

IMPACTS FOR D7 (through next 5 days)

Winds – High

Storm Surge – High

Rainfall/Flash Flooding – Medium

Tornadoes – None

Waves - High

HURRICANE ERNESTO BRIEFING

8:30 AM EDT

Thursday, August 15, 2024

Prepared by:

Eric Christensen

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

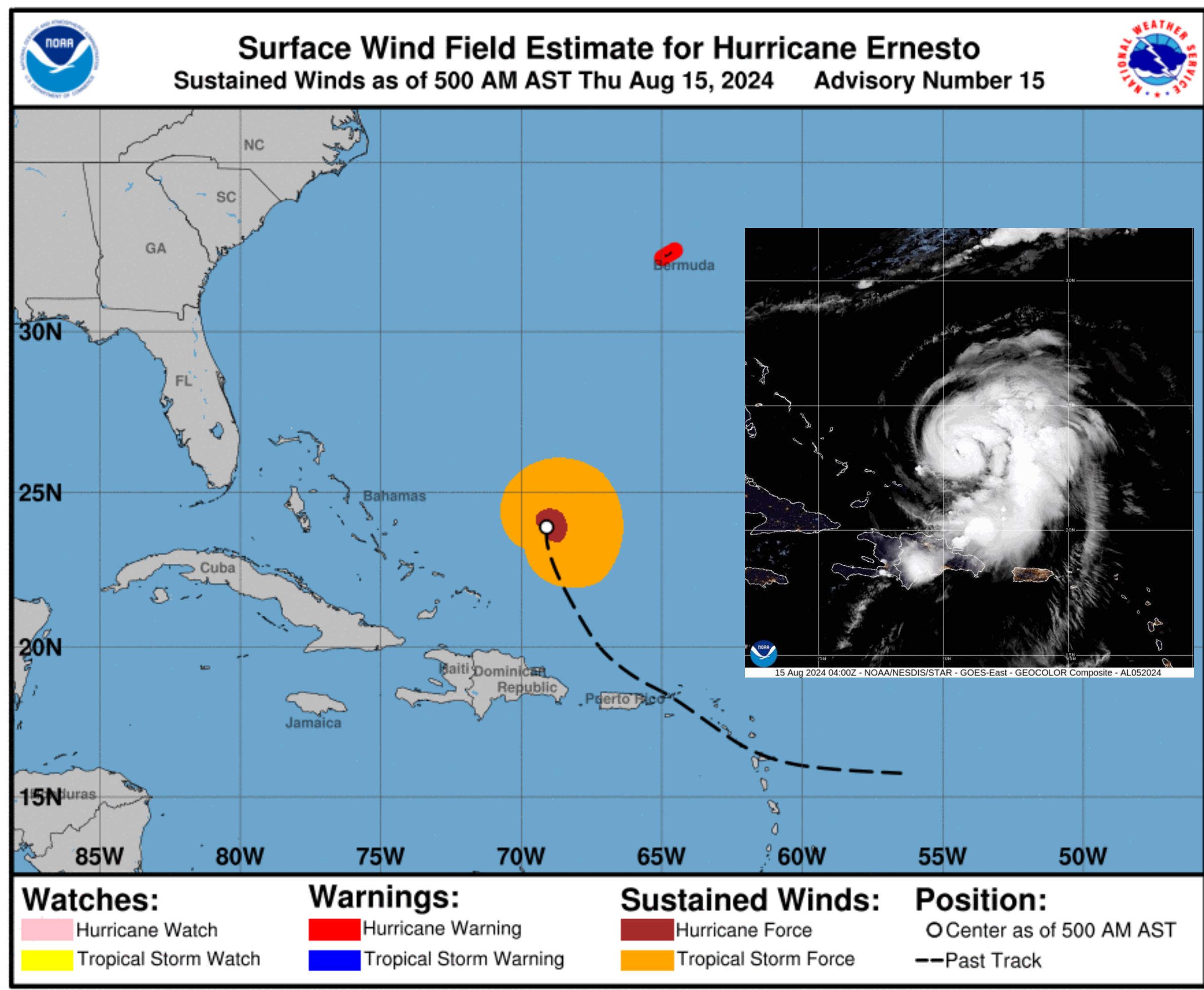


Situation Overview

Hurricane Ernesto



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NWS National Hurricane Center



...HURRICANE WARNING ISSUED FOR BERMUDA...

