

IMPACTS FOR District 7 (through next 5 days)

Winds – High

Storm Surge – Low

Rainfall/Flash Flooding – High

Tornadoes – Low

Waves - Moderate

TROPICAL STORM FIONA BRIEFING



8:15 AM EDT

Sunday, September 18, 2022

Prepared by:

Stephen Konarik

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

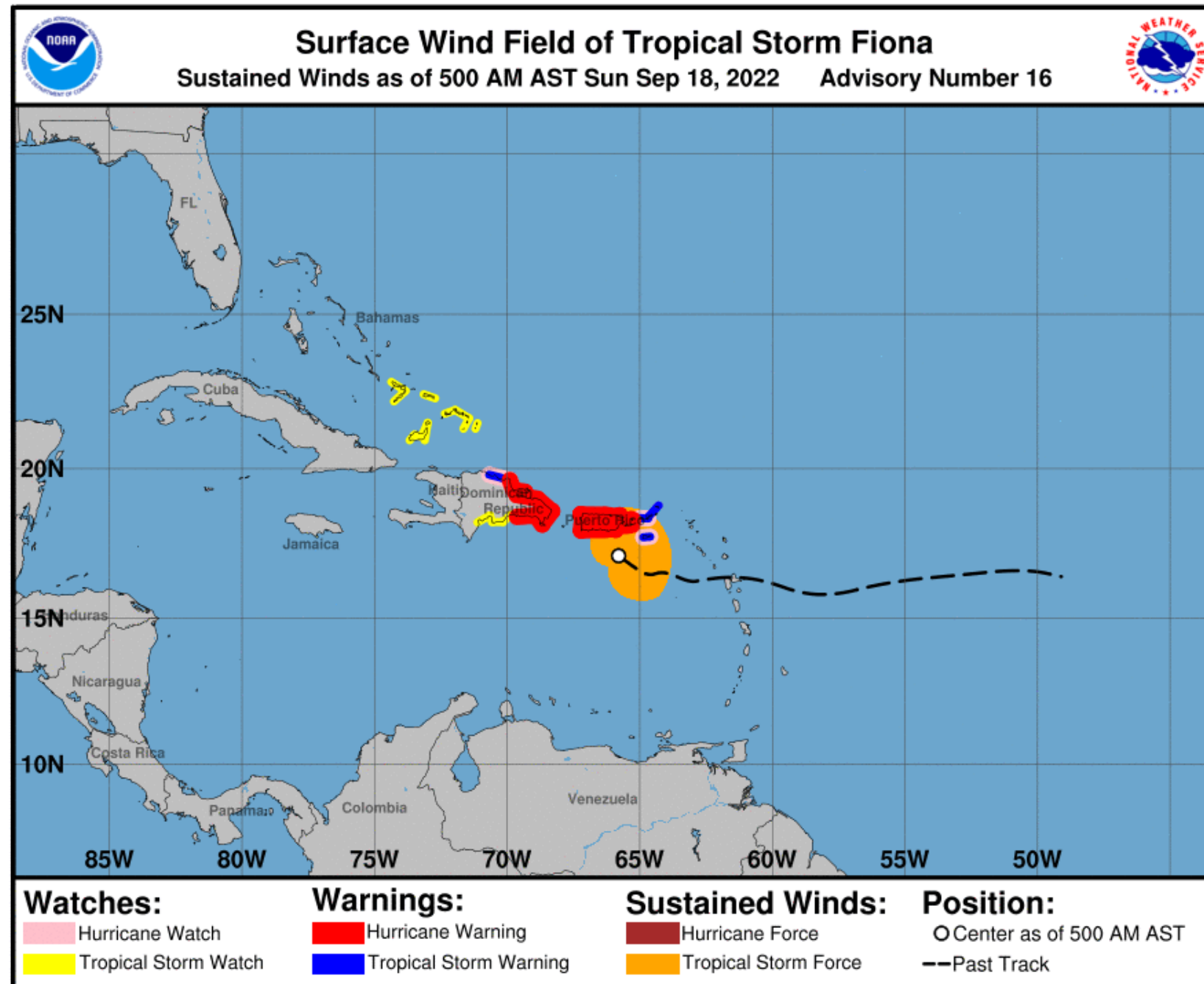


Situation Overview

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...LIFE-THREATENING FLOODING AND MUDSLIDES EXPECTED ACROSS PUERTO RICO AND THE DOMINICAN REPUBLIC...

...FIONA FORECAST TO BECOME A HURRICANE LATER TODAY...

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

LOCATION...17.1N 65.8W

ABOUT 80 MI...125 KM WSW OF ST. CROIX

ABOUT 80 MI...130 KM SE OF PONCE PUERTO RICO

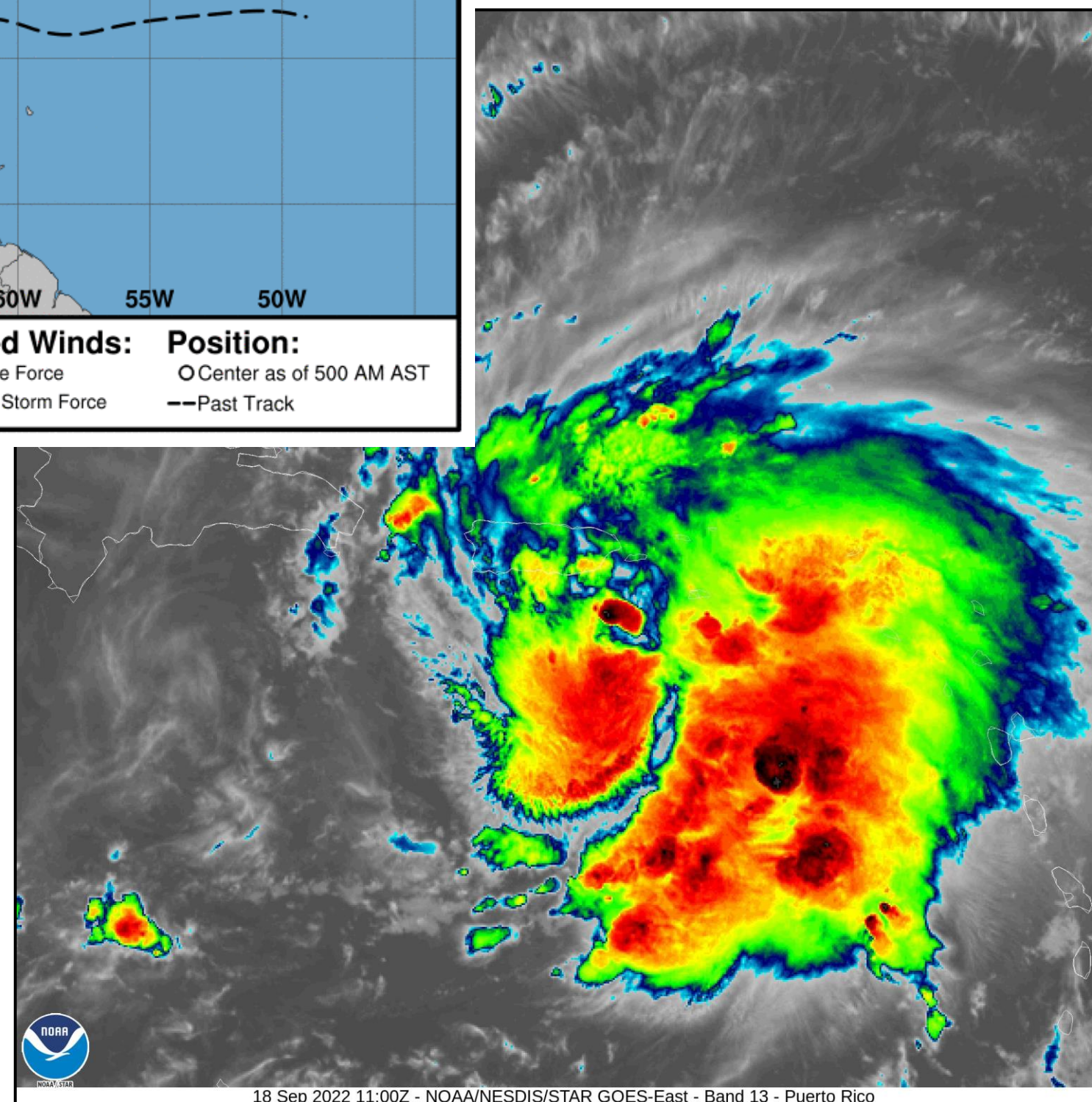
MAXIMUM SUSTAINED WINDS...**60 KT (as of 8am EDT)**

