

IMPACTS FOR D7 through next 5 days

Winds – Moderate

Storm Surge – Low

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves - Moderate

TROPICAL STORM FIONA BRIEFING



8:15 AM EDT
Thursday, September 15, 2022

Prepared by:

Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

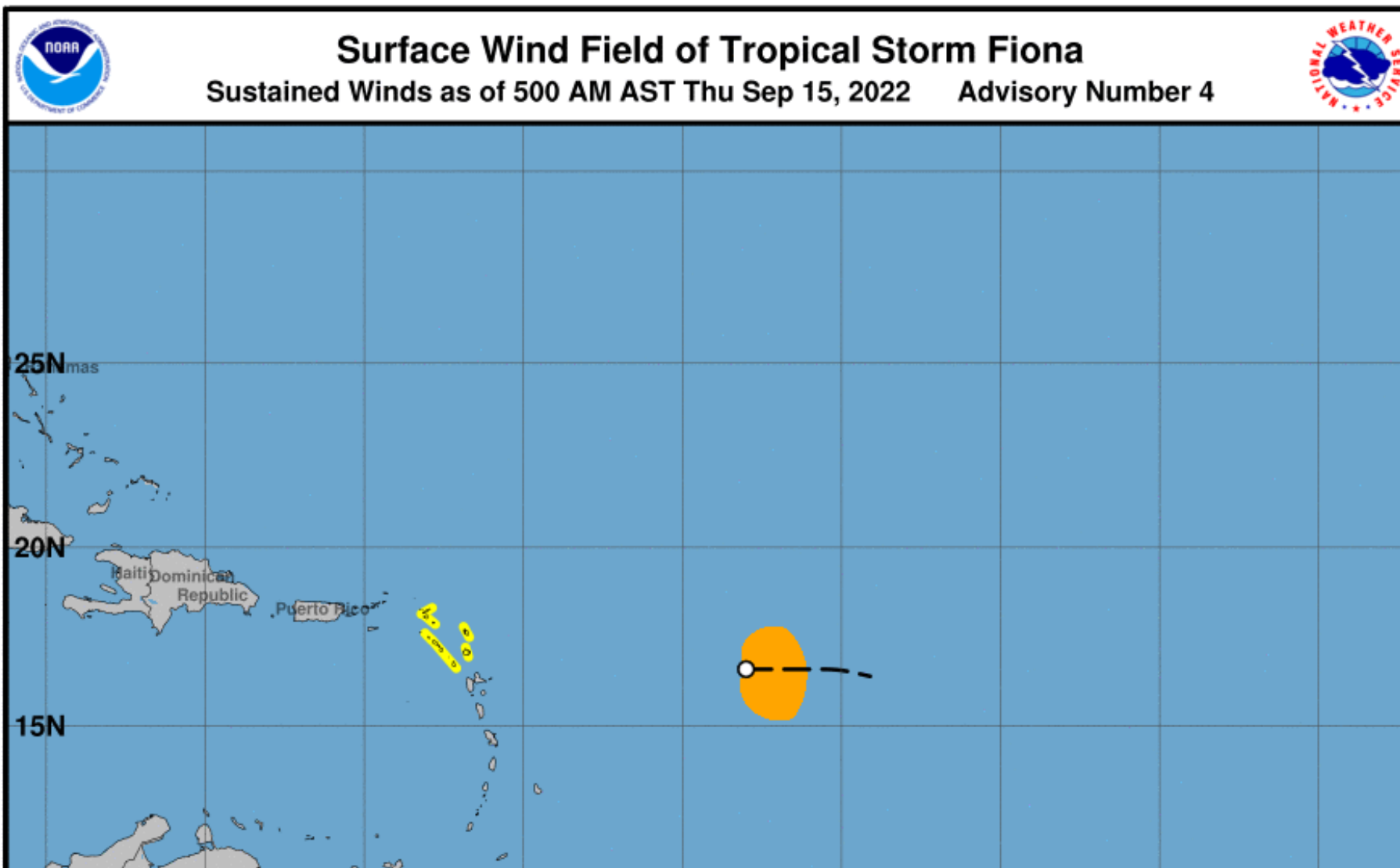


Situation Overview



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NWS National Hurricane Center

Tropical Storm Fiona

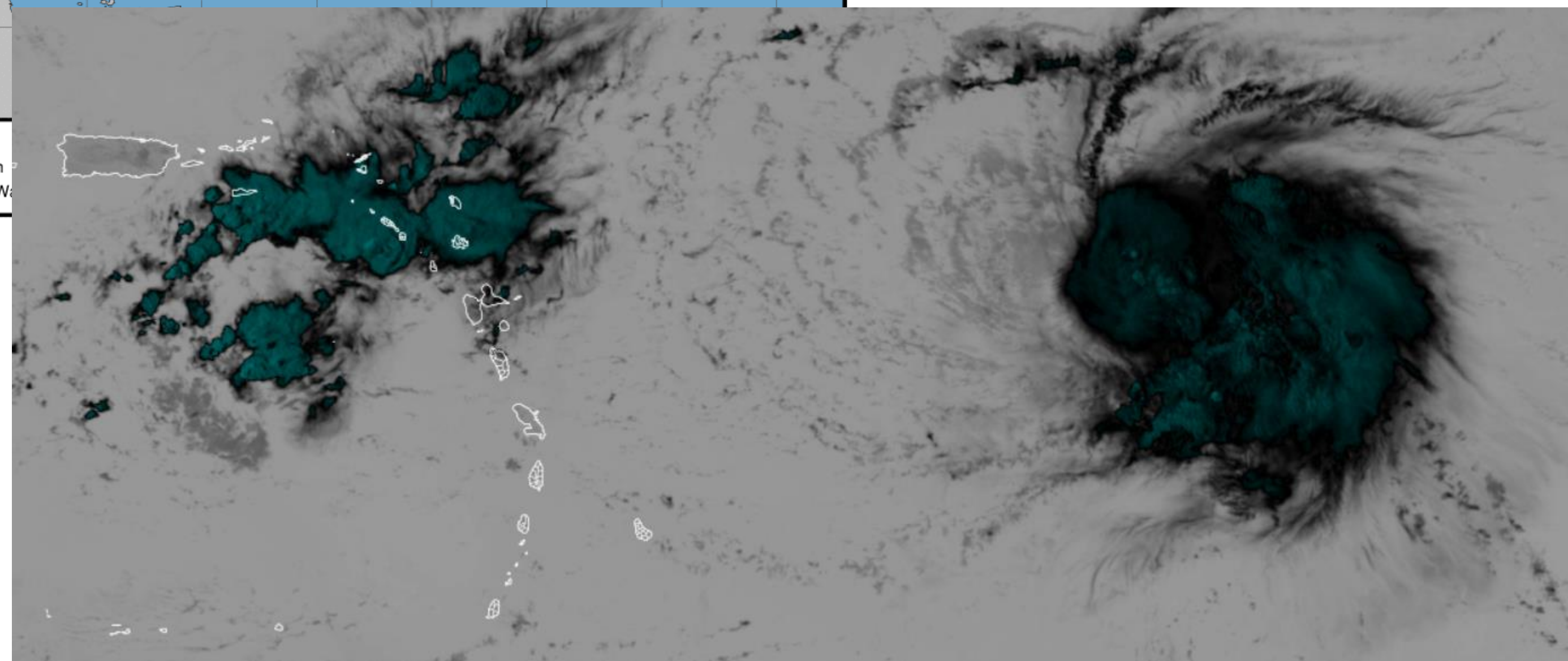


**...TROPICAL STORM
CONDITIONS LIKELY TO REACH
PORTIONS OF THE
LEEWARD ISLANDS BY FRIDAY
NIGHT...**

SUMMARY OF 800 AM EDT INFORMATION

LOCATION... 16.6N 53.6W
ABOUT 465 NM E OF THE LEEWARD IS
MAXIMUM SUSTAINED WINDS... 45 KT
PRESENT MOVEMENT... W OR 270
DEGREES AT 12 KT

SIZE
34 KT..... 100NE 120SE 0SW 0NW.
12 FT SEAS.. 120NE 60SE 0SW 150NW.