SUMMARY OF 500 AM AST...0900 UTC...INFORMATION

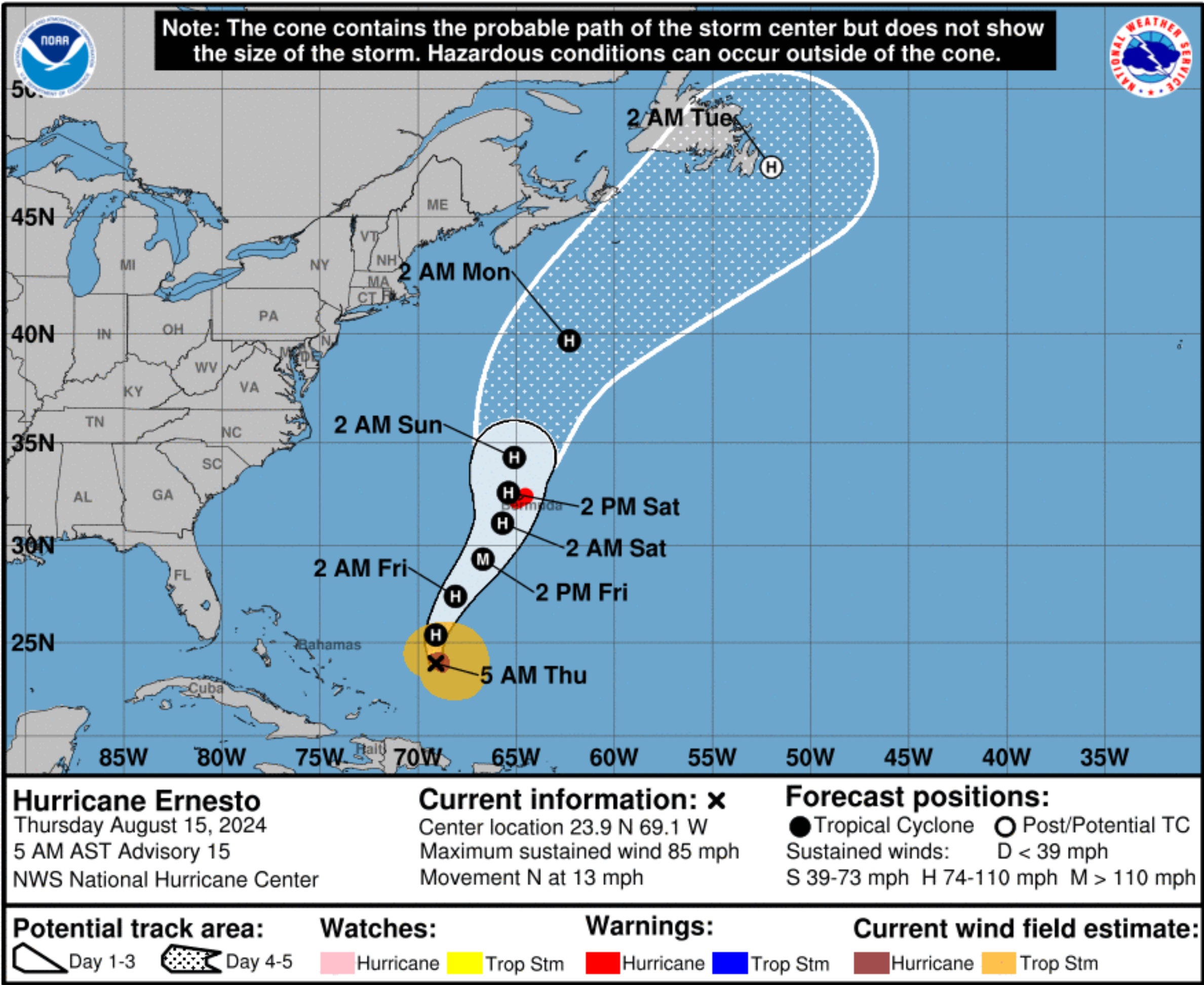
LOCATION...23.9N 69.1W
ABOUT 550 NM SSW OF BERMUDA
MAXIMUM SUSTAINED WINDS...75 KNOTS
PRESENT MOVEMENT...N OR 360 DEGREES AT 10 KNOTS
MINIMUM CENTRAL PRESSURE...979 MB...28.91 INCHES
PEAK SEAS...34 FEET
12 FT SEAS..210NE 240SE 150SW 165NW

