

**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  
Friday, September 16, 2022

Prepared by:  
**Nelsie Ramos**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



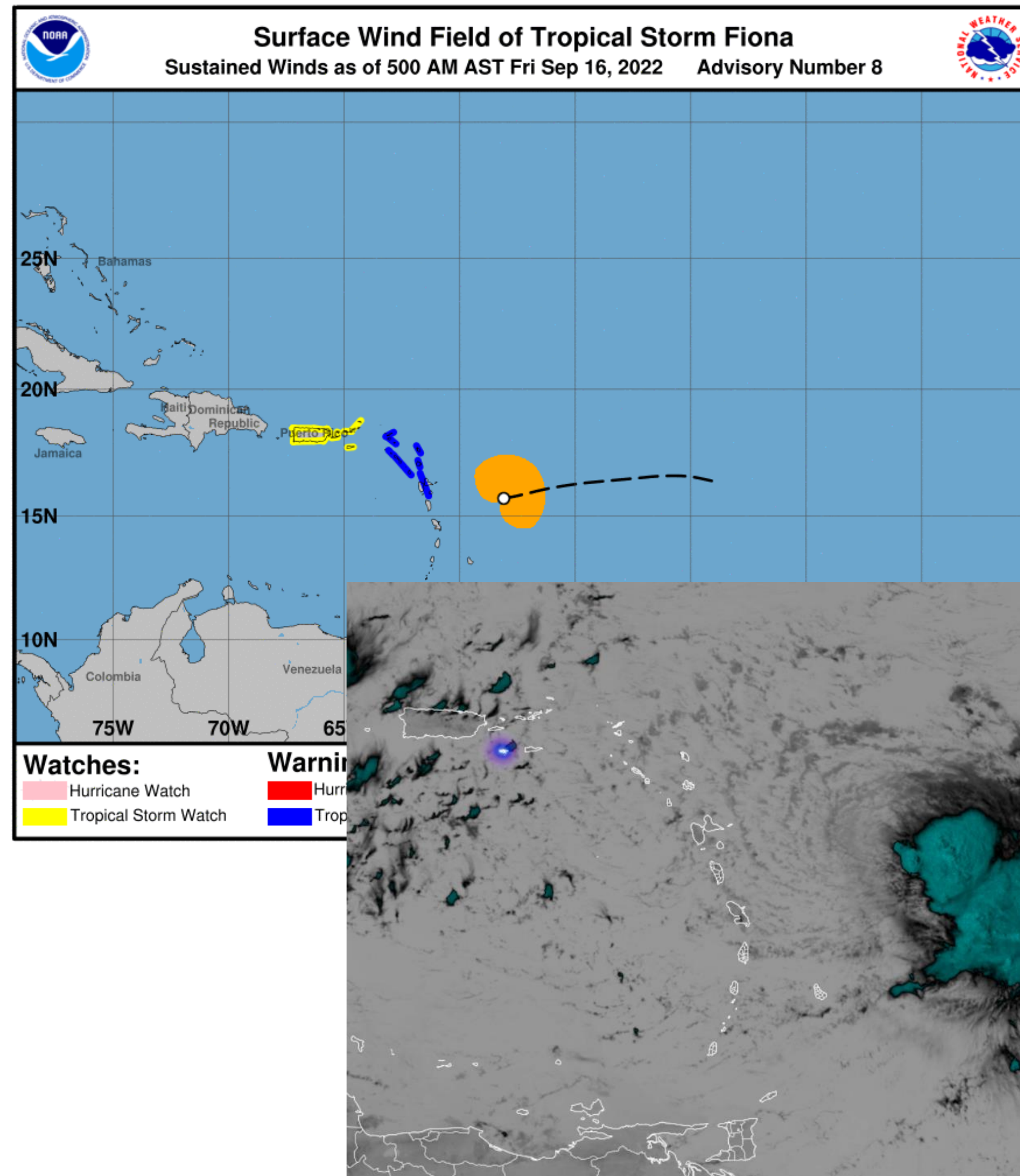


# Situation Overview

## Tropical Storm Fiona



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NWS National Hurricane Center