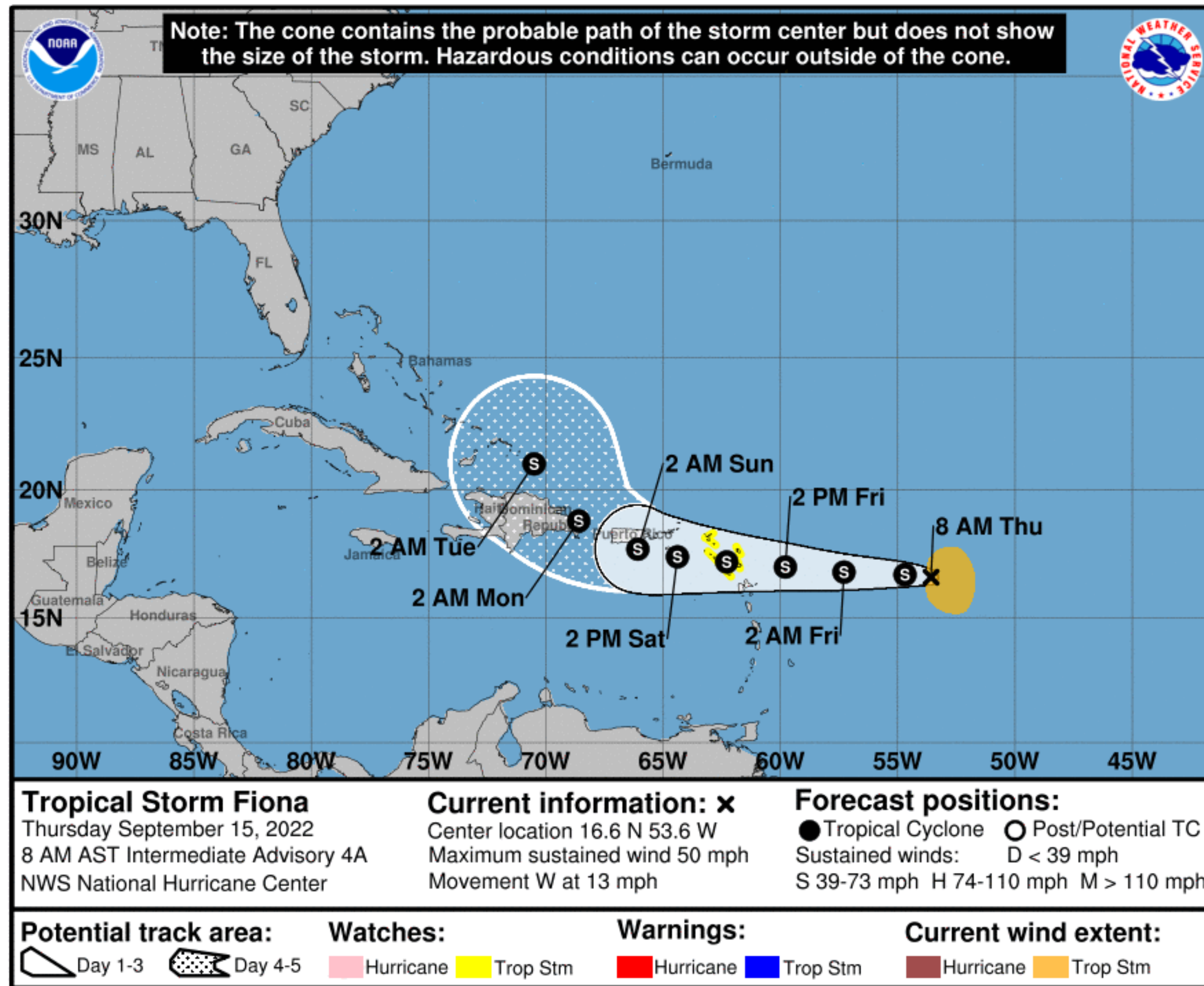


Forecast Information



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Tropical Storm Fiona



- **Fiona is expected to continue moving westward at about the same rate of speed through Saturday, then likely turn northwestward by early next week**
- **The tropical storm is not anticipated to change much with its peak winds**
- Current center forecast positions through the next 5 days 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.

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

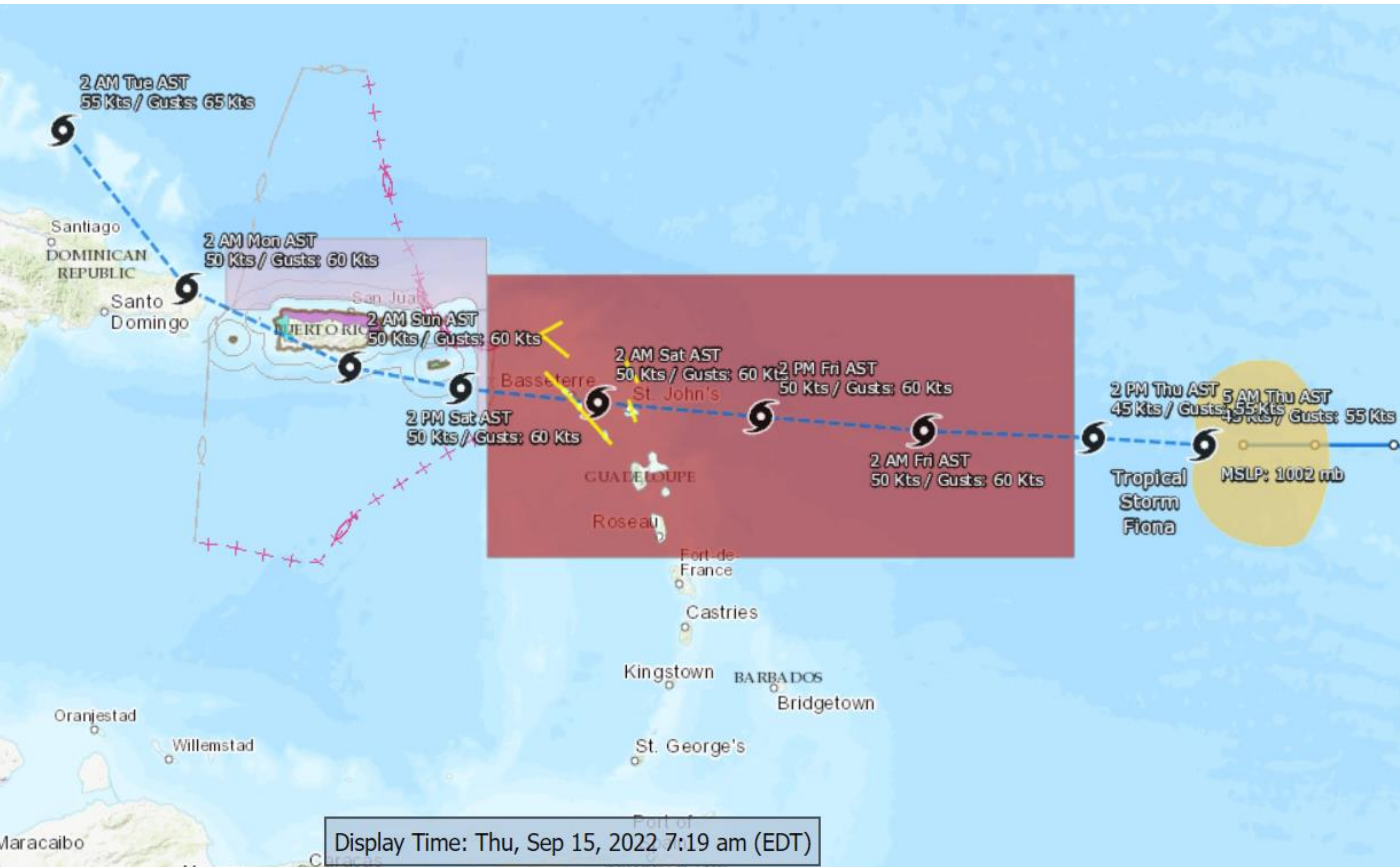
Hazards Map

Tropical Storm Fiona



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- Hurricane Warning
- Tropical Storm Warning
- Hurricane Watch
- Tropical Storm Watch
- Coastal Flood Advisory
- Small Craft Advisory
- Gale Warning
- Gale Watch



