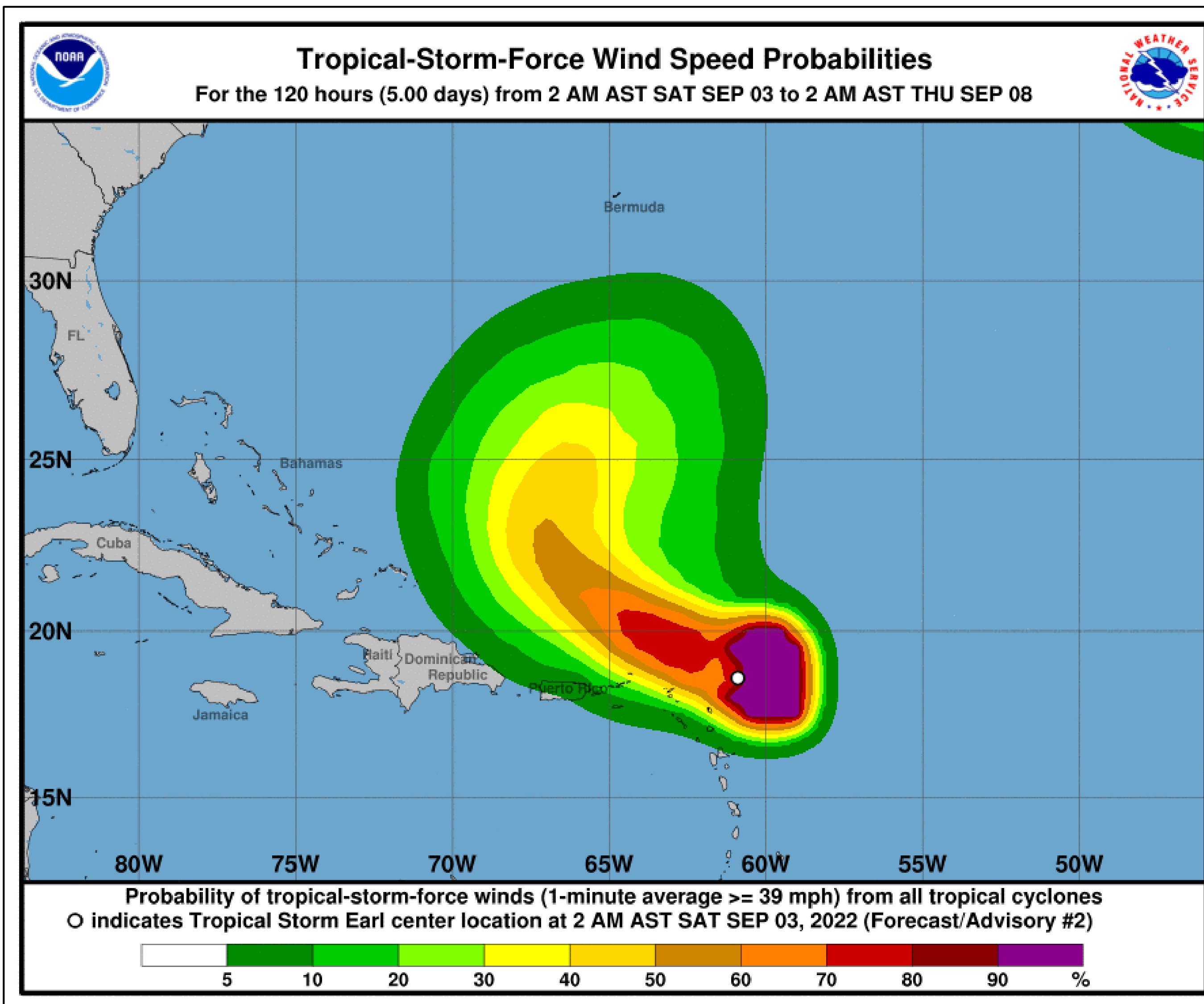
- <https://nowcoast.noaa.gov/>

# T.S. Wind Speed Probabilities

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

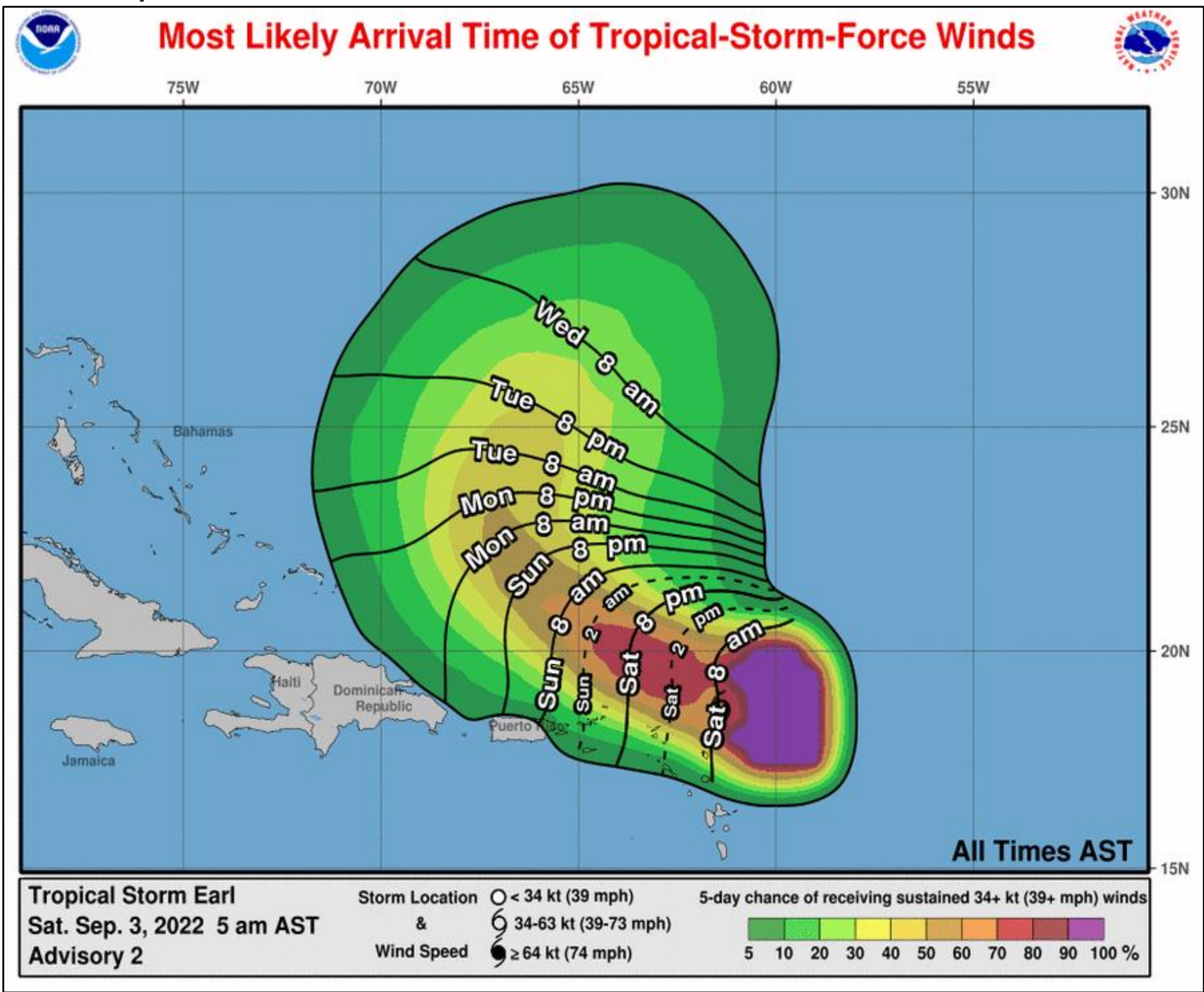


- 5-10% over portions of Puerto Rico.
- 5-10% U.S. Virgin Islands.
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.





## Tropical Storm Earl



- U.S. Virgin Islands around midnight.
- Portions of Puerto Rico Sunday 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.

