IMPACTS FOR D7 through next 3 days

Winds - None (over U.S. land)

**Storm Surge – None** 

Rainfall/Flash Flooding - High

**Tornadoes – None** 

Waves - Extreme

# HURRICANE FIONA BRIEFING



8:15 AM EDT

Tuesday, September 20, 2022

Prepared by:

Chris Landsea

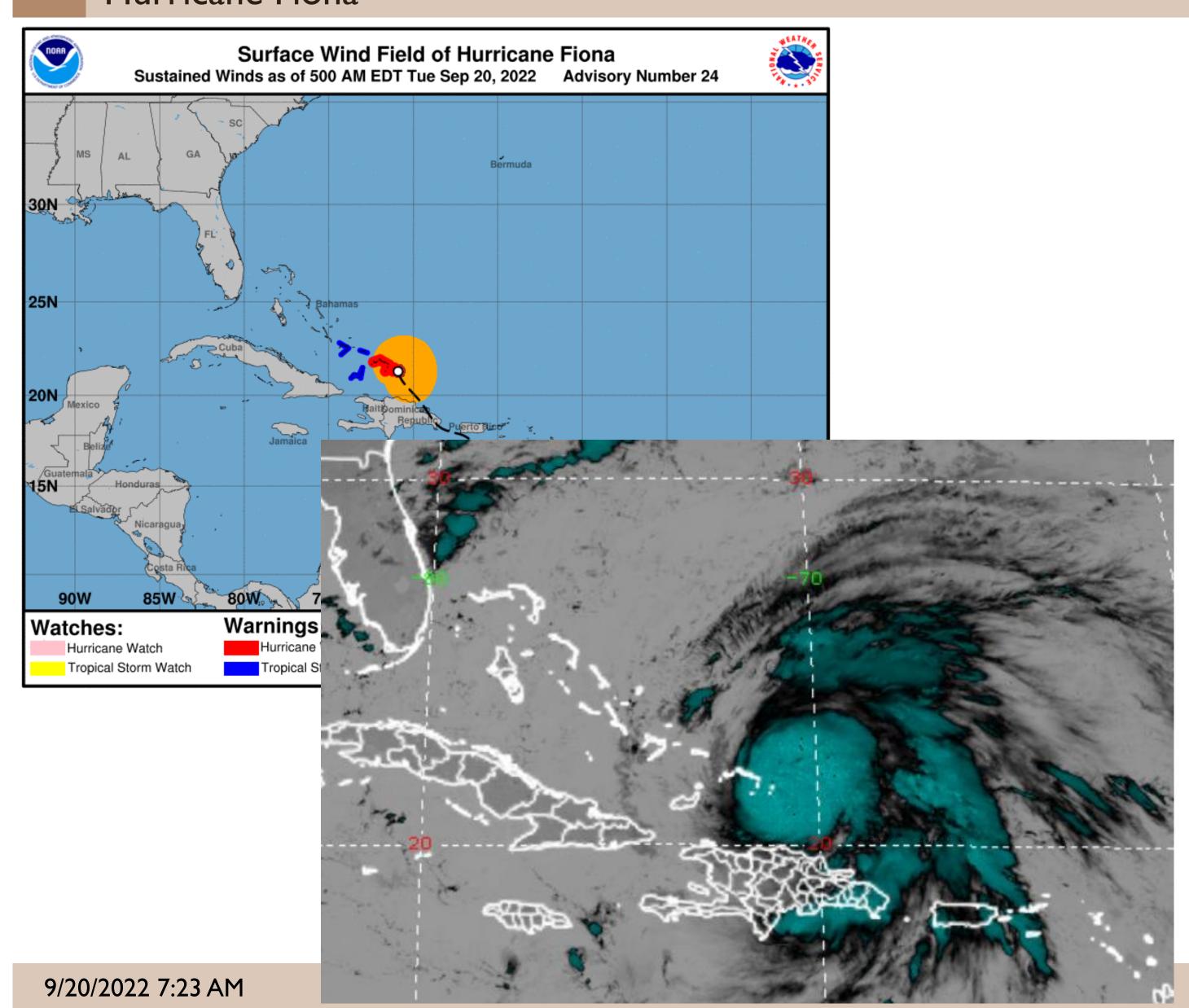
Tropical Analysis and Forecast Branch NWS National Hurricane Center



### Situation Overview

#### Hurricane Fiona





...CENTER OF CATEGORY THREE FIONA NEAR GRAND TURK ISLAND...
...HEAVY RAINFALL AND LIFETHREATENING FLASH FLOODING STILL OCCURRING IN EASTERN PORTIONS OF THE DOMINICAN REPUBLIC...