**...TROPICAL STORM CONDITIONS AND HEAVY RAINS ARE EXPECTED TO REACH THE LEEWARD ISLANDS THIS EVENING...**

SUMMARY OF 500 AM EDT...INFORMATION

LOCATION...15.7N 58.1W

ABOUT 225 N MI ESE OF THE LEEWARD ISLANDS

MAXIMUM SUSTAINED WINDS...45 KT

PRESENT MOVEMENT...W OR 260 DEGREES AT 13 KT

34 KT.....110NE 100SE 0SW 100NW

12 FT SEAS..270NE 90SE 60SW 240NW

PEAK SEAS 22 FT

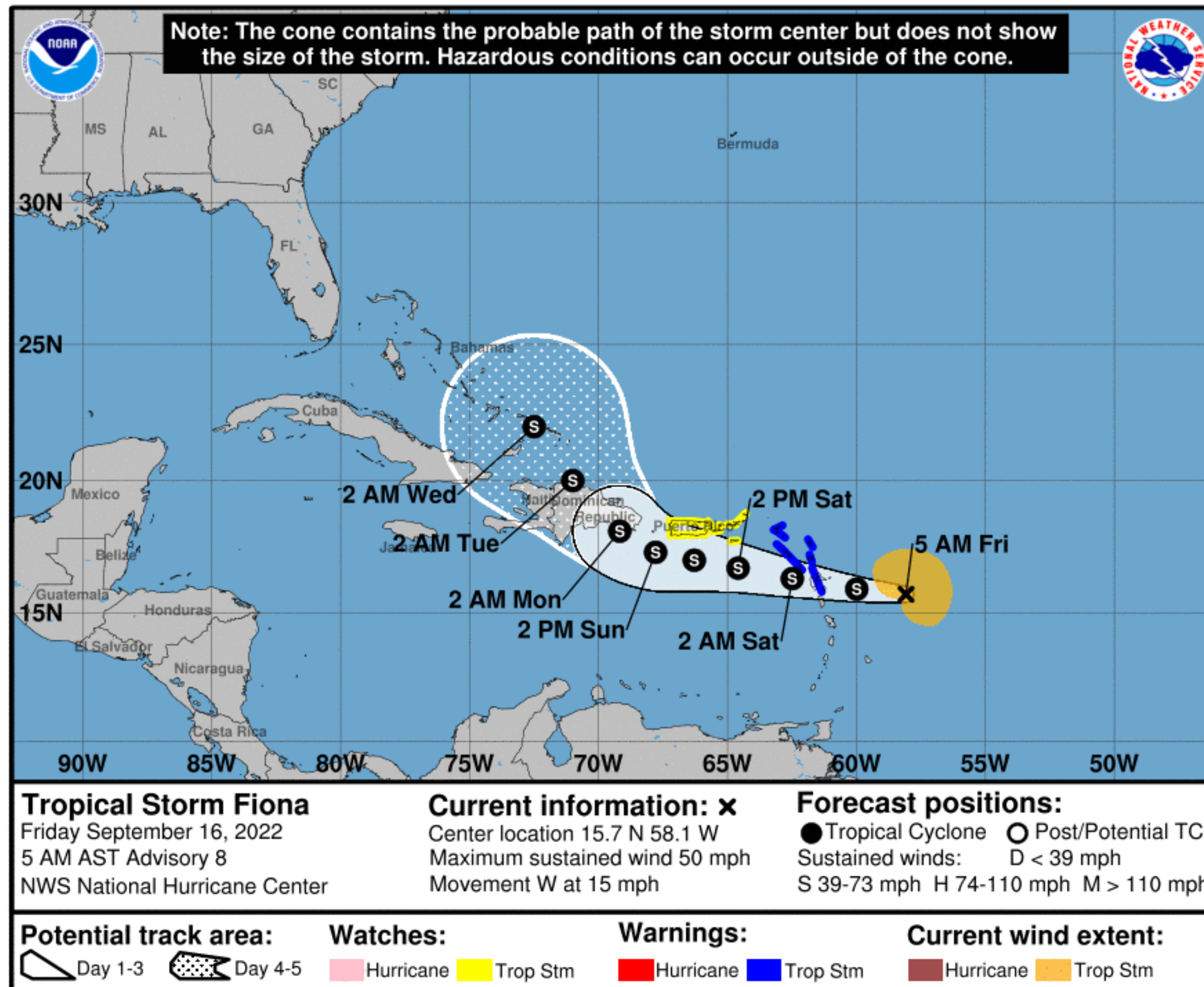


# Forecast Information

## Tropical Storm Fiona



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

- **A westward track is expected through Sunday with a NW turn likely Sunday night or Monday**
- **Some strengthening is anticipated before making landfall in Hispaniola Sunday or Monday**
- 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.

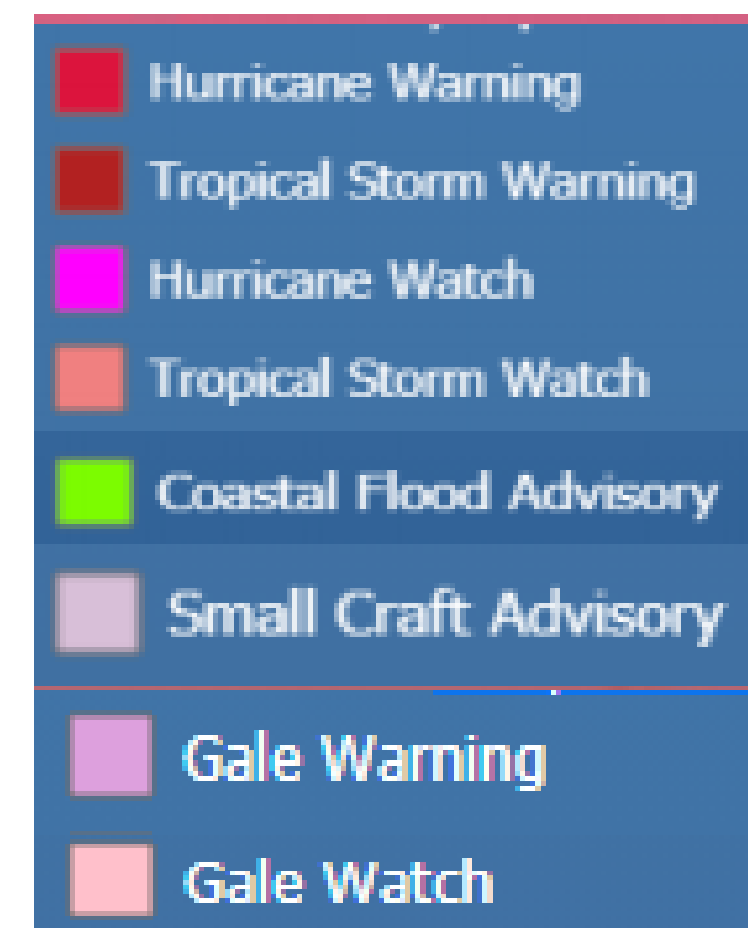
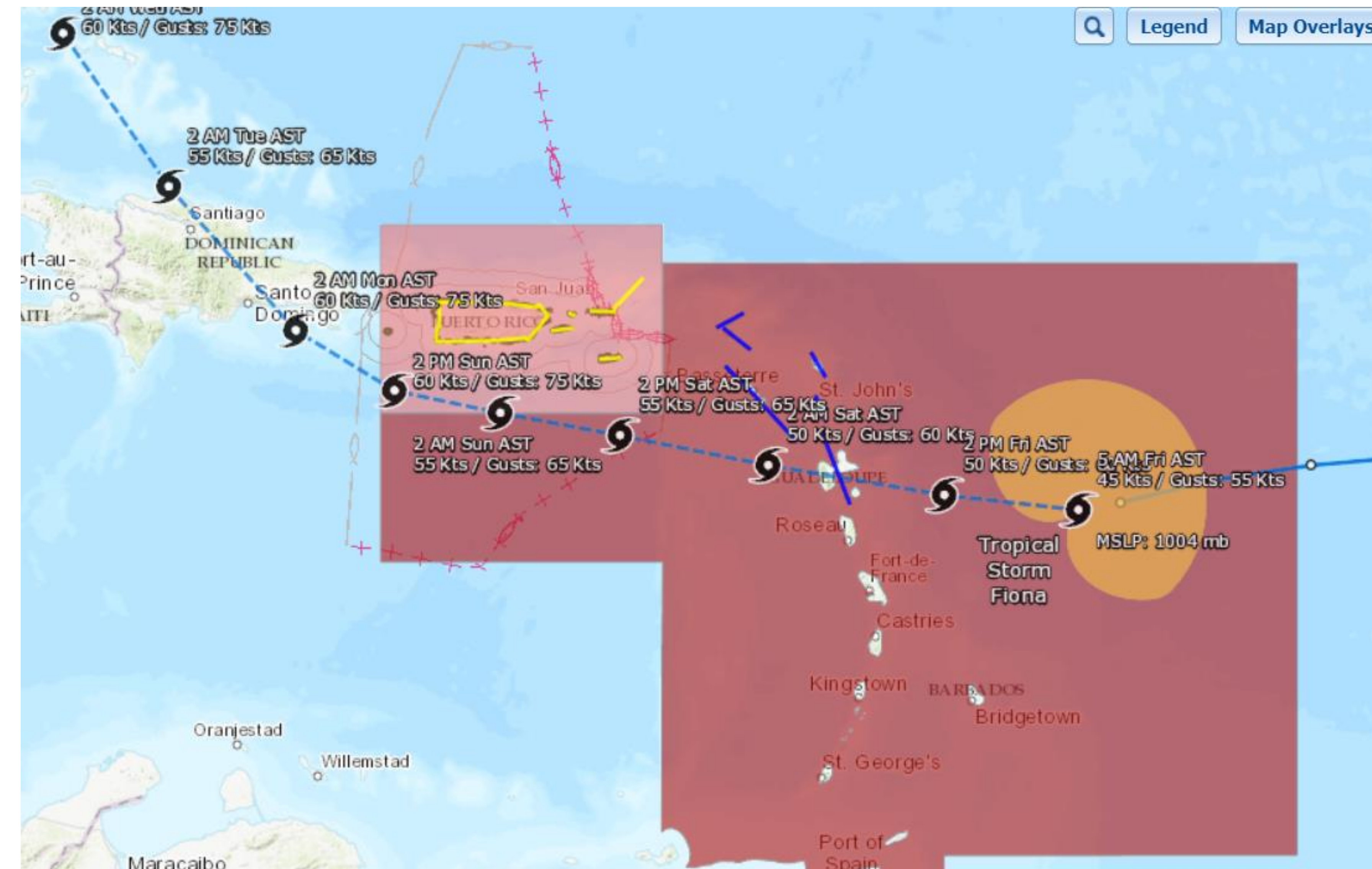


