Winds – Moderate **Storm Surge – Low** Rainfall/Flash Flooding – High **Tornadoes – Low** Waves - Moderate

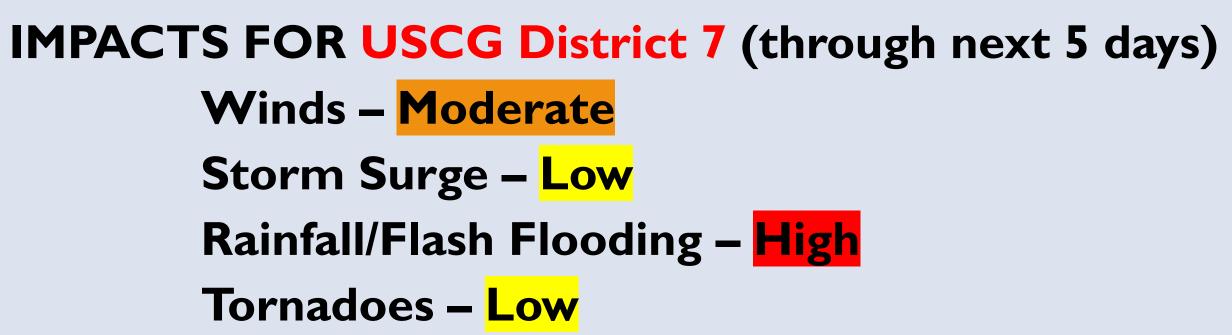
# **TROPICAL STORM FIONA** BRIEFING

8:00 AM EDT Saturday, September 17, 2022 Prepared by: Stephen Konarik **Tropical Analysis and Forecast Branch** NWS National Hurricane Center

MIAMI FLORIDA NHC\_TAFB

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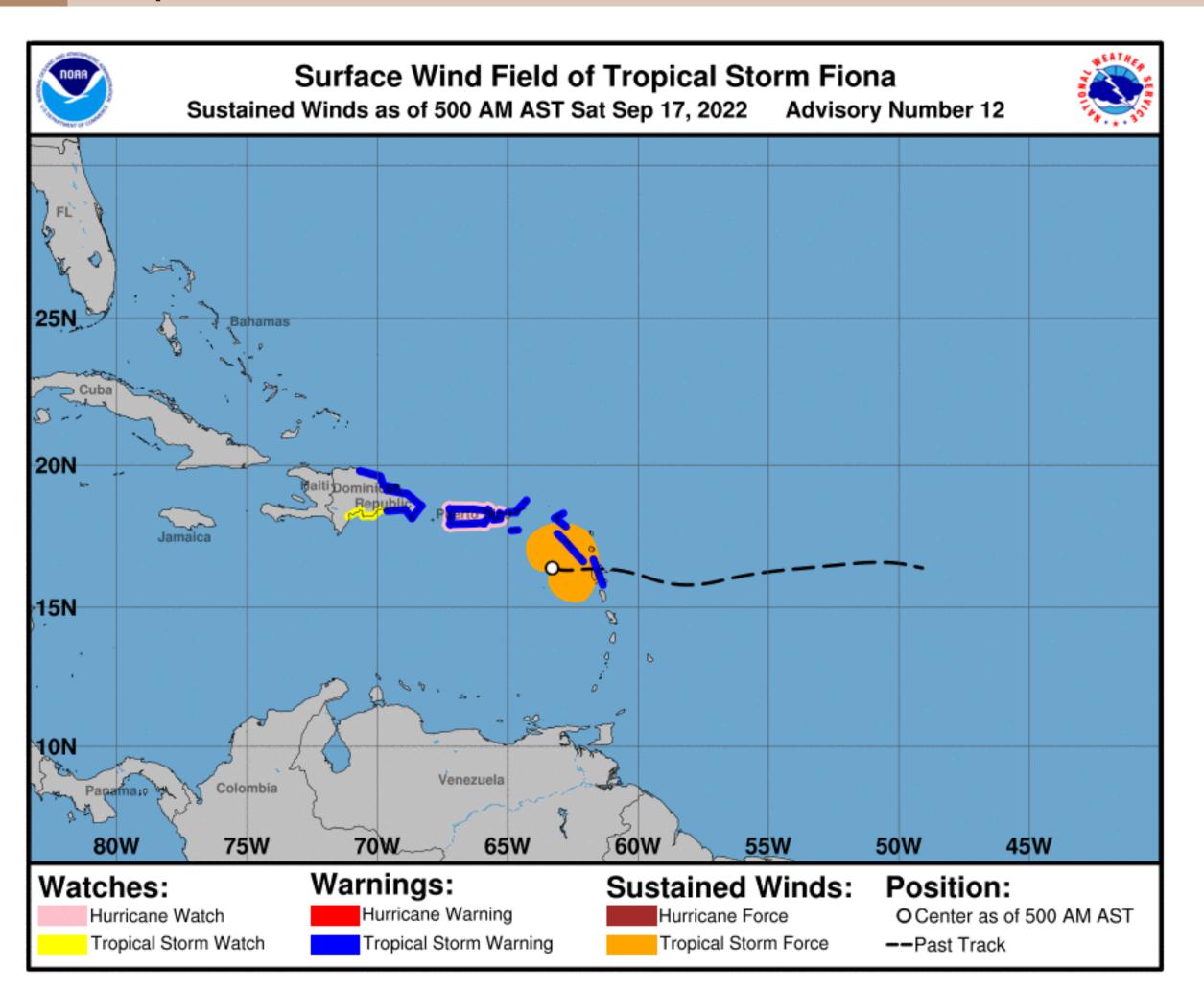






### Situation Overview

#### **Tropical Storm Fiona**





#### ... FIONA EXPECTED TO STRENGTHEN OVER THE NORTHEASTERN CARIBBEAN...

...HURRICANE WATCH ISSUED FOR PUERTO RICO...