SUMMARY OF 500 AM EDT INFORMATION

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LOCATION...21.3N 70.9W
ABOUT 15 NM SE OF GRAND TURK ISLAND
MAXIMUM SUSTAINED WINDS...100 KT
PRESENT MOVEMENT...NNW OR 330 DEGREES
AT 9 KT
PEAK SEAS 30 FT

SIZE

64 KT..... 25NE 25SE 20SW 25NW.

50 KT..... 60NE 50SE 40SW 50NW.

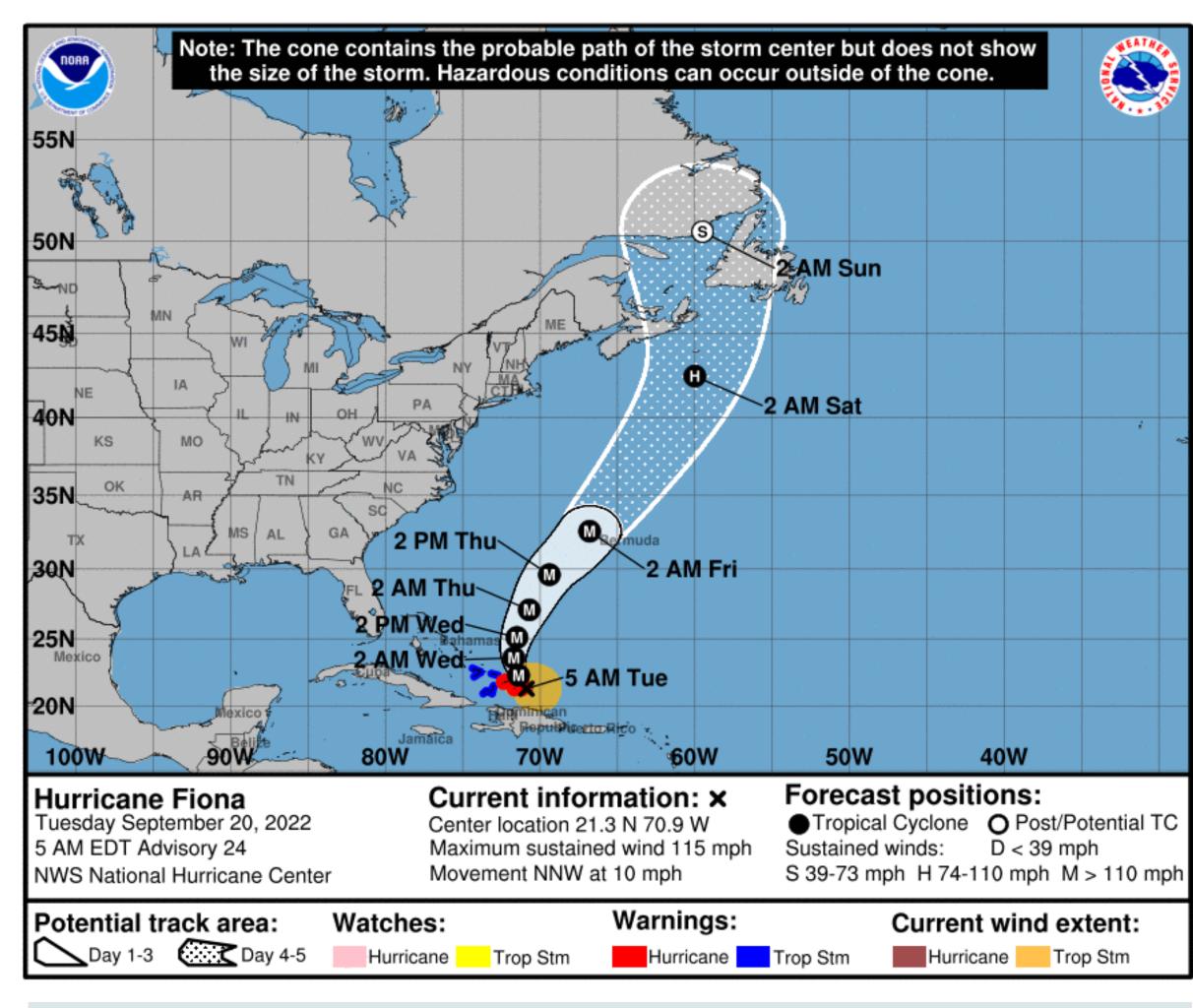
34 KT......130NE 130SE 60SW 100NW.

12 FT SEAS.. 180NE 120SE 90SW 150NW.

### Forecast Information

#### Hurricane Fiona





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

- Fiona will gradually turn toward the northnortheast by Thursday at about the same rate of forward speed.
- The hurricane is anticipated to reach Category 4 status by tomorrow, while it moves over the open Atlantic.
- 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 swatch 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.