# Hazards Map

## Tropical Storm Fiona



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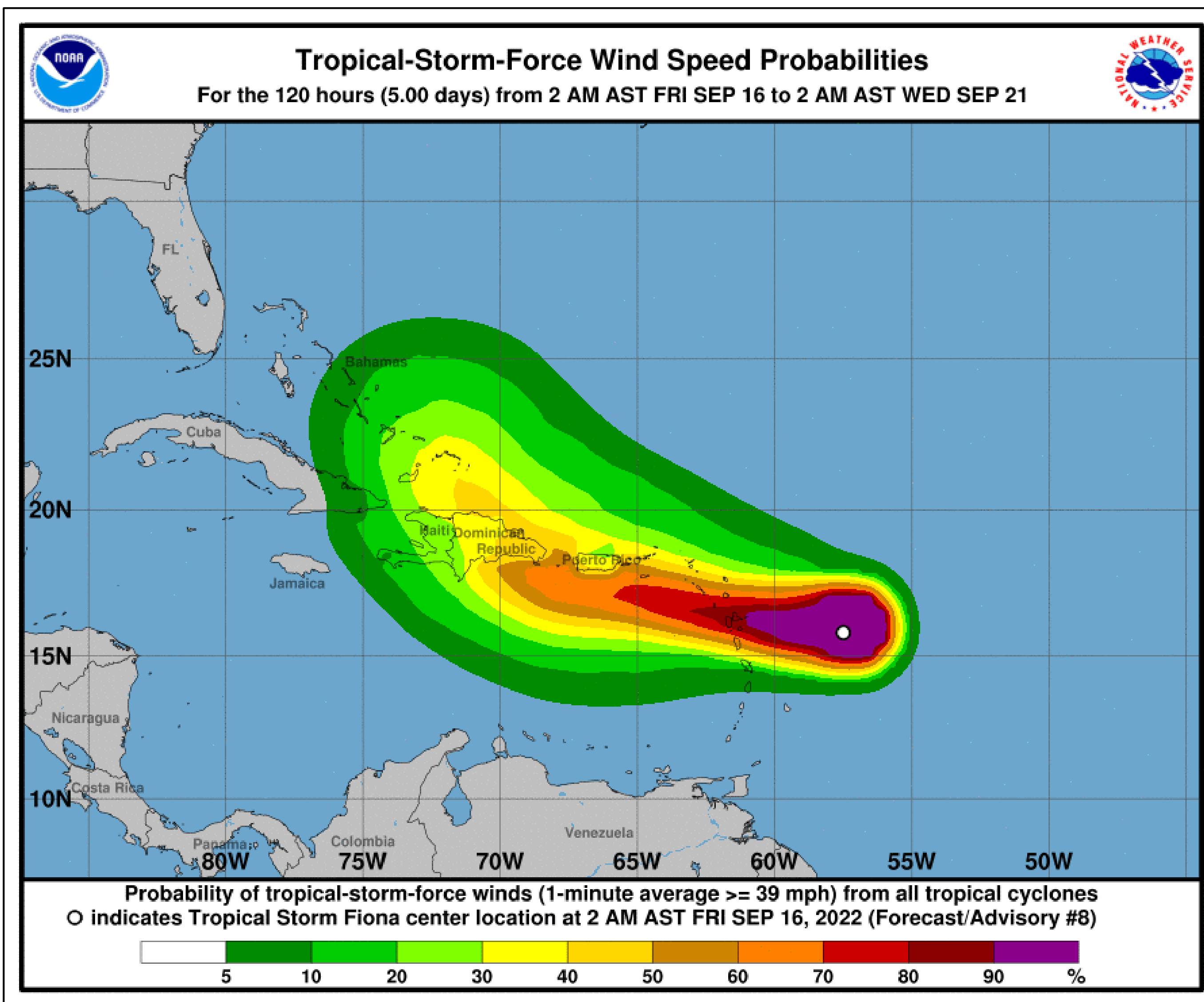


# T.S. Wind Speed Probabilities

Tropical Storm Fiona



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- **St Thomas 45%**
- **St John 45%**
- **St Croix 65%**

- **Vieques 55%**
- **San Juan 30%**
- **Ponce 40%**
- **Aguadilla 50%**

- 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.