Forecast Information

Hurricane Ernesto



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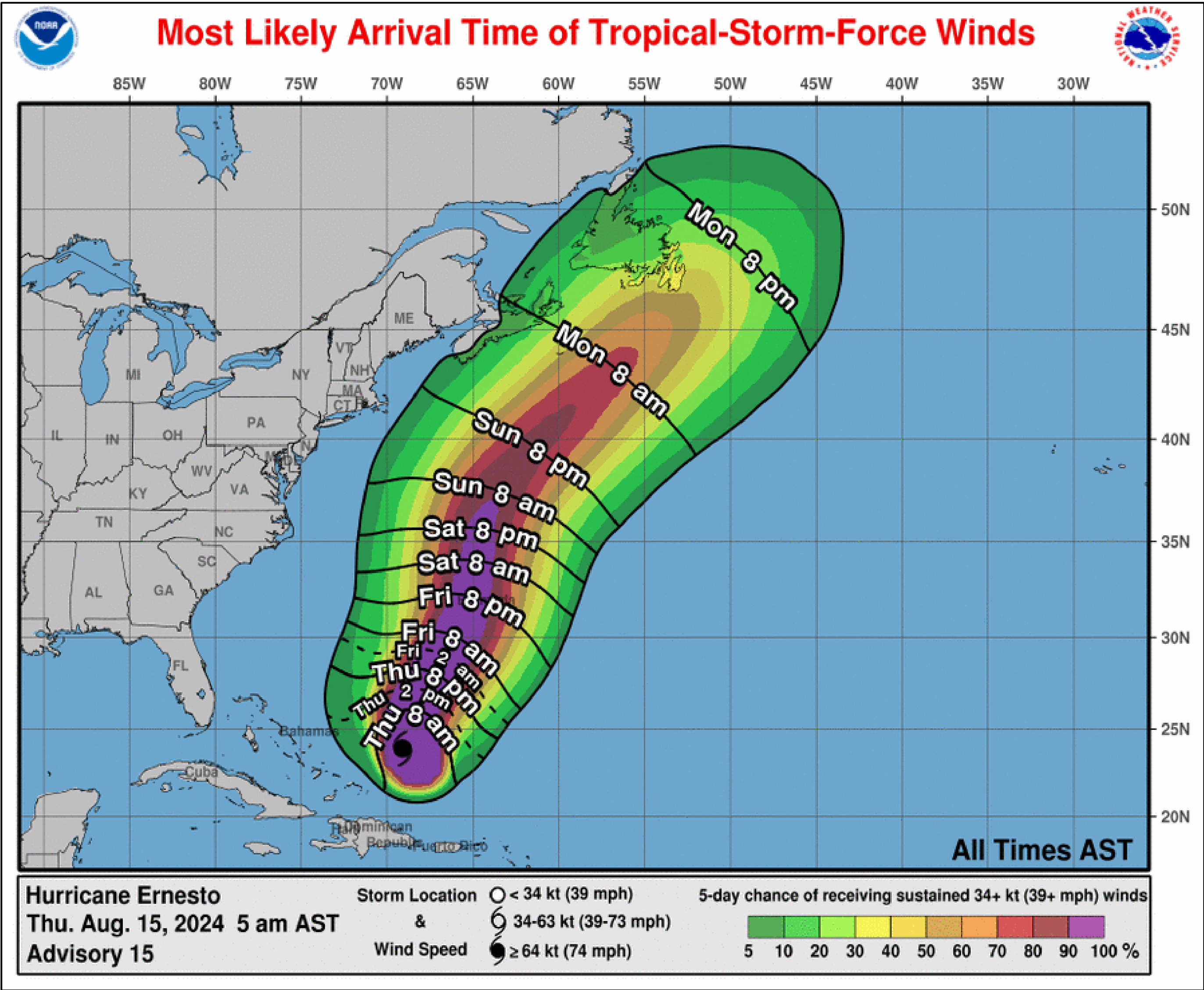
- Ernesto will become a major hurricane by Friday afternoon, as it approaches Bermuda
- Some weakening is forecast thereafter as it passes over Bermuda Saturday