PRESENT MOVEMENT...WNW OR 290 DEGREES AT 7 KT

34 KT WIND EXTEND OUT (NM): 110NE 120SE 30SW 80NW

12 FT SEAS EXTEND OUT (NM): 90NE 90SE 60SW 60NW

PEAK SEAS: 21 FT

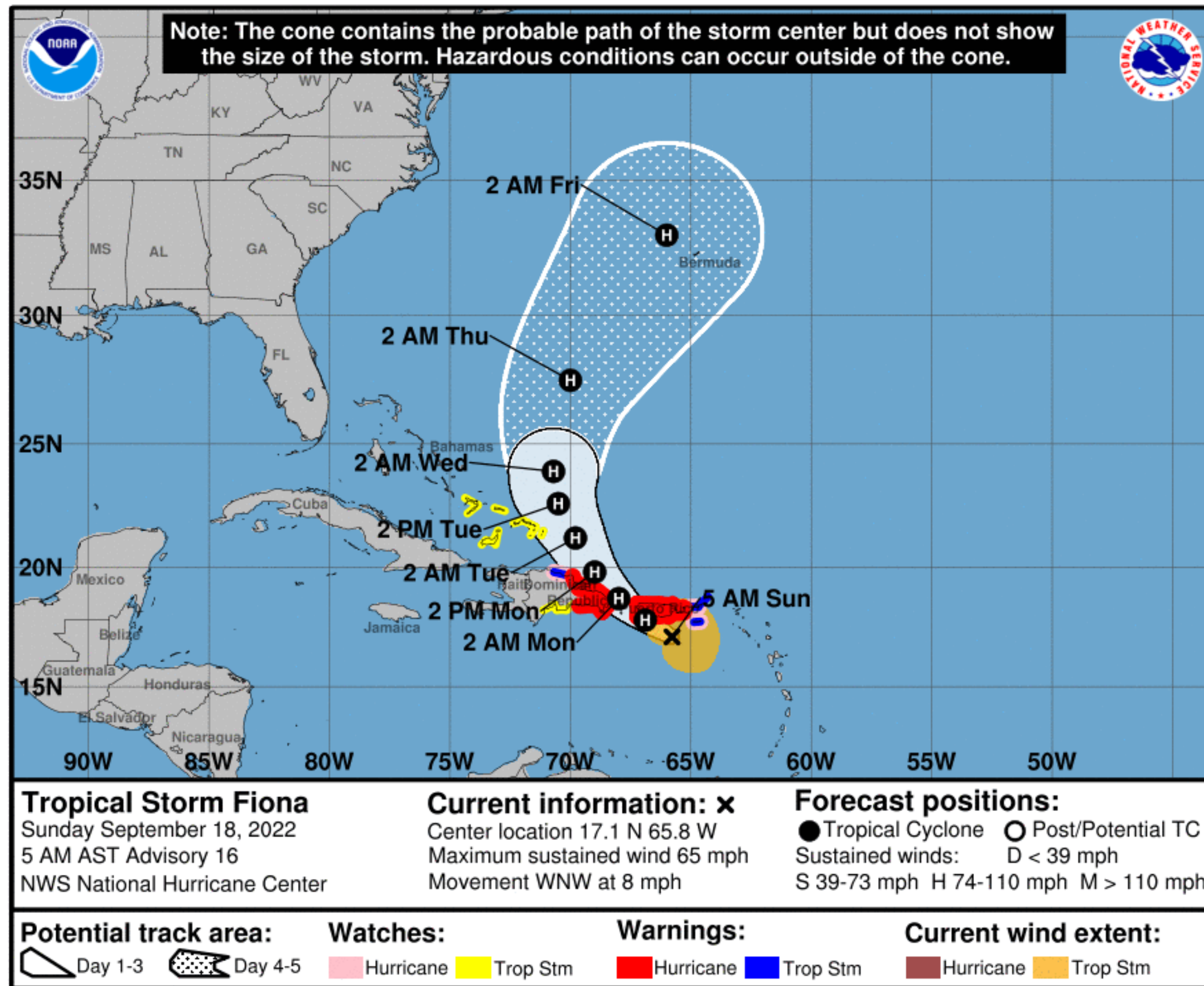


Forecast Information

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- WNW motion will turn NW today
- Center of Fiona very near SW Puerto Rican coast this afternoon/evening
- Hurricane Warning Puerto Rico and eastern Dominican Republic
- Northward turn Mon night/Tue will turn Fiona away from USA. Tropical Storm Watch Turks and Caicos

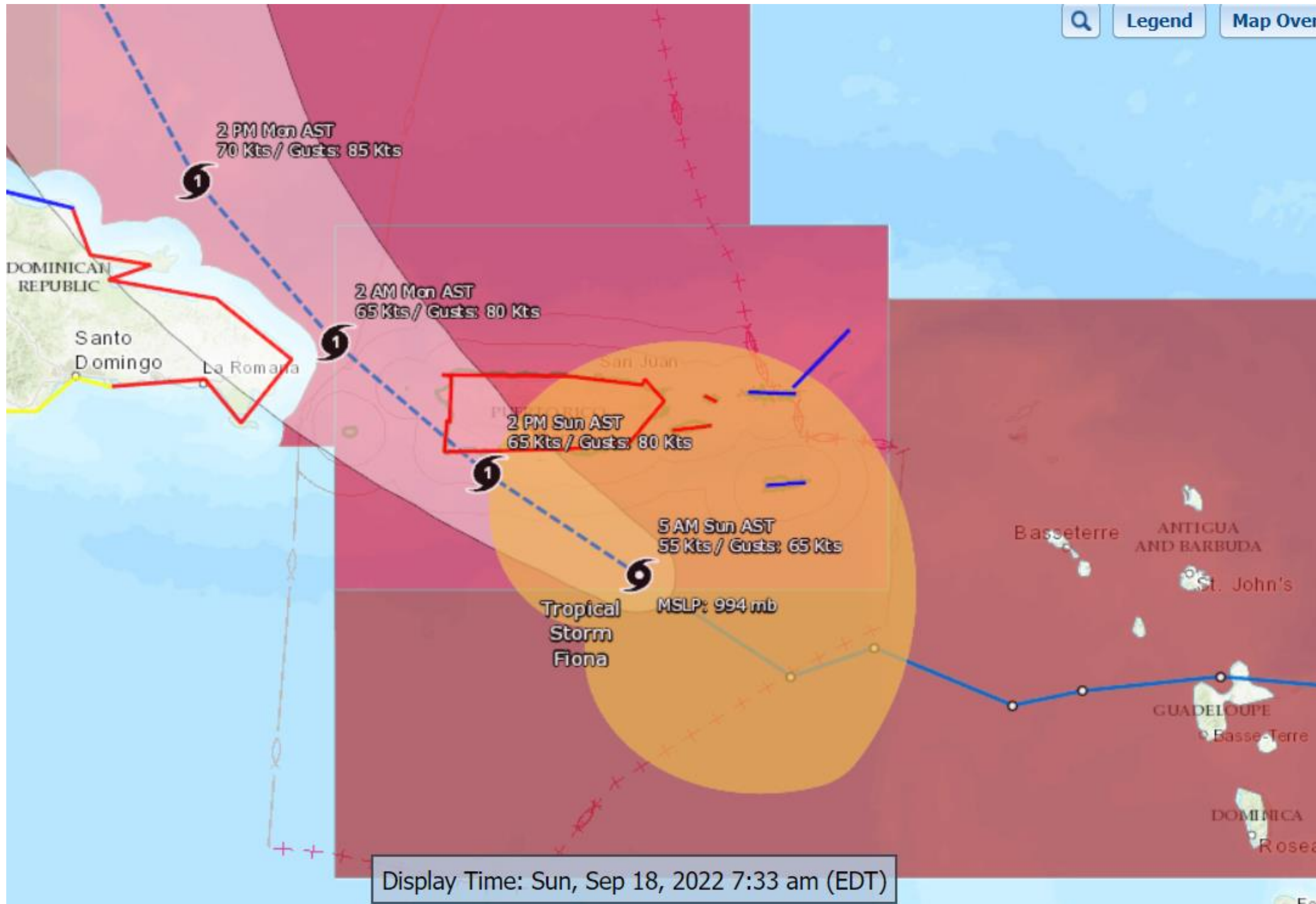
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