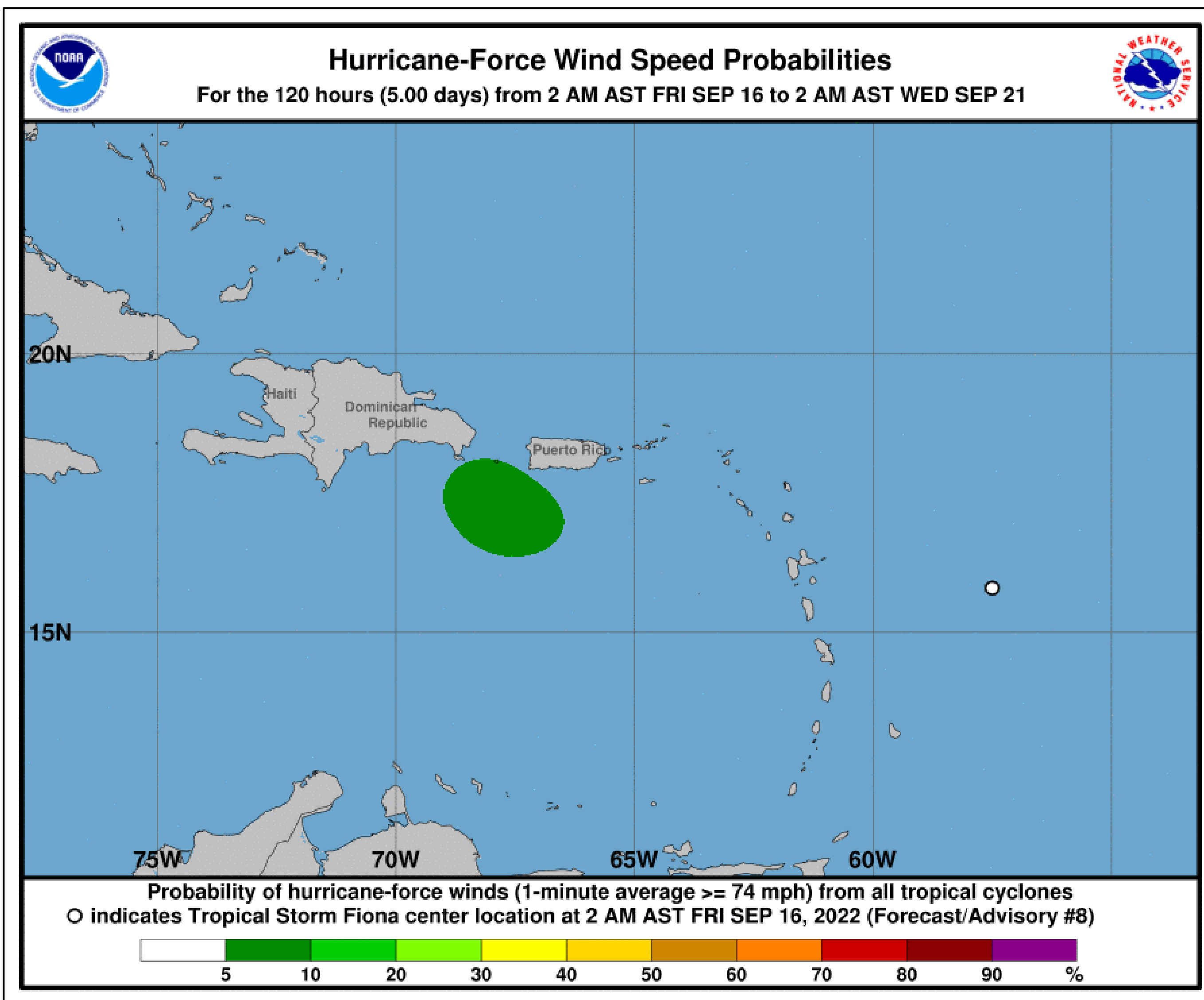


# Hurricane Wind Speed Probabilities

Tropical Storm Fiona



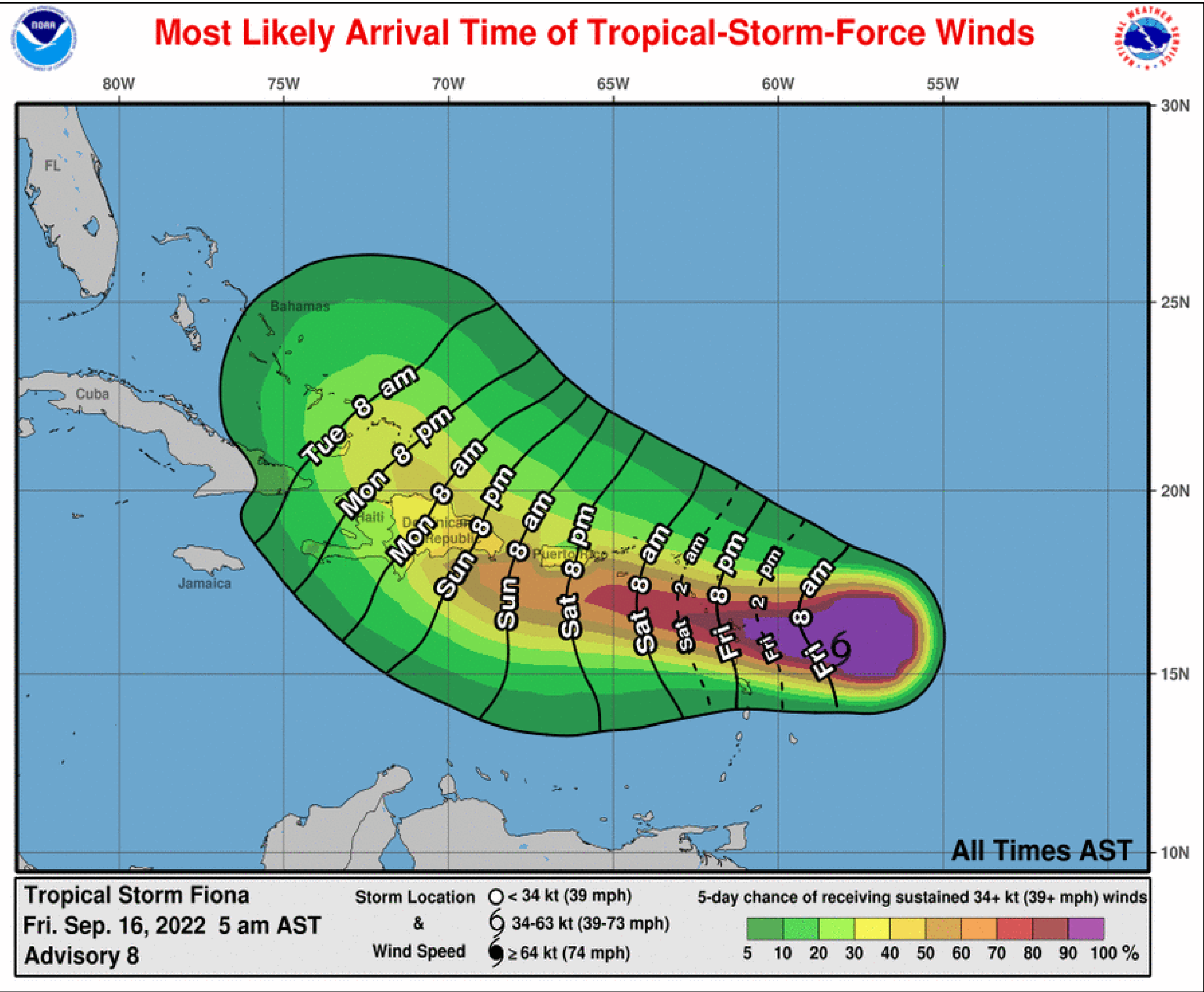
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NWS National Hurricane Center



- **For U.S. Virgin Islands and Puerto Rico all locations less than 5 %**
- 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.



