

IMPACTS FOR D7 (through next 5 days)

Winds – High to Extreme

Storm Surge – Medium to Extreme

Rainfall/Flash Flooding – High

Tornadoes – Low to Medium

Waves - High

TROPICAL DEPRESSION NINE BRIEFING



3:00 PM EDT
Friday, September 23, 2022

Prepared by:
Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*

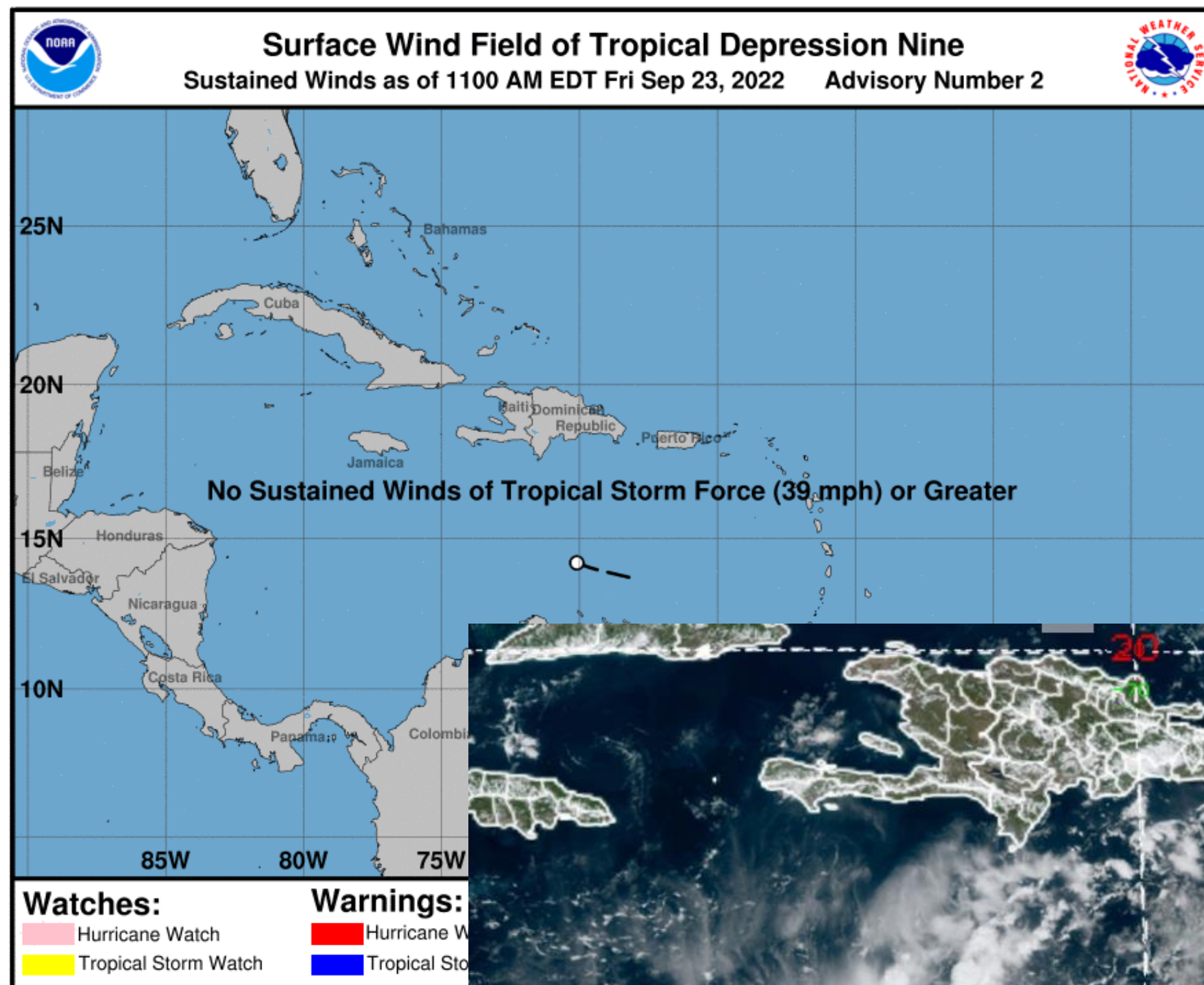


Situation Overview

Tropical Depression Nine



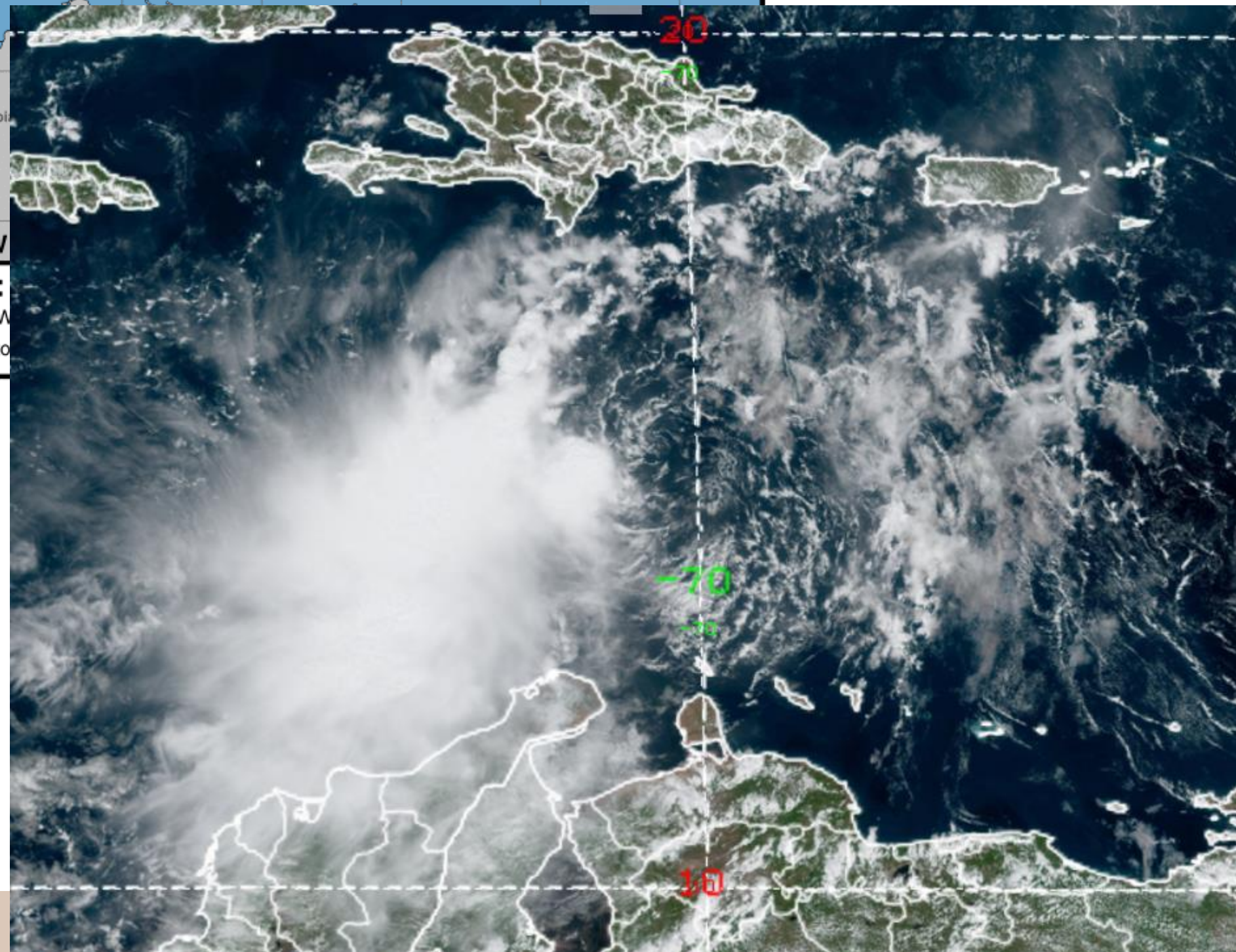
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