#### Hurricane Fiona





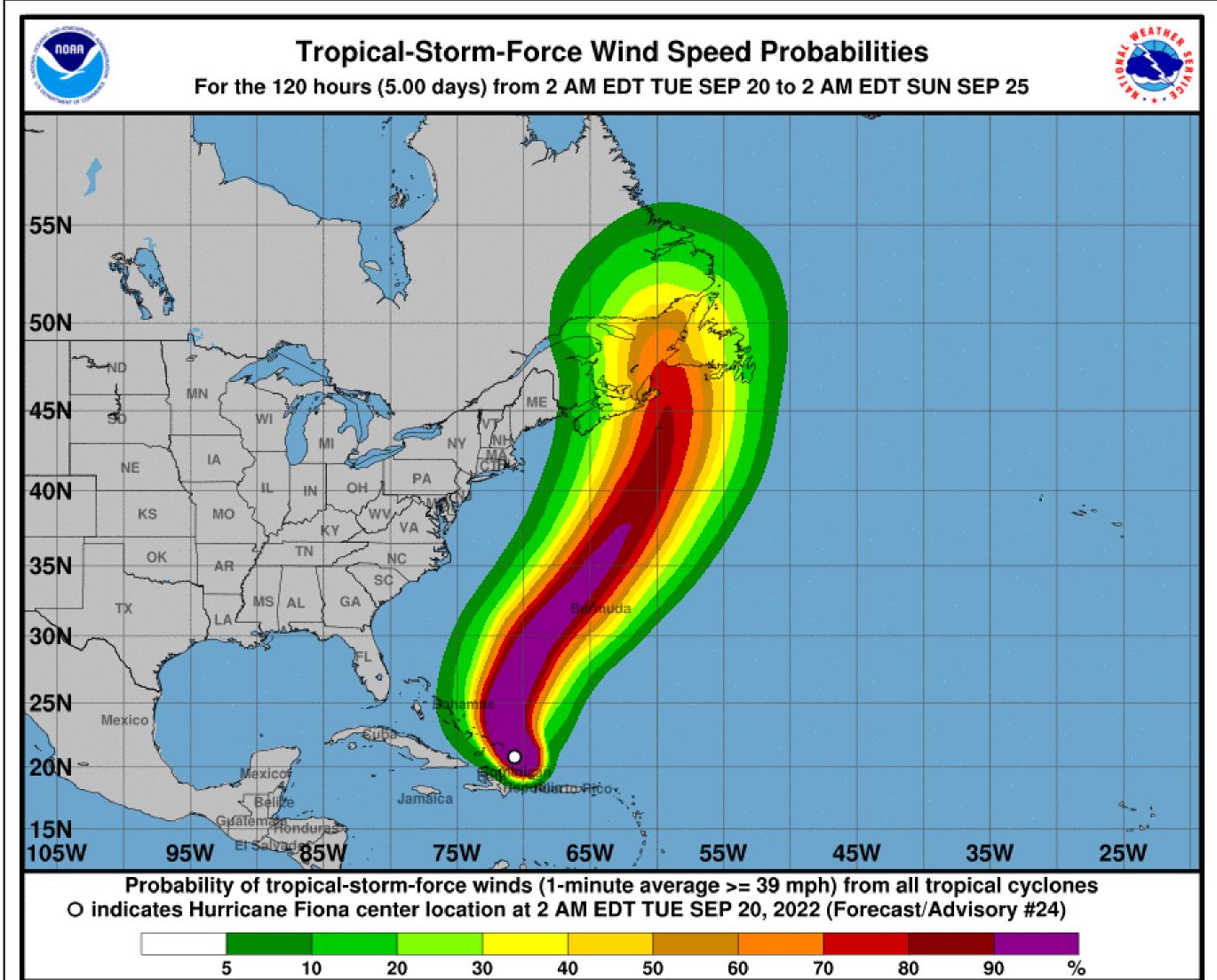
https://nowcoast.noaa.gov/

## T.S. Wind Speed Probabilities

#### Hurricane Fiona



Tropical Analysis and Forecast Branch NWS National Hurricane Center

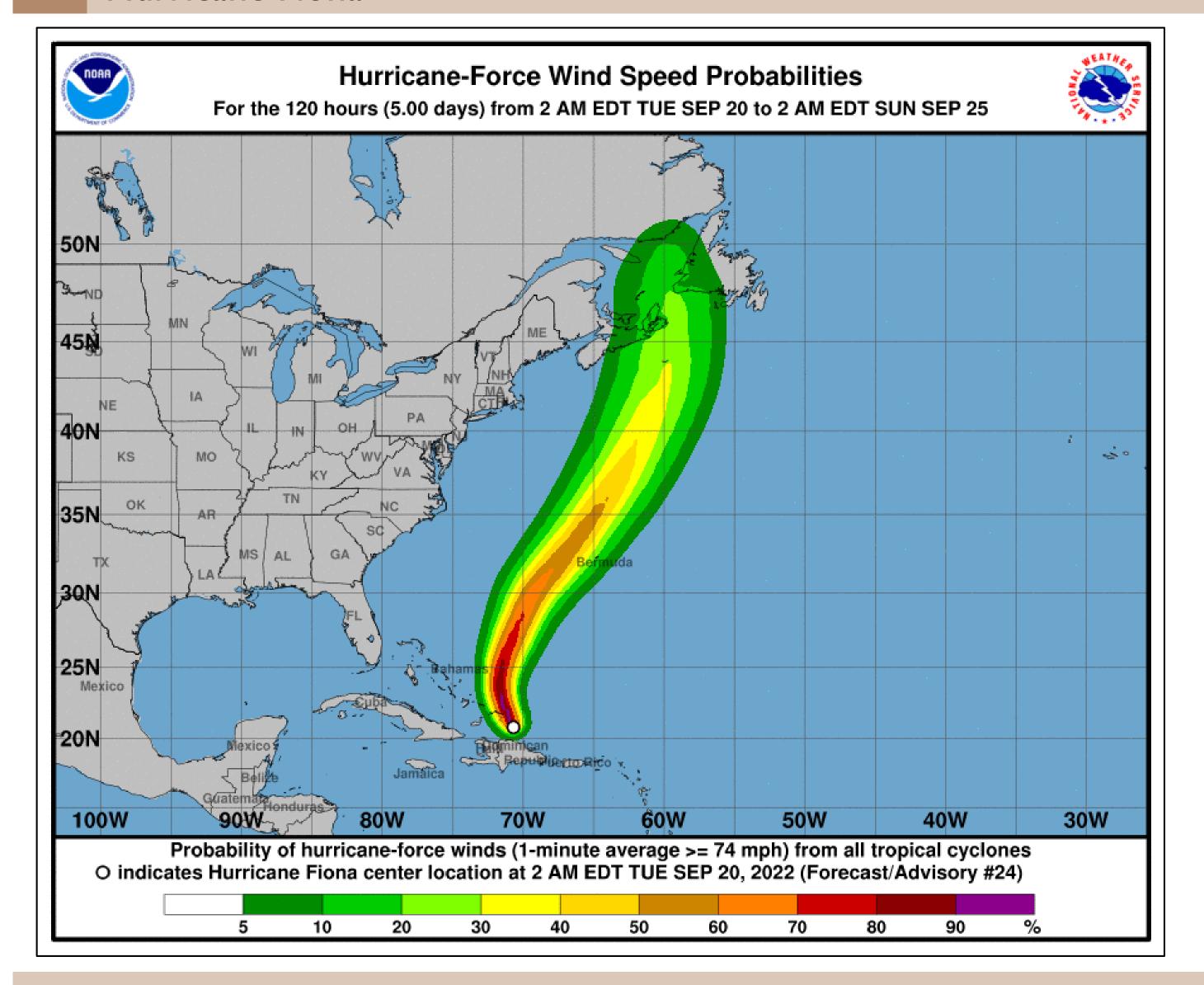