** 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.



Hurricane Ernesto



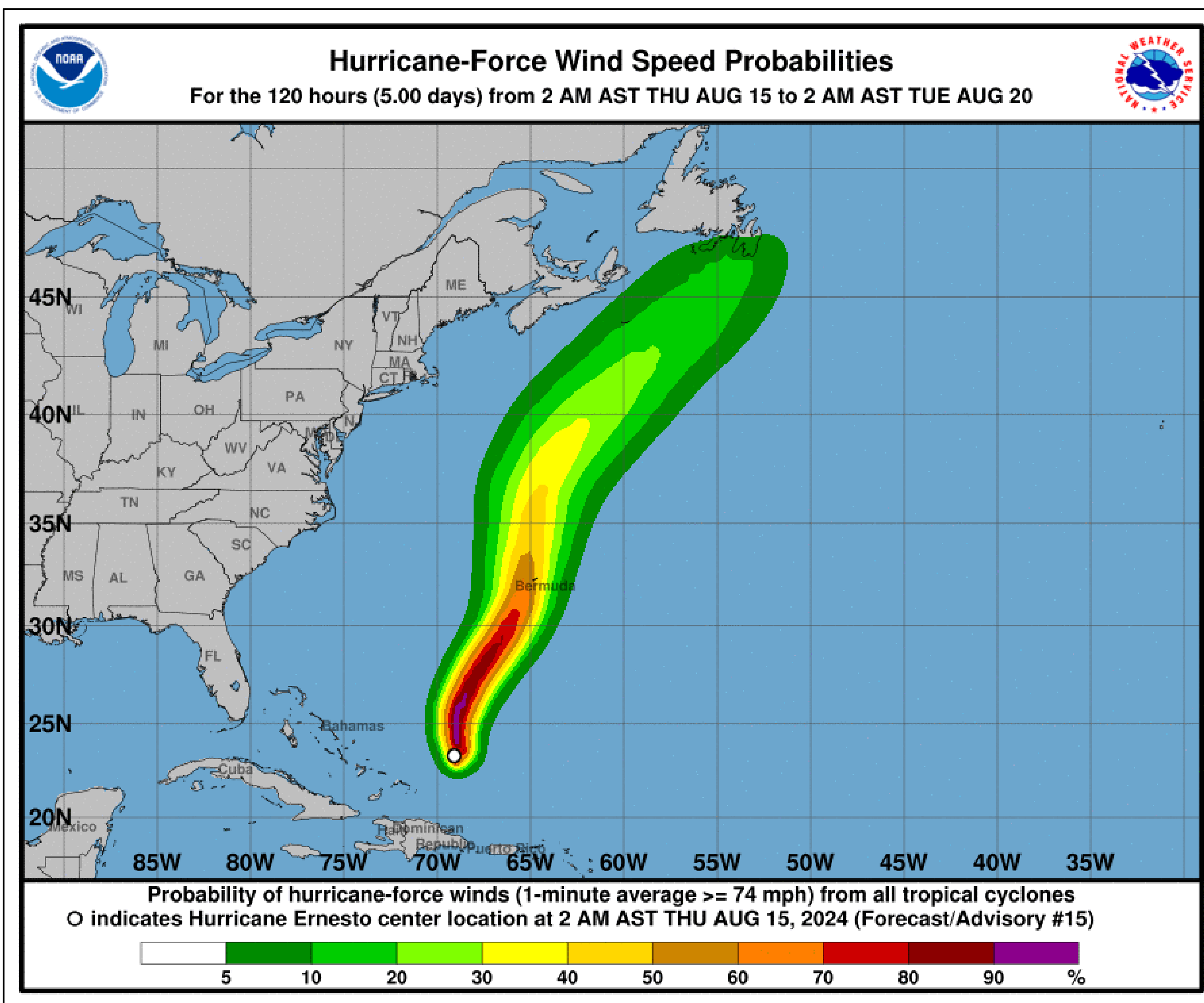
- Expect tropical storm force winds reaching Bermuda by late Friday
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Hurricane Wind Speed Probabilities