Display Time: Thu, Sep 15, 2022 7:19 am (EDT)

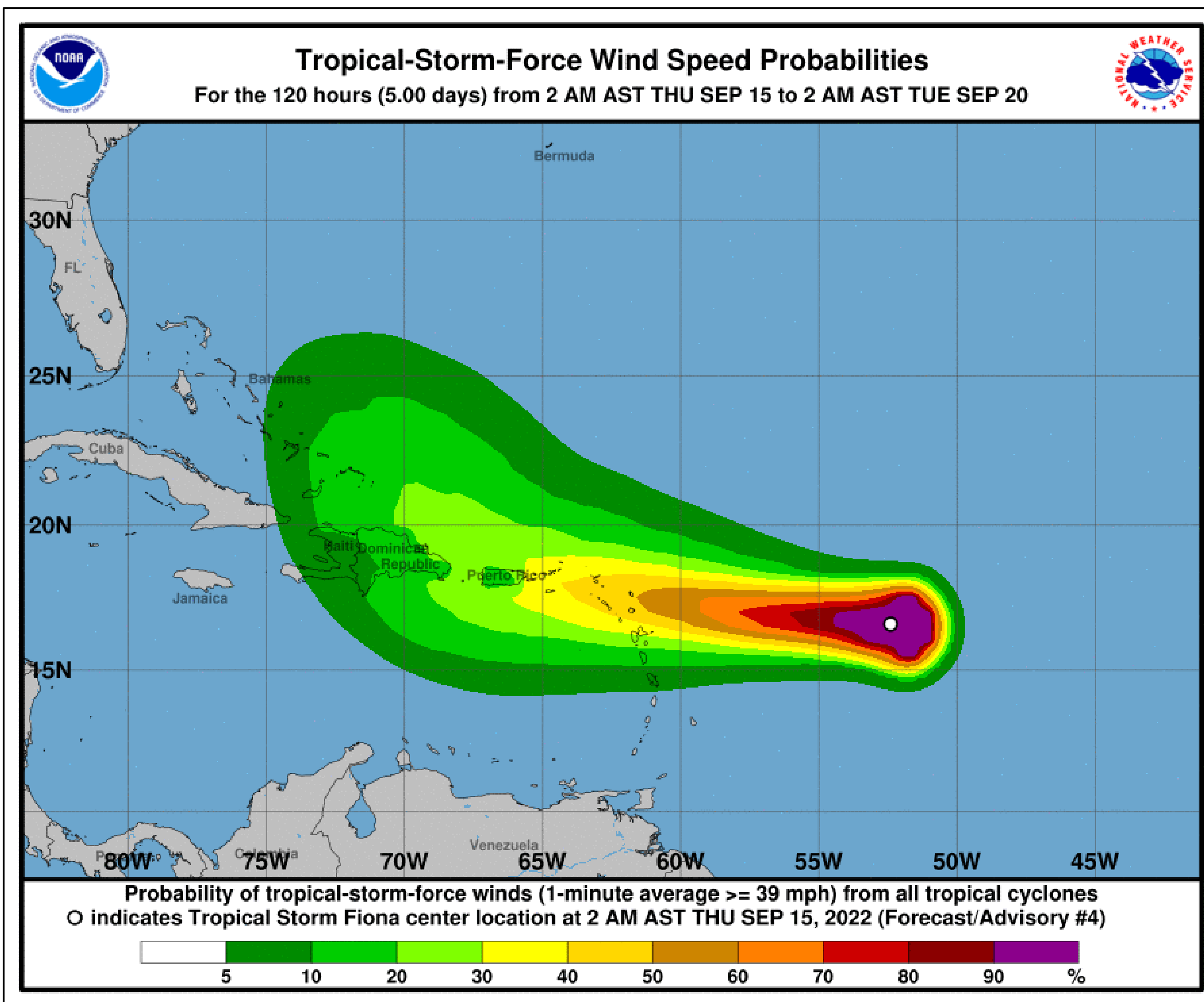
<https://nowcast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Fiona



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- **St Thomas – 40%**
- **St John – 40%**
- **St Croix – 45%**

- **Vieques, PR – 40%**
- **San Juan, PR – 20%**
- **Ponce, PR – 20%**
- **Aguadilla, PR – 35%**

- 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%.