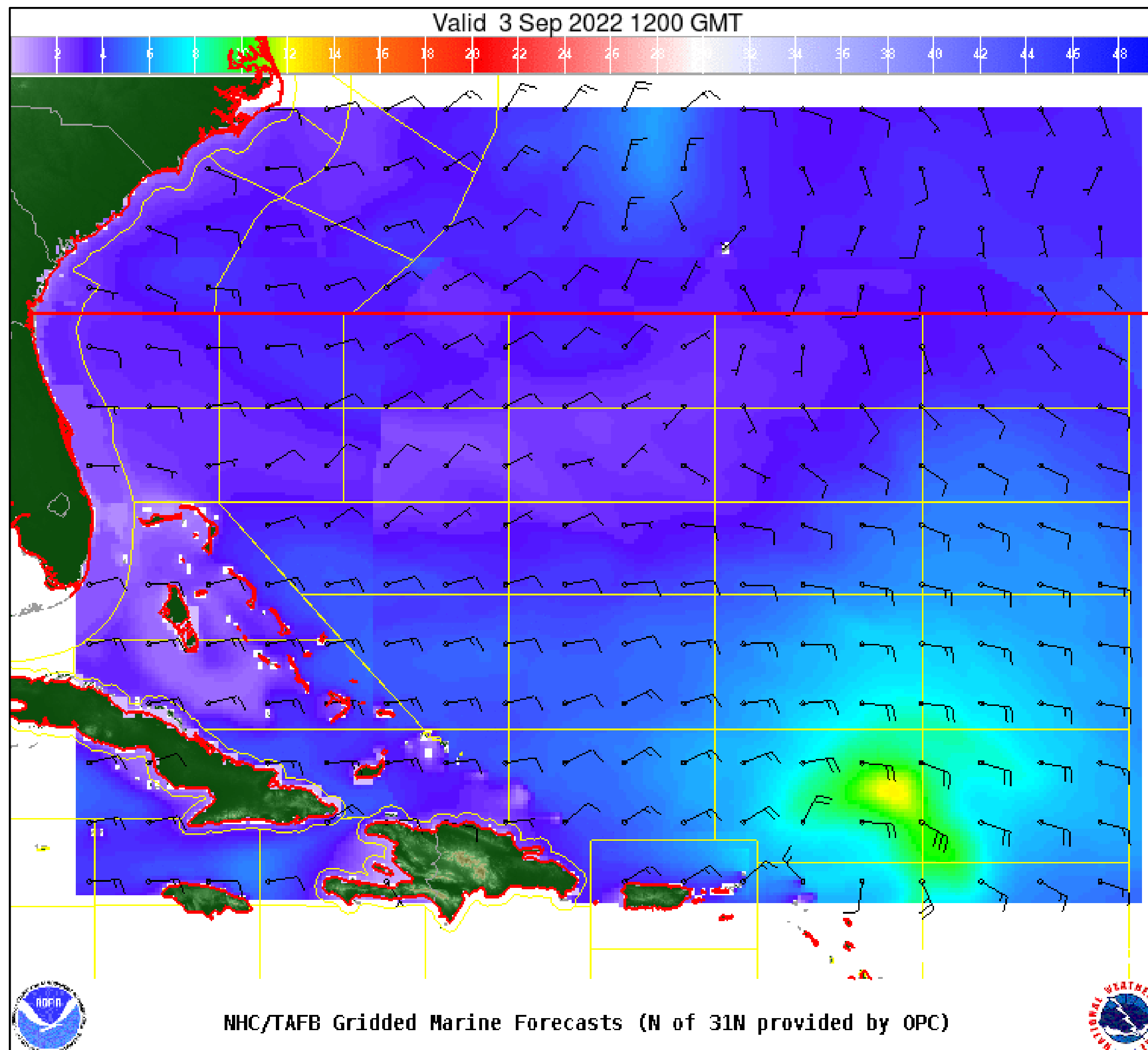


# Wind And Waves

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



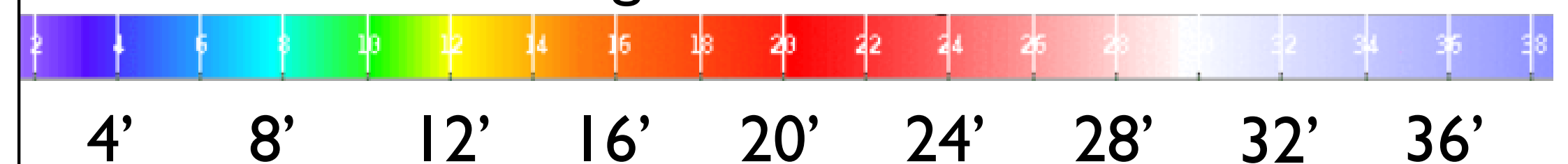
## Current Conditions

9am AST Saturday, September 3<sup>rd</sup>, 2022

Peak Winds: 35 kt

Peak Seas: 12 ft

■ Wave heights are in feet

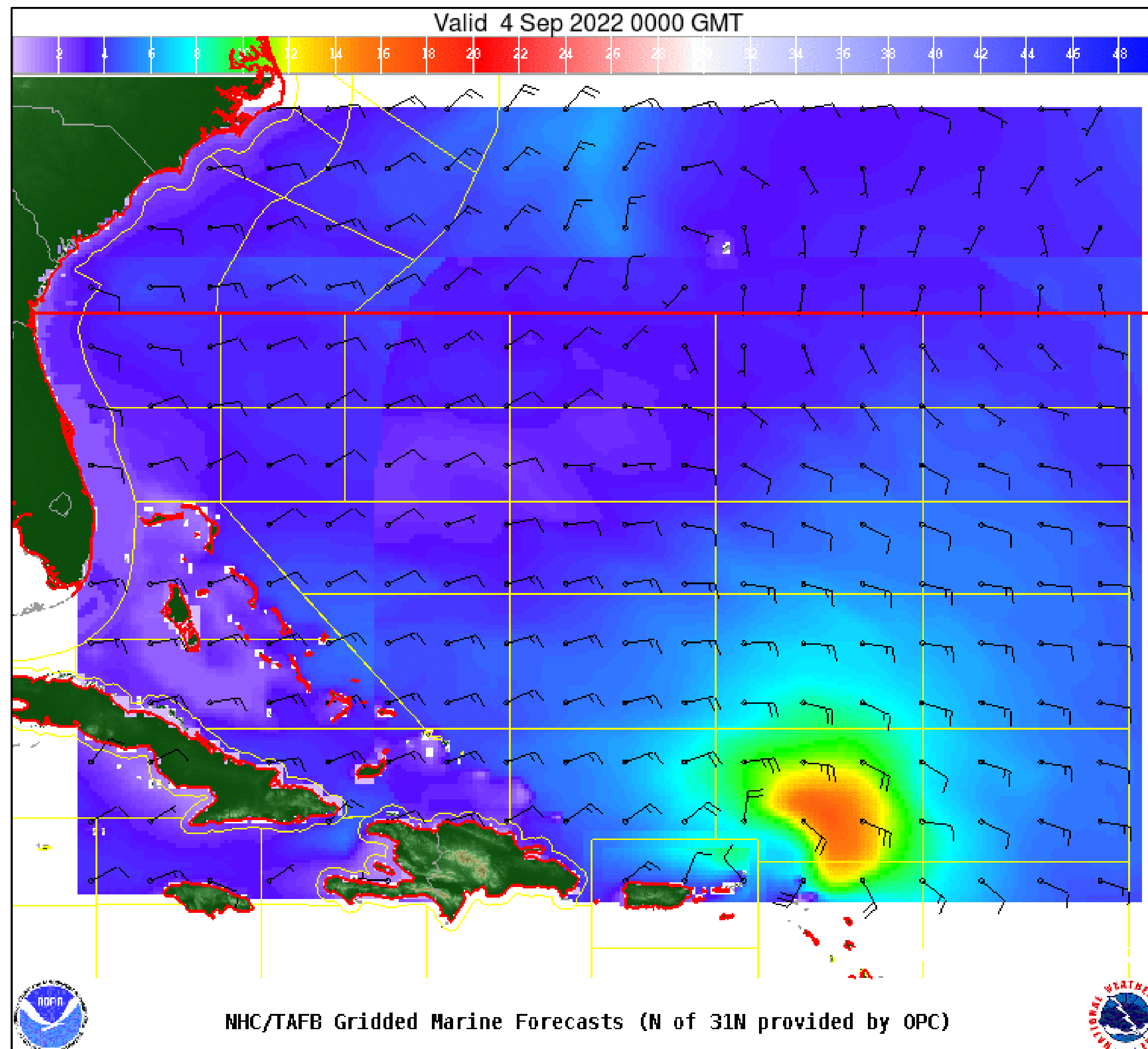