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

LOCATION... 16.4N 63.3W

ABOUT 135 MI...215 KM SE OF ST. CROIX

MAXIMUM SUSTAINED WINDS...50 KT

PRESENT MOVEMENT...W OR 275 DEGREES AT 15 KT

MINIMUM CENTRAL PRESSURE... 1000 MB...29.53 INCHES

34 KT...... I I ONE I OOSE OSW 80NW. 12 FT SEAS...240NE 90SE 60SW 210NW. PEAK SEAS 15 FT





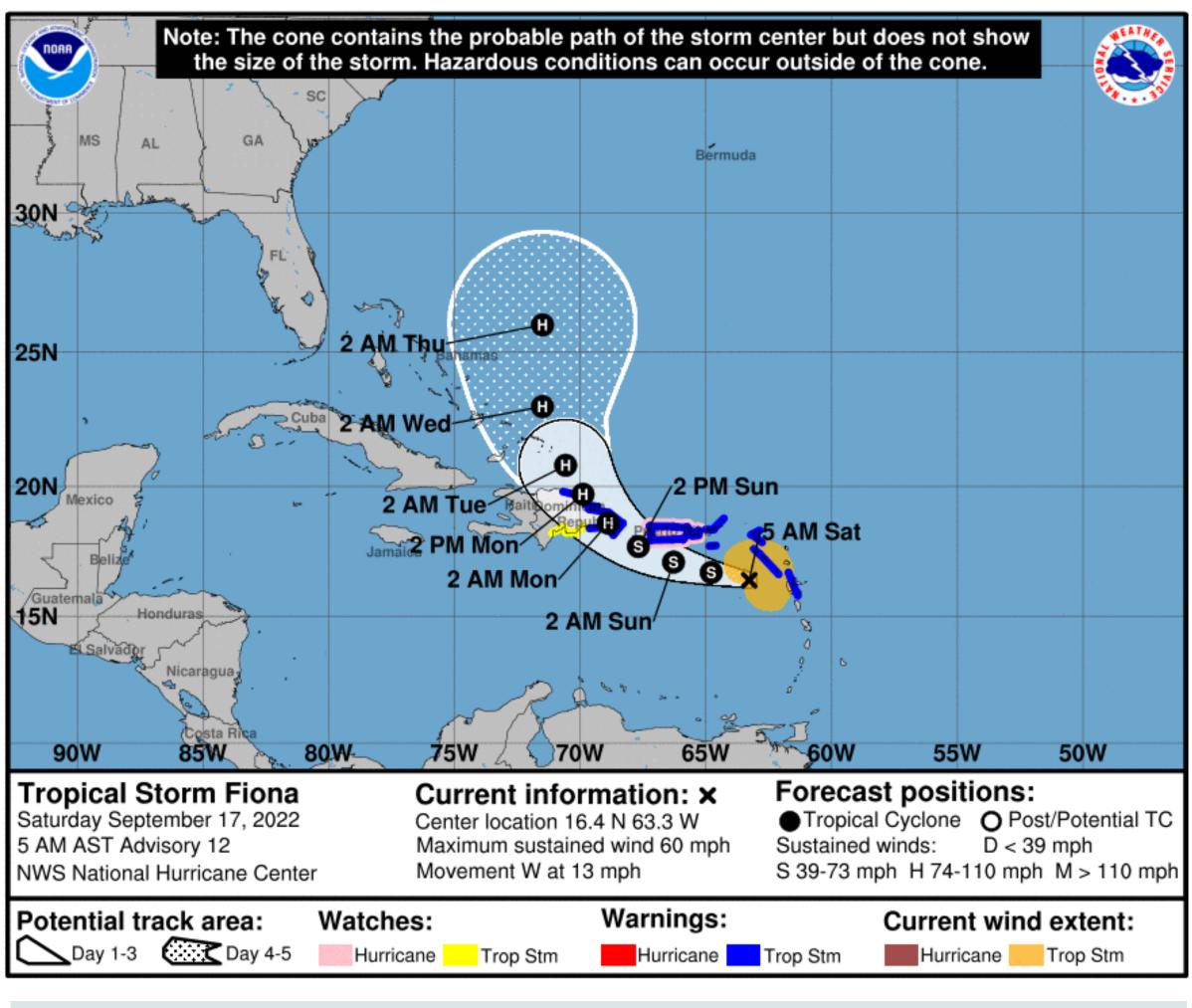






### Forecast Information

#### **Tropical Storm Fiona**



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

9/17/2022 8:04 AM



- W to NW motion with slower forward speed through the weekend
- Turn to NW Monday
- Strengthening forecast, Hurricane Watch issued for Puerto Rico