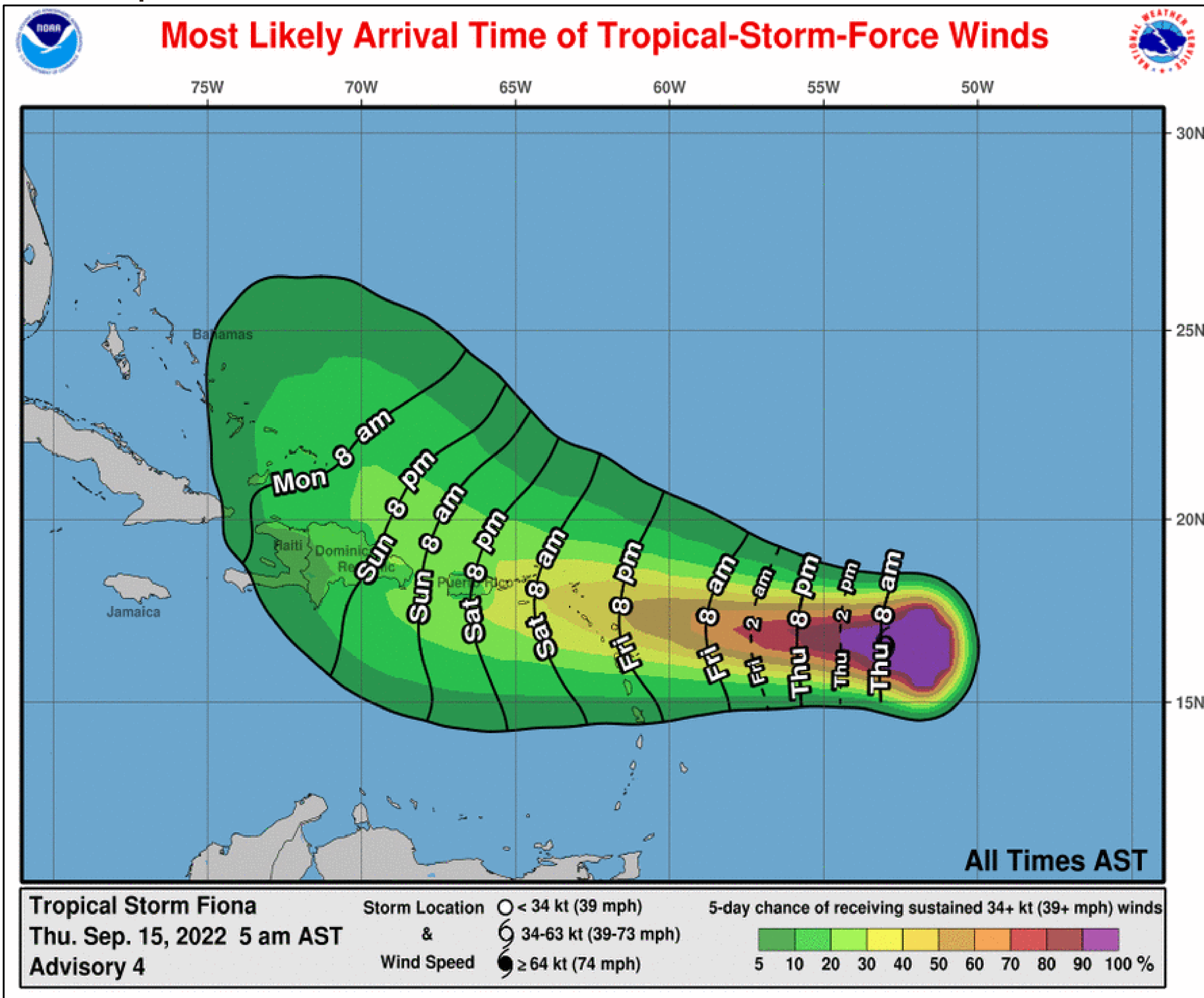
- Yellow to orange is 31-70%

- Red through purple are the highest probabilities of 71%-100%

- See the color bar below the image for more details.



Tropical Storm Fiona



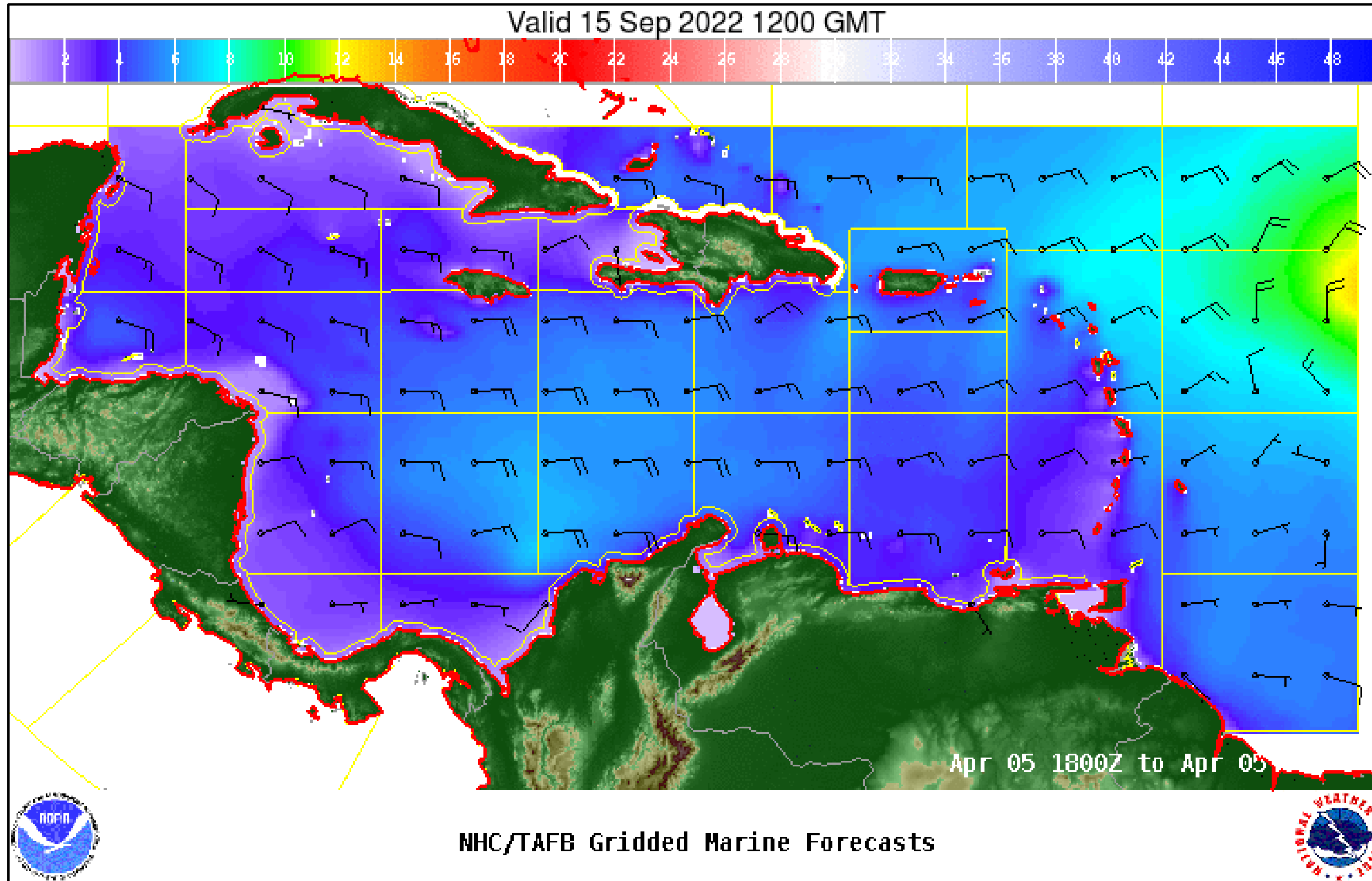
- **US Virgin Islands – Saturday morning**
- **Puerto Rico – Saturday afternoon**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- 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 Fiona



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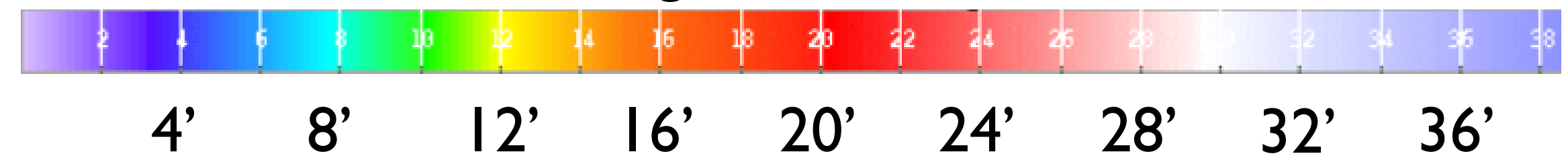
Current Conditions