# Wind And Waves

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



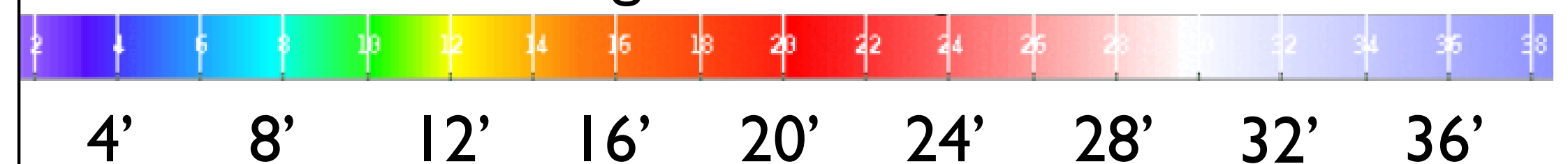
12 Hour Forecast

9pm AST Saturday, September 3<sup>rd</sup>, 2022

Peak Winds: 35 kt

Peak Seas: 16 ft

■ Wave heights are in feet



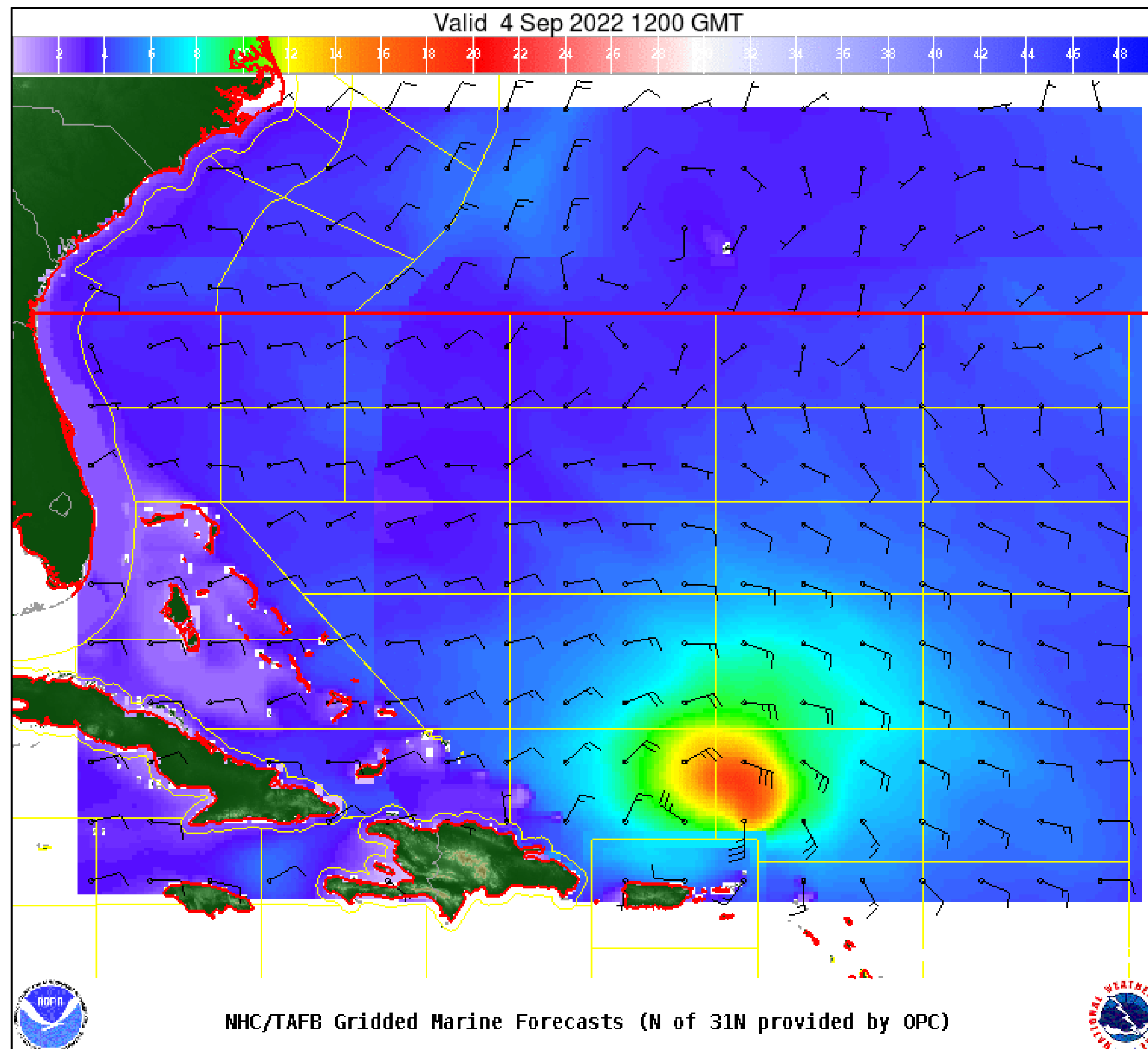


# Wind And Waves

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