- No U.S. chances of tropical storm winds
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

## Hurricane Wind Speed Probabilities

#### Hurricane Fiona





#### No chances of U.S. hurricane winds

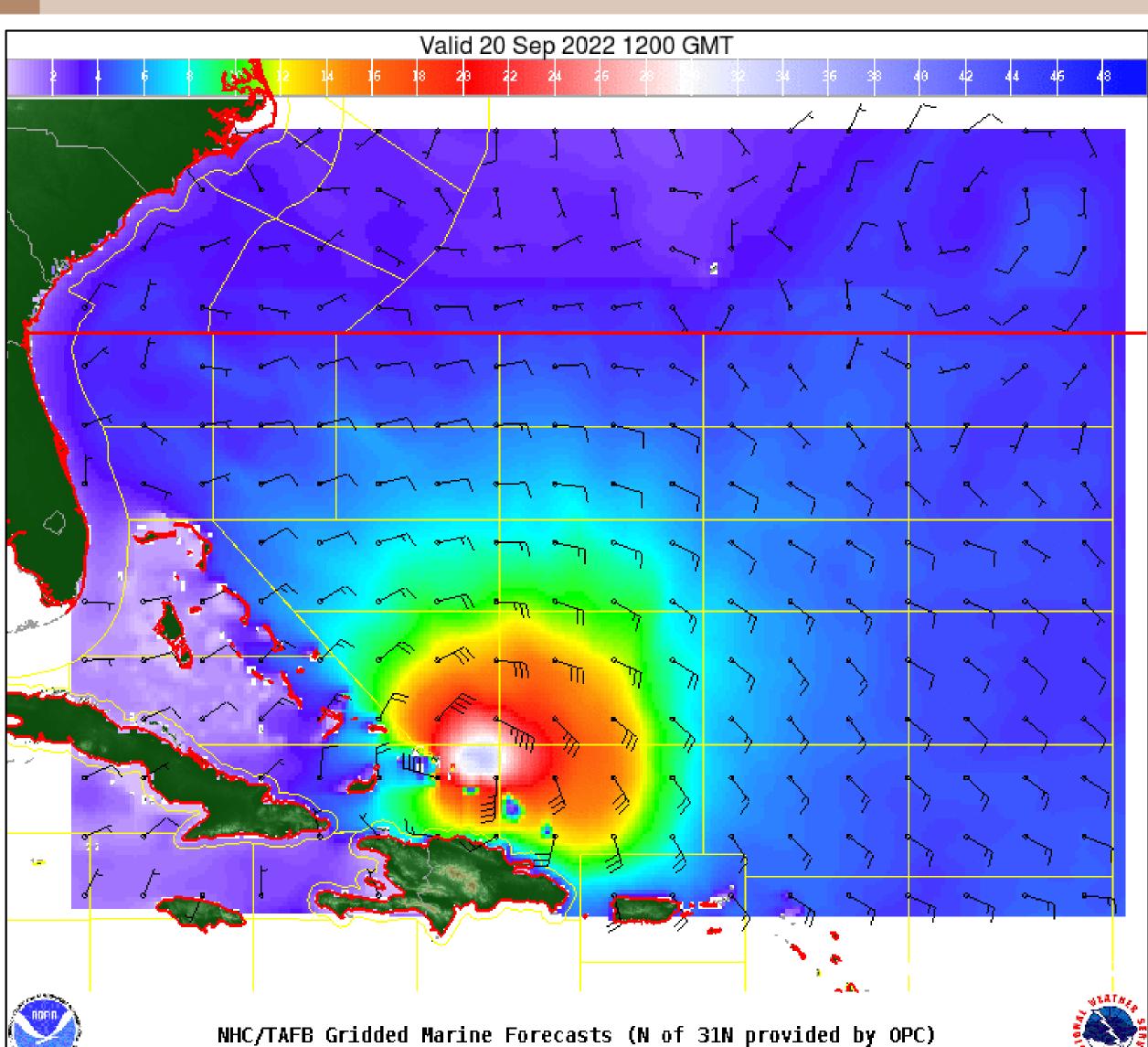
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