8am EDT, Thursday, September 15th

Peak Winds: 45 kt

Peak Seas: 21 ft

■ Wave heights are in feet

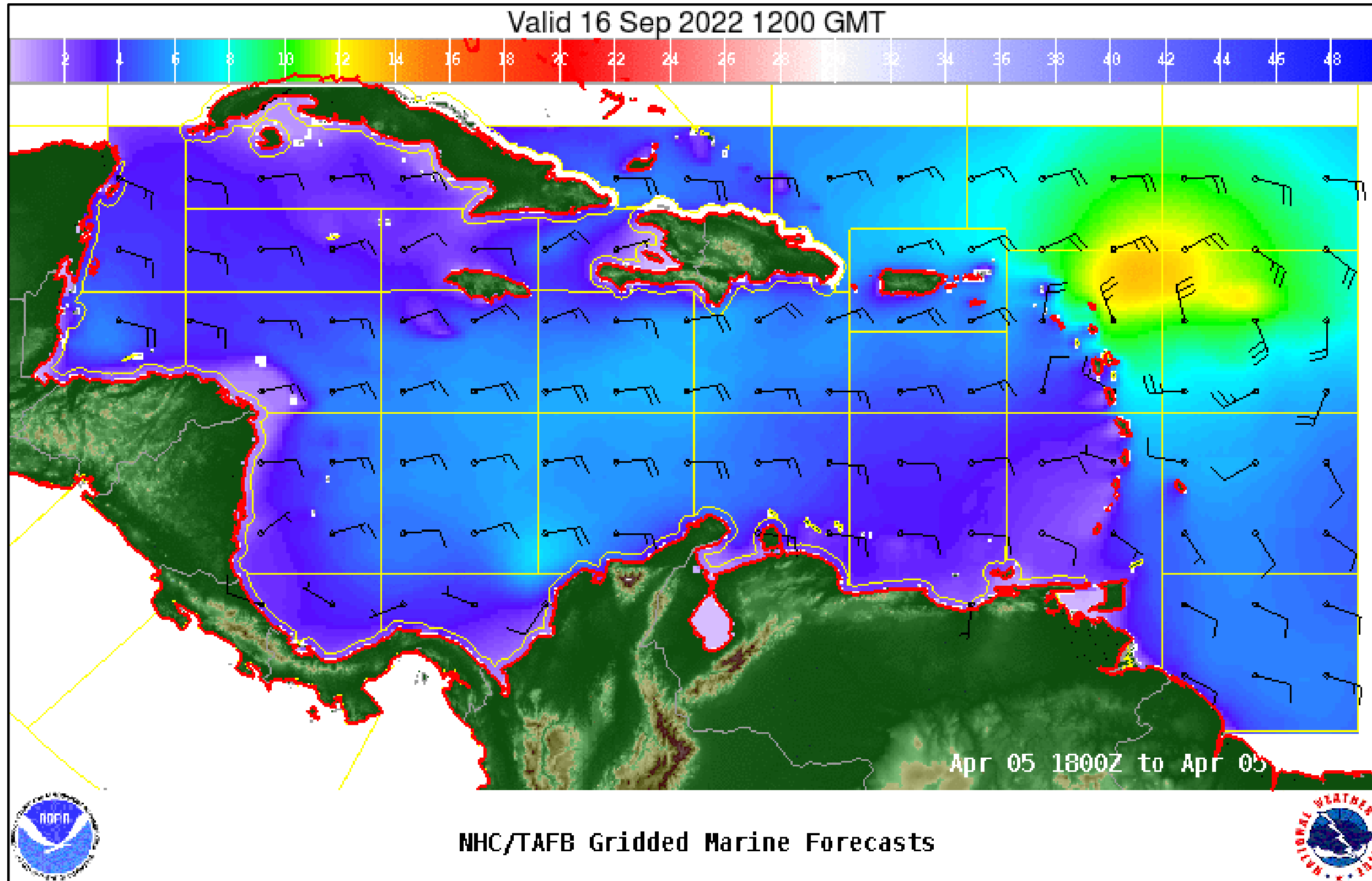


Wind And Waves

Tropical Storm Fiona



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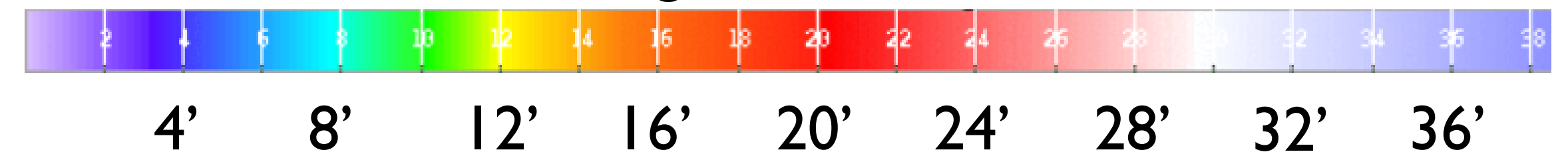
24 Hour Forecast