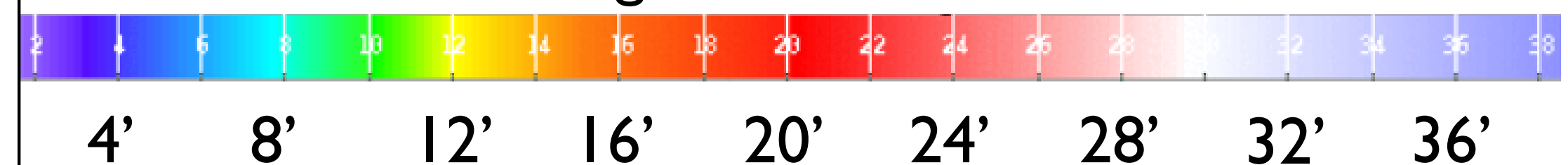
24 Hour Forecast

9am AST Sunday, September 4<sup>th</sup>, 2022

Peak Winds: 40 kt

Peak Seas: 18 ft

■ Wave heights are in feet

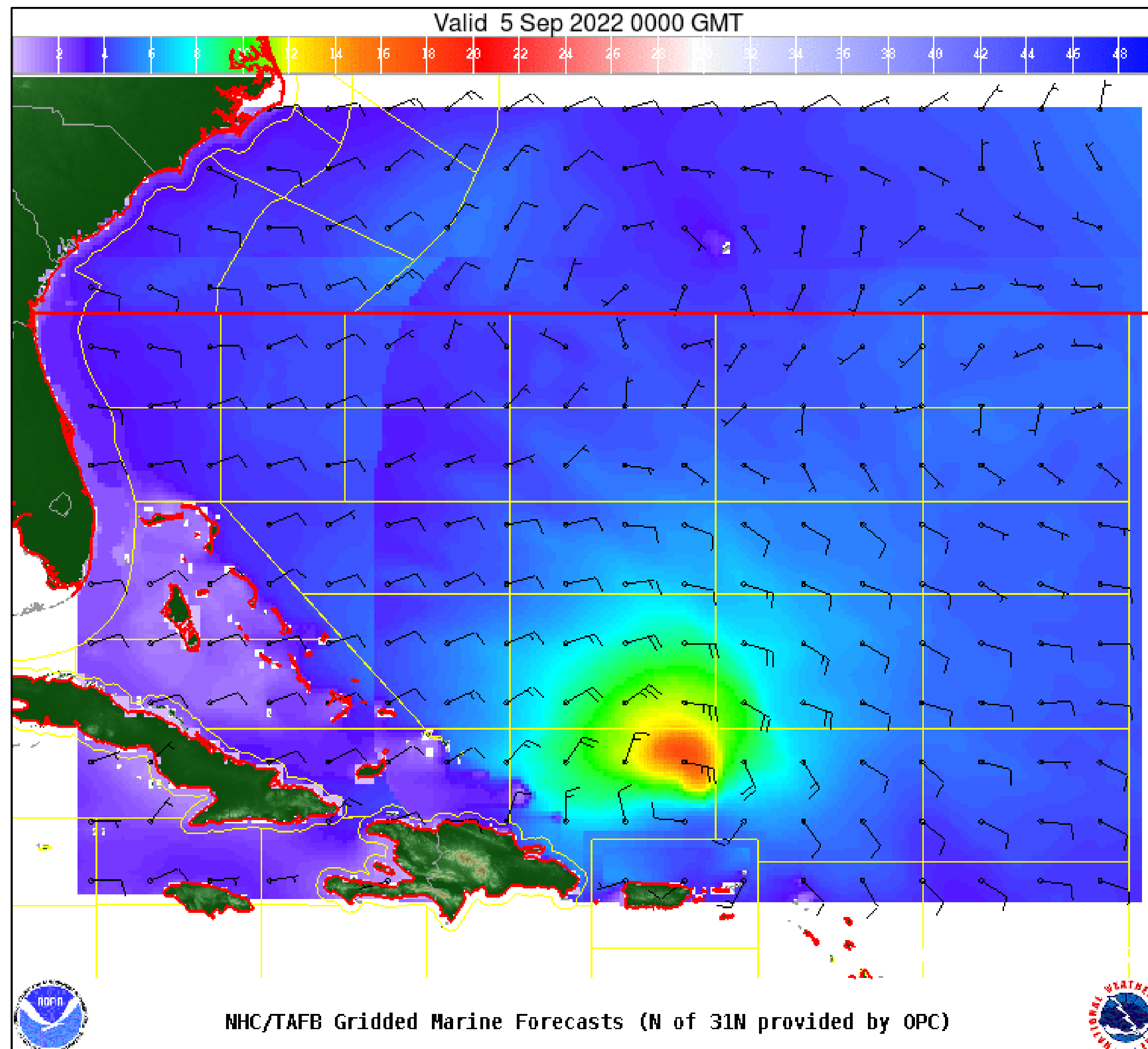


# Wind And Waves

Tropical Storm Earl



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NWS National Hurricane Center