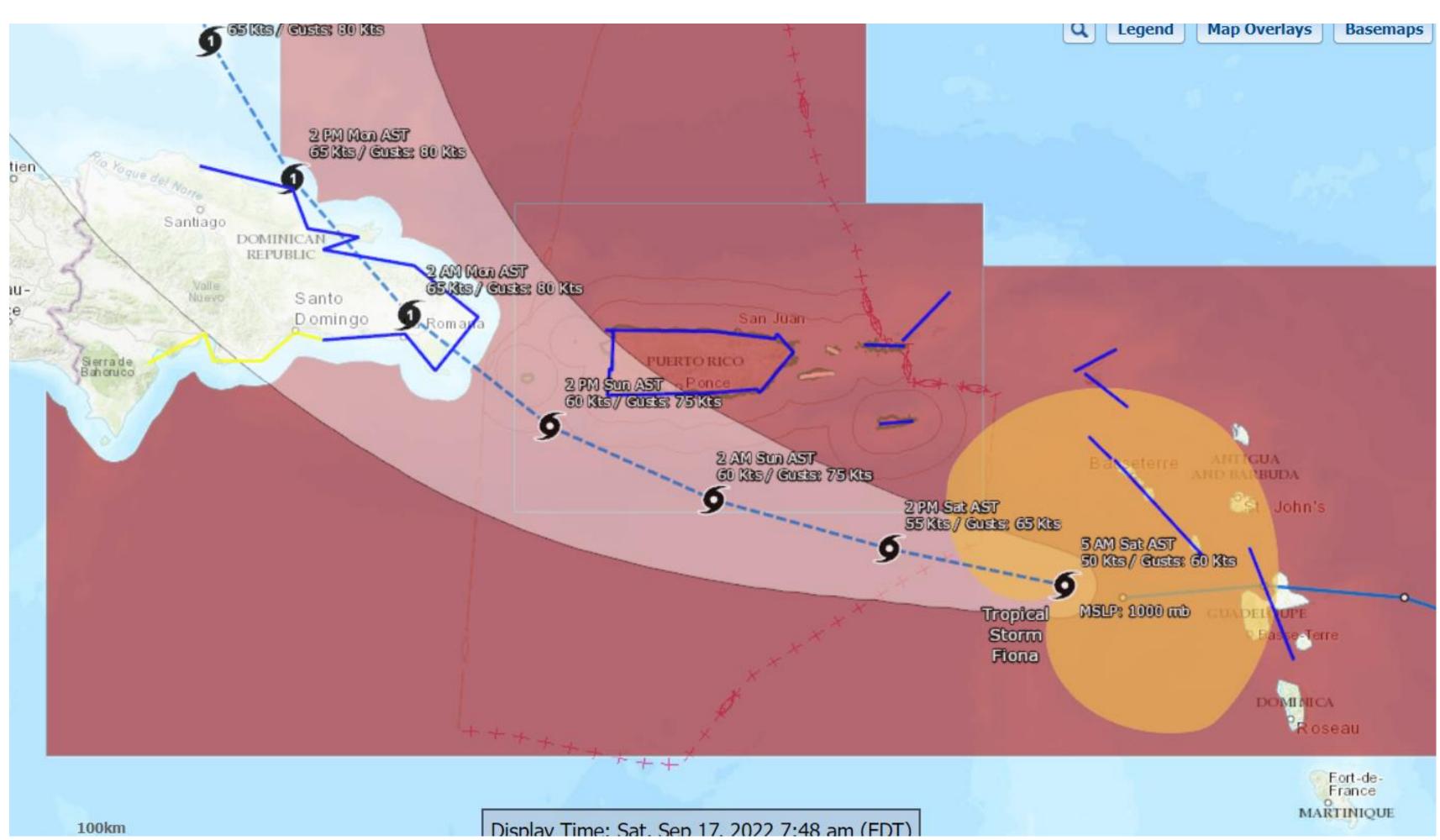






## Hazards Map

#### **Tropical Storm Fiona**



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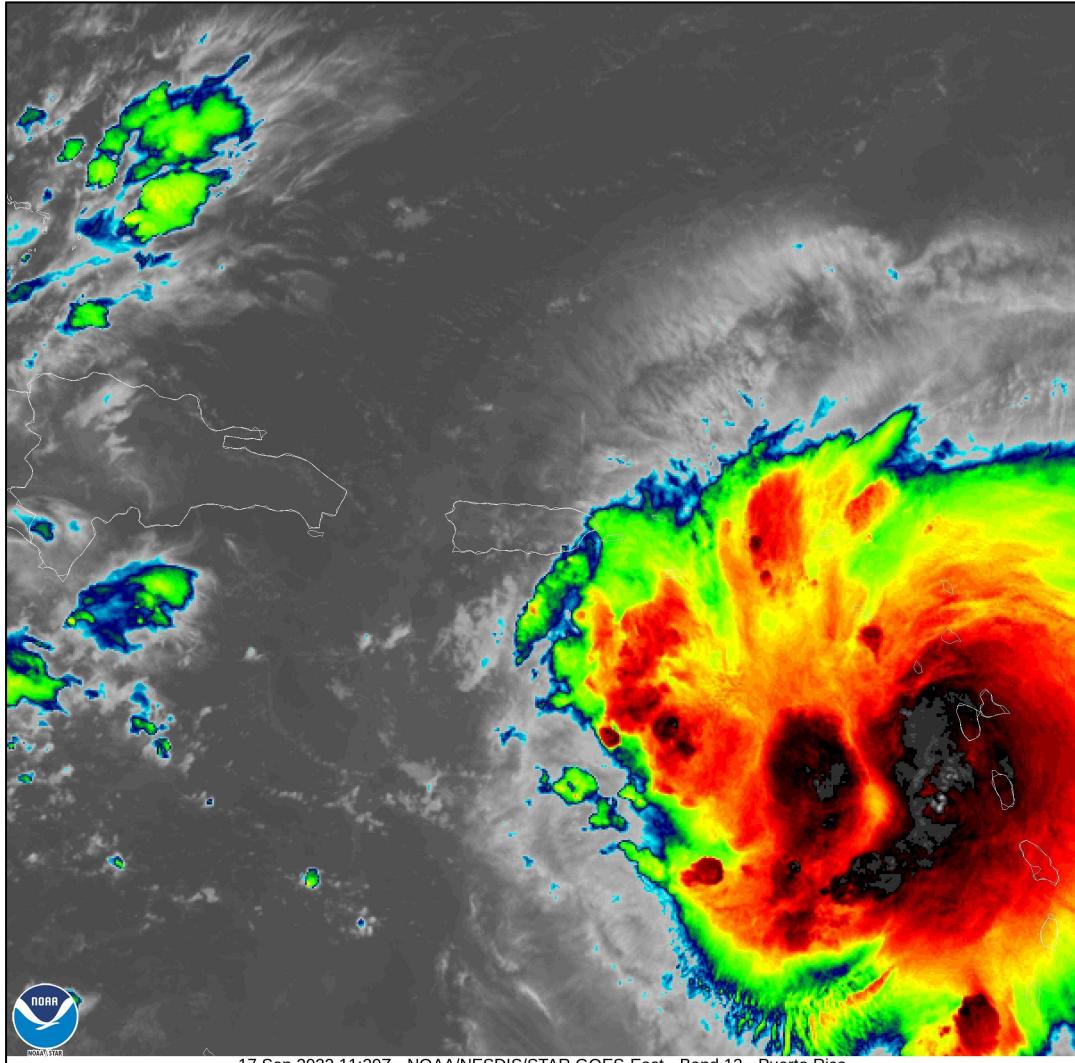
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### Current Satellite View