Hurricane Ernesto



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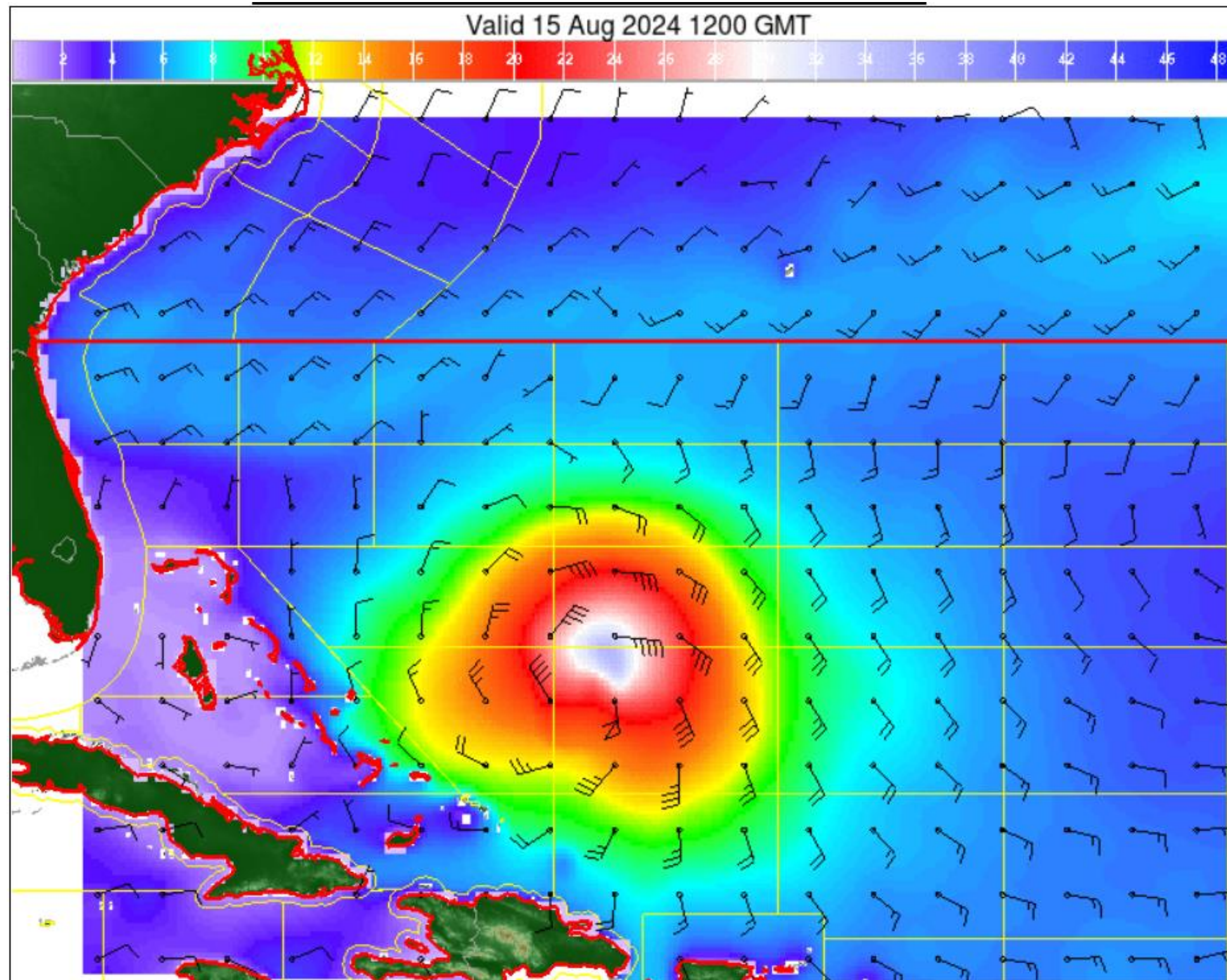
- Bermuda – 45% of sustained hurricane force winds (64 kt +) over the next 3 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Hurricane Ernesto