**...DEPRESSION EXPECTED TO
STRENGTHEN OVER THE CARIBBEAN
SEA...**

SUMMARY OF 1100 AM EDT INFORMATION

LOCATION...14.2N 70.1W
ABOUT 440 NM ESE OF KINGSTON JAMAICA
MAXIMUM SUSTAINED WINDS 30 KT
PRESENT MOVEMENT...WNW AT 12 KT
PEAK SEAS 9 FT

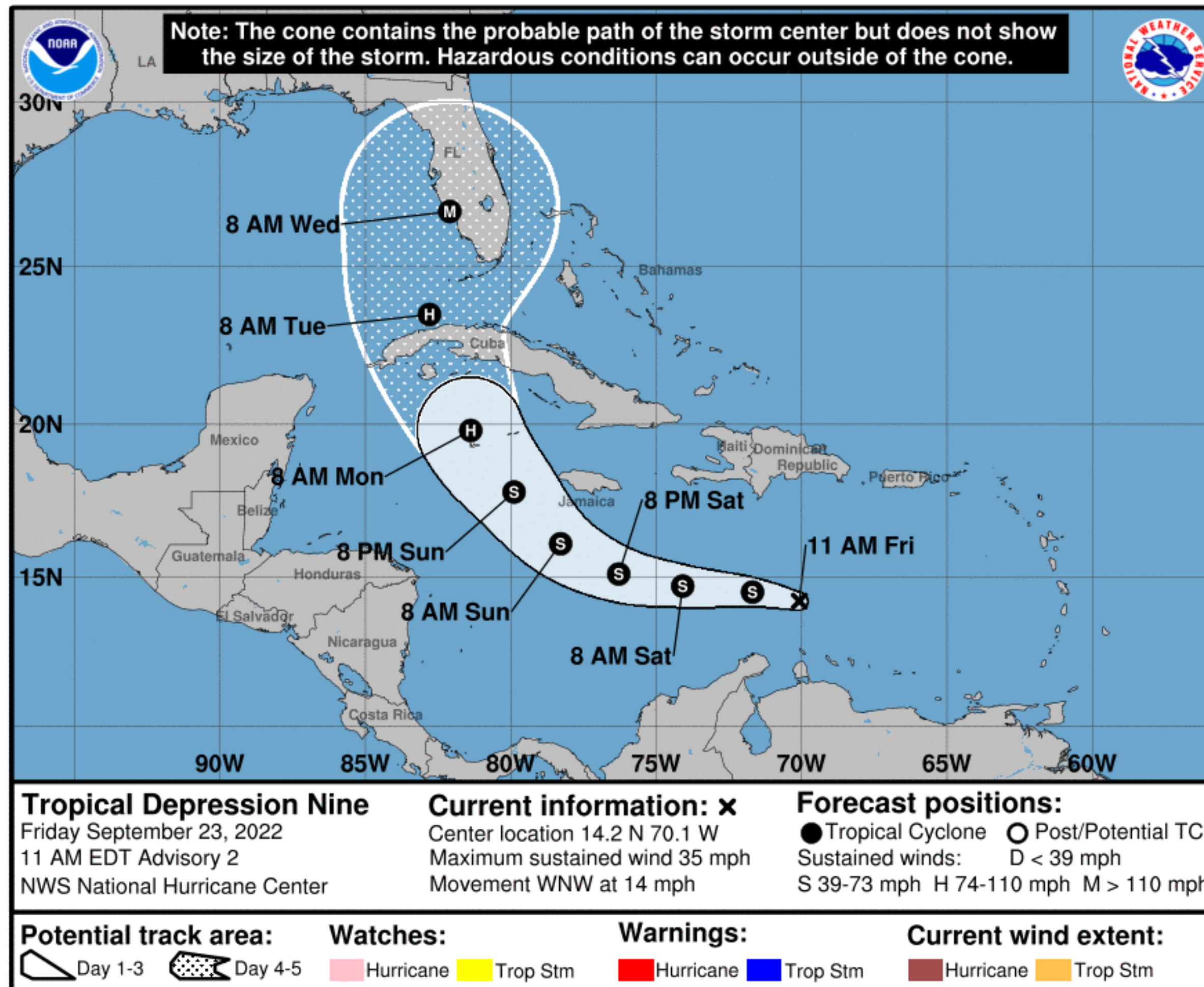


Forecast Information

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



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

- **Nine is expected to turn toward the north by Monday or Tuesday with about the same rate of forward speed**
- **The tropical depression is forecast to become a tropical storm by tomorrow and a hurricane in about three days**
- **Likely impact by the system as a tropical storm or hurricane in South Florida on Tuesday or Wednesday**
- 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