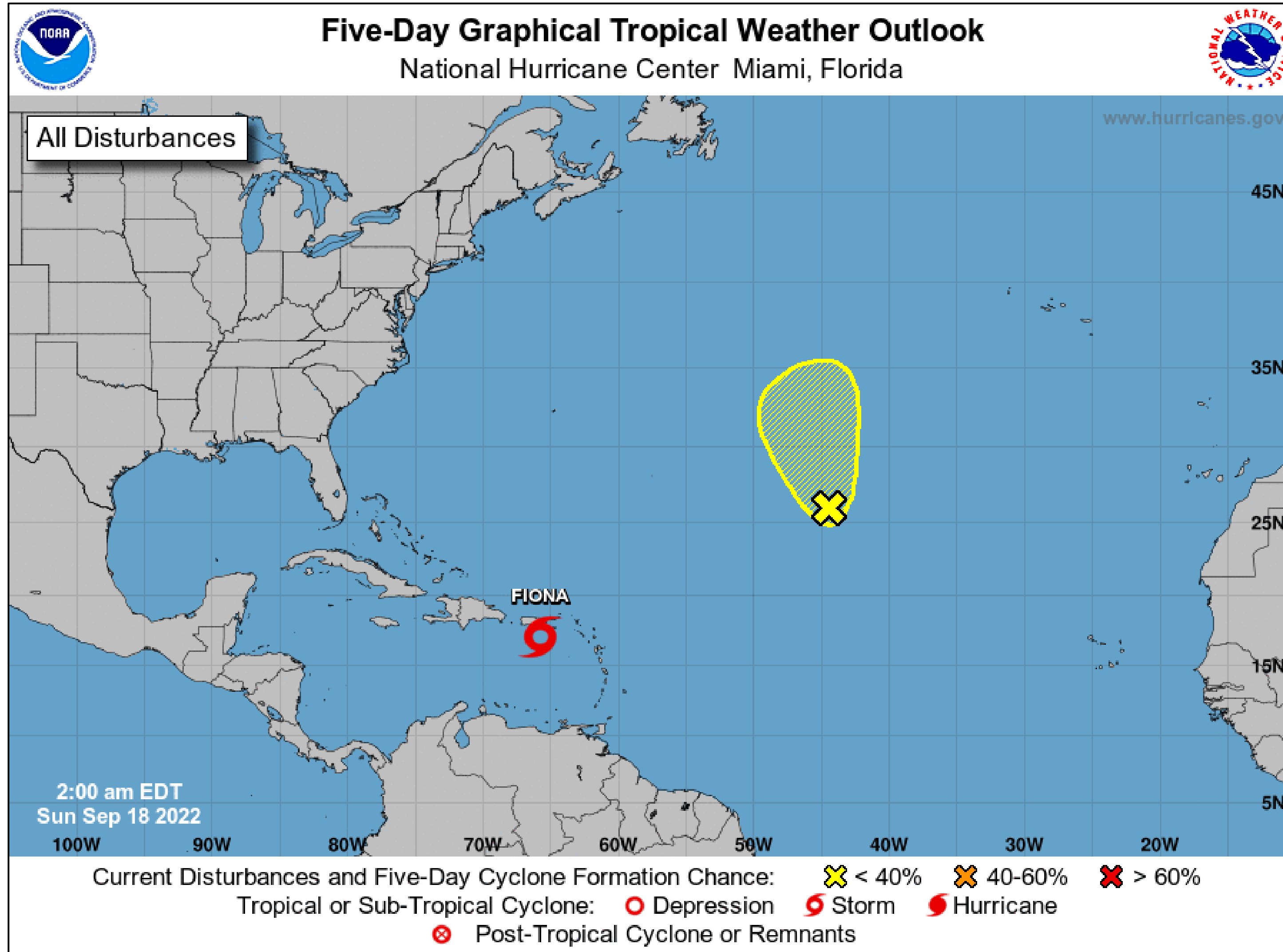
- Hurricane Warning
- Tropical Storm Warning
- Hurricane Watch
- Tropical Storm Watch
- Coastal Flood Advisory
- Small Craft Advisory
- Gale Warning
- Gale Watch

Tropical Weather Outlook

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



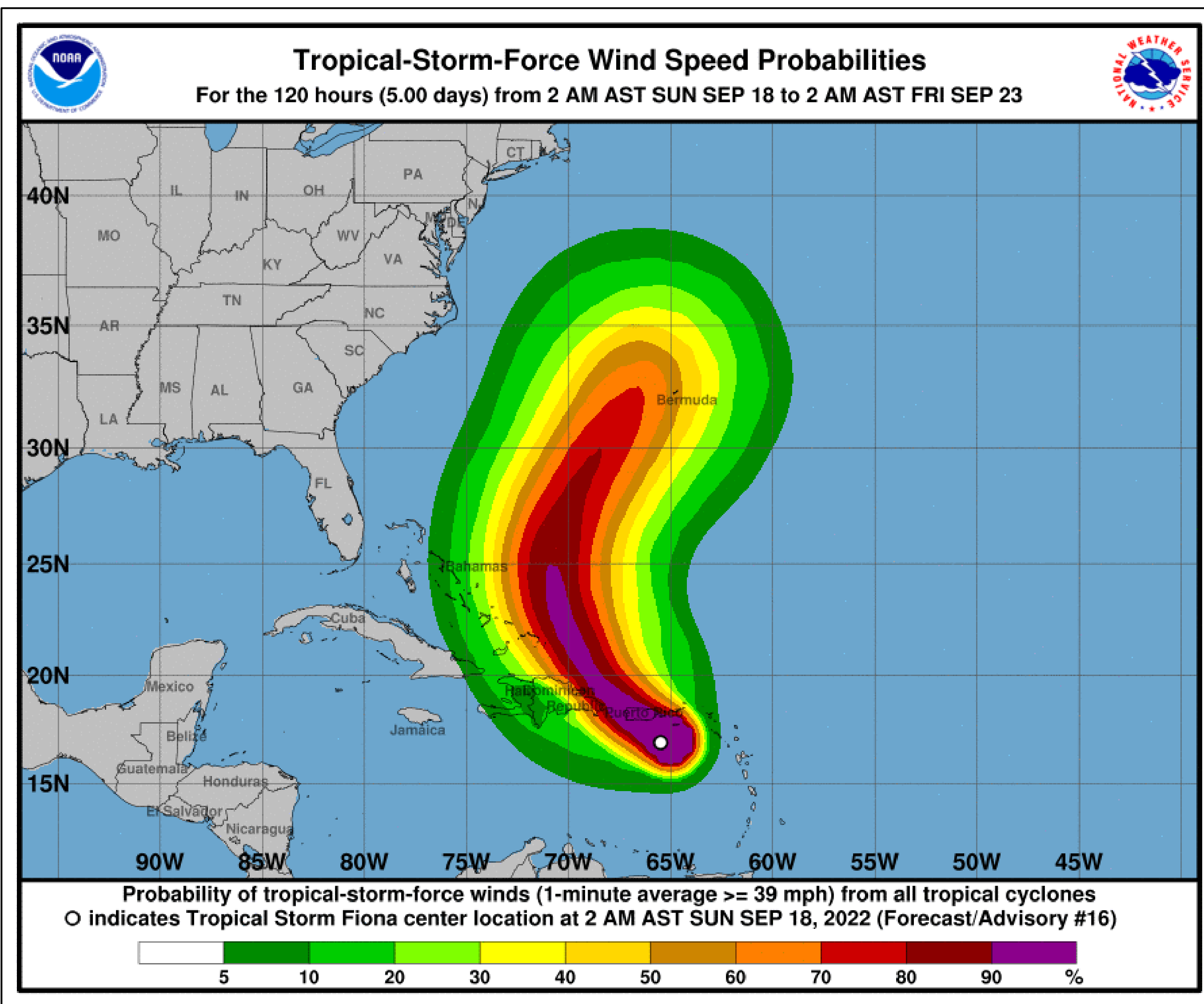
- Overview information from TWO text
- If including the 5 day TWO, include the following bullet:
- **Reminder:** *The hatched area represents a possible development area, not the system's path after development occurs.*