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Current Conditions

Current

Peak Winds: 75 knots

Peak Seas: 34 feet

- Wave heights are in feet



Significant Wave Height (ft)

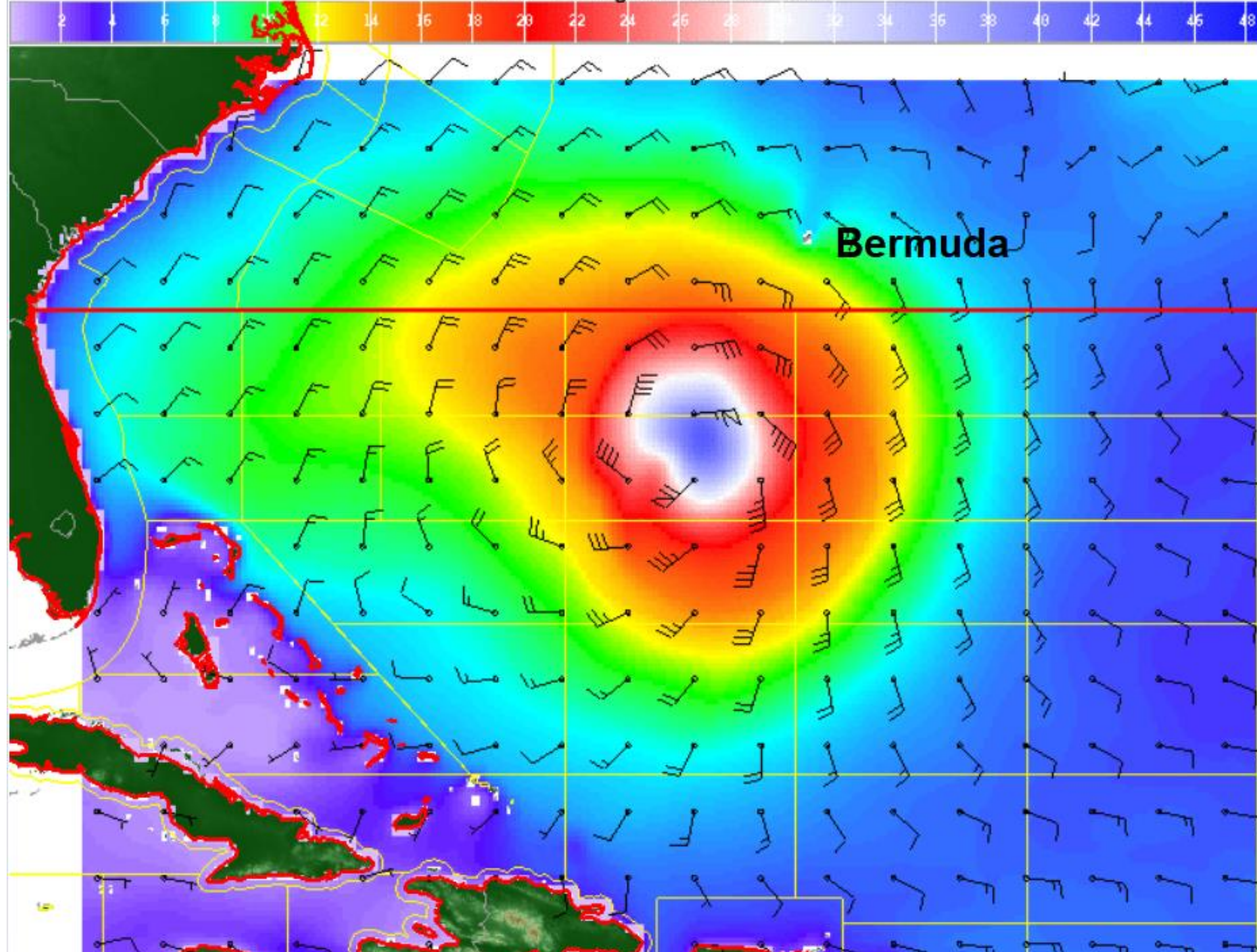
Wind And Waves

Hurricane Ernesto



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Valid 16 Aug 2024 1200 GMT



24 Hour Forecast

Friday morning

Peak Winds: 95 knots

Peak Seas: 42 feet

- Wave heights are in feet



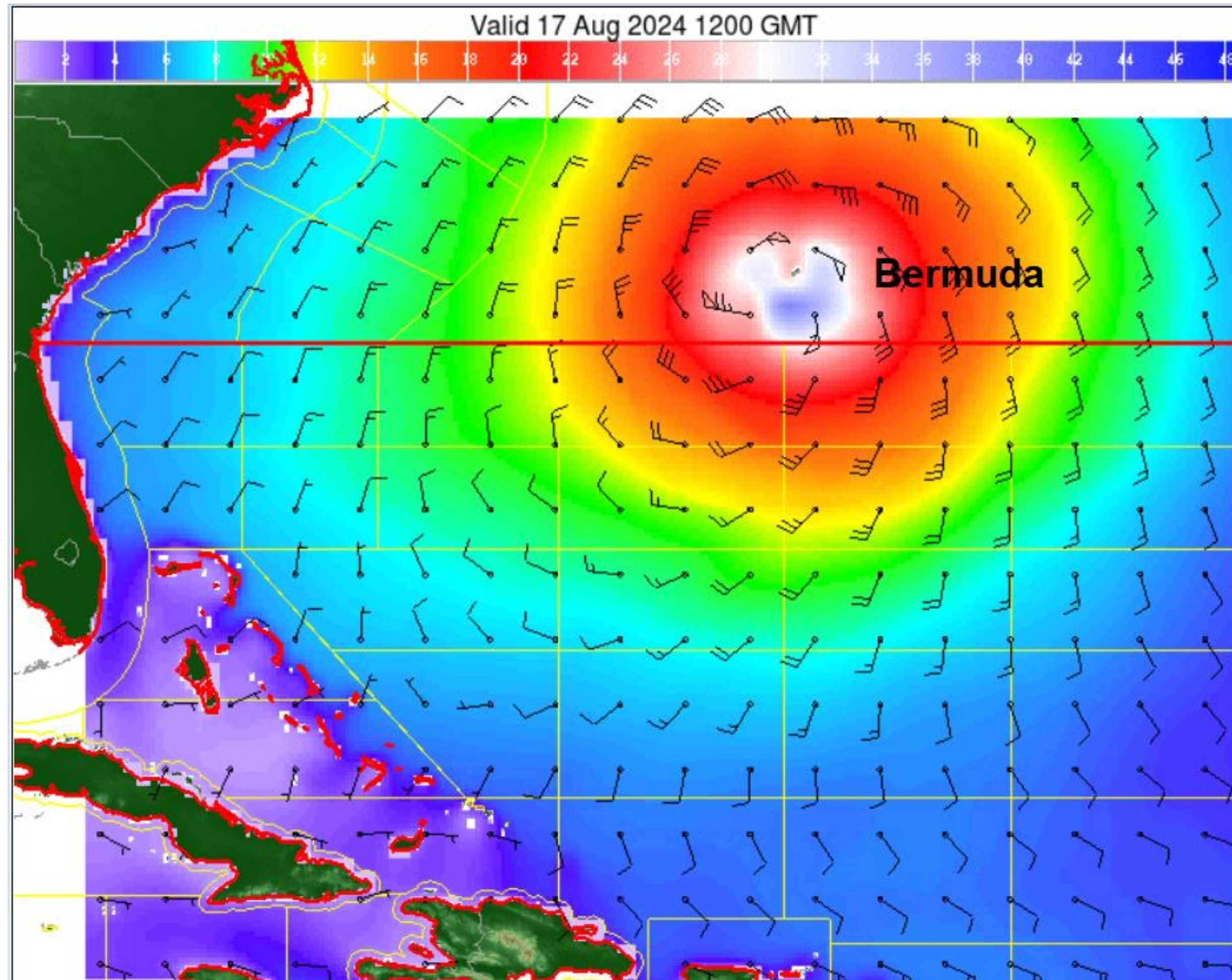
Significant Wave Height (ft)