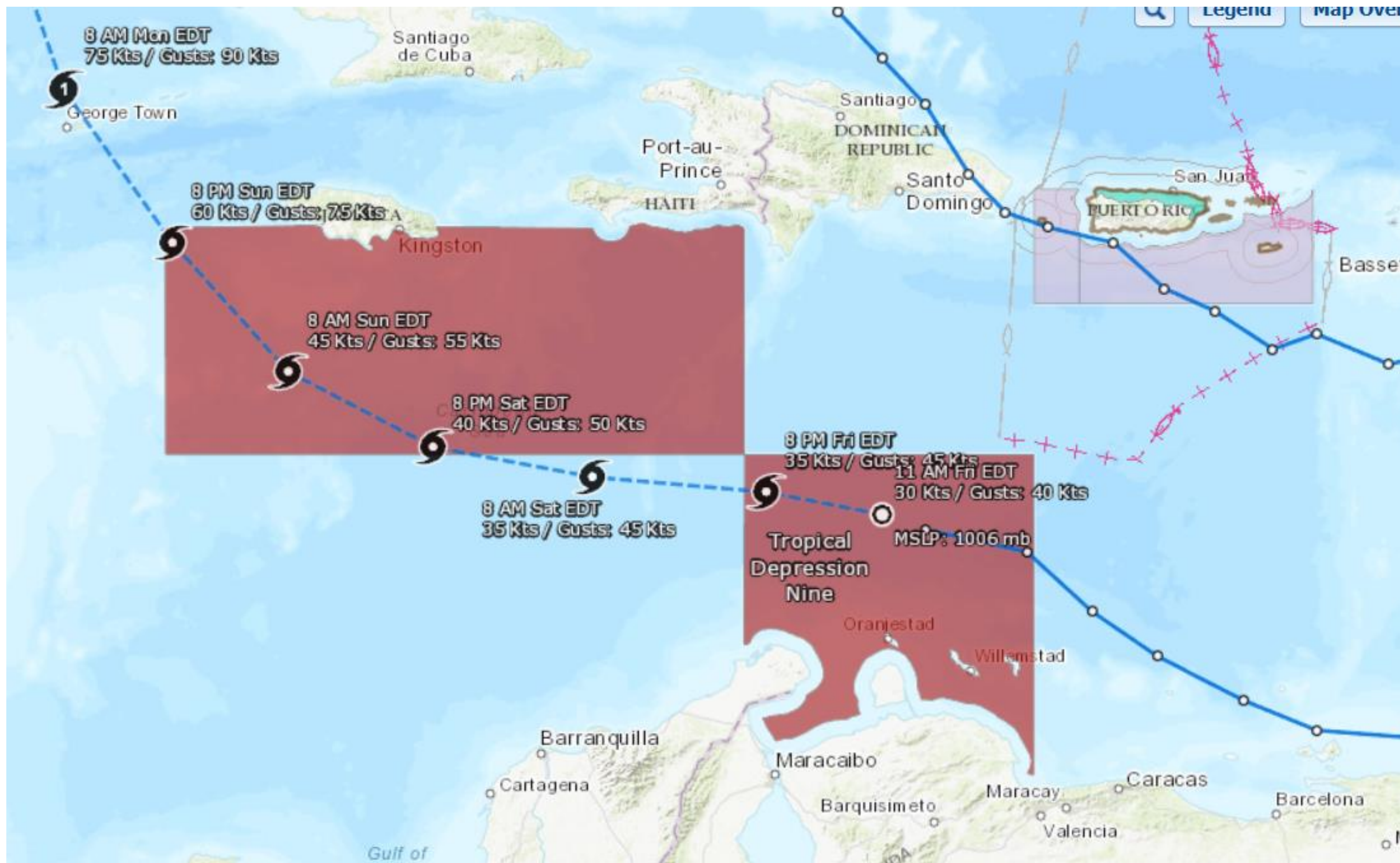
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



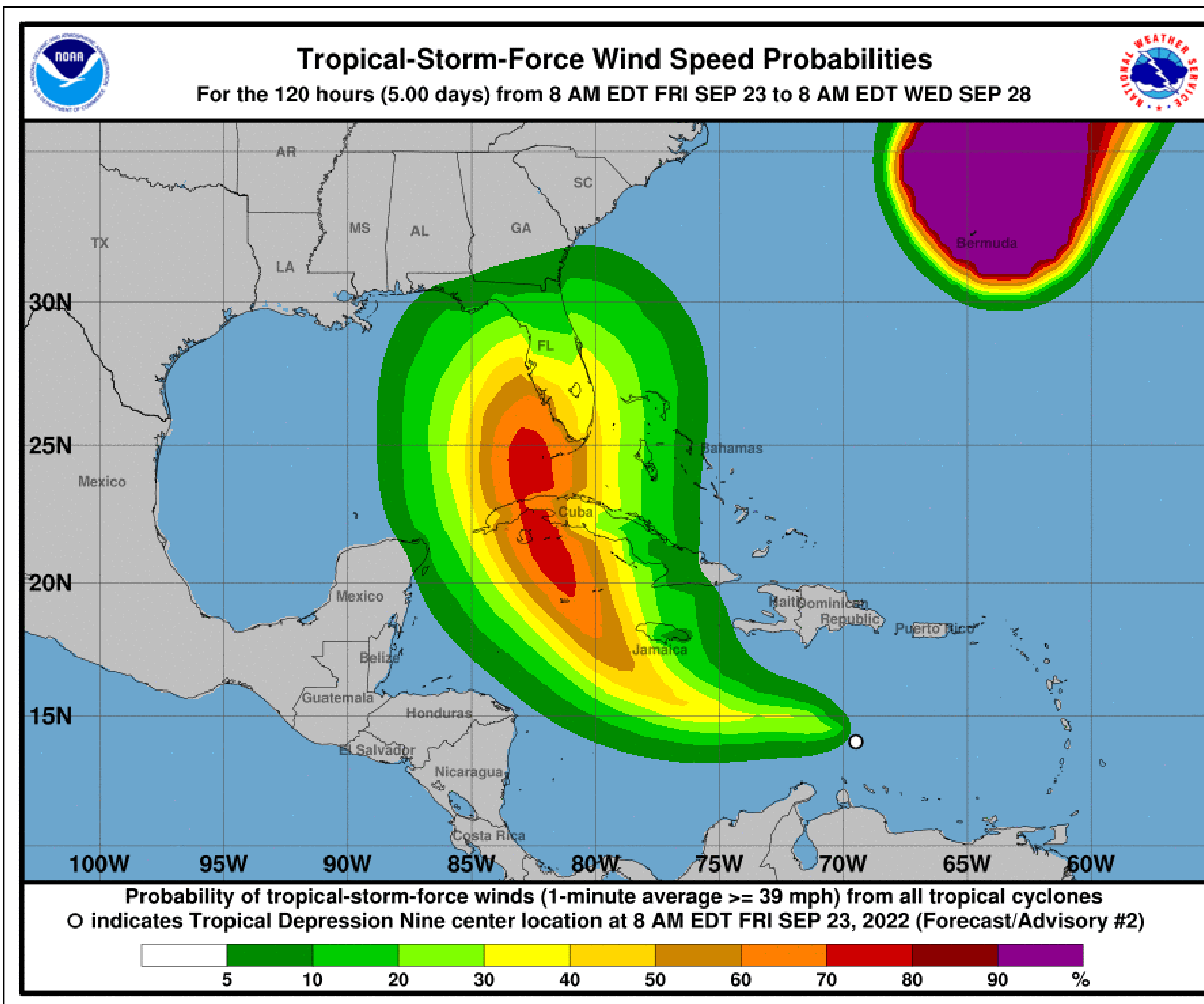
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