### Wind And Waves

#### Hurricane Fiona



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#### **Current Conditions**

8:00 am EDT, Tuesday, September 20th

Peak Winds: 115 kt

Peak Seas: 30 ft



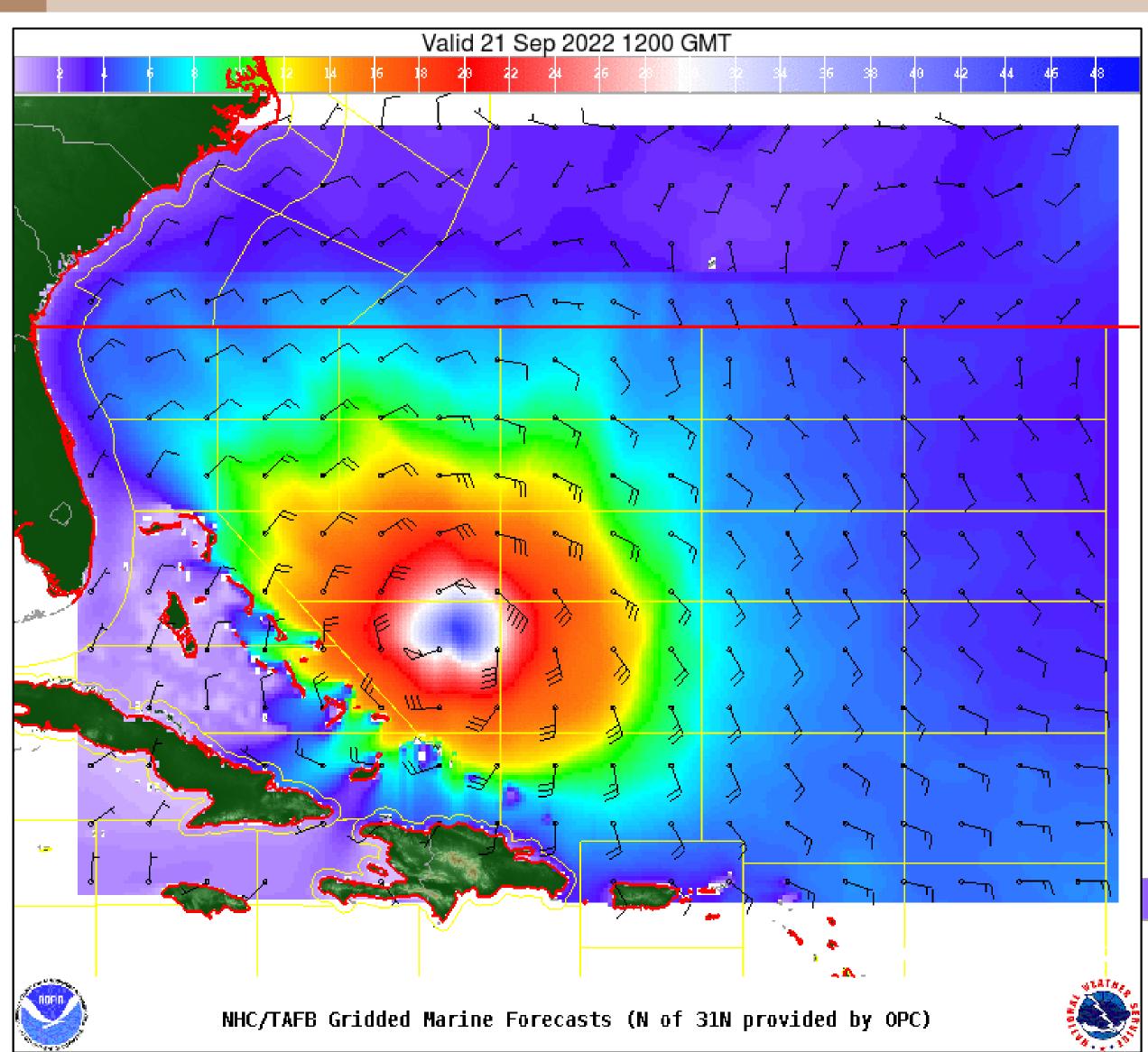


### Wind And Waves

# SER VI

### Tropical Analysis and Forecast Branch NWS National Hurricane Center

#### Hurricane Fiona



#### 24 Hour Forecast

8:00am EDT, Wednesday, September 21st

Peak Winds: 115 kt

Peak Seas: 37 ft

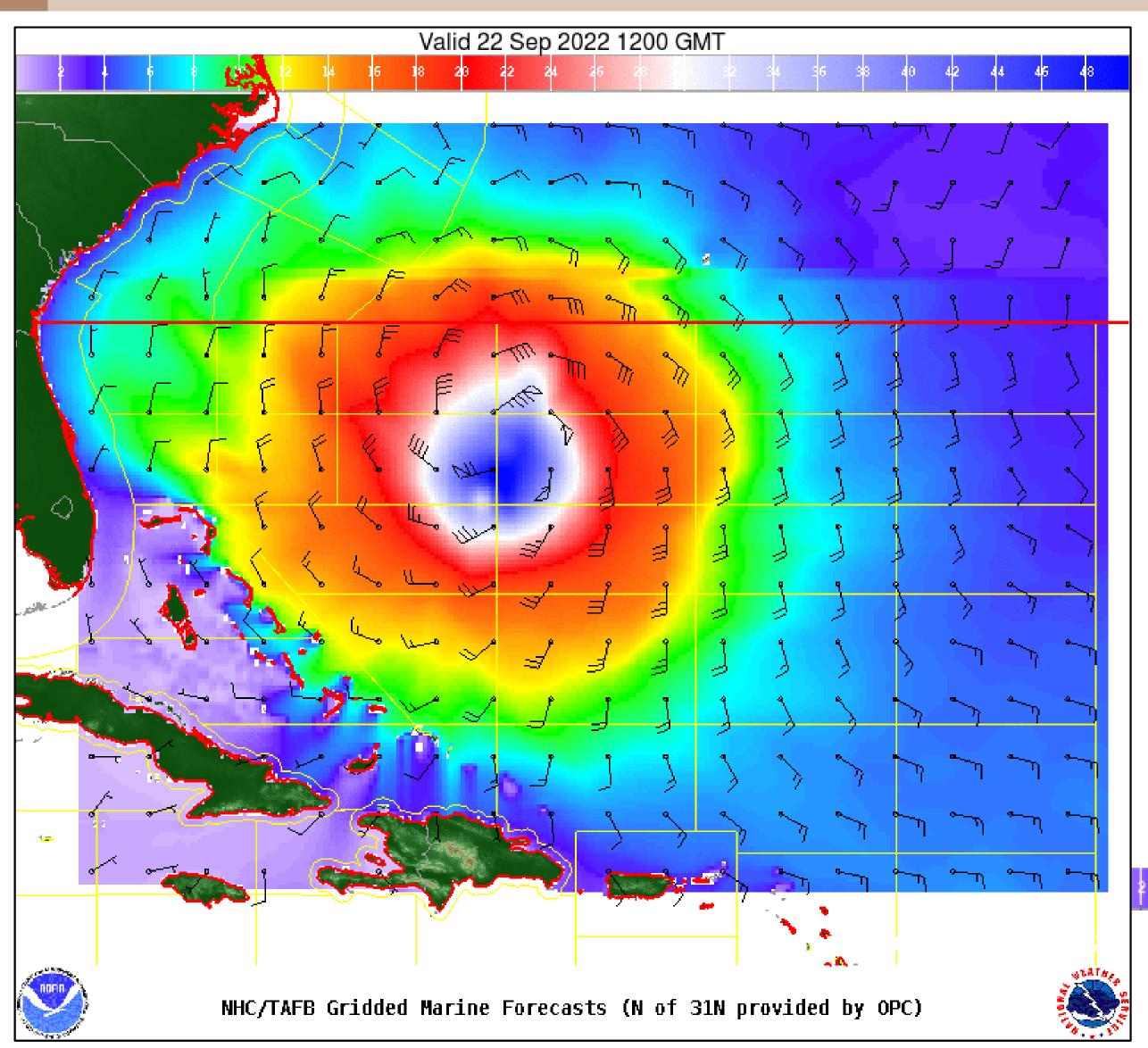




### Wind And Waves

#### Hurricane Fiona





#### **48 Hour Forecast**

8:00am EDT, Thursday, September 22nd

Peak Winds: 120 kt

Peak Seas: 45 ft



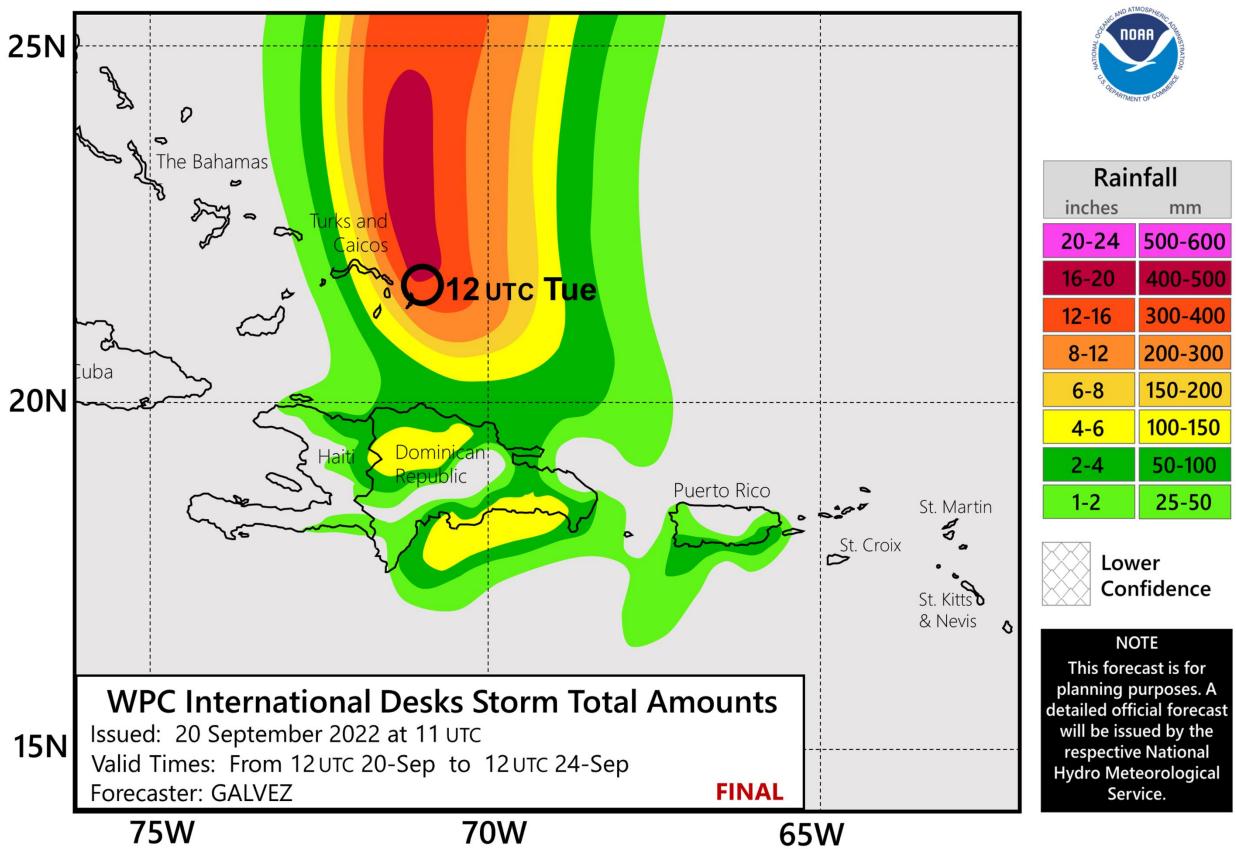