T.S. Wind Speed Probabilities

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- St. Thomas: 60%
- St. John: 50%
- St. Croix: Ongoing

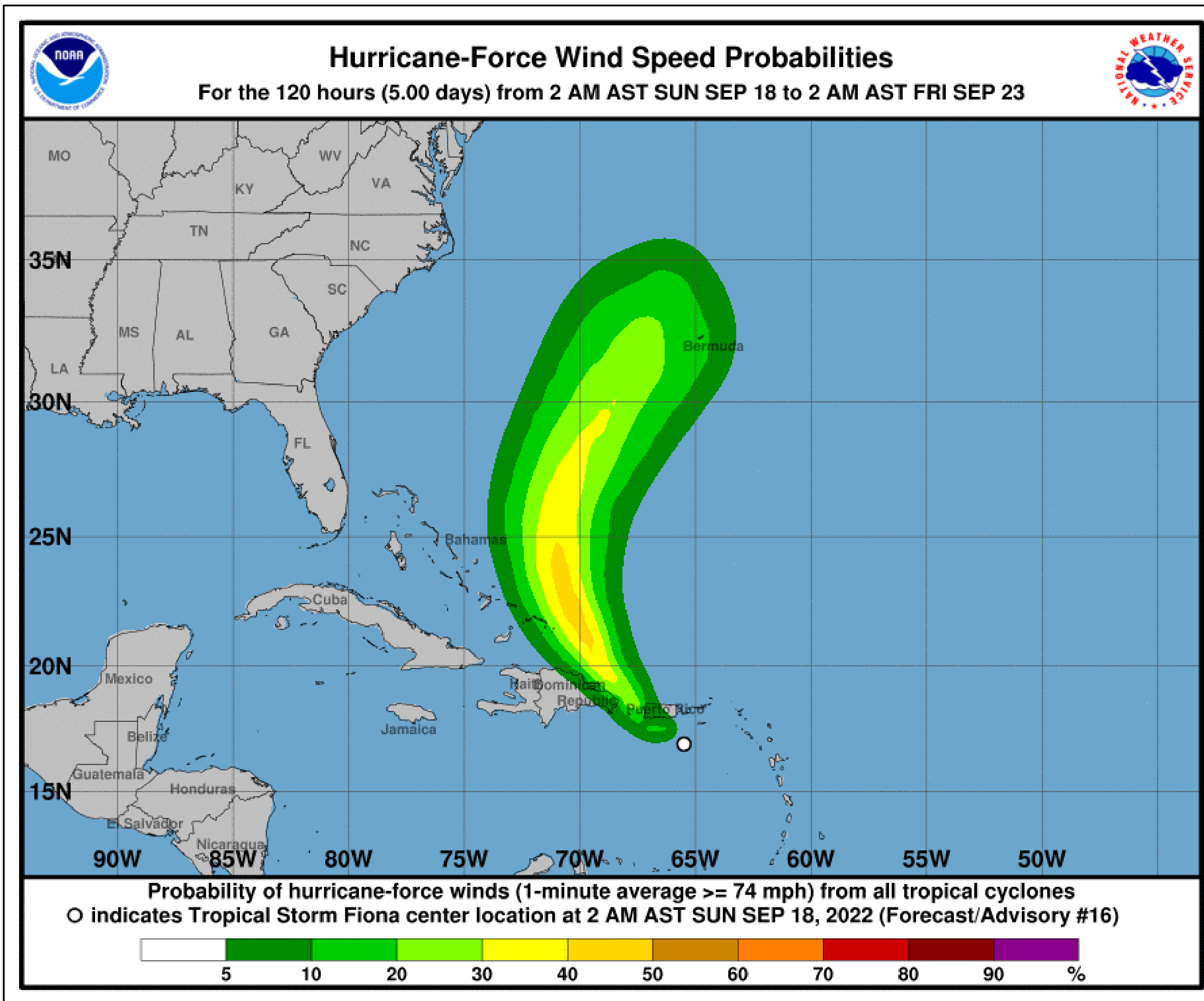
- Vieques: Ongoing
- San Juan: 90%
- Ponce: 100%
- Aguadilla: 100%