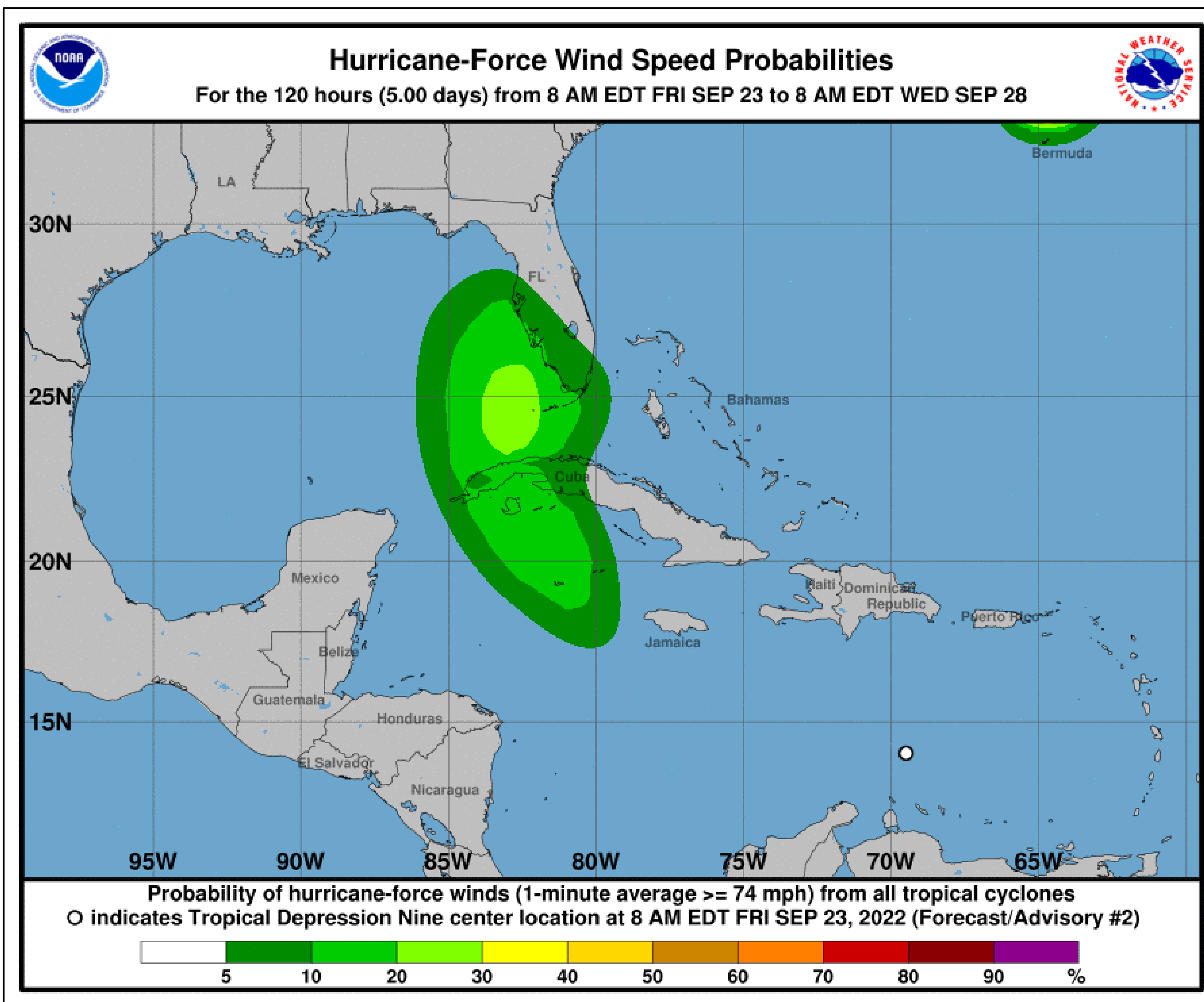
- Panama City – 10%
 - Apalachicola – 15%
 - St. Marks – 10%
 - Cedar Key – 30%
 - Tampa – 45%
 - Venice – 55%
 - Ft. Myers – 40%
 - Naples – 60%
 - Key West – 65%
 - Marathon – 55%
 - Homestead – 35%
 - Miami – 35%
 - Ft. Lauderdale – 40%
 - West Palm Beach – 40%
 - Ft. Pierce – 35%
 - Patrick AFB – 35%
 - Cocoa Beach – 35%
 - Daytona Beach – 20%
 - Jacksonville – 15%
 - Mayport – 15%
 - Kings Bay – 15%
- 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 Depression Nine