### Expected Additional Rainfall and Flood Watches/Warnings

Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Hurricane Fiona Images from NWS Weather Predication Center/WFO San Juan

#### **Hurricane Fiona Total Rainfall**



Aquadsila Capuas Caguas Caguas

Watches,
Warnings &
Advisories

Tropical Storm
Warning
Flood Warning
Flood Watch
Hazardous Weather
Outlook

Last Map Update: Tue, Sep. 20, 2022 at 6:45:28 am AST

 Total rainfall in inches through Saturday morning.

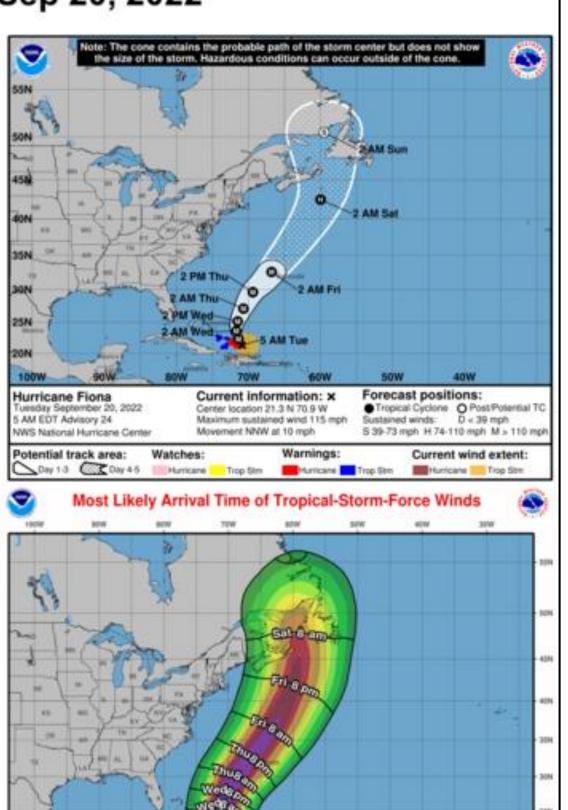
#### Hurricane Fiona





#### **Key Messages for Hurricane Fiona** Advisory 24: 5:00 AM EDT Tue Sep 20, 2022

- 1. Outer bands from Fiona will continue to produce heavy rain over mostly coastal and eastern sections of the Dominican Republic and in local portions of southern Puerto Rico over the next 24 hours as Fiona moves north-northwest over the southwest Atlantic Ocean. Heavy rainfall and localized life-threatening flash flooding will continue over portions of the Dominican Republic today. Heavy rains around the center of Fiona will impact the Turks and Caicos through this afternoon with continued life-threatening flooding. Localized additional flash and urban flooding is possible in the southern portion of Puerto Rico.
- Hurricane conditions are spreading over the Turks and Caicos islands, while tropical storm conditions should spread over the southeastern Bahamas during the next few hours.
- Interests in Bermuda should continue to monitor the progress of Fiona.