Tropical Storm Fiona



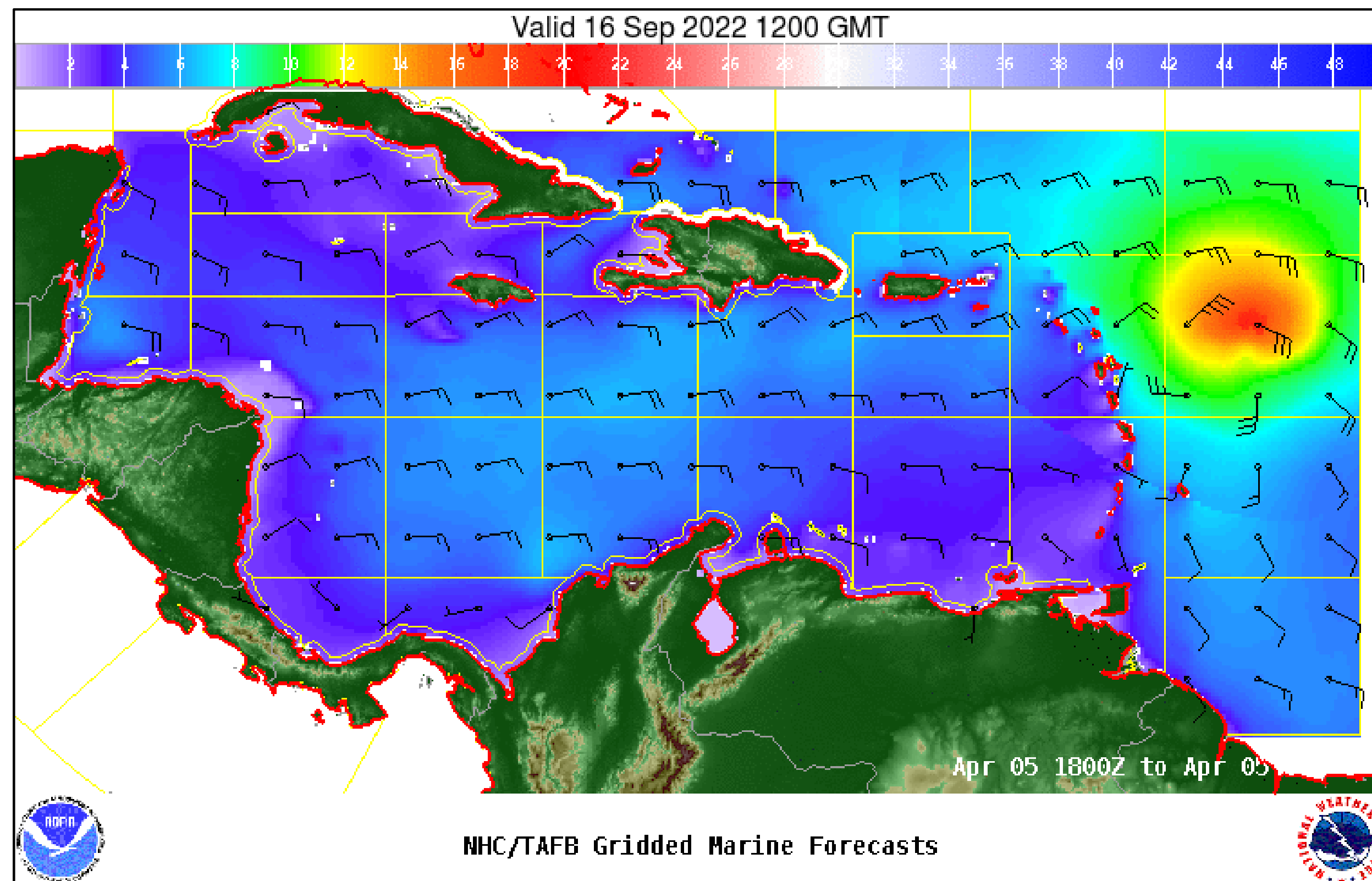
- **U.S. Virgin Islands Saturday near Noon**
- **Puerto Rico Saturday afternoon**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%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

8 AM EDT Friday September 16

Peak Winds: 45 KT

Peak Seas: 22 FT

■ Wave heights are in feet



4' 8' 12' 16' 20' 24' 28' 32' 36'