Wind And Waves

Hurricane Ernesto



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48 Hour Forecast

Saturday morning

Peak Winds: 95 knots

Peak Seas: 42 feet

- Wave heights are in feet



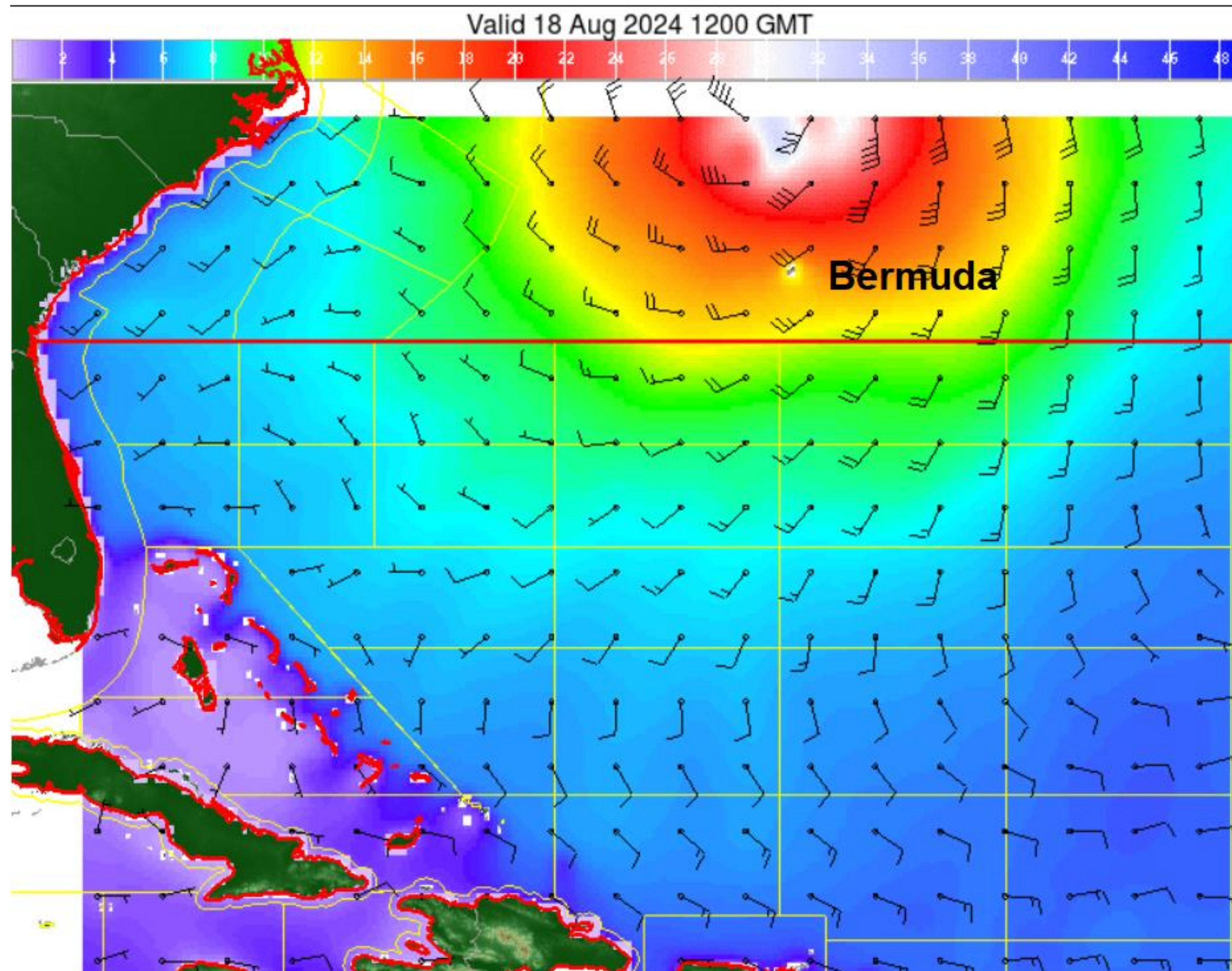
Significant Wave Height (ft)

Wind And Waves

Hurricane Ernesto



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72 Hour Forecast

Sunday morning

Peak Winds: 90 knots

Peak Seas: 45 feet

- Wave heights are in feet





Significant Wave Height (ft)

Key Messages

Hurricane Ernesto



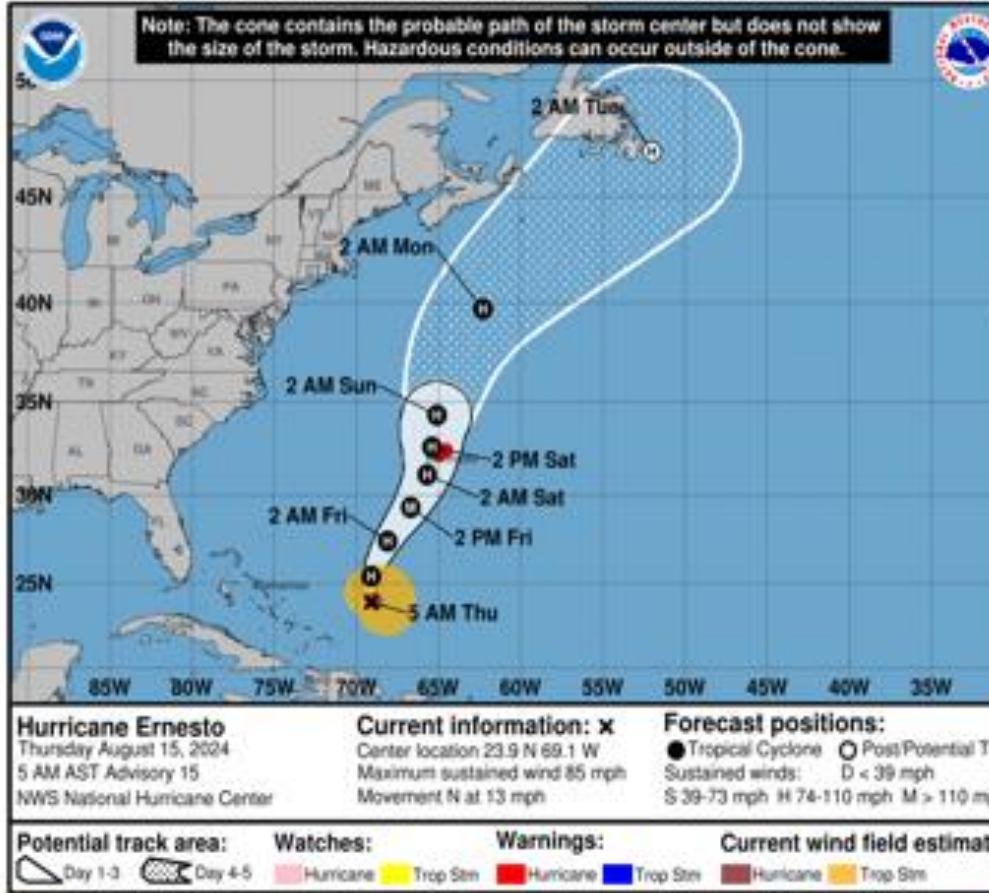
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Key Messages for Hurricane Ernesto