For more information go to hurricanes.gov

IMPACTS FOR D7 through next 3 days
Winds - None (over U.S. land)
Storm Surge - None
Rainfall/Flash Flooding - High
Tornadoes - None
Waves - Extreme

### Marine Key Messages:

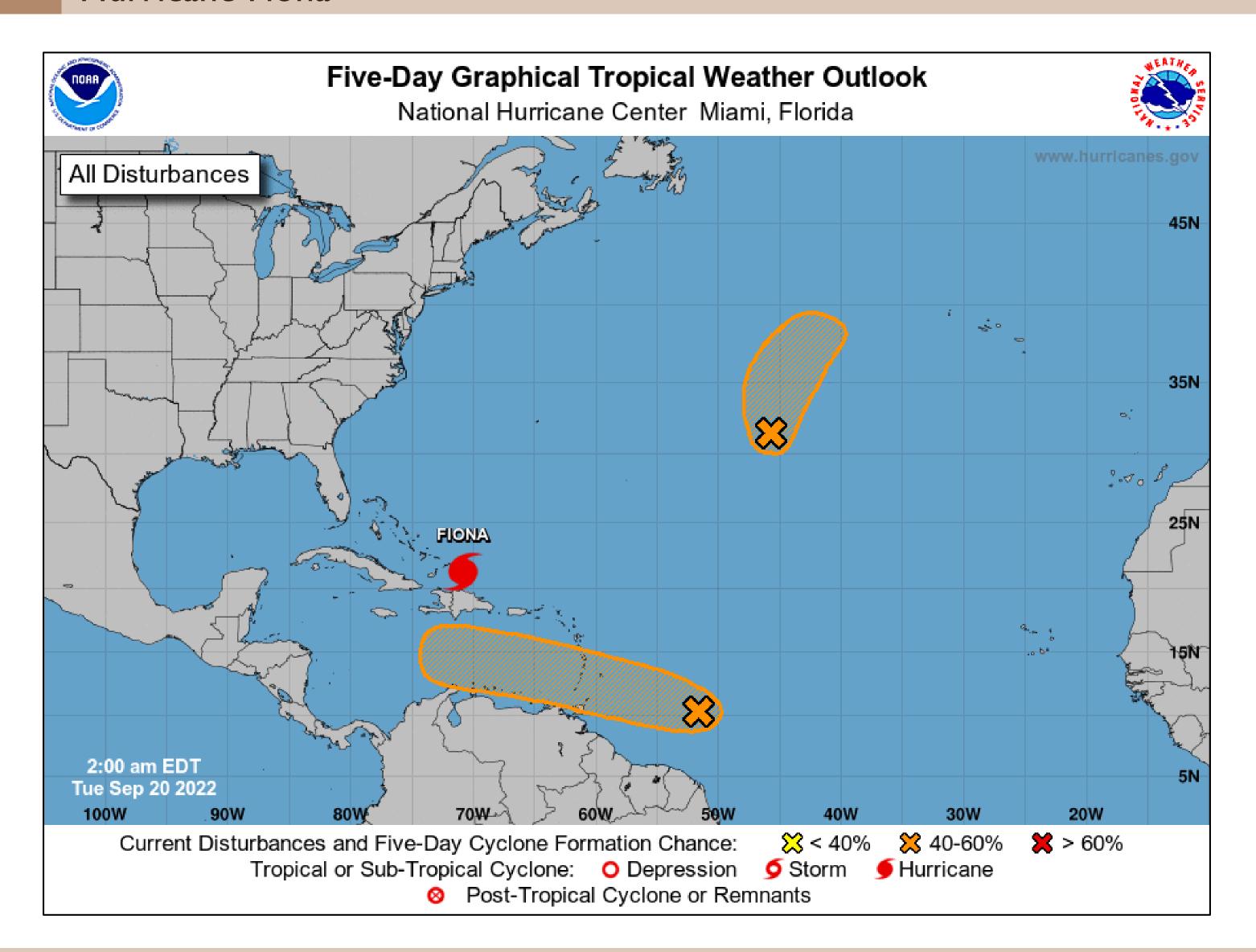
- Seas near 30 ft currently and expected to peak near 45 ft by Thursday
- Large expansion of 12 ft seas and increase to surf/rip current threat along U.S. coast within the next two days

9/20/2022 7:23 AM www.nhc.noaa.gov

A G 34-63 M (39-73 mph)

## Tropical Weather Outlook

#### Hurricane Fiona





#### Central Tropical Atlantic:

- A tropical wave located several hundred miles east of the Windward Islands is producing a broad area of disorganized showers and thunderstorms. Gradual development of this system is forecast during the next several days as the system approaches the Windward Islands, and a tropical depression could form toward the latter part of this week or weekend as the system moves into the eastern and central Caribbean sea.
- \* Formation chance through 48 hours...low...10 percent.
- \* Formation chance through 5 days...medium...40 percent.
- **Reminder:** The hatched area represents a possible development area, not the system's path after development occurs.



## HURRICANE 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