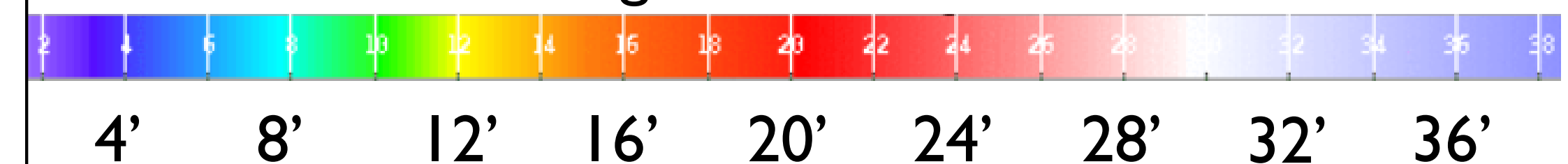
36 Hour Forecast

9pm AST Sunday, September 4<sup>th</sup>, 2022

Peak Winds: 40 kt

Peak Seas: 18 ft

■ Wave heights are in feet



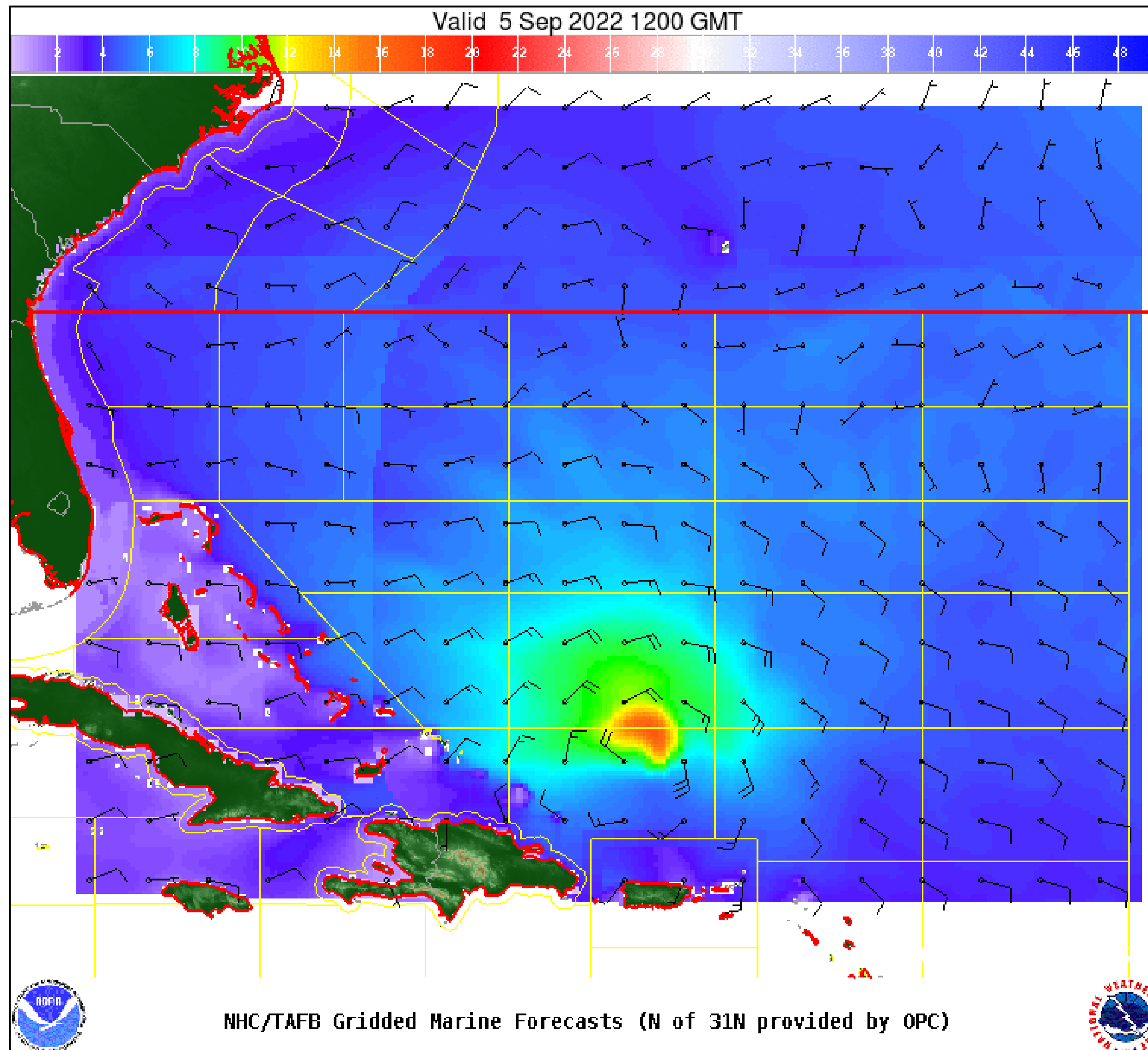


# Wind And Waves

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



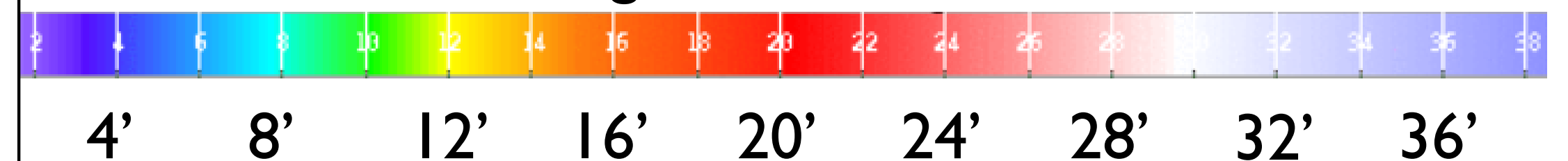
48 Hour Forecast

9am AST Monday, September 5<sup>th</sup>, 2022

Peak Winds: 40 kt

Peak Seas: 18 ft

■ Wave heights are in feet

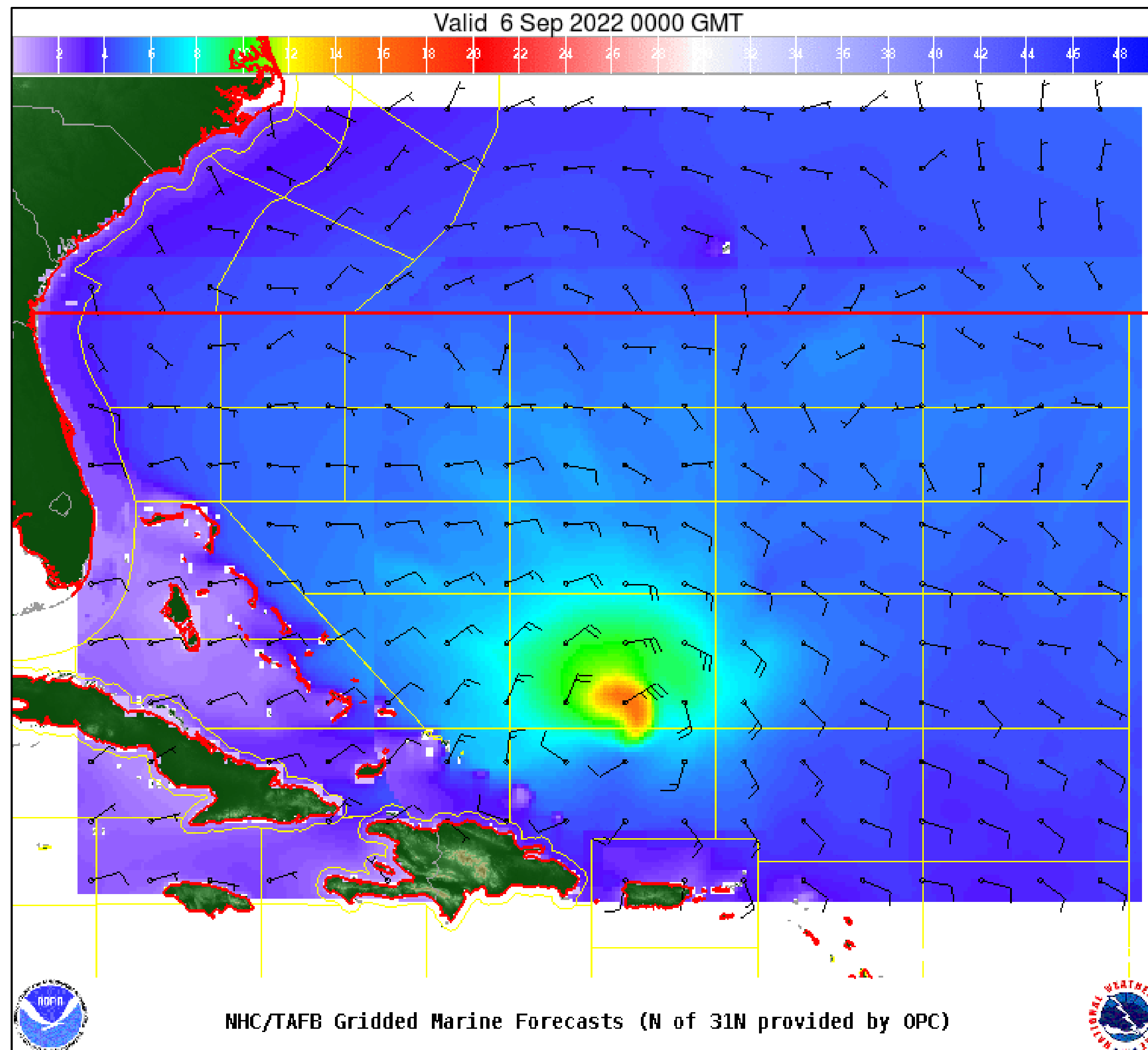


# Wind And Waves

Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



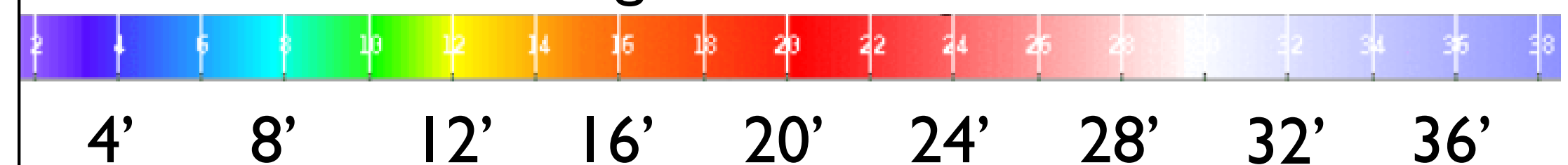
60 Hour Forecast

9pm AST Monday, September 5<sup>th</sup>, 2022

Peak Winds: 45 kt

Peak Seas: 18 ft

■ Wave heights are in feet







# Key Messages

## Tropical Storm Earl



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center

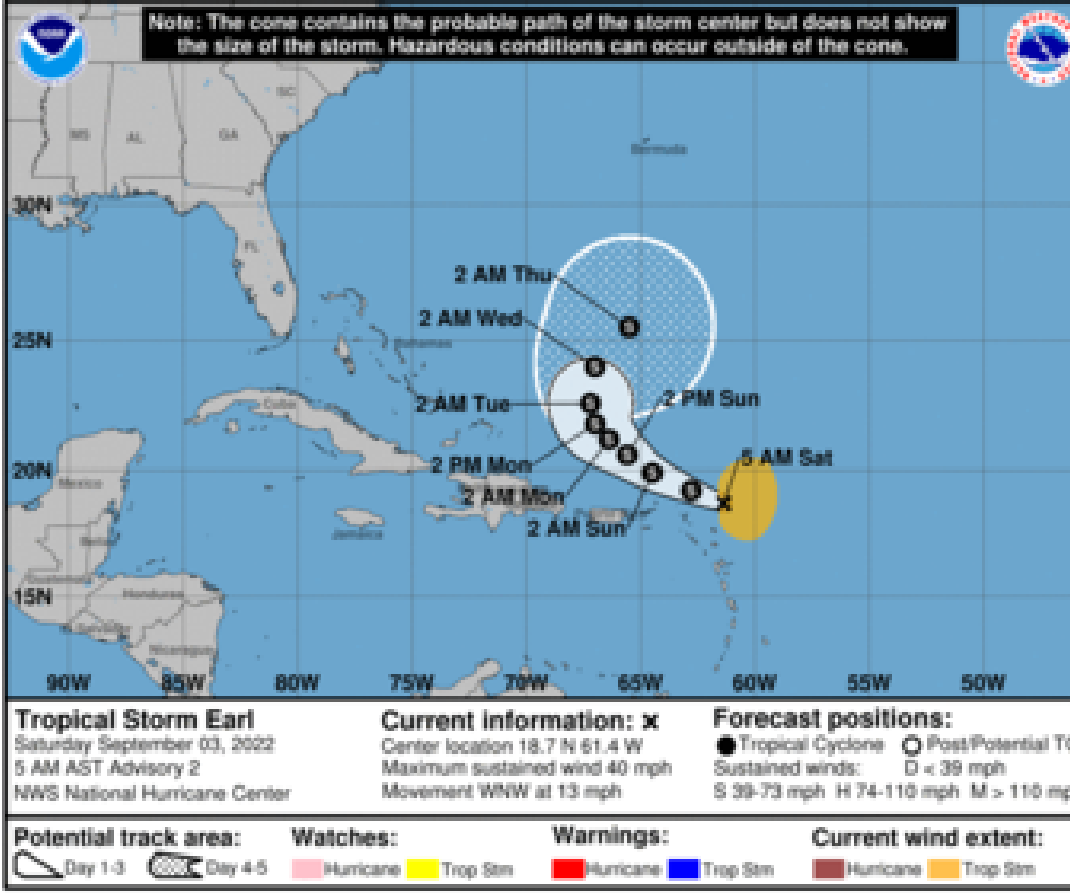


### Key Messages for Tropical Storm Earl

Advisory 2: 5:00 AM AST Sat Sep 03, 2022