8am EDT, Friday, September 16th

Peak Winds: 50 kt

Peak Seas: 22 ft

■ Wave heights are in feet

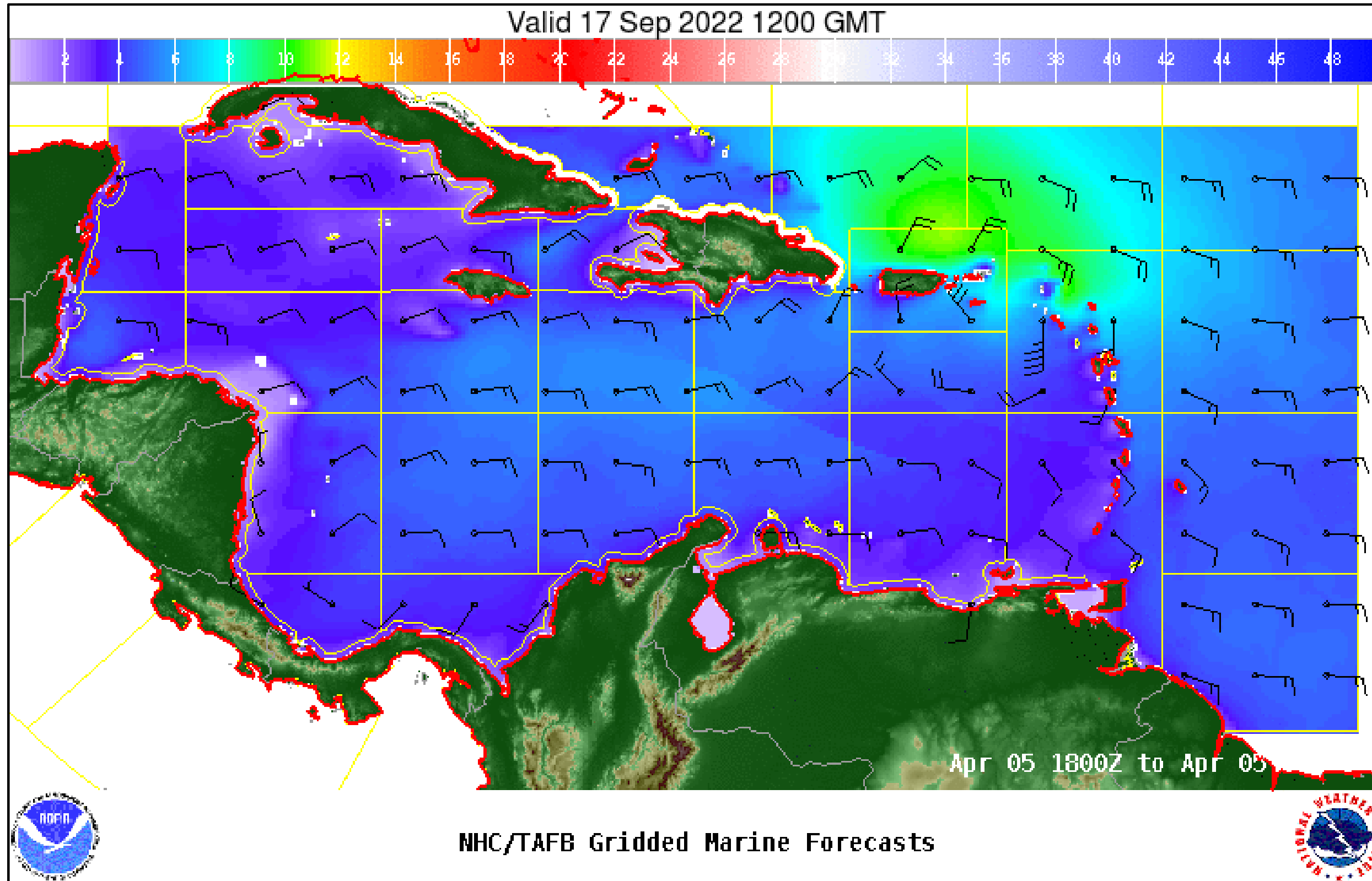


Wind And Waves

Tropical Storm Fiona



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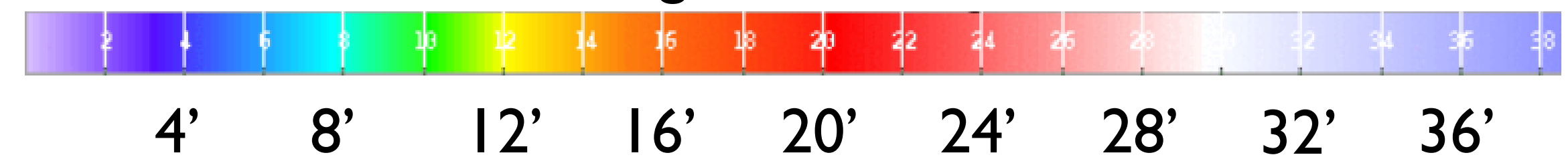
48 Hour Forecast

8am EDT, Saturday, September 17th

Peak Winds: 50 kt

Peak Seas: 20 ft

■ Wave heights are in feet

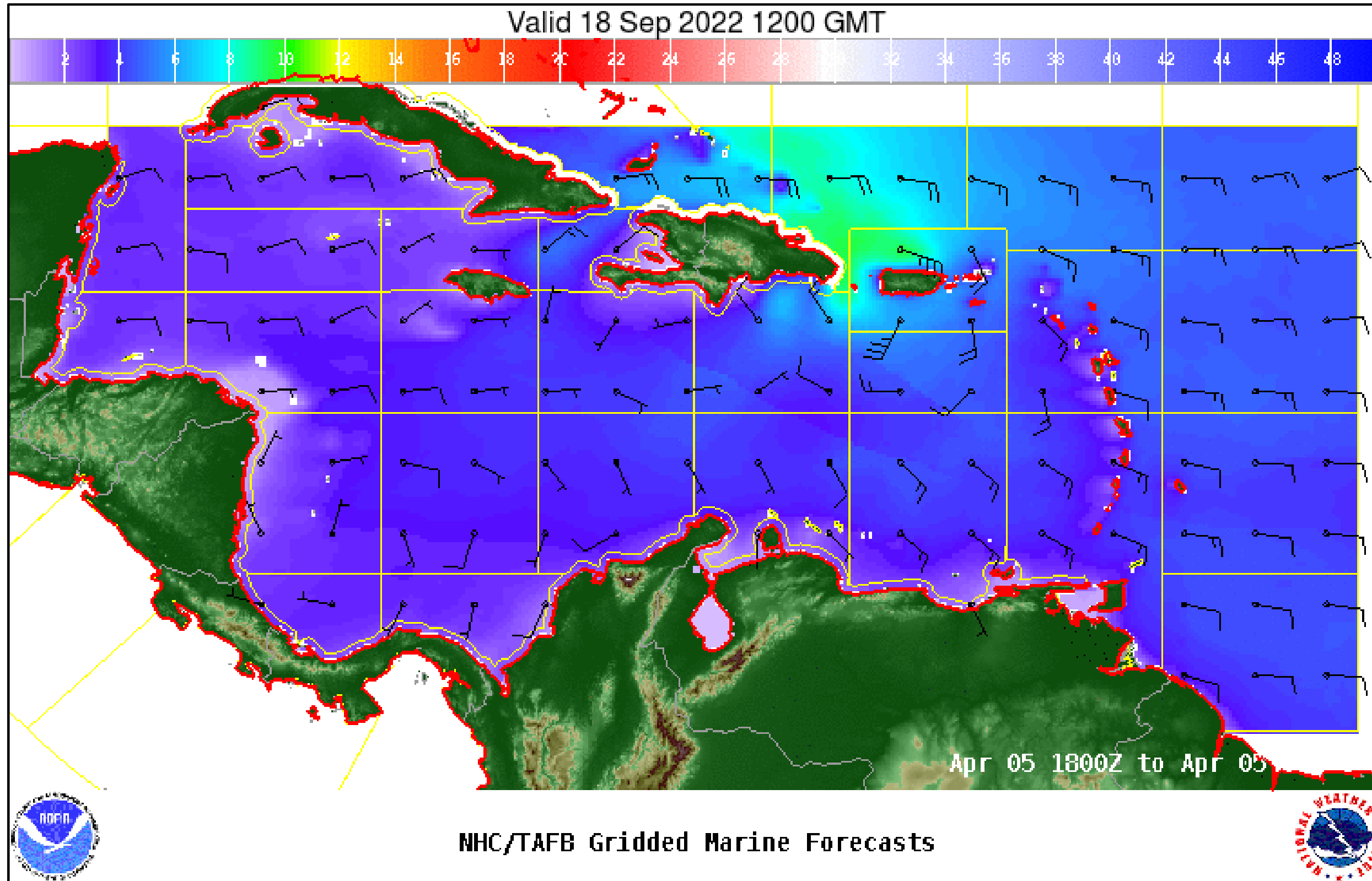


Wind And Waves

Tropical Storm Fiona



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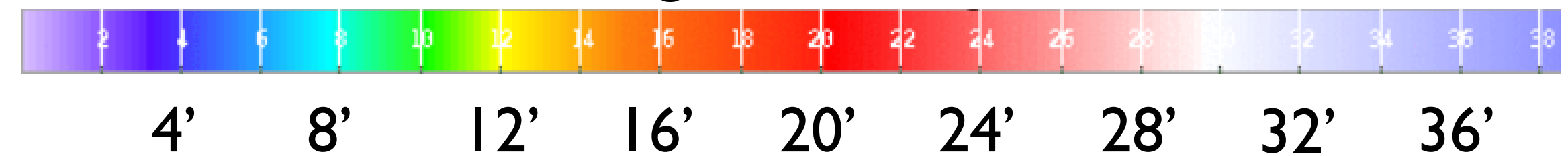
72 Hour Forecast