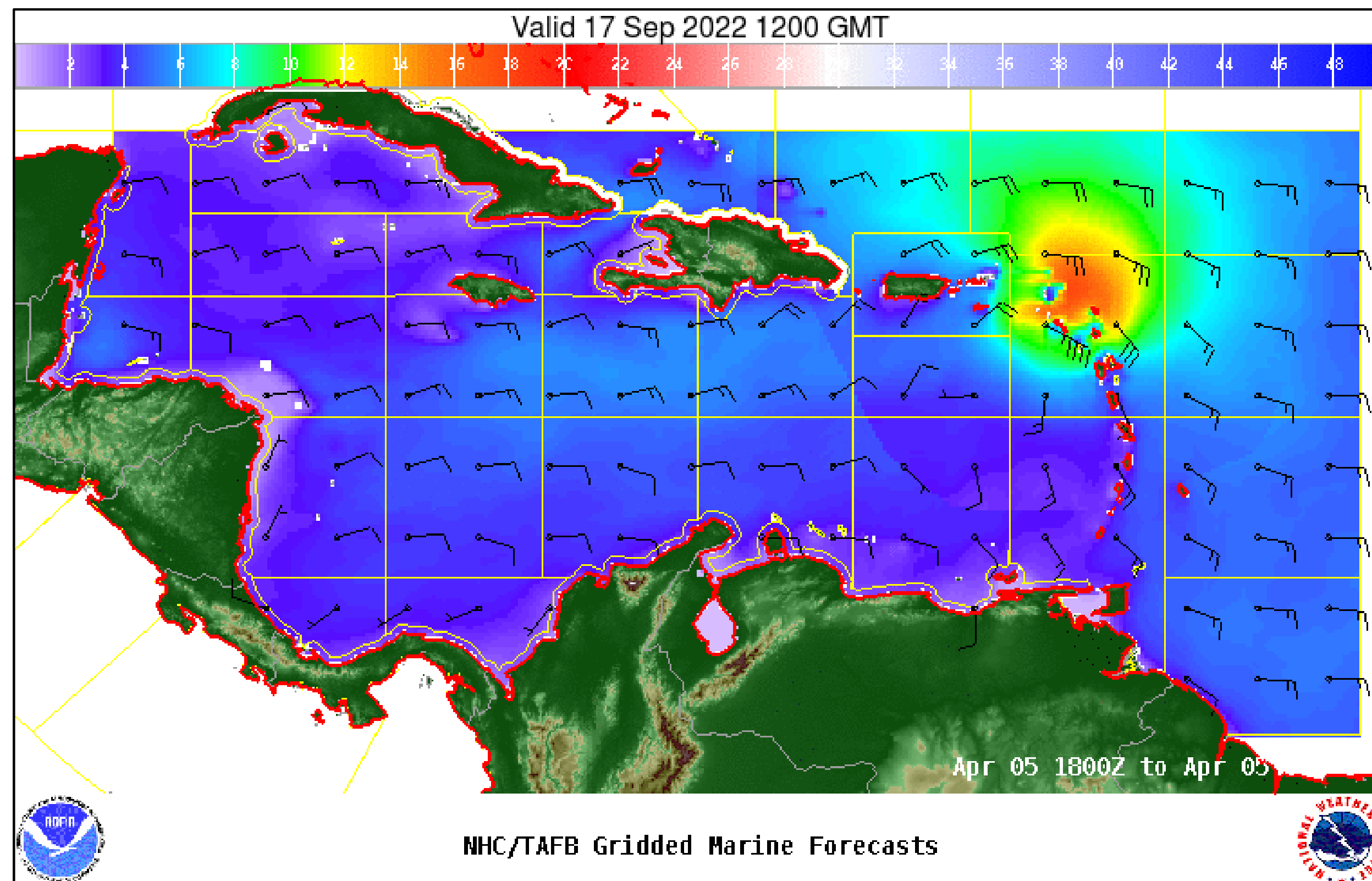


# Wind And Waves

Tropical Storm Fiona



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24 Hour Forecast

**8 AM EDT Saturday September 17**

Peak Winds: 50 KT

Peak Seas: 22 FT

■ Wave heights are in feet



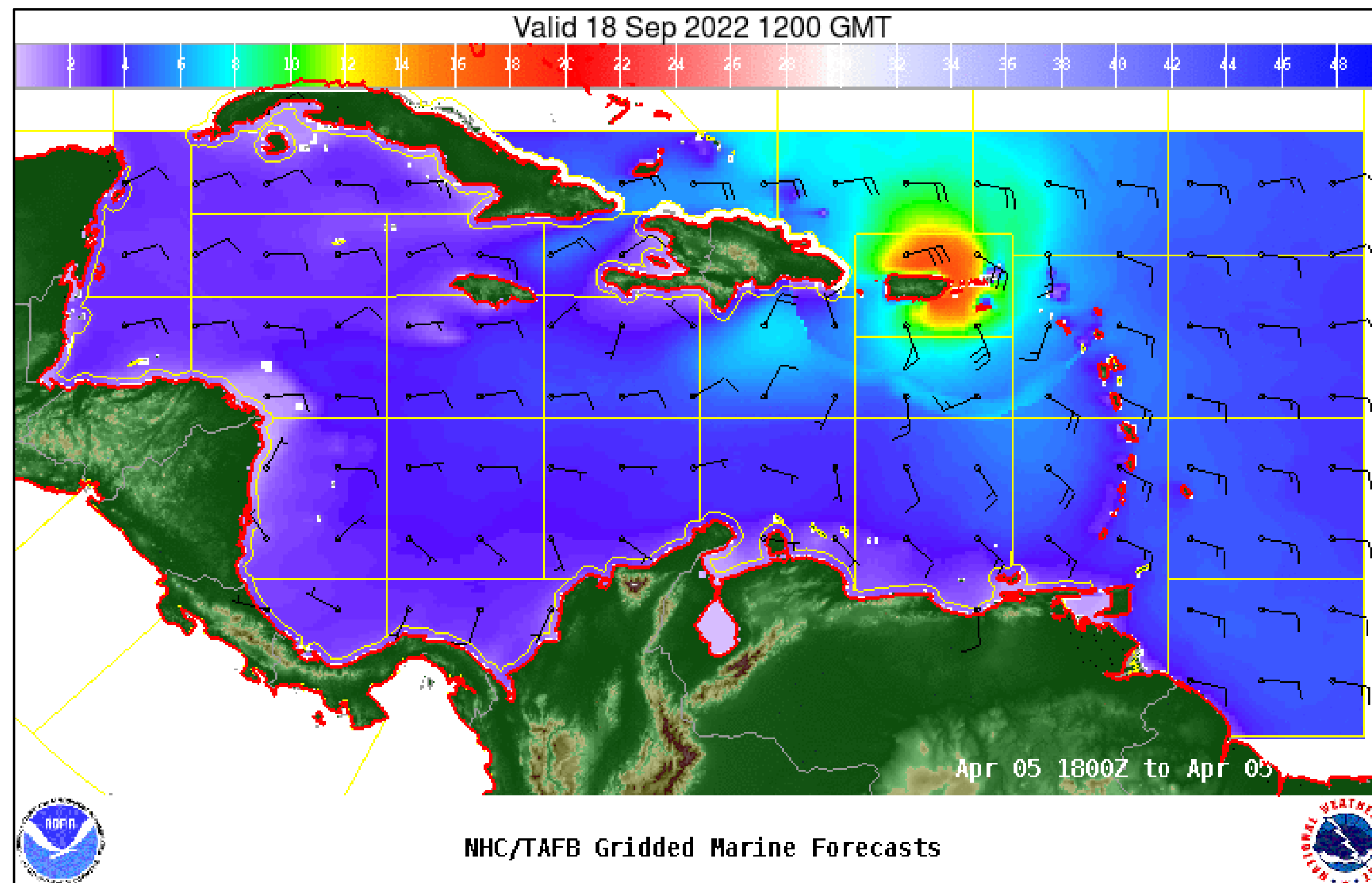
4' 8' 12' 16' 20' 24' 28' 32' 36'

# Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



48 Hour Forecast

8 AM EDT Sunday September 18

Peak Winds: 55 KT

Peak Seas: 19 FT

■ Wave heights are in feet



4' 8' 12' 16' 20' 24' 28' 32' 36'