#### Tropical Storm Fiona



17 Sep 2022 11:20Z - NOAA/NESDIS/STAR GOES-East - Band 13 - Puerto Rico

9/17/2022 8:04 AM

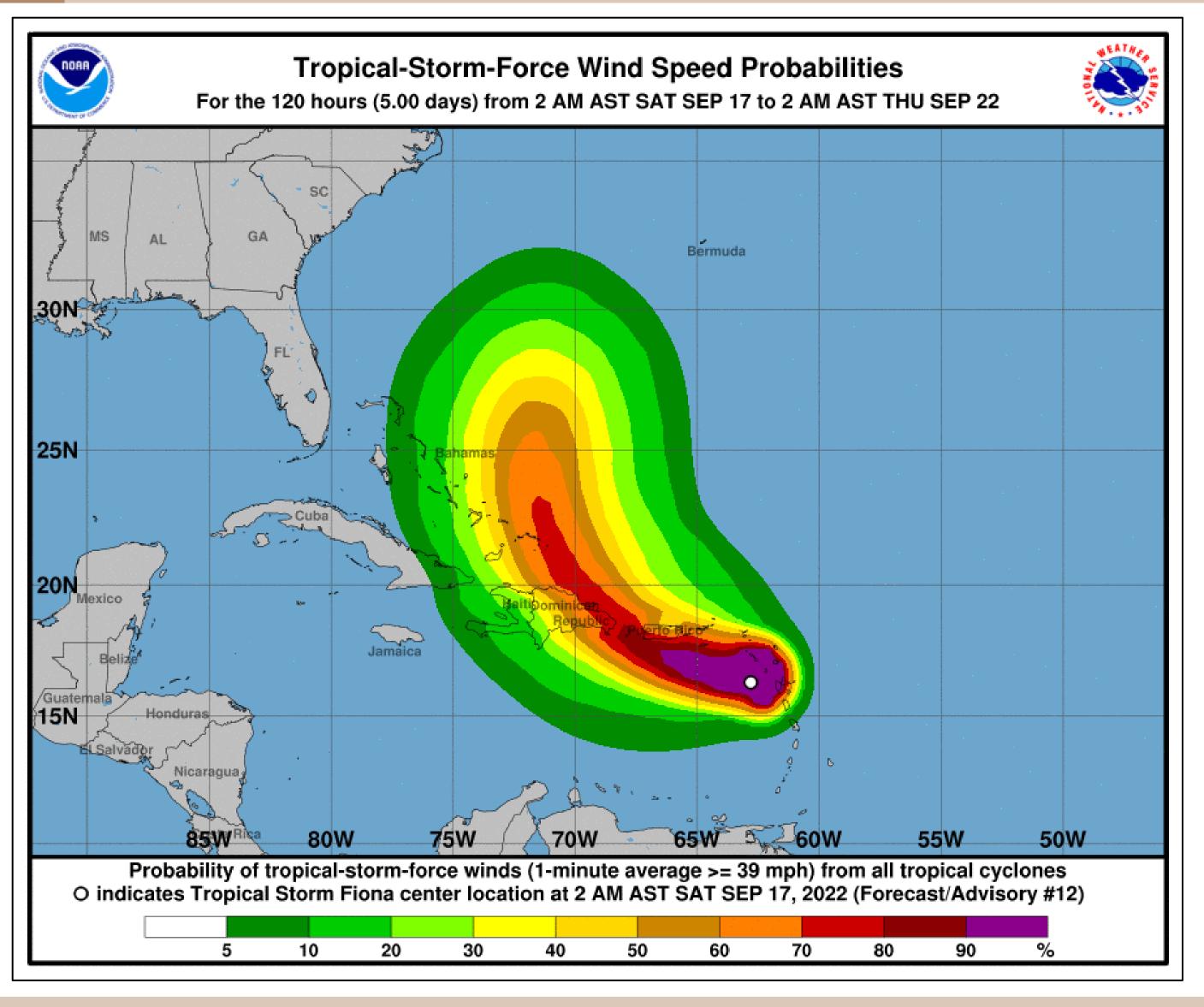


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## T.S. Wind Speed Probabilities

#### **Tropical Storm Fiona**



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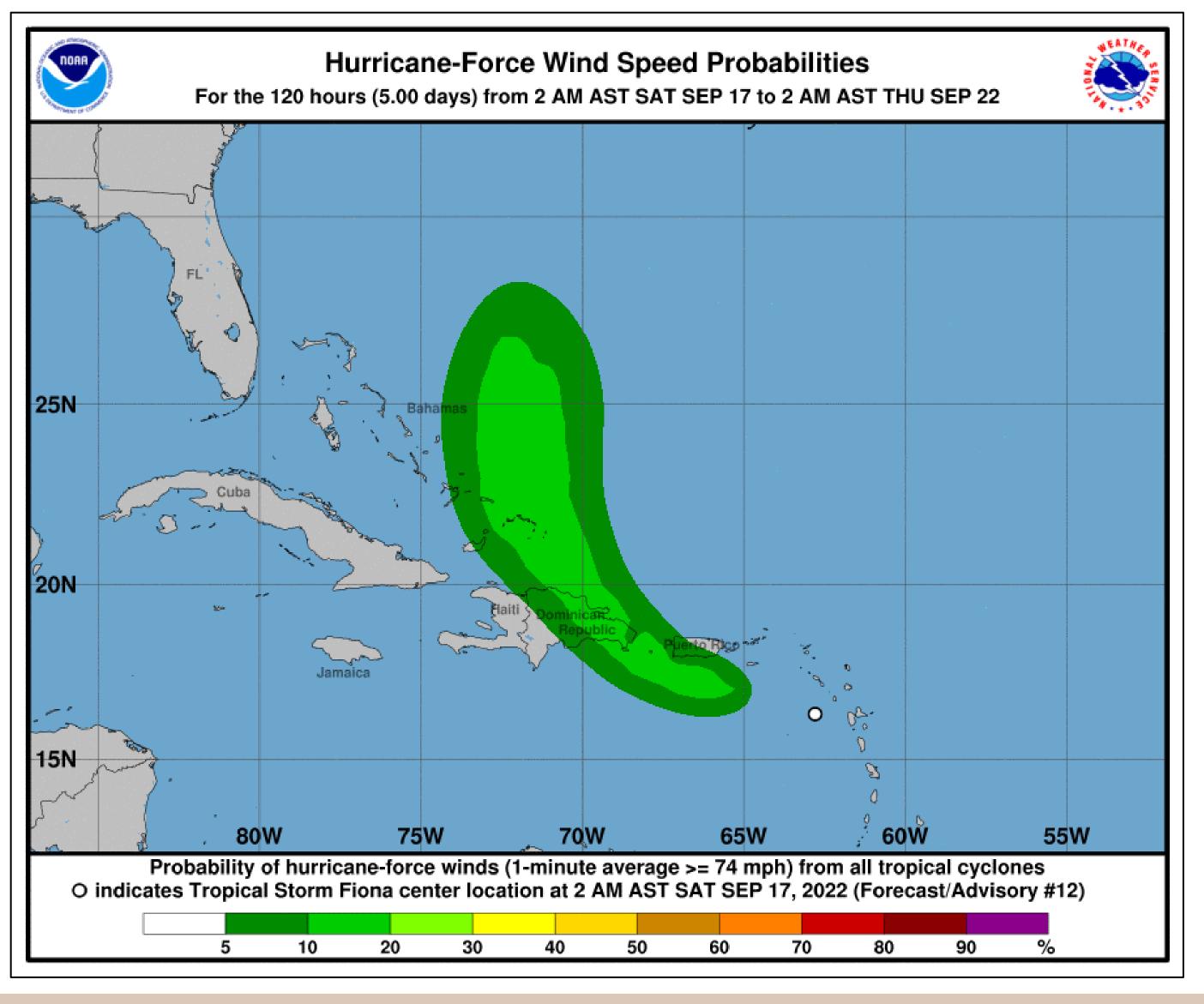


- St Thomas 60%
- St John 60%
- St Croix 80%
- Vieques 70%
- San Juan 50%
- Ponce 70 %
- Aguadilla 80%