8am EDT, Sunday, September 18th

Peak Winds: 50 kt

Peak Seas: 18 ft

■ Wave heights are in feet

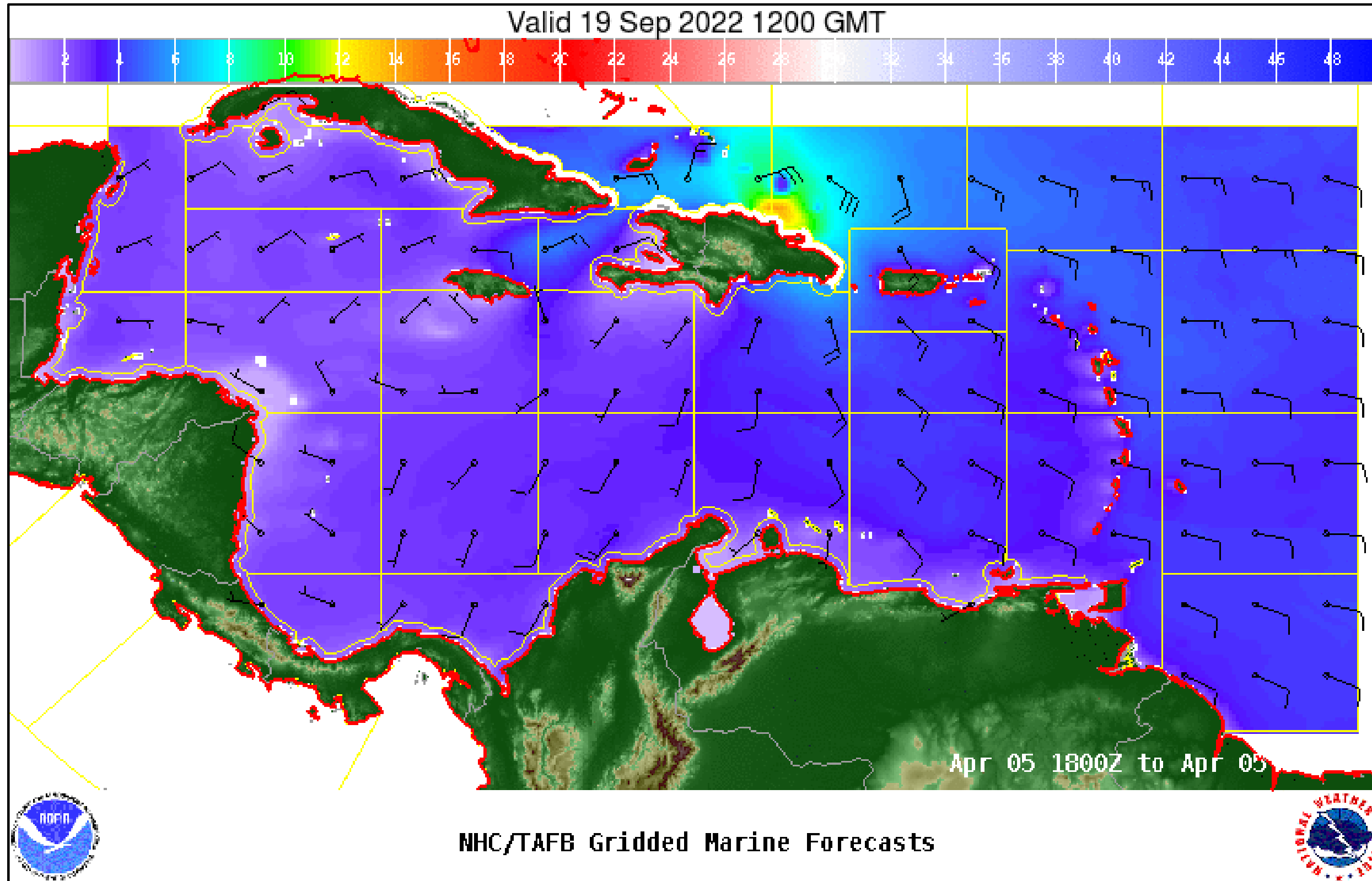


Wind And Waves

Tropical Storm Fiona



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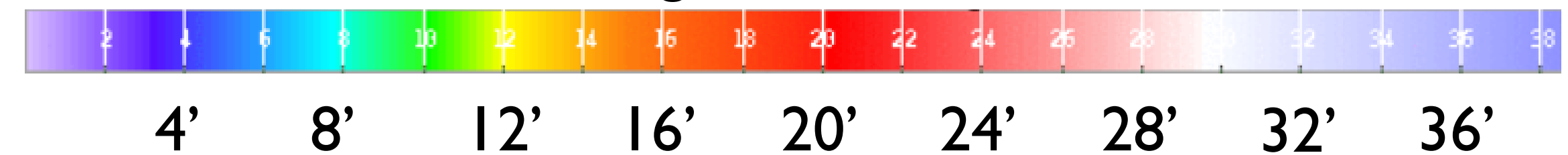
96 Hour Forecast

8am EDT, Monday, September 19th

Peak Winds: 50 kt

Peak Seas: 20 ft

■ Wave heights are in feet



Expected Storm Total Rainfall

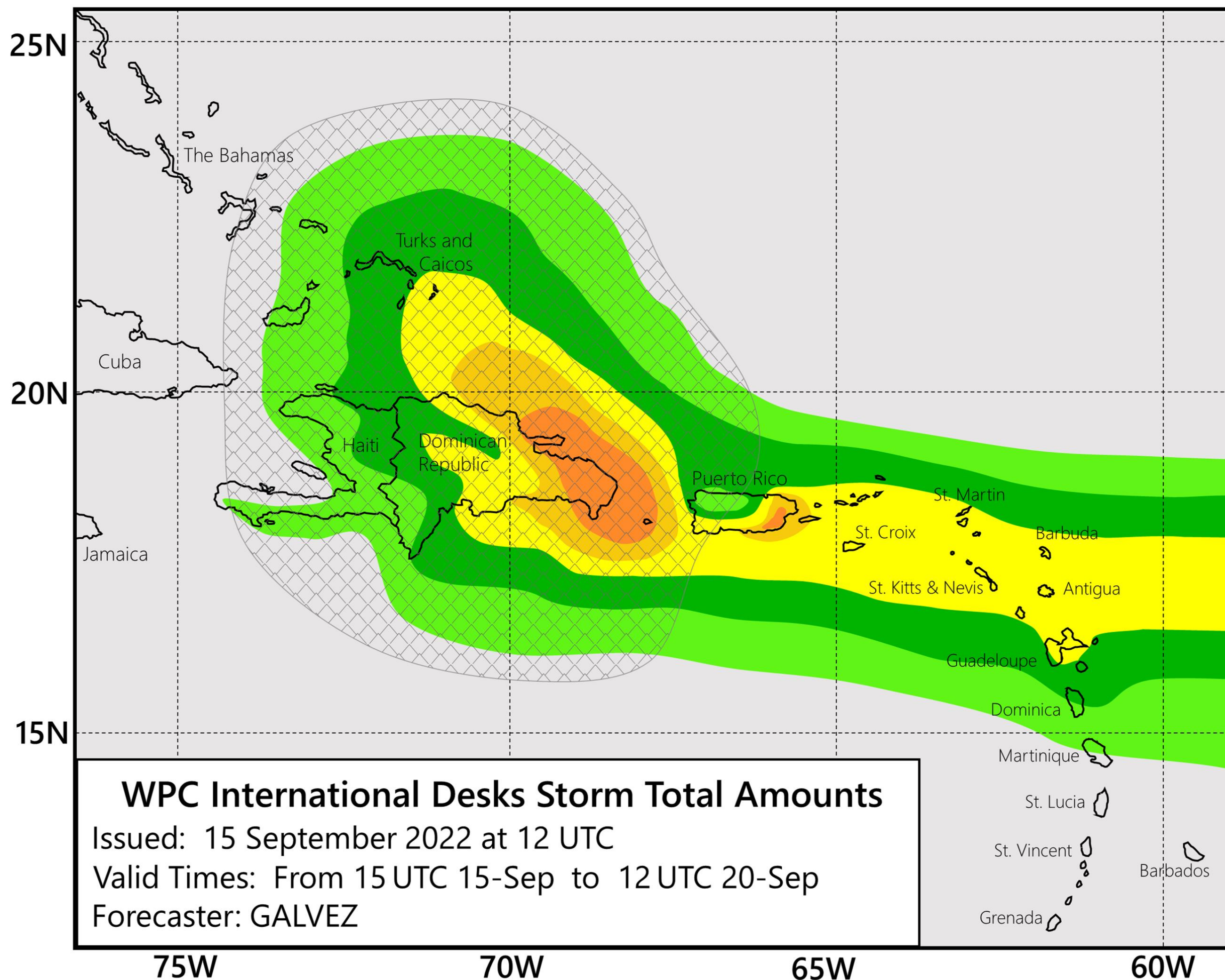


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Tropical Storm Fiona

Images from NWS Weather Prediction Center

Tropical Storm Fiona Total 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

 Lower Confidence

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

- Total rainfall in inches through Tuesday morning.