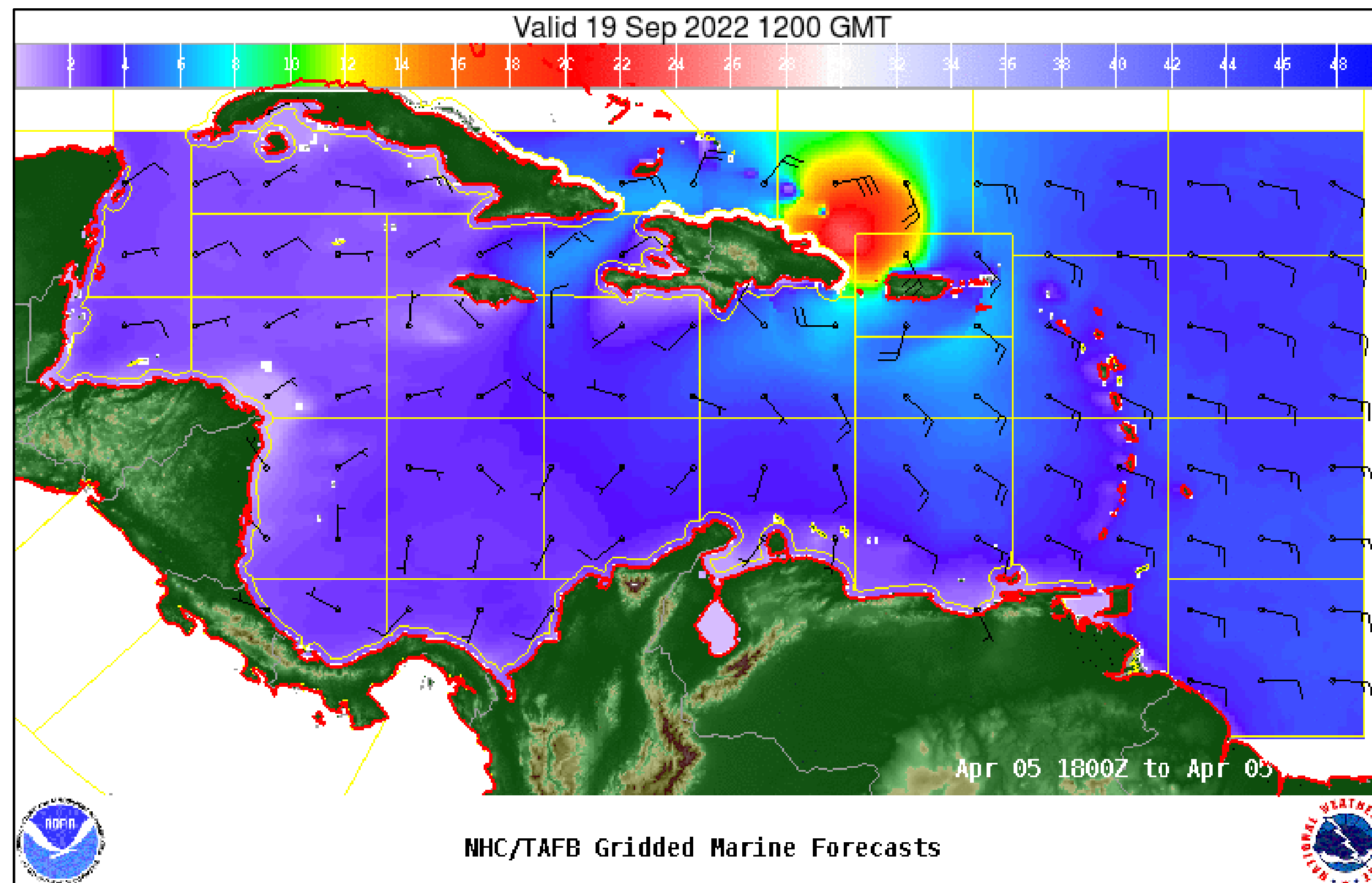


# Wind And Waves

Tropical Storm Fiona



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72 Hour Forecast

8 AM EDT Monday September 19

Peak Winds: 60 KT

Peak Seas: 22 FT

■ Wave heights are in feet



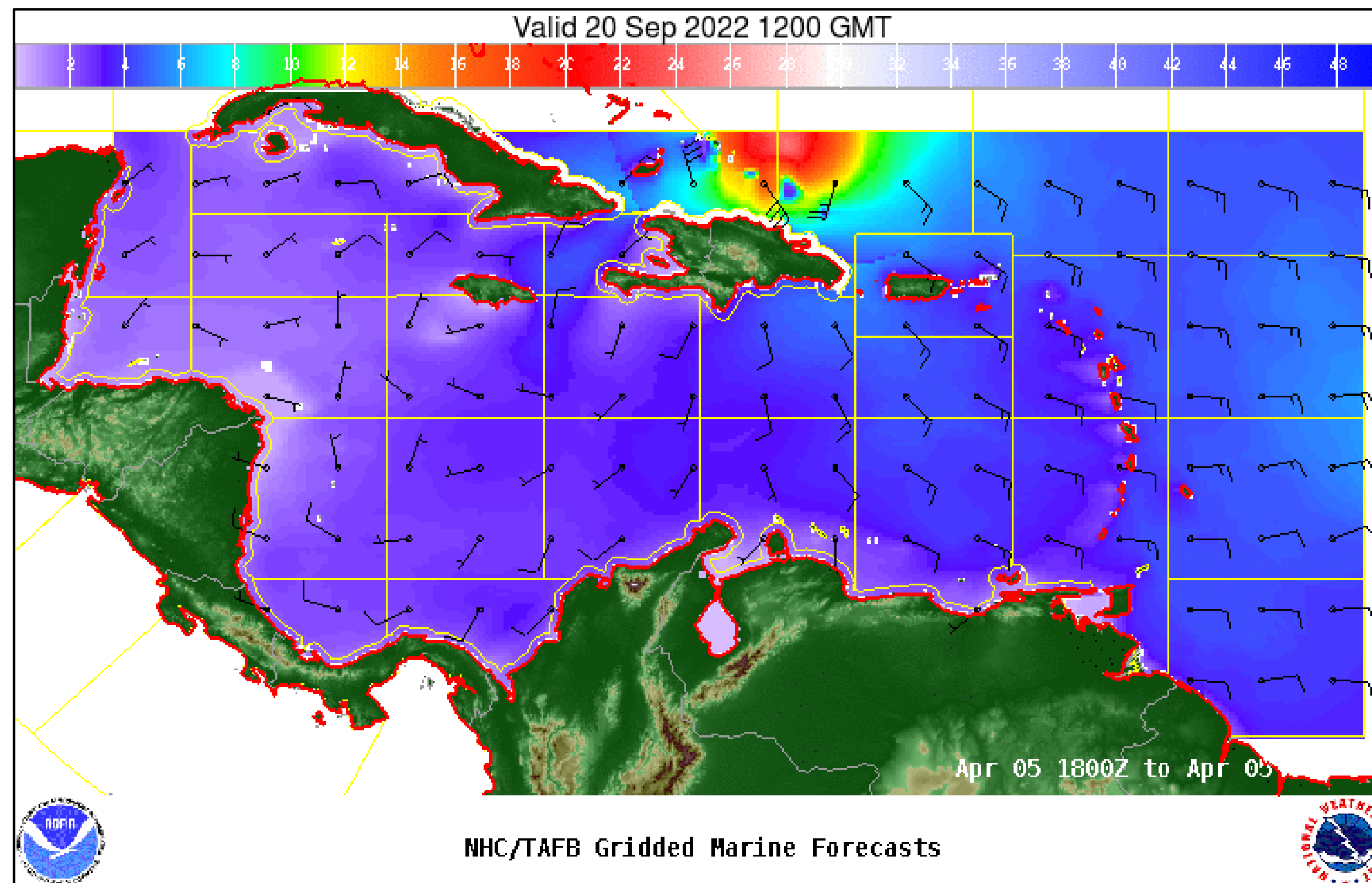
4' 8' 12' 16' 20' 24' 28' 32' 36'

# Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



96 Hour Forecast

8 AM EDT Tuesday September 20

Peak Winds: 55 KT

Peak Seas: 25 FT

■ Wave heights are in feet



4' 8' 12' 16' 20' 24' 28' 32' 36'