## Hurricane Wind Speed Probabilities

#### **Tropical Storm Fiona**



9/17/2022 8:04 AM



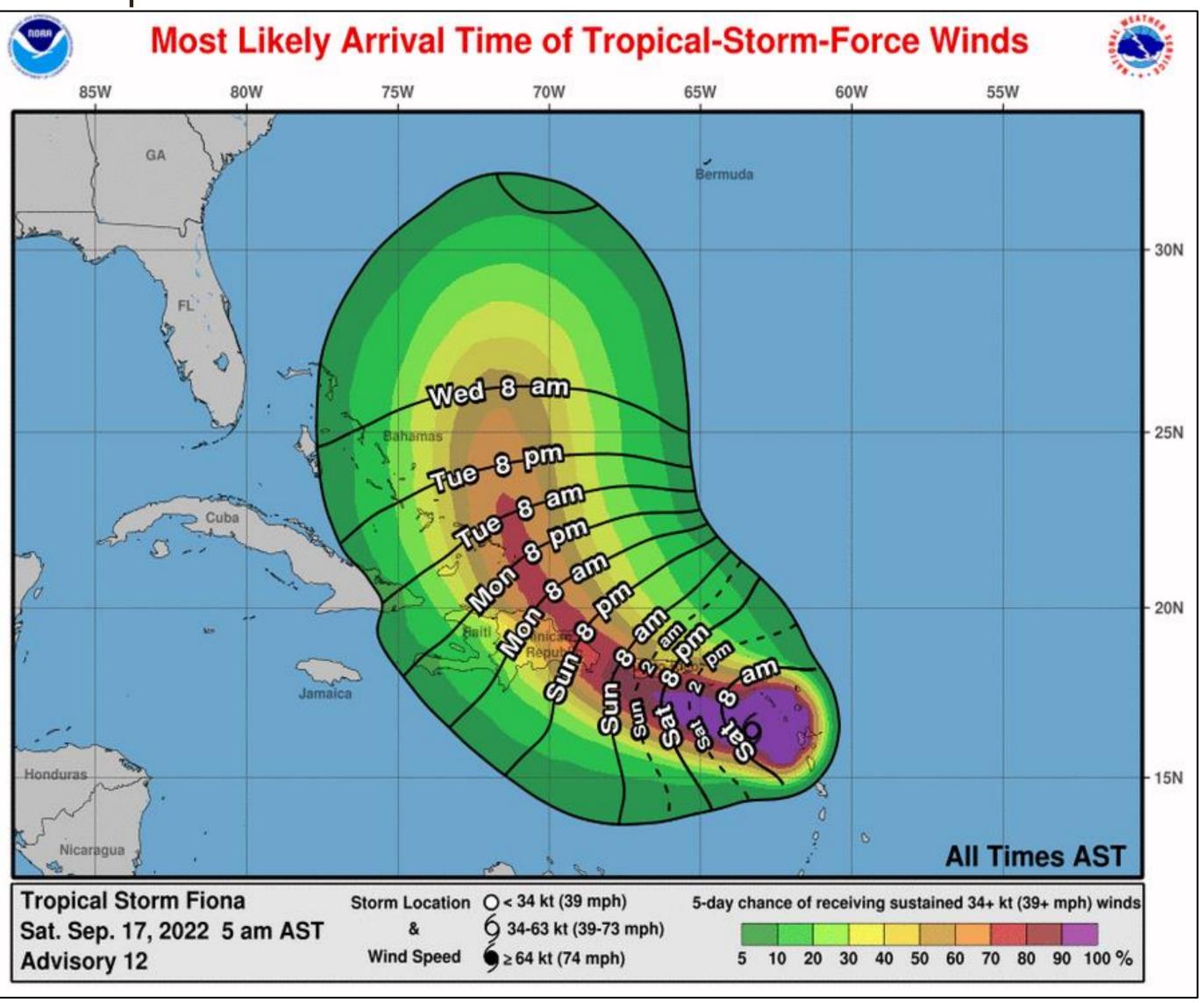
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- St Thomas 5%
- St John 5%
- St Croix 5%
- Vieques 5%
- San Juan 5%
- Ponce 5 %
- Aguadilla 5%



#### Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities

#### **Tropical Storm Fiona**



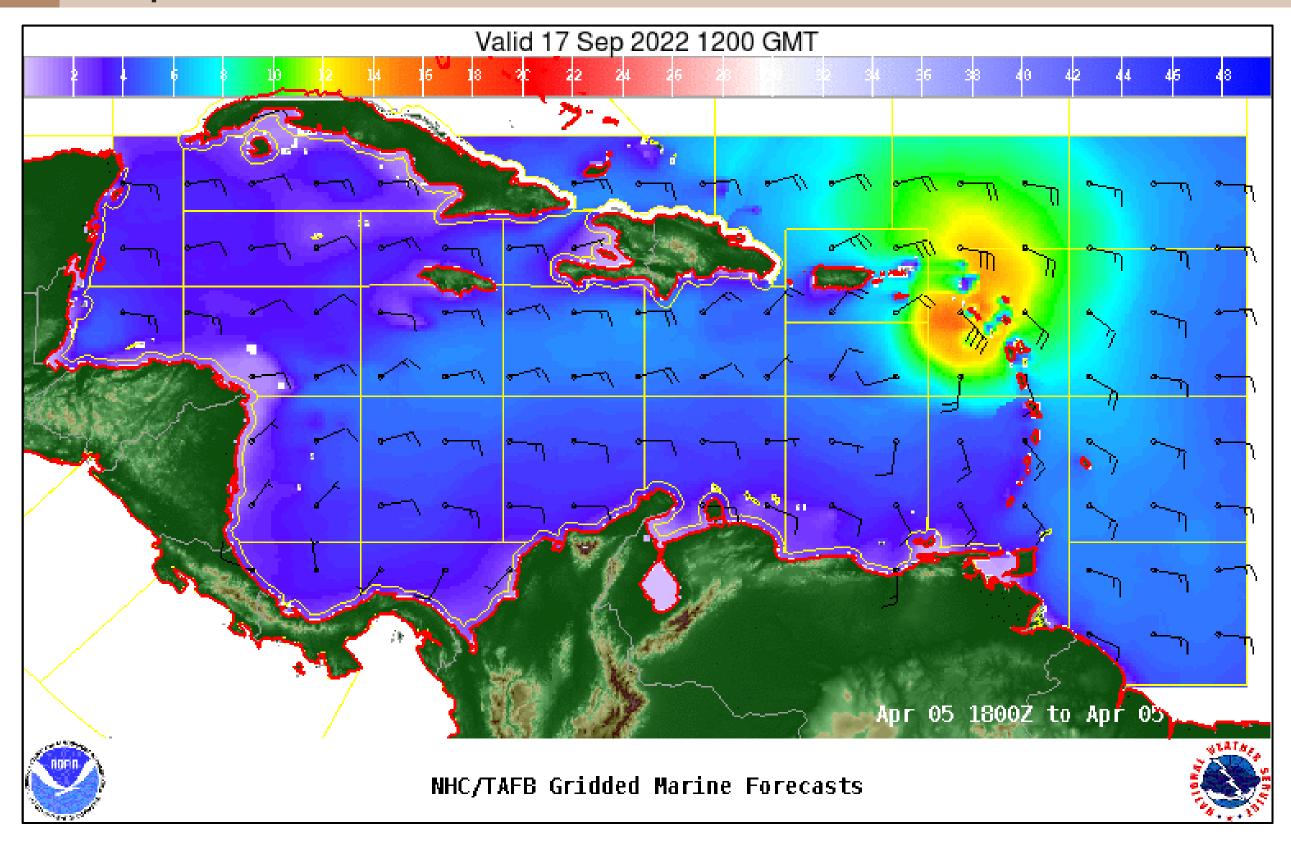
9/17/2022 8:04 AM



- US Virgin Islands early this afternoon Puerto Rico sunset this evening
- TS force winds end Sunday morning for USVI, early Monday morning Puerto Rico