Hurricane Wind Speed Probabilities



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Fiona

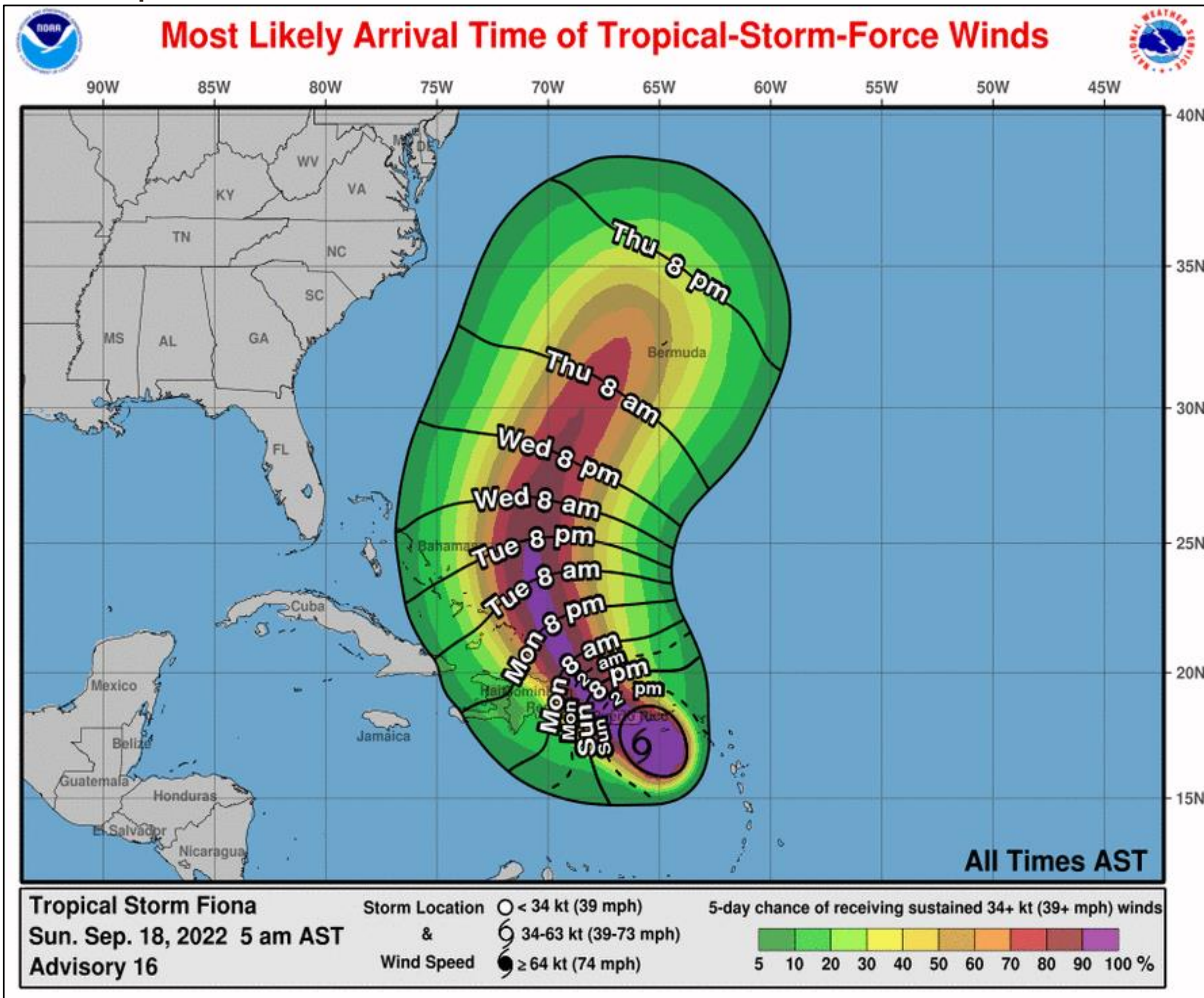


- St. Thomas: 5%
- St. John: 5%
- St. Croix: 5%

- Vieques: 10%
- San Juan: 10%
- Ponce: 10%
- Aguadilla: 20%



Tropical Storm Fiona



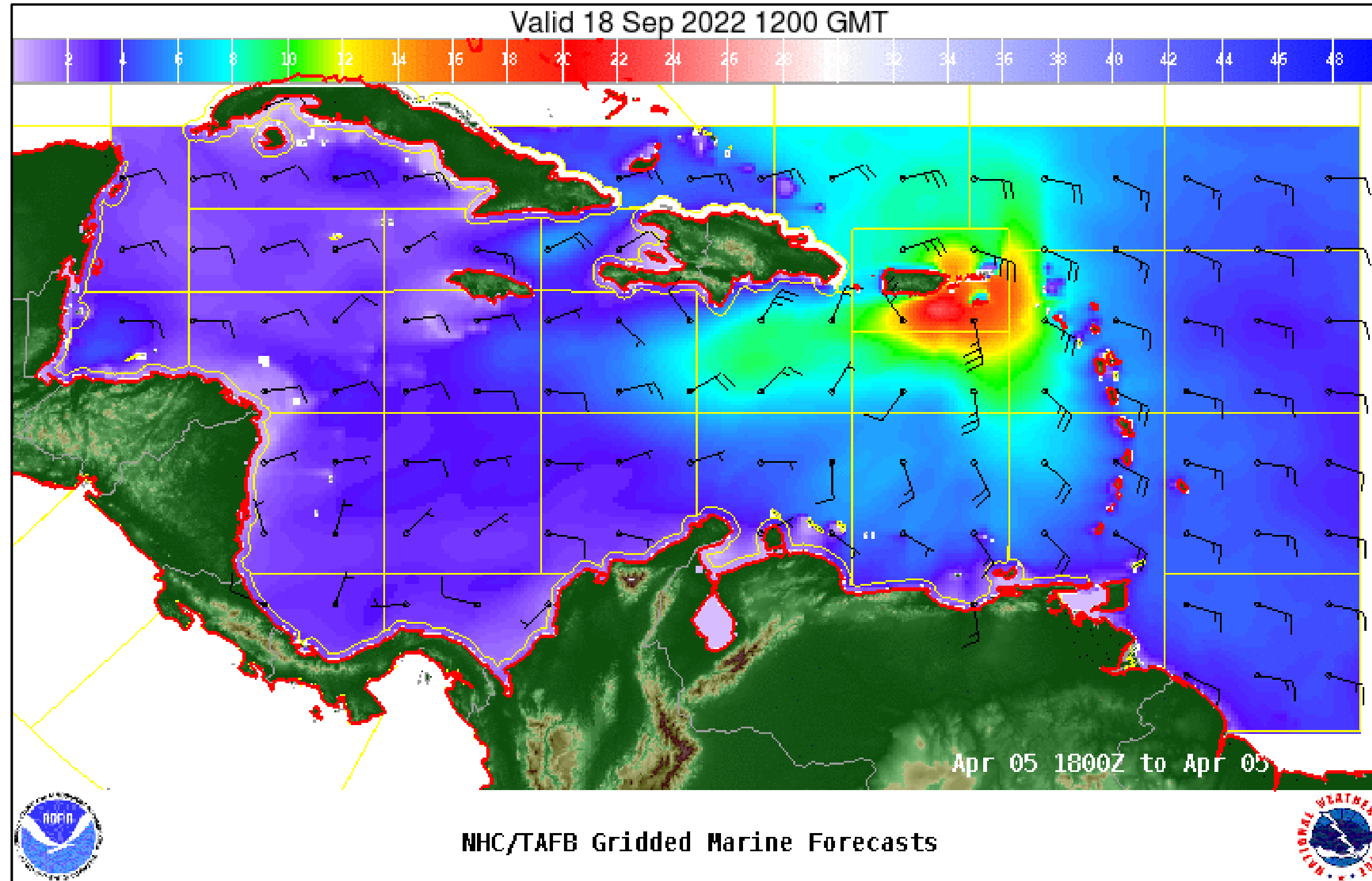
- US Virgin Islands: Ongoing
- SE Puerto Rico: Ongoing
- Remainder of Puerto Rico: Later this morning
- Ending Time of Tropical Storm Force Winds:
 - U.S. Virgin Islands – this afternoon
 - Puerto Rico – ending from SE to NW Monday morning

Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



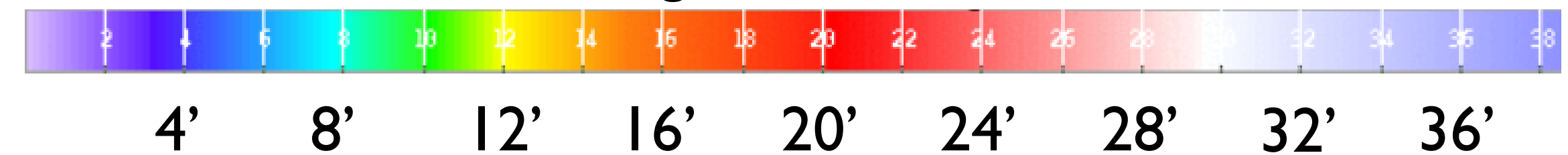
Current Conditions

8 AM EDT Sunday, September 18

Peak Winds: 55 KT

Peak Seas: 21 FT

■ Wave heights are in feet

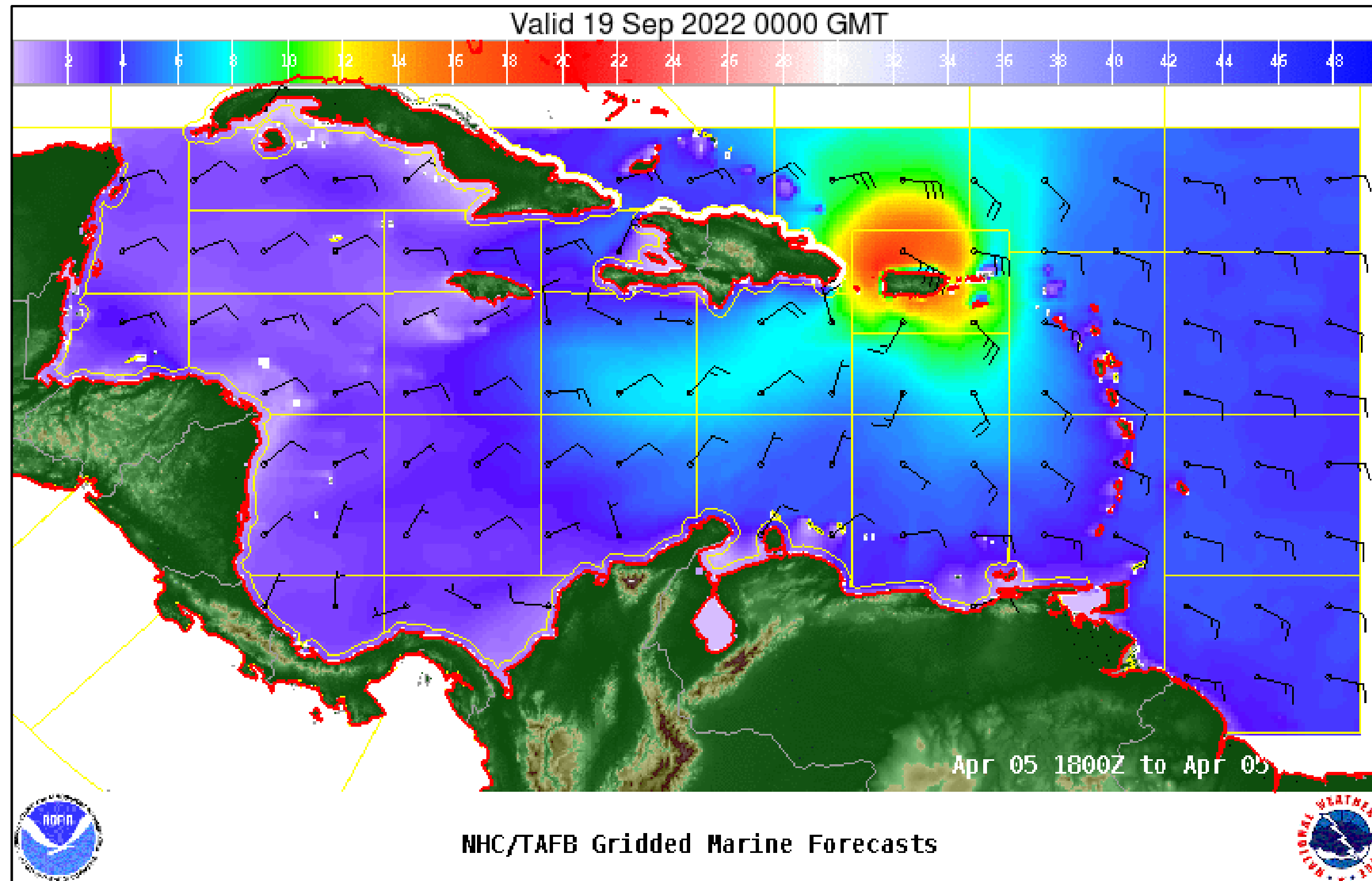


Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



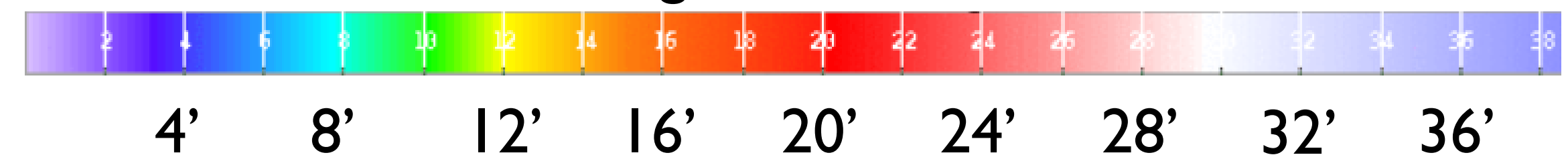
12 Hour Forecast

8 PM EDT Sunday, September 18

Peak Winds: 65 KT

Peak Seas: 20 FT

■ Wave heights are in feet

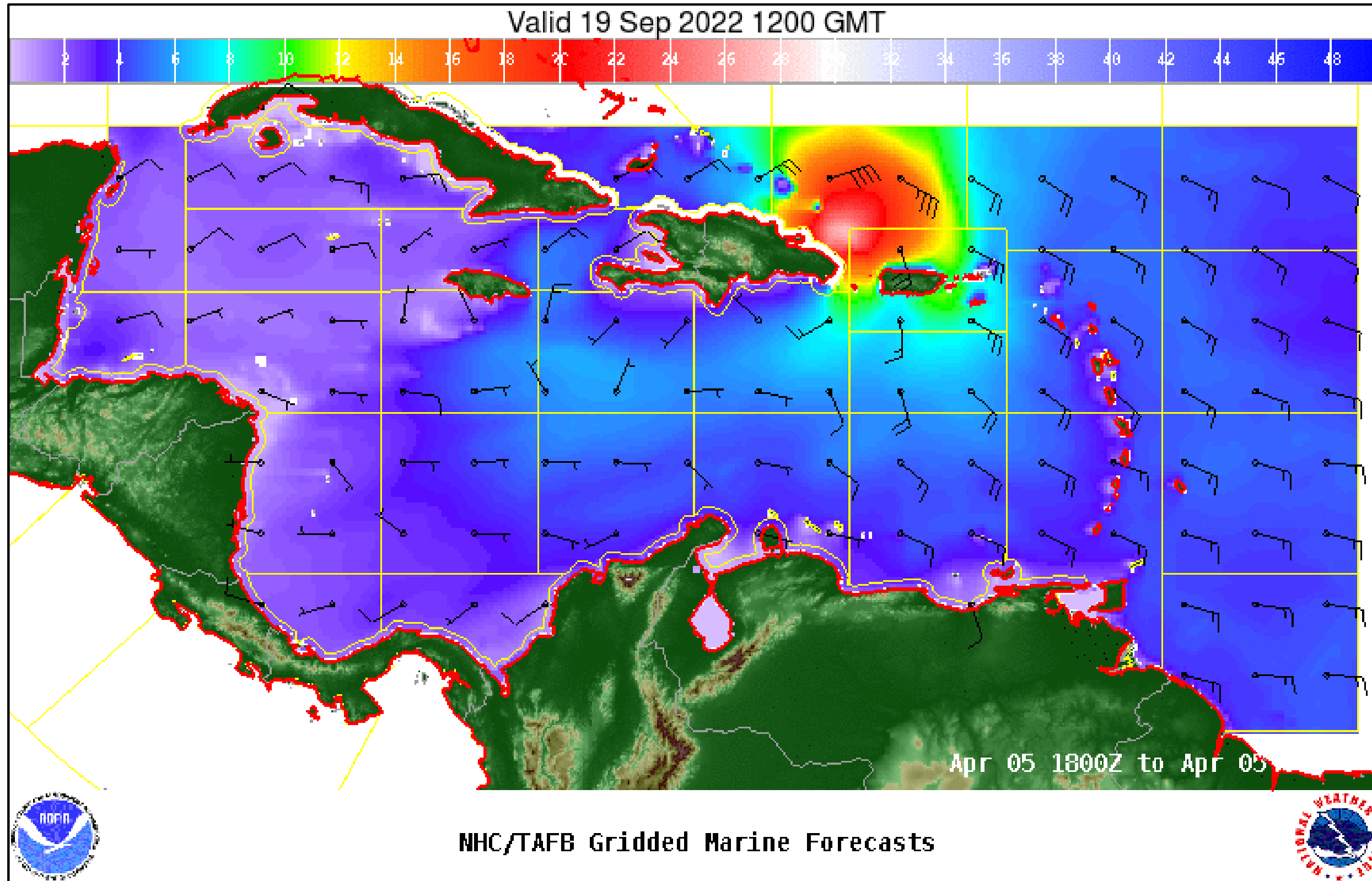


Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



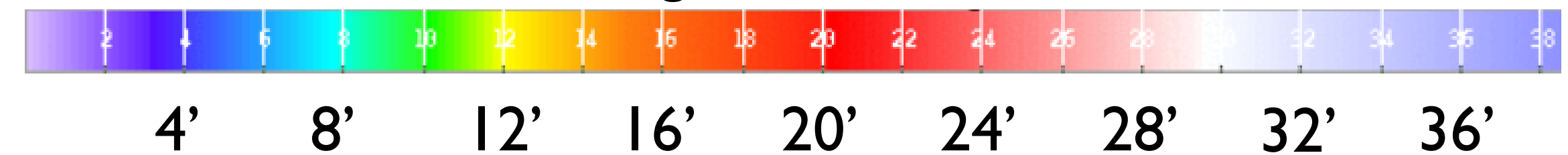