Key Messages

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Key Messages for Tropical Storm Fiona

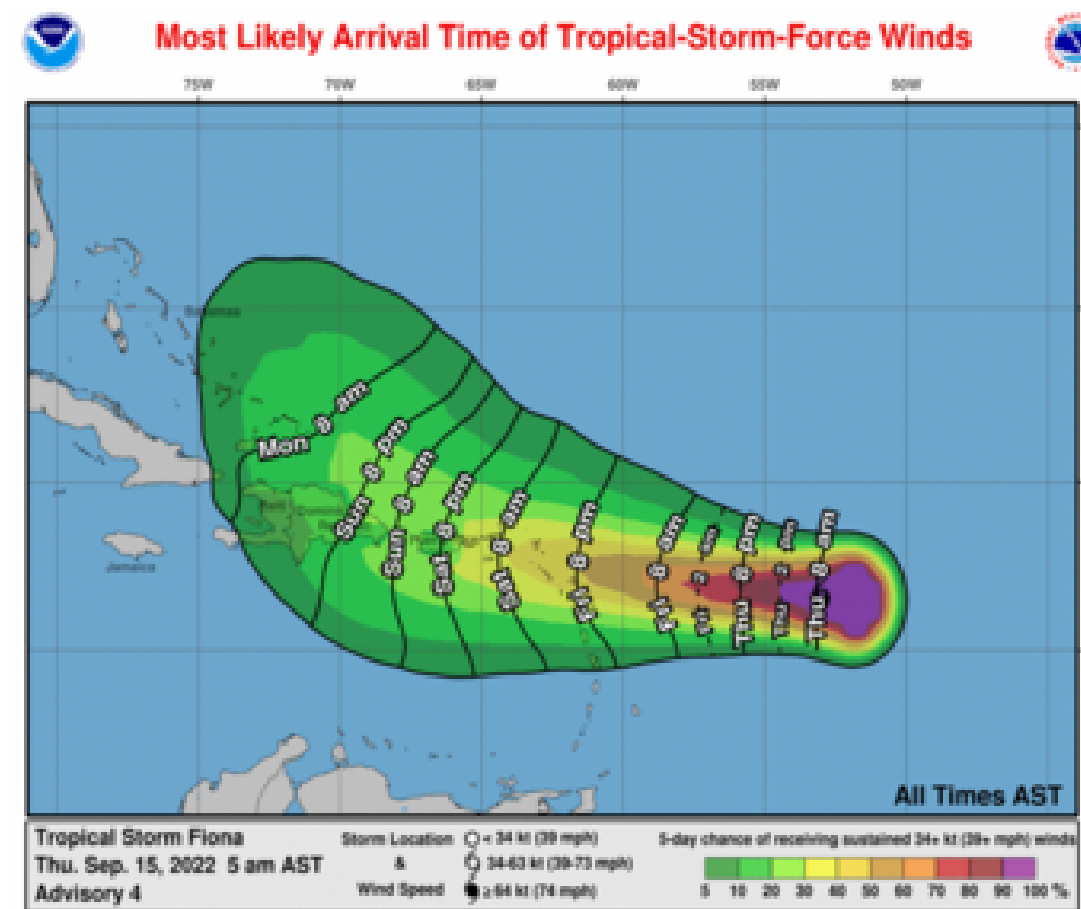
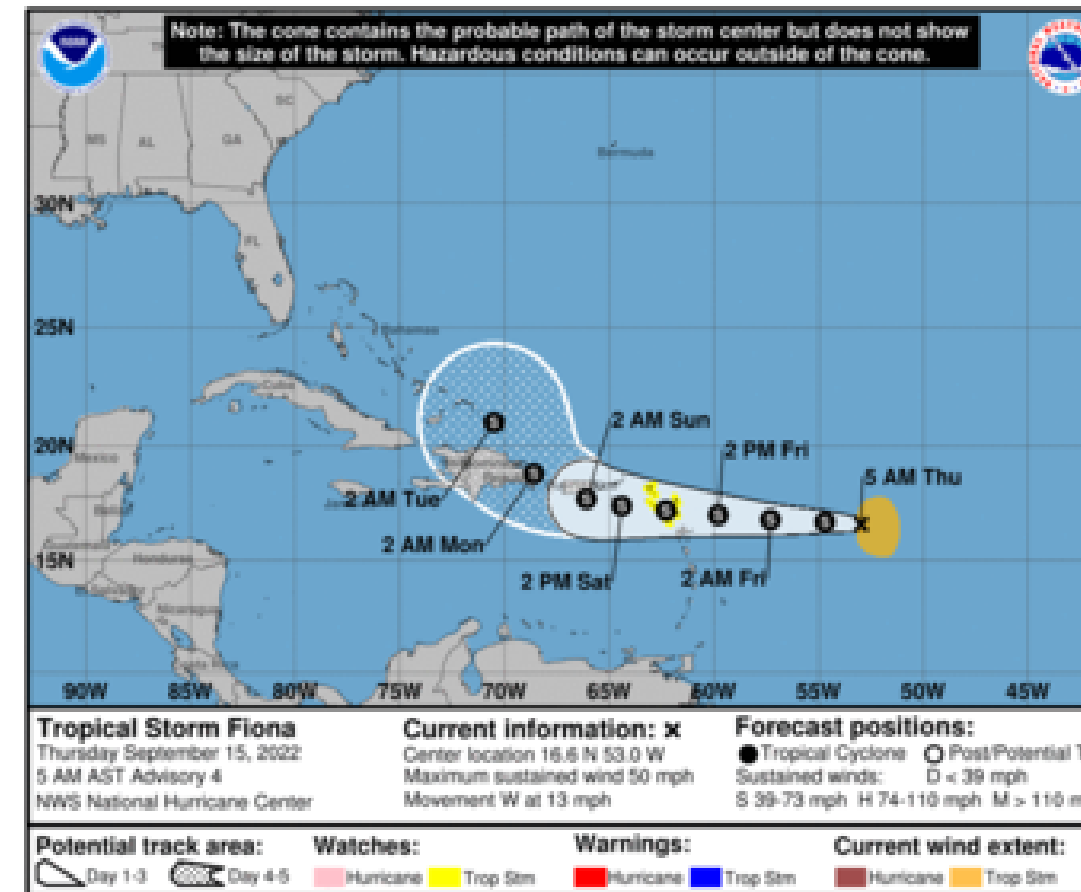
Advisory 4: 5:00 AM AST Thu Sep 15, 2022



1. Tropical storm conditions are possible in portions of the northern Leeward Islands by Friday night, where a Tropical Storm Watch has been issued.

2. Heavy rains from Fiona will reach the northern Leeward Islands Friday afternoon, spreading to the British and U.S. Virgin Islands and Puerto Rico Saturday into Sunday morning, and reaching eastern Hispaniola Sunday. This rainfall may produce flash and urban flooding, along with isolated mudslides in areas of higher terrain.

3. Fiona is expected to move near the Virgin Islands, Puerto Rico, and Hispaniola this weekend and early next week, and Tropical Storm Watches will likely be issued for some of those areas later today.



For more information go to hurricanes.gov

- **Marine Key Messages:**
- Seas to build to 15-20 ft just north of Puerto Rico and US Virgin Islands starting Friday night and subsiding by Sunday night

IMPACTS FOR **D7** through next 5 days

Winds – Moderate

Storm Surge – Low

Rainfall/Flash Flooding – Moderate

Tornadoes – Low

Waves - Moderate



TROPICAL STORM FIONA BRIEFING

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

*The Next Briefing Will Be:
Friday 8:15 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