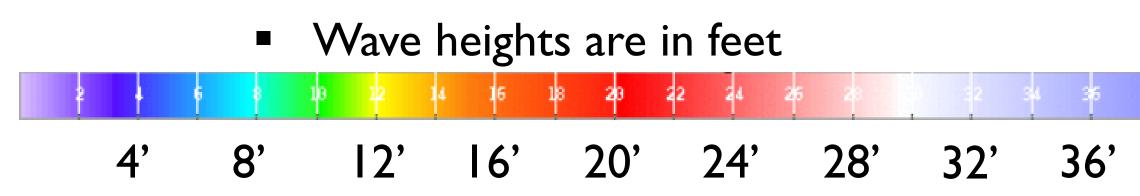


#### **Tropical Storm Fiona**





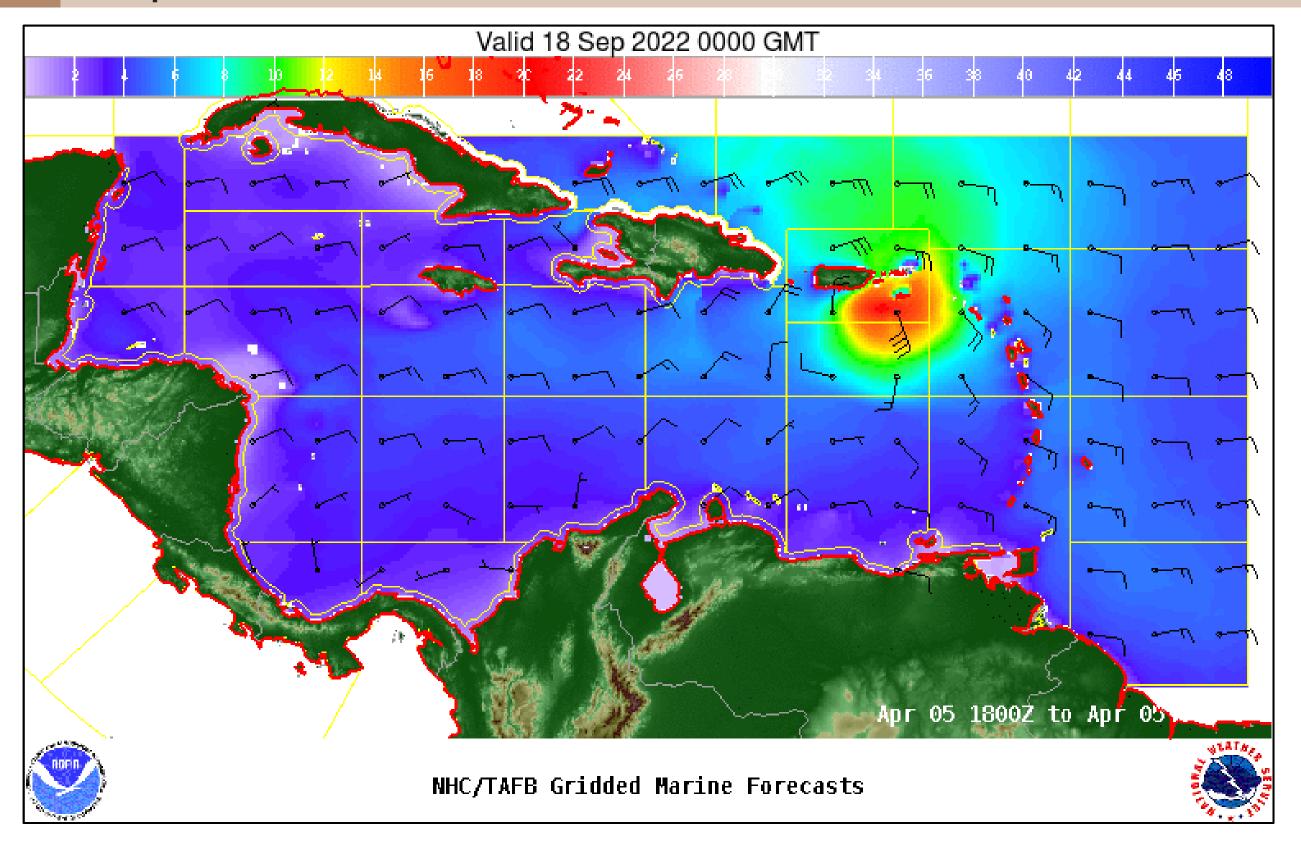
### **Current Conditions** 8 AM EDT Saturday September 17 Peak Winds: 50 KT Peak Seas: 15 FT





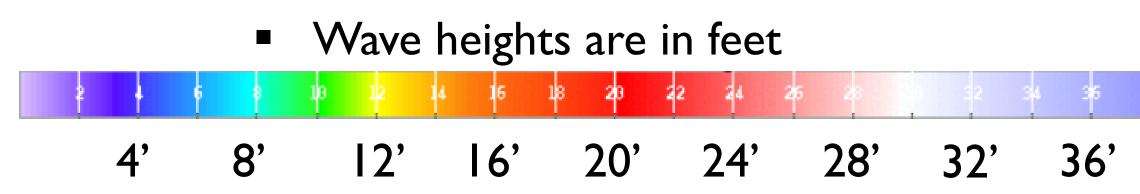


#### **Tropical Storm Fiona**





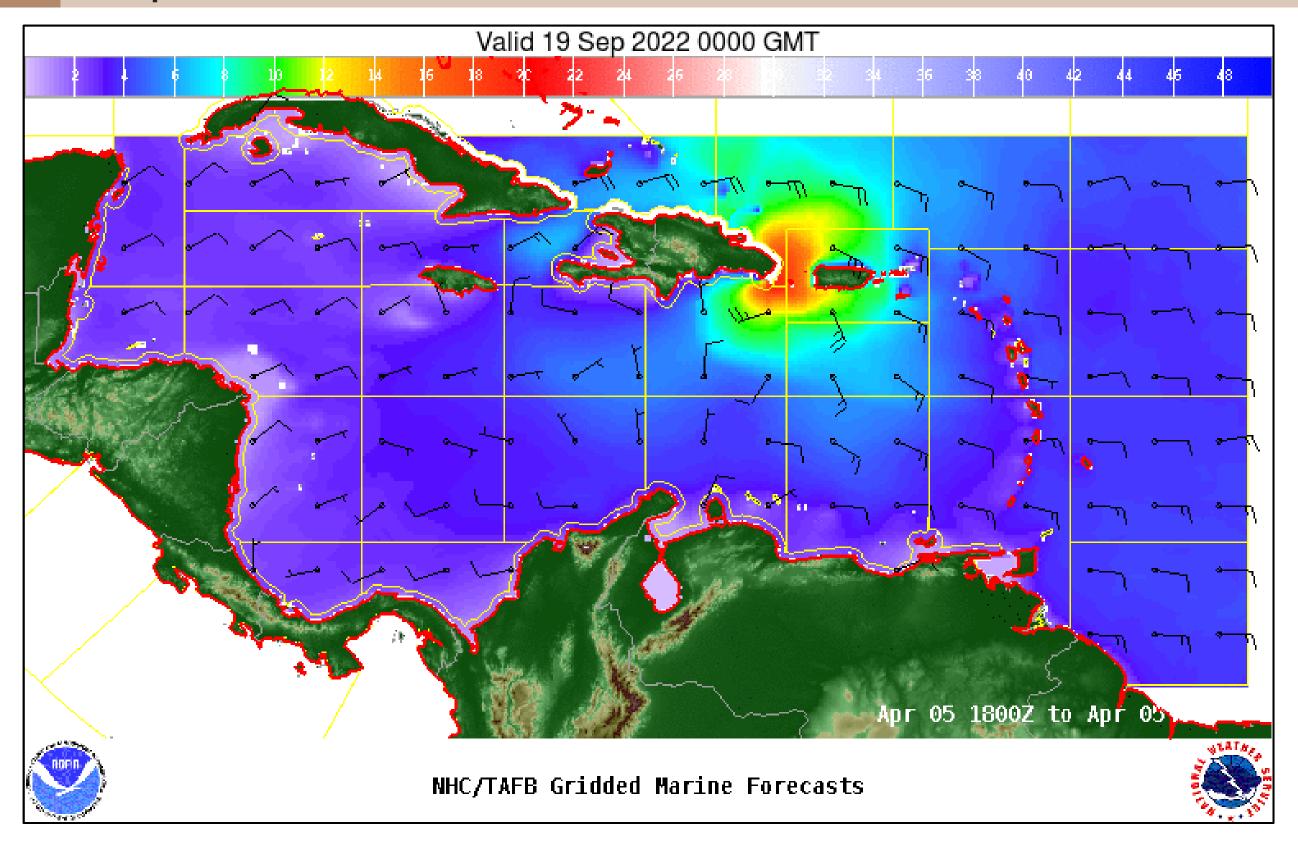
### **12** Hour Forecast 8 PM EDT Saturday September 17 Peak Winds: 55 KT Peak Seas: 18 FT