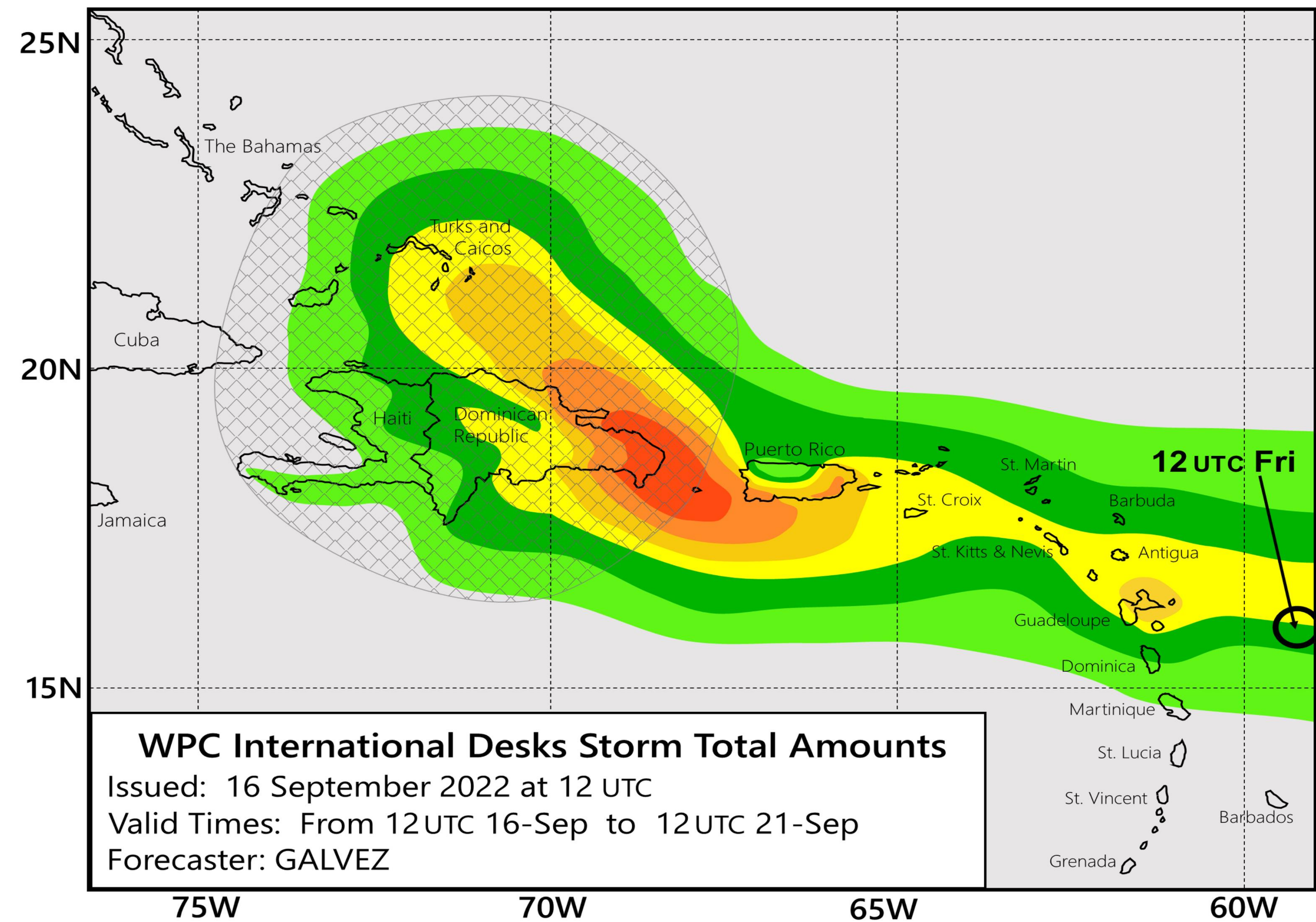
# Expected Storm Total Rainfall

Tropical Storm Fiona



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## 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 Wednesday morning.
- 4 to 6 inches with higher amounts in E and S Puerto Rico

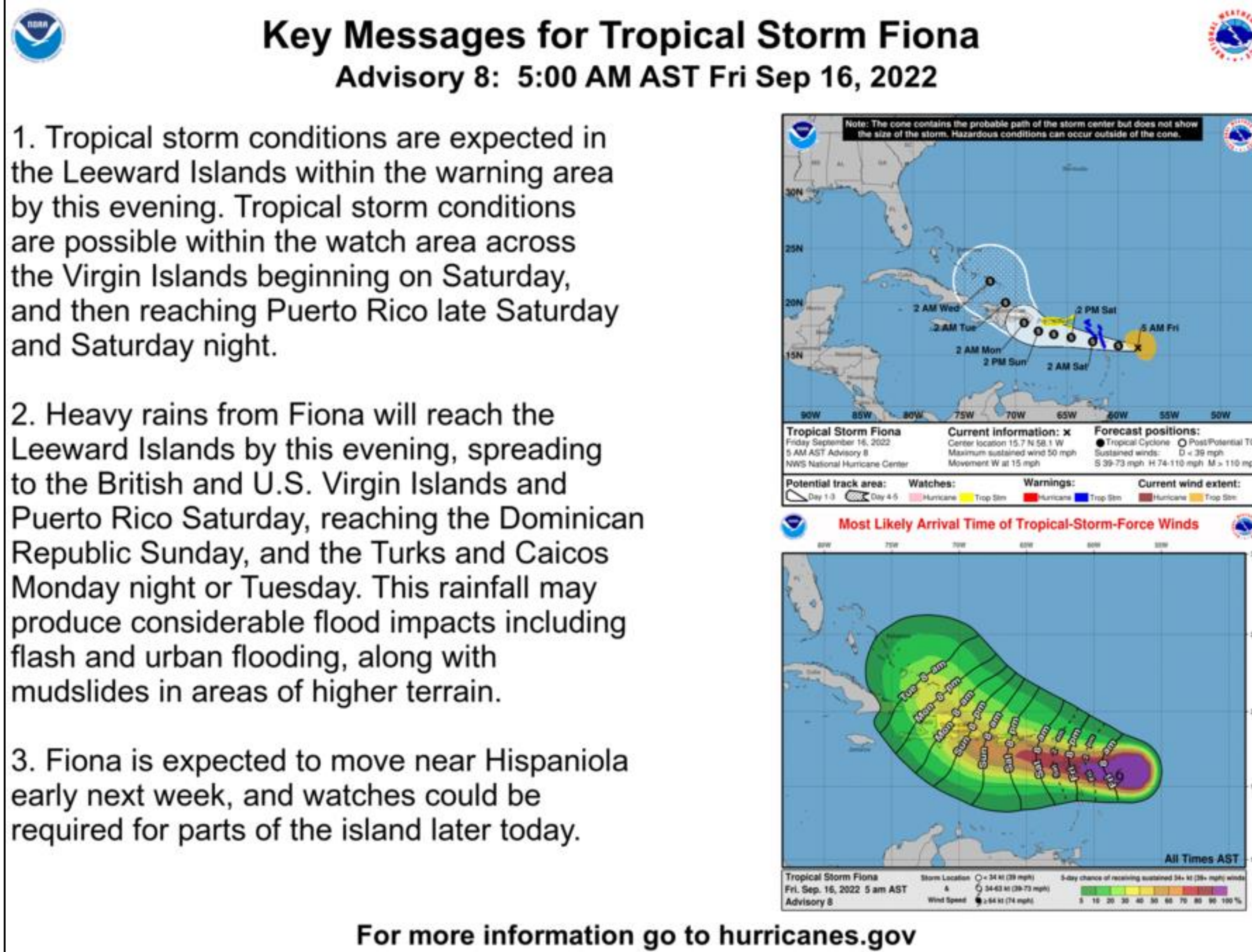


# Key Messages

## Tropical Storm Fiona



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## Marine Key Messages:

- Seas building to 20 ft for both Caribbean and Atlantic regional waters near Puerto Rico and the U.S. Virgin Islands
- Seas expected to subside by Mon afternoon

## 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:  
Saturday 8:15 AM EDT*

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



NHC\_TAFB

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