24 Hour Forecast

8 AM EDT Monday, September 19

Peak Winds: 65 FT

Peak Seas: 25 FT

■ Wave heights are in feet

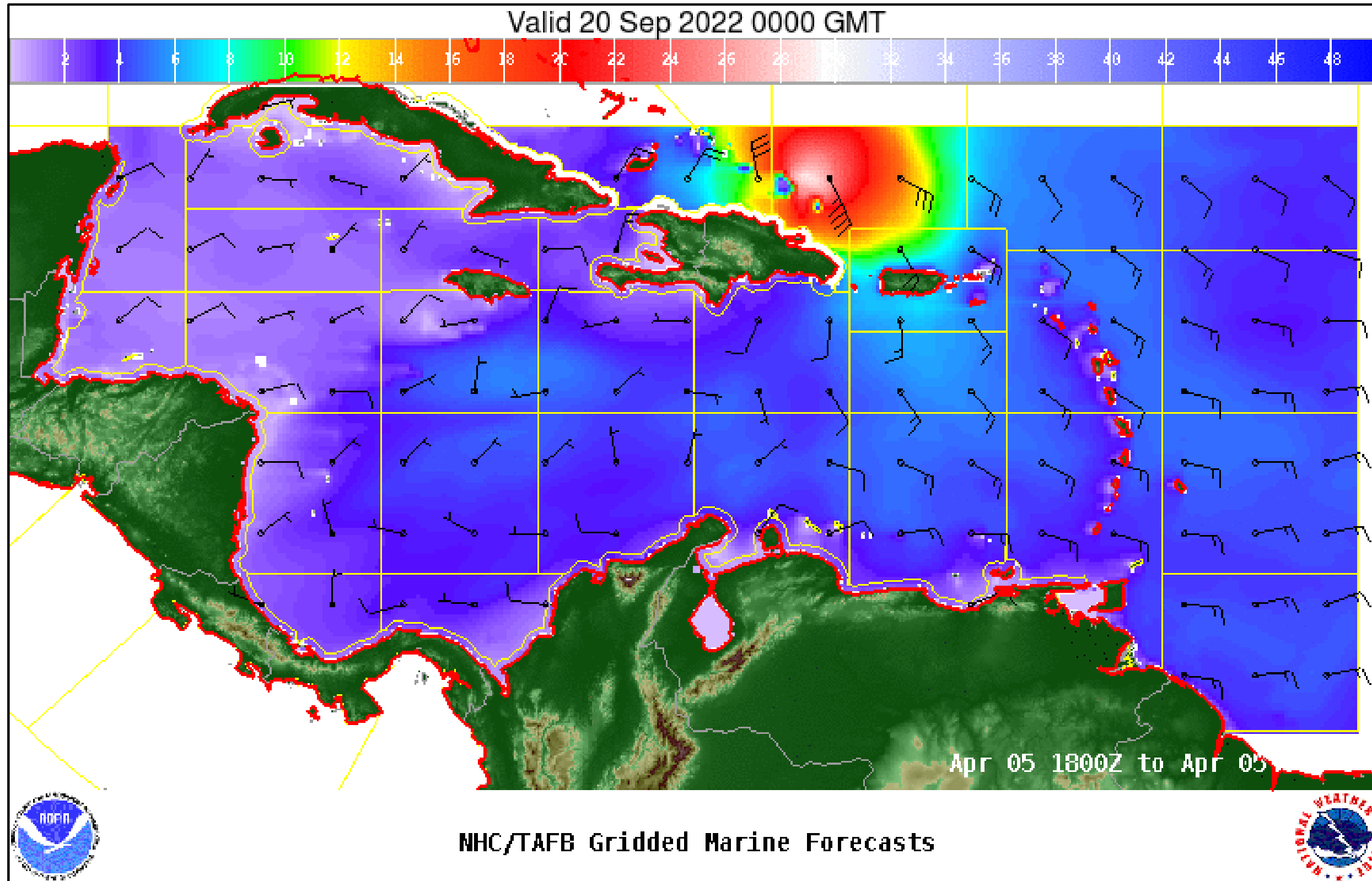


Wind And Waves

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



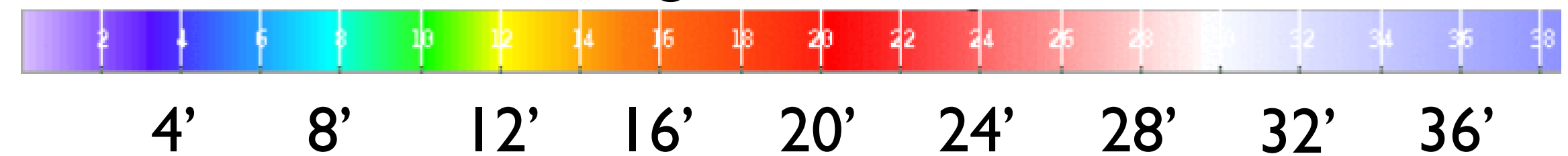
36 Hour Forecast

8 PM EDT Monday, September 19

Peak Winds: 75 KT

Peak Seas: 28 FT

■ Wave heights are in feet

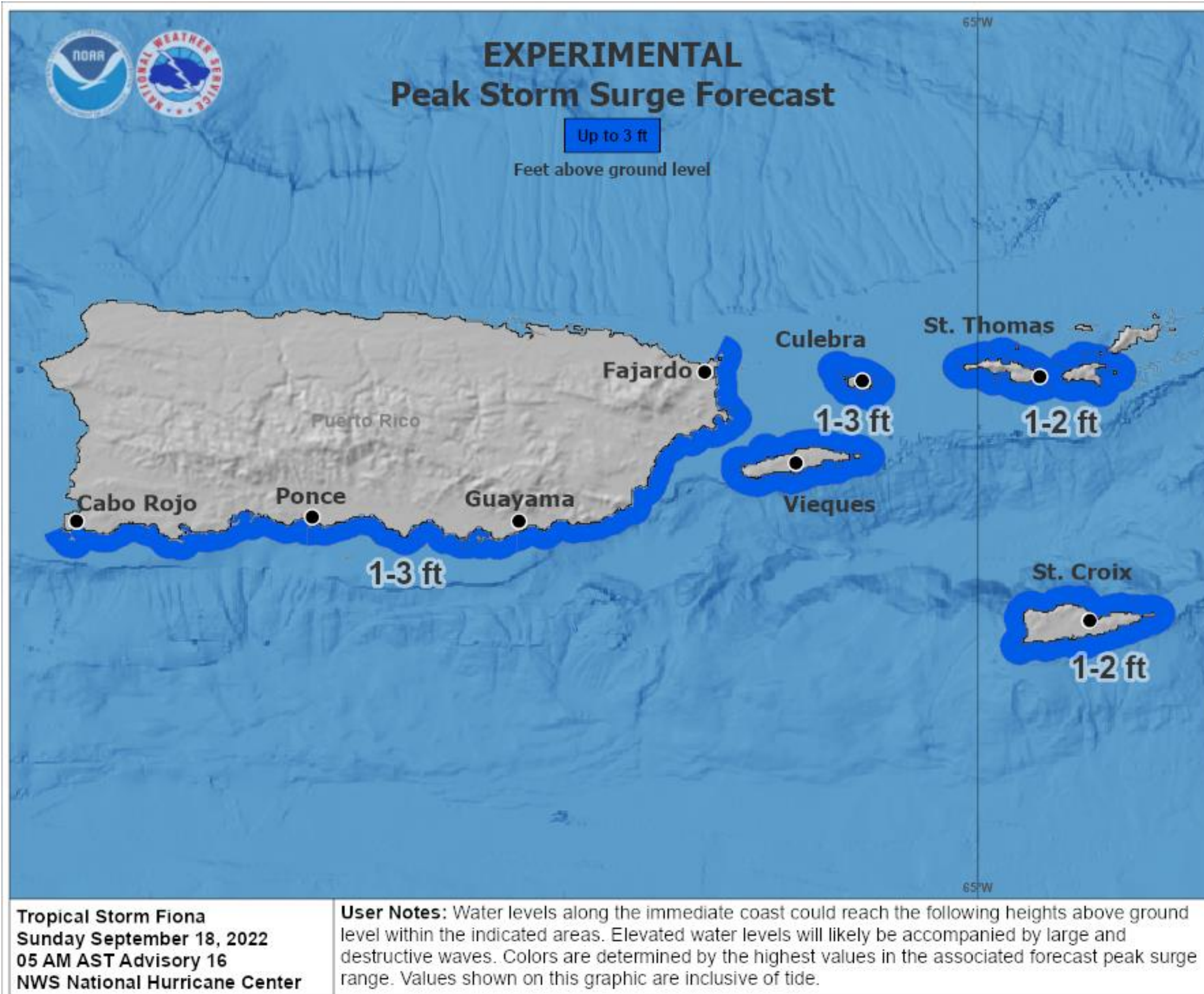


Peak Storm Surge Forecast

Tropical Storm Fiona



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Potential storm surge is represented in feet above the ground at any given point.