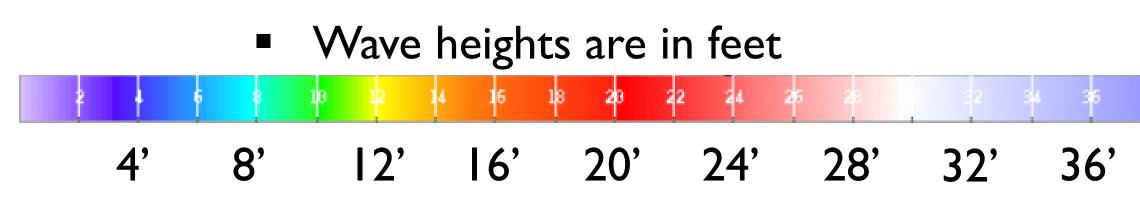


#### **Tropical Storm Fiona**





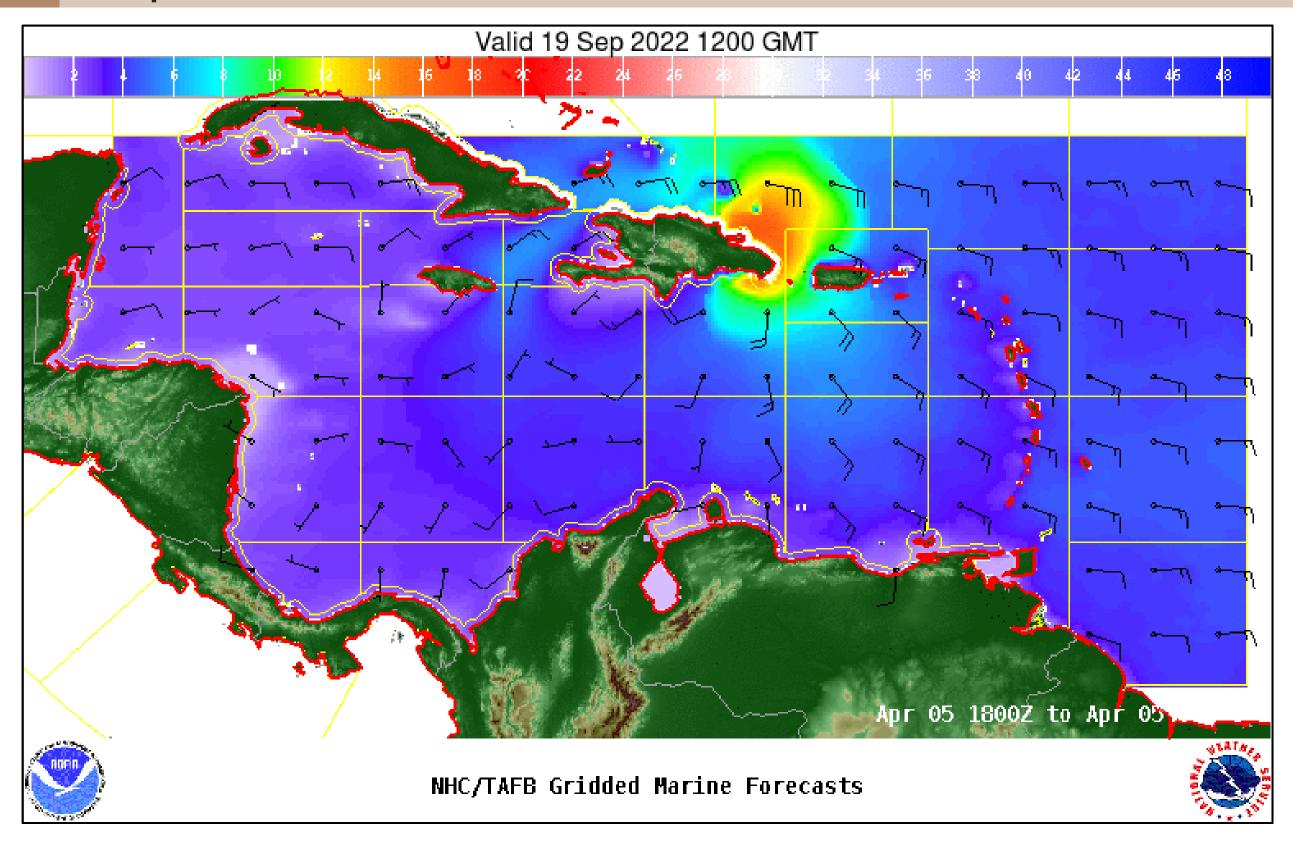
### **36 Hour Forecast** 8 PM EDT Sunday September 18 Peak Winds: 60 KT Peak Seas: 18 FT