Advisory 15: 5:00 AM AST Thu Aug 15, 2024

- Ernesto is expected to approach Bermuda late Friday and be near the island Saturday and Saturday night. A prolonged period of strong winds and storm surge is expected on Bermuda beginning late Friday, and a hurricane warning has been issued for the island. Preparations to protect life and property should be rushed to completion.
- Rainfall associated with Ernesto is expected to begin to affect Bermuda later today and may result in flash flooding Friday through this weekend.
- 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.



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.

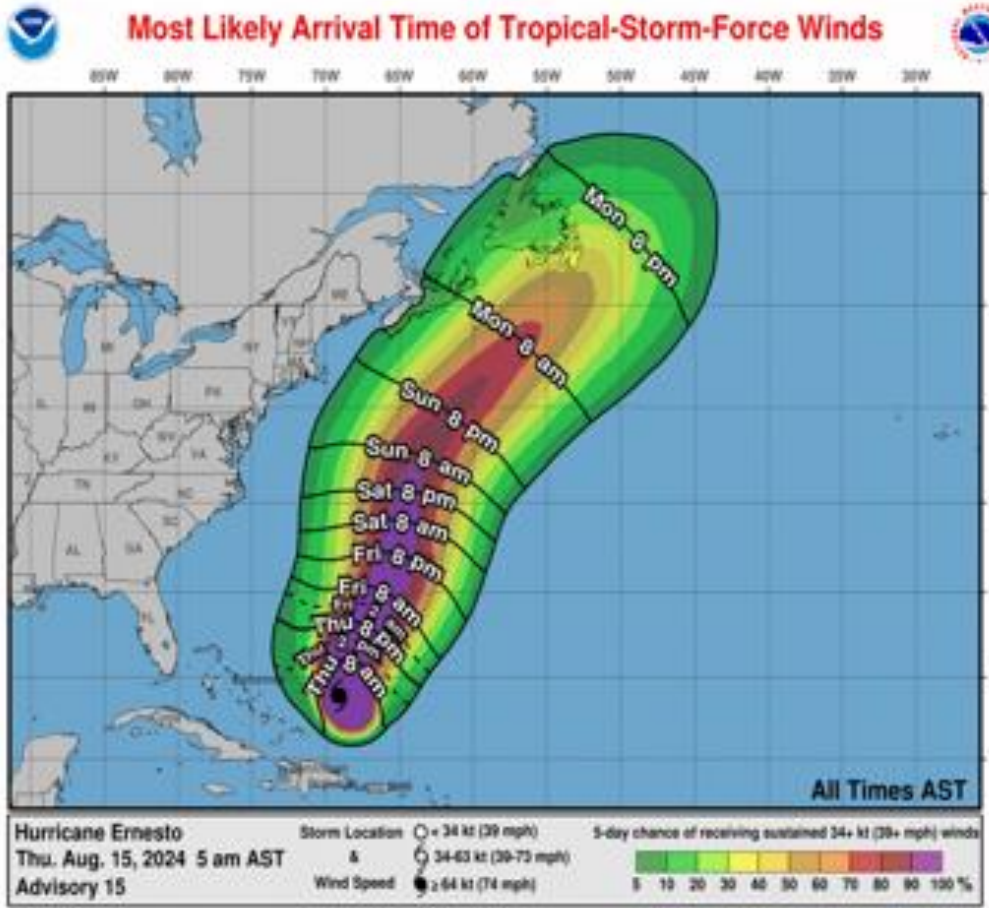
Hurricane Ernesto
Thursday August 15, 2024
5 AM AST Advisory 15
NWS National Hurricane Center

Current information: x
Center location 23.9 N 69.1 W
Maximum sustained wind 85 mph
Movement N 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 Strm
Warnings: Hurricane Trop Strm
Current wind field estimate: Hurricane Trop Strm

Most Likely Arrival Time of Tropical-Storm-Force Winds



Hurricane Ernesto
Thu. Aug. 15, 2024 5 am AST
Advisory 15

Storm Location ○ = 34 kt (39 mph)
● = 34-63 kt (39-73 mph)
● = 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

All Times AST

For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)

Winds – **High**

Storm Surge – **High**

Rainfall/Flash Flooding – **Medium**

Tornadoes – None

Waves - **High**

- Hazardous marine conditions will persist between Puerto Rico and Bermuda through Saturday



HURRICANE ERNESTO BRIEFING

This briefing was prepared by:

Eric Christensen

You can contact the Tropical Analysis and Forecast Branch at

305-229-4424

TIME of NEXT NHC Advisory:

15 UTC: 11 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