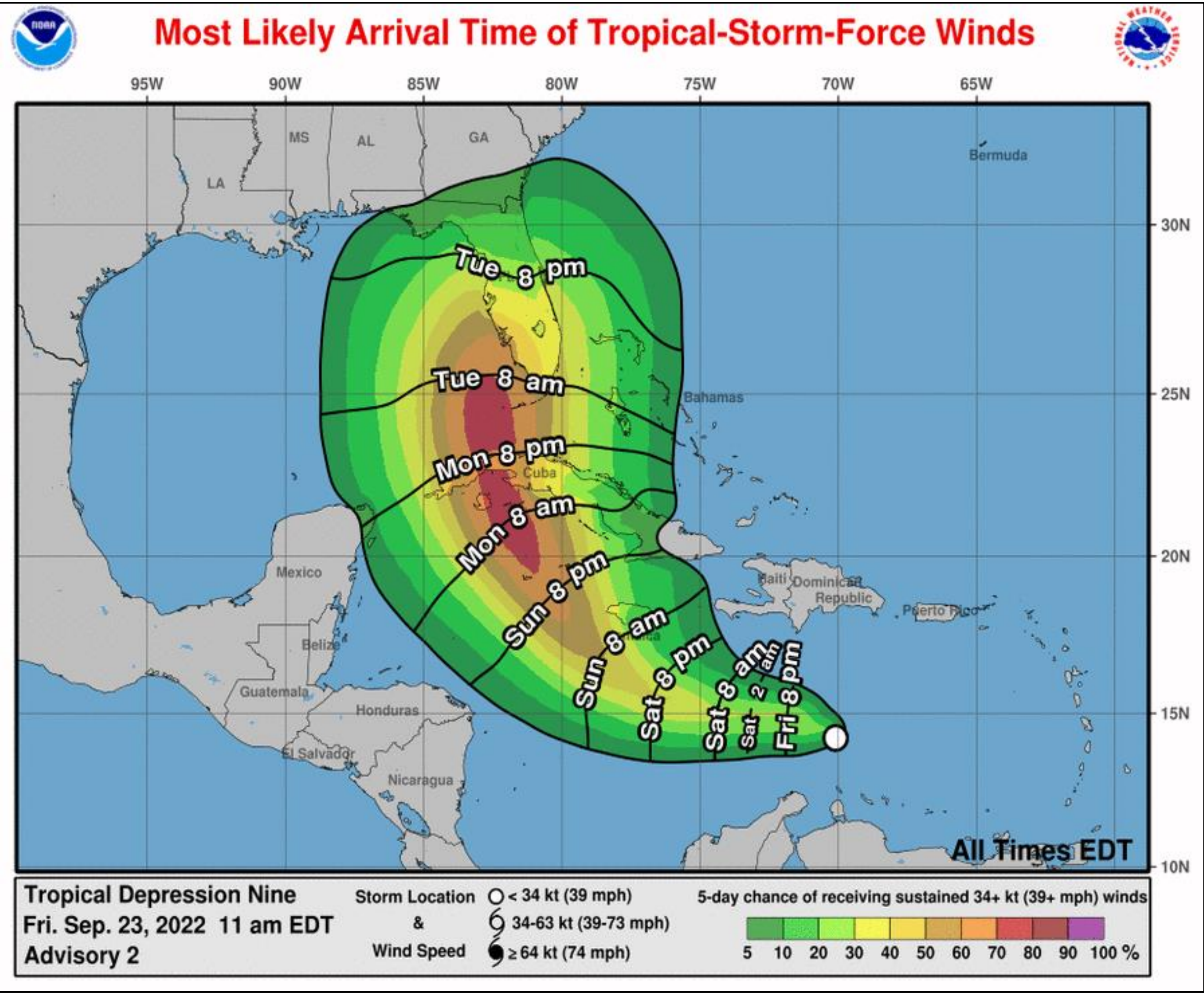
Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Cedar Key – 5%
 - Tampa – 10%
 - Venice – 15%
 - Ft. Myers – 5%
 - Naples – 15%
 - Key West – 15%
 - Marathon – 10%
- 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 Depression Nine



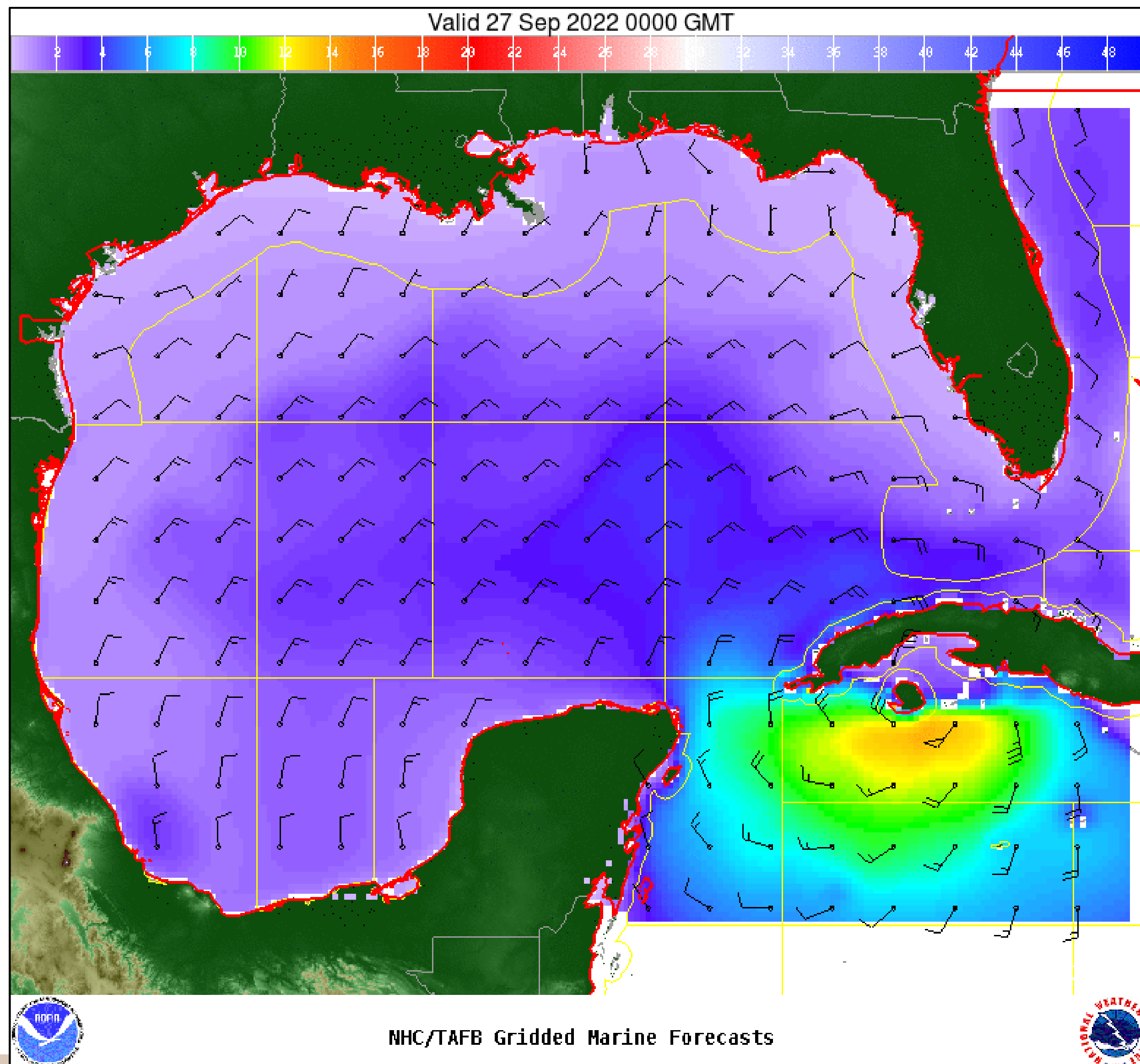
- Southernmost FL – Tuesday morning
- Tampa to Cape Canaveral – Tuesday night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