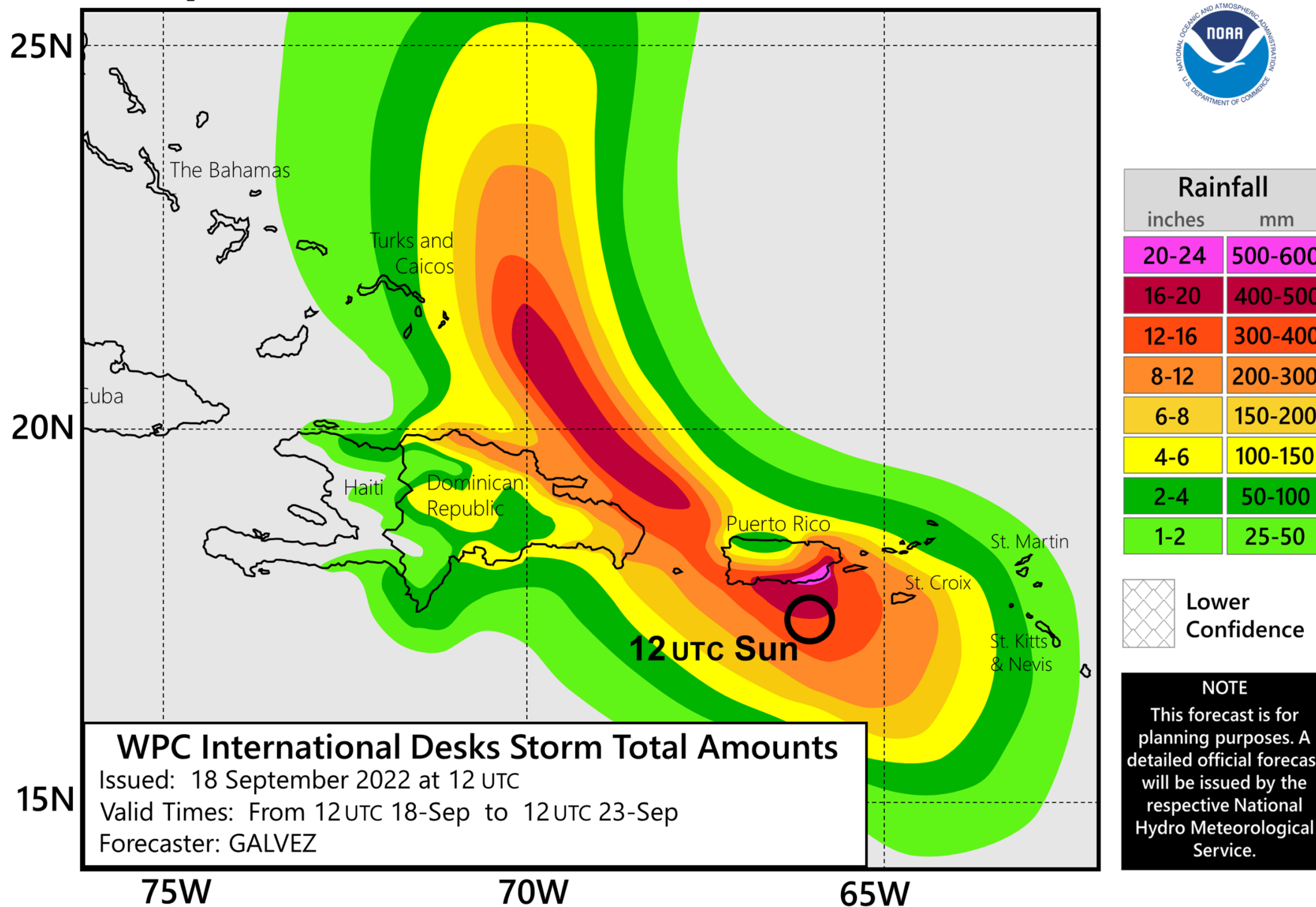
Expected Storm Total Rainfall (Through Thu. Night)



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Storm Fiona


Tropical Storm Fiona Total Rainfall



Total rainfall through Thursday:


- 12 to 18 inches southern Puerto Rico (20-24 inches S coast)
- 6 to 12 inches northern Puerto Rico
- Locally much greater higher elevations/south





Key Messages for Tropical Storm Fiona

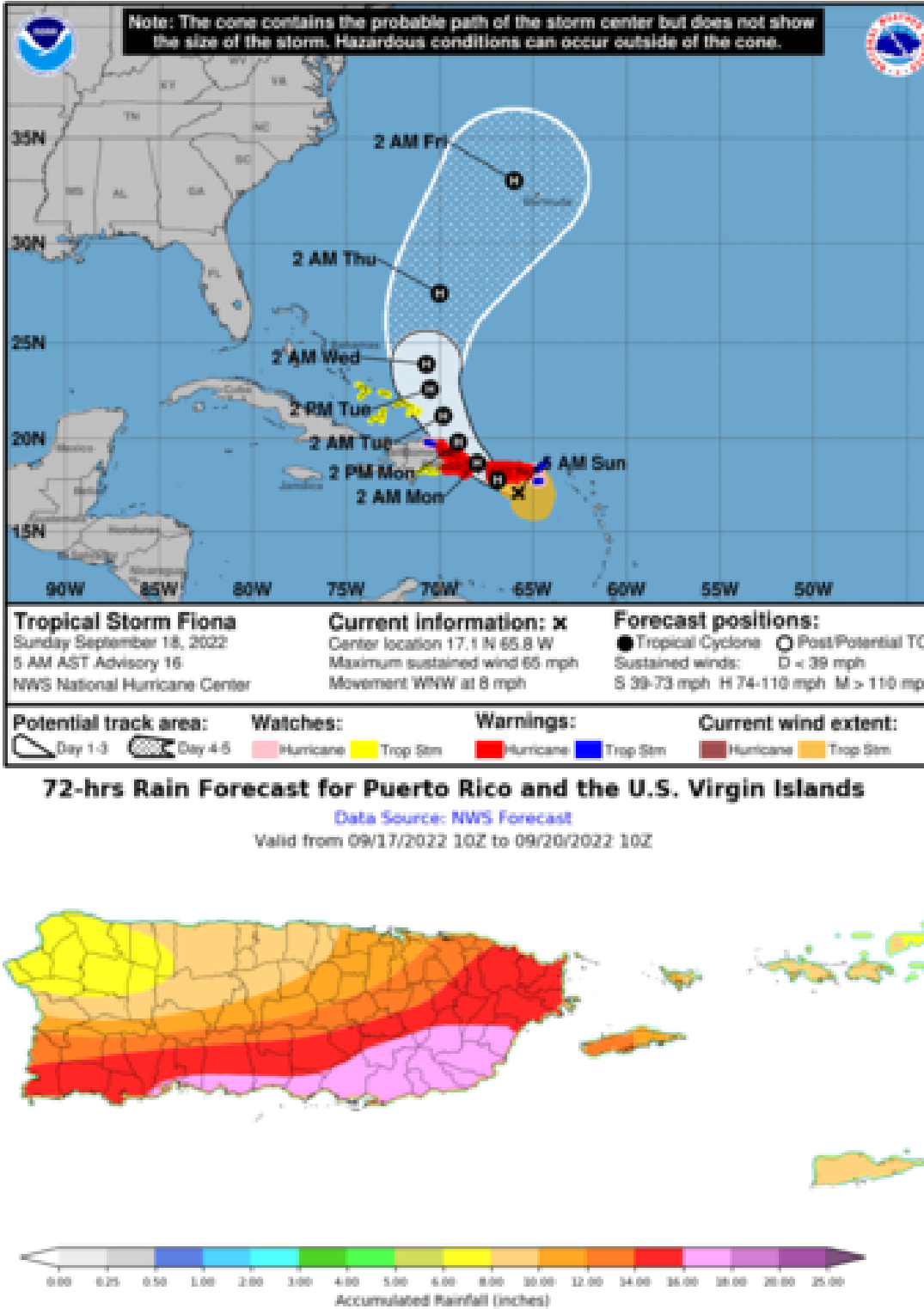
Advisory 16: 5:00 AM AST Sun Sep 18, 2022




1. Hurricane conditions are expected across portions of Puerto Rico today, and are expected in portions of the Dominican Republic tonight and Monday. Tropical storm conditions are occurring across the U.S. and British Virgin Islands and are spreading westward across Puerto Rico. Tropical storm conditions will reach the Dominican Republic later today and tonight.

2. Heavy rains from Fiona will continue across Puerto Rico through tonight and occur over the Dominican Republic later today into Monday. These rainfall amounts will produce life-threatening flash floods and urban flooding across Puerto Rico and portions of the eastern Dominican Republic, along with mudslides and landslides in areas of higher terrain.




3. Fiona is forecast to strengthen after moving away from Puerto Rico and the Dominican Republic. Tropical storm conditions are possible in the Turks and Caicos Islands and the southeastern Bahamas by late Monday or early Tuesday, and a Tropical Storm Watch has been issued for these locations.



72-hrs Rain Forecast for Puerto Rico and the U.S. Virgin Islands
Data Source: NWS Forecast
Valid from 09/17/2022 10Z to 09/20/2022 10Z



National Weather Service
San Juan, PR
09/17/2022 13:28 GMT

Follow Us:   

weather.gov/sju

For more information go to hurricanes.gov

- Marine Key Messages:
- Seas of 15 to 20 ft today and tonight Caribbean waters
- Seas of 15 to 20 ft tonight into Monday Atlantic waters
- Seas fall below 12 ft from SE to NW Mon/Mon night



TROPICAL STORM FIONA BRIEFING

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

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



NHC_TAFB

www.nhc.noaa.gov