1. Tropical Storm Earl is forecast to pass near or just to the north of the northern Leeward Islands, the Virgin Islands, and Puerto Rico over the weekend. Gusty winds, especially in squalls, area possible on those islands over the next day or two.

2. Heavy rainfall from Earl is expected to lead to limited flash, urban, and small stream flooding impacts over the Leeward Islands, U.S. and British Virgin Islands, and Puerto Rico this weekend. Rapid rises on rivers are possible in Puerto Rico.

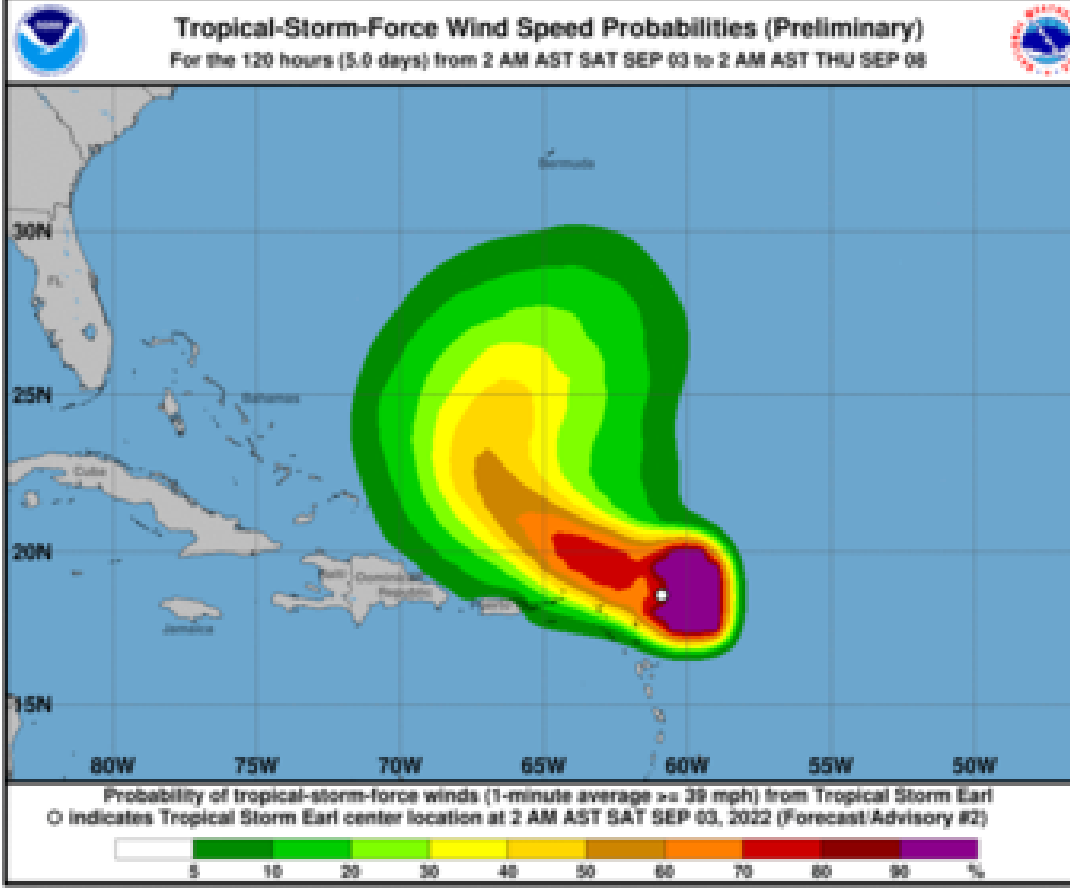


**Tropical Storm Earl**  
Saturday September 03, 2022  
5 AM AST Advisory 2  
NWS National Hurricane Center

**Current information:** x  
Center location 18.7 N 61.4 W  
Maximum sustained wind 40 mph  
Movement WNW at 13 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 Stm  
**Warnings:** Hurricane Trop Stm  
**Current wind extent:** Hurricane Trop Stm



**Tropical-Storm-Force Wind Speed Probabilities (Preliminary)**  
For the 120 hours (5.0 days) from 2 AM AST SAT SEP 03 to 2 AM AST THU SEP 08

Probability of tropical-storm-force winds (1-minute average >= 39 mph) from Tropical Storm Earl  
○ indicates Tropical Storm Earl center location at 2 AM AST SAT SEP 03, 2022 (Forecast/Advisory #2)

5 10 20 30 40 50 60 70 80 90 %

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

### Marine Key Messages:

- With the passage of Earl to the NE and N of Puerto Rico, winds will shift more north on Sunday, and then southerly by Sunday night.
- Seas will also increase in the Atlantic waters during the weekend due to the passage of Earl, with conditions in the northern outer waters becoming hazardous.
- Thunderstorms are expected over the local waters through the weekend.



# TROPICAL STORM EARL BRIEFING

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

*The Next Briefing Will Be:  
Sunday 9:00 AM EDT*

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



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