Wind And Waves

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



3 Day Forecast

8pm EDT, Monday, September 26th

Peak Winds: 75 kt

Peak Seas: 14 ft

- Wave heights are in feet



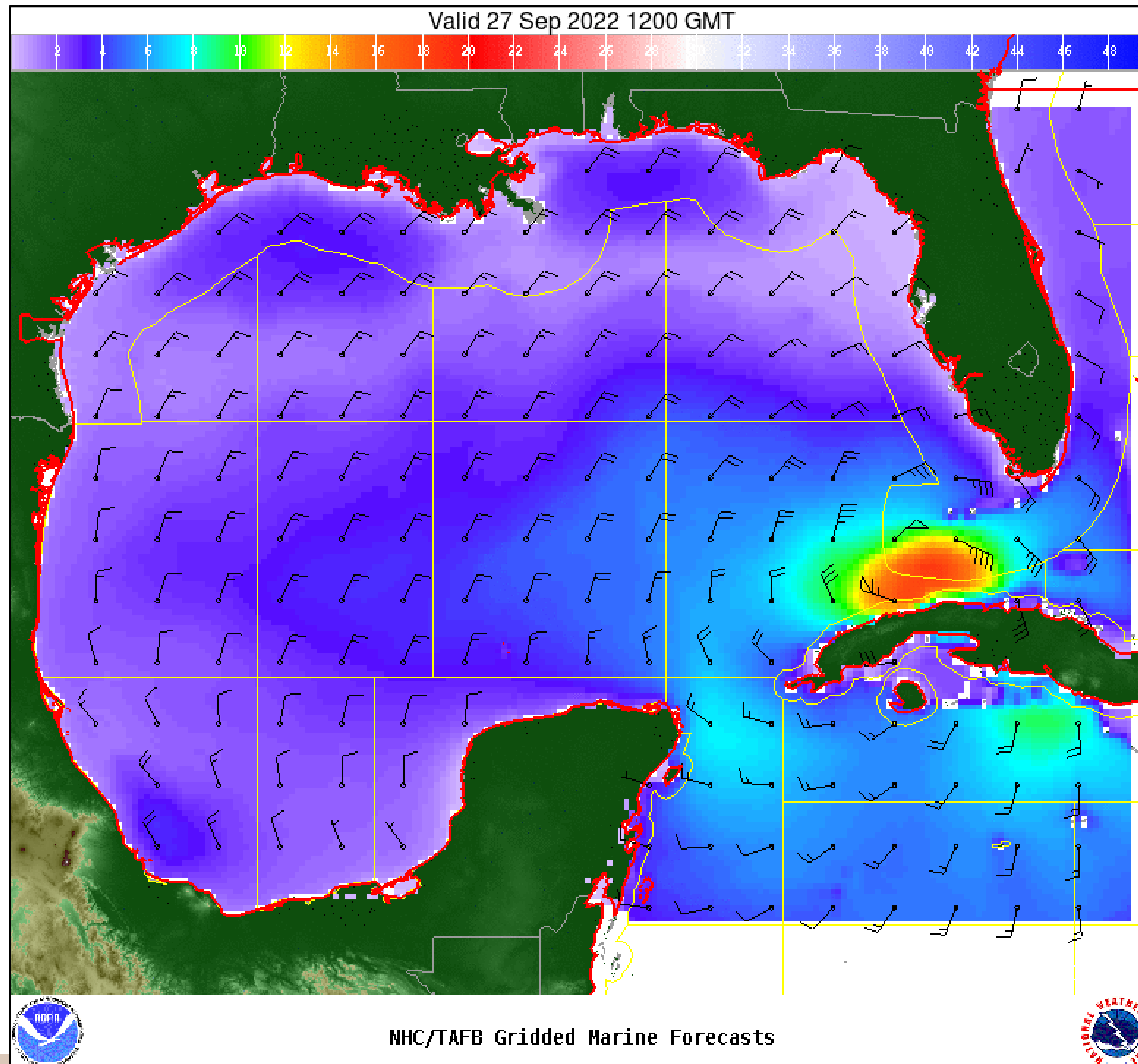
Significant Wave Height (ft)

Wind And Waves

Tropical Depression



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



3 ½ Day Forecast

8am EDT, Tuesday, September 27

Peak Winds: 90 kt

Peak Seas: 25 ft

■ Wave heights are in feet



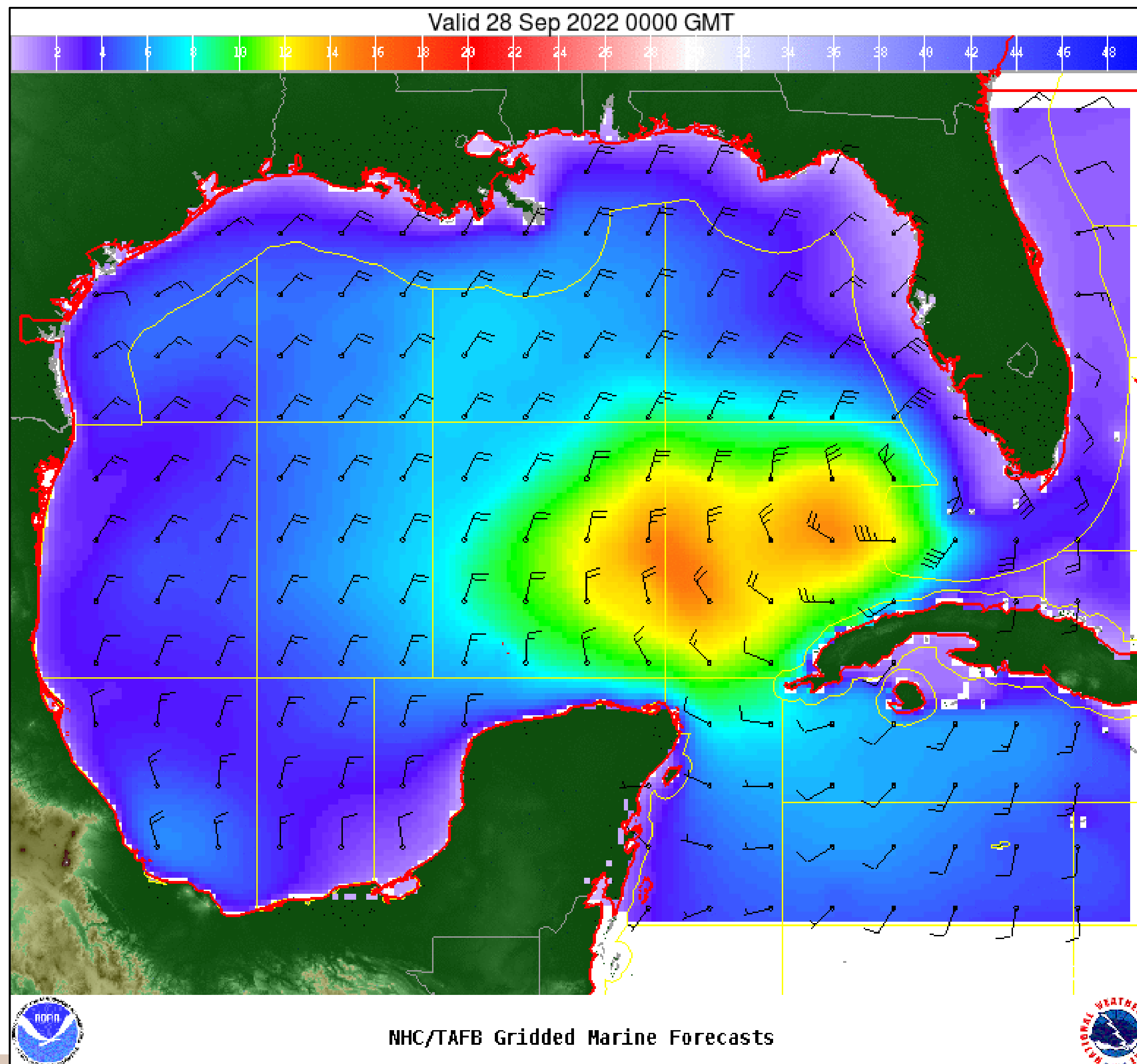
Significant Wave Height (ft)

Wind And Waves

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



4 Day Forecast

8pm EDT, Tuesday, September 27

Peak Winds: 90 kt

Peak Seas: 18 ft

- Wave heights are in feet



Significant Wave Height (ft)

Expected Storm Total Rainfall

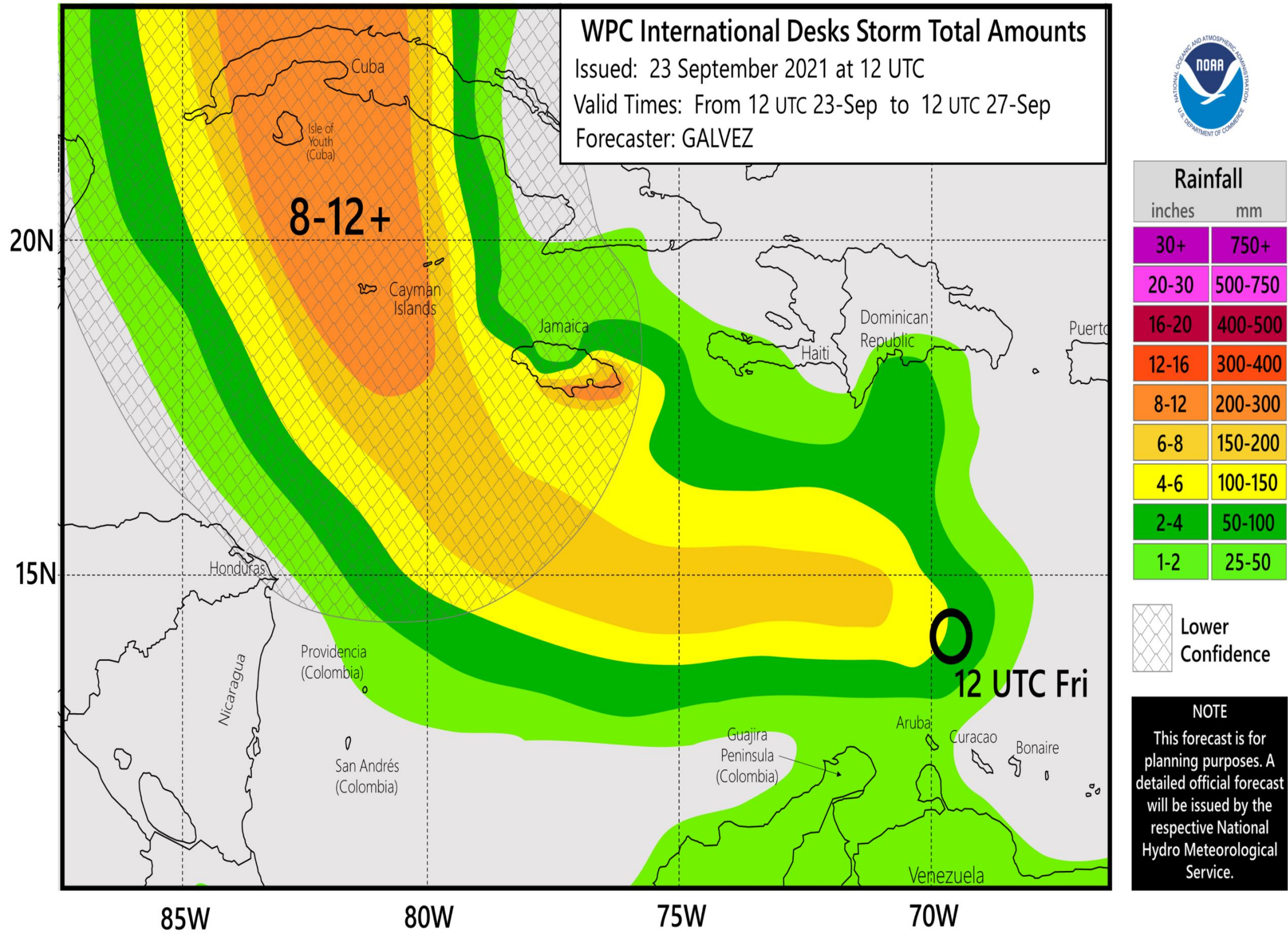
Tropical Depression Nine

Images from NWS Weather Prediction Center

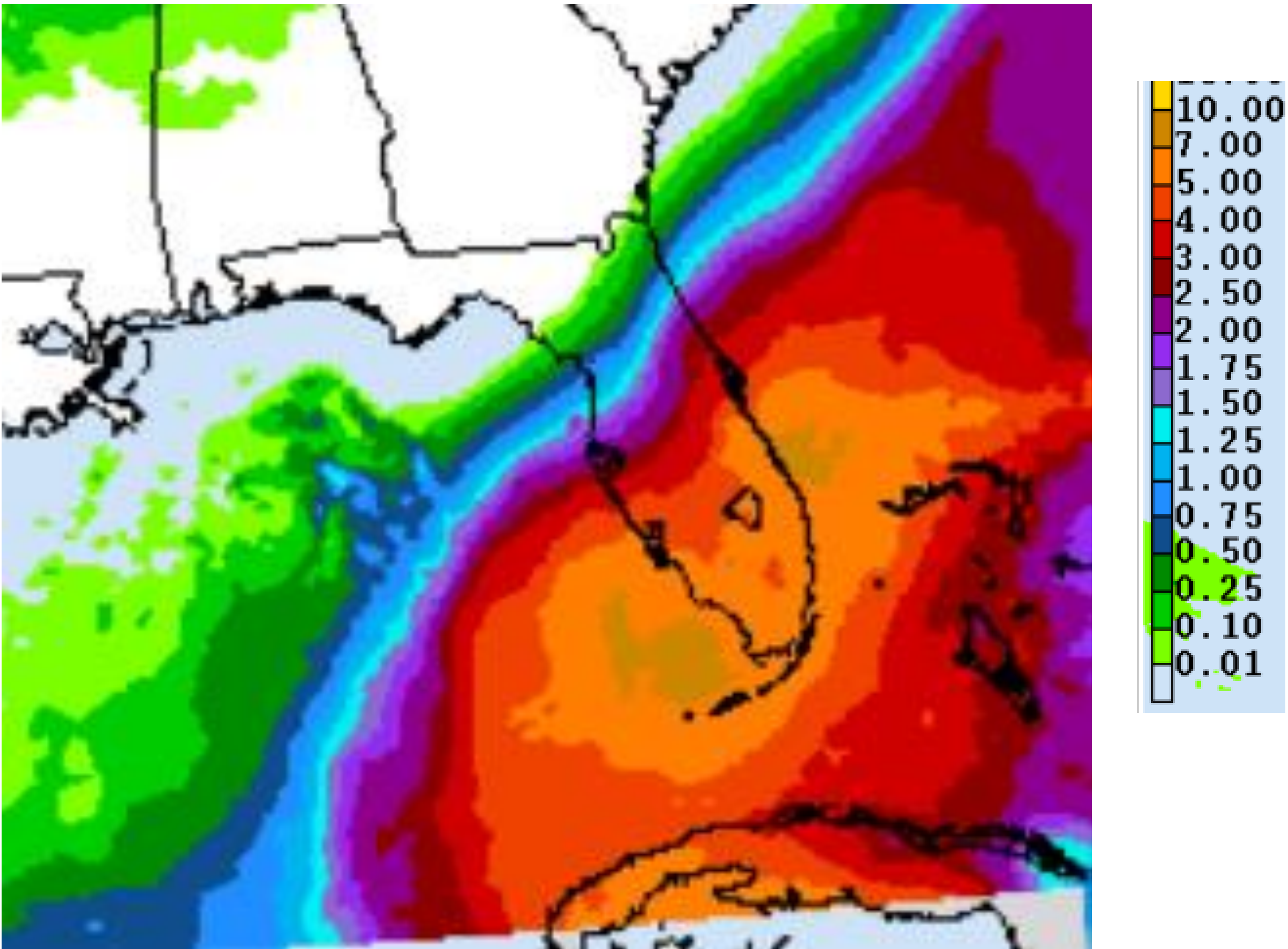


Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Tropical Depression Nine Total Rainfall



Total rainfall expected through Tuesday morning





Total rainfall expected through Wednesday night

Key Messages

Tropical Depression Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center




Key Messages for Tropical Depression Nine

Advisory 2: 11:00 AM EDT Fri Sep 23, 2022

1. The depression is expected to produce heavy rainfall and instances of flash flooding and possible mudslides in areas of higher terrain in Aruba, Bonaire, and Curacao. Heavy rains are also likely to spread into Jamaica, the Cayman Islands, and Cuba in the coming days.
2. The depression is expected to approach Jamaica as a tropical storm on Sunday and the Cayman islands as a hurricane on Monday. Watches for these locations may be required later today or on Saturday.
3. Early next week the system is forecast to move near or over western Cuba as a strengthening hurricane and then approach the Florida peninsula at or near major hurricane strength, with the potential for significant impacts from storm surge, hurricane-force winds, and heavy rainfall. While it is too soon to determine the exact magnitude and location of these impacts, residents in Cuba, the Florida Keys, and the Florida peninsula should ensure they have their hurricane plan in place and closely monitor forecast updates through the weekend.

For more information go to hurricanes.gov