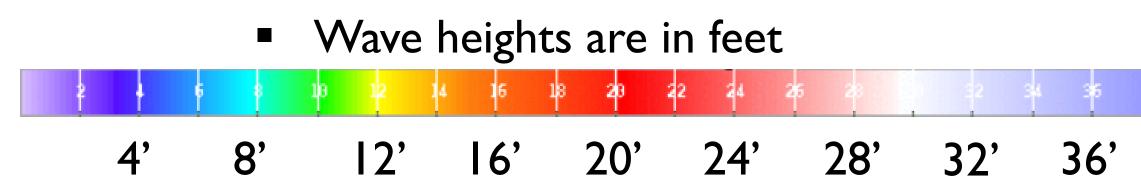


#### **Tropical Storm Fiona**





### **48** Hour Forecast 8 AM EDT Monday September 19 Peak Winds: 60 KT Peak Seas: 18 FT



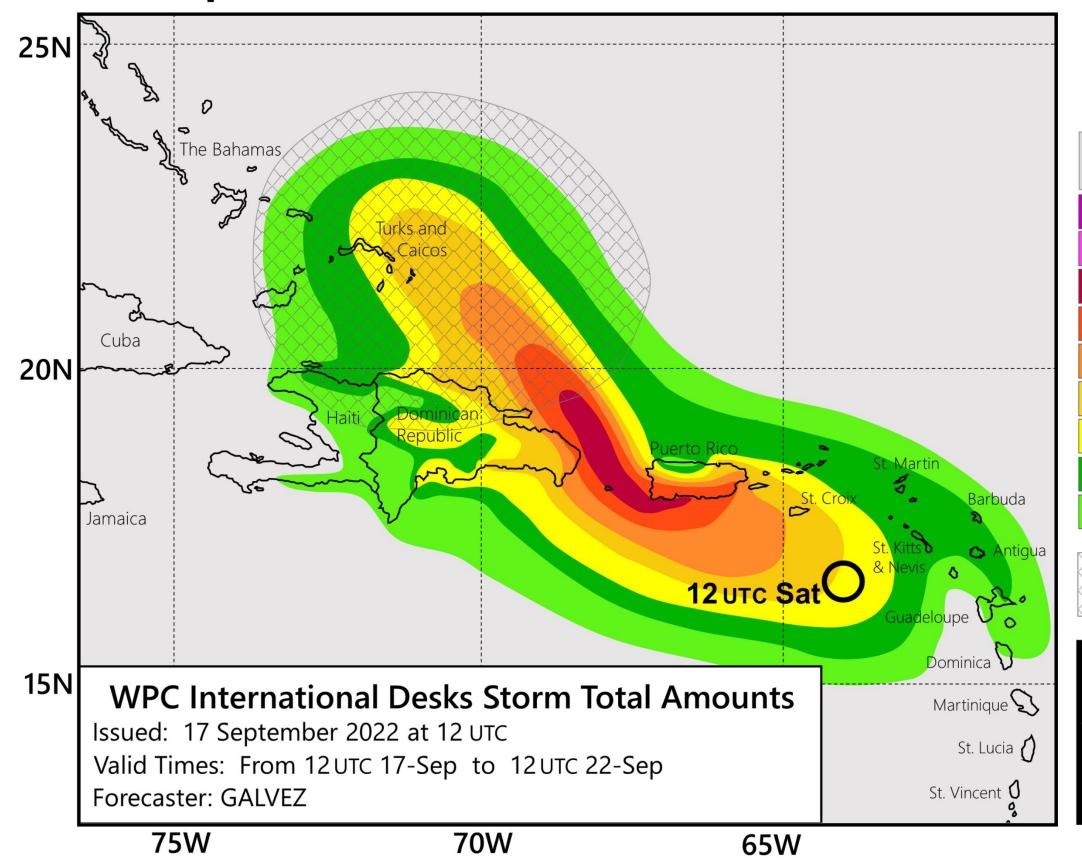




### Expected Storm Total Rainfall

#### **Tropical Storm Fiona**

### **Tropical Storm Fiona Total Rainfall**







Rainfall	
mm	
750+	
500-750	
400-500	
300-400	
200-300	
150-200	
100-150	
50-100	
25-50	



NOTE

This forecast is for anning purposes. A tailed official foreca vdro Meteorologica

- Total rainfall through Wednesday
  - 6 to 12 inches across southern Puerto Rico
  - 3 to 6 inches northern Puerto Rico
- Locally much higher amounts especially higher terrain





### Key Messages

#### **Tropical Storm Fiona**

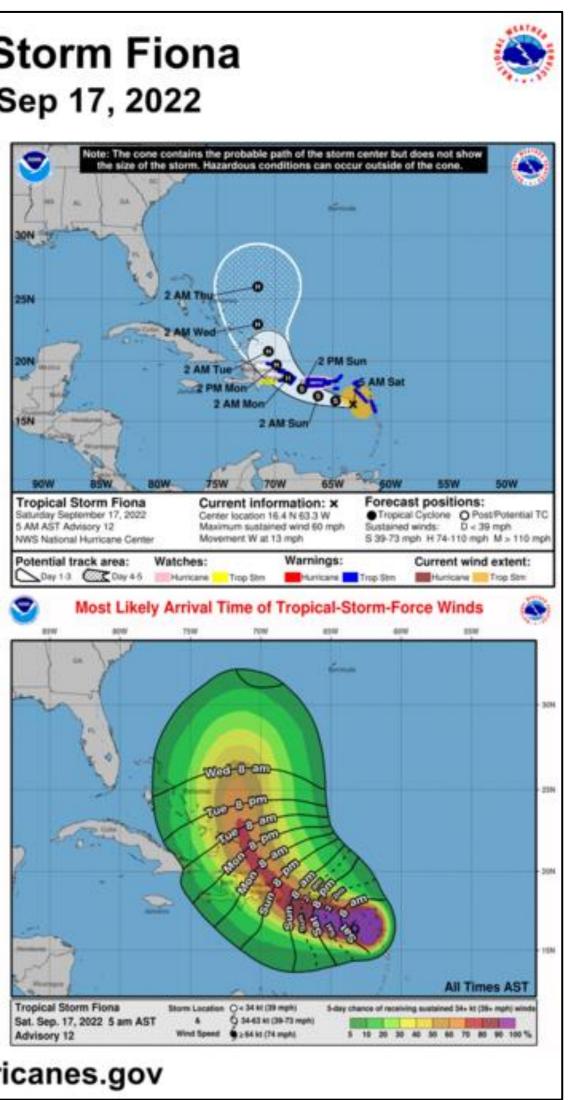


#### Key Messages for Tropical Storm Fiona Advisory 12: 5:00 AM AST Sat Sep 17, 2022

1. Tropical storm conditions will continue to affect portions of the Leeward Islands through this morning. Tropical storm conditions will reach the U.S. and British Virgin Islands this morning and spread westward across Puerto Rico later today and tonight. Fiona could be near hurricane strength as it moves near Puerto Rico late tonight and on Sunday, and a Hurricane Watch has been issued. Additional watches or warnings could be required later today for portions of the Dominican Republic.

2. Heavy rains from Fiona will spread west to British and U.S. Virgin Islands and Puerto Rico today, the Dominican Republic Sunday, and the Turks and Caicos Monday night. This rainfall is likely to produce considerable flood impacts including flash and urban flooding, along with mudslides in areas of higher terrain, particularly in Puerto Rico.

3. Fiona is forecast to strengthen after moving across Hispaniola early next week, and interests in the Turks and Caicos Islands and southeastern Bahamas should continue to monitor forecasts for the storm.



#### For more information go to hurricanes.gov



- Marine Key Messages:
- Seas of 15 to 18 ft across Caribbean waters, 10 to 15 ft Atlantic waters
- Seas subside from east to west on Monday

### **IMPACTS FOR USCG District 7** (through next 5 days) Winds – Moderate Storm Surge – Low Rainfall/Flash Flooding – High Tornadoes – <mark>Low</mark> Waves - Moderate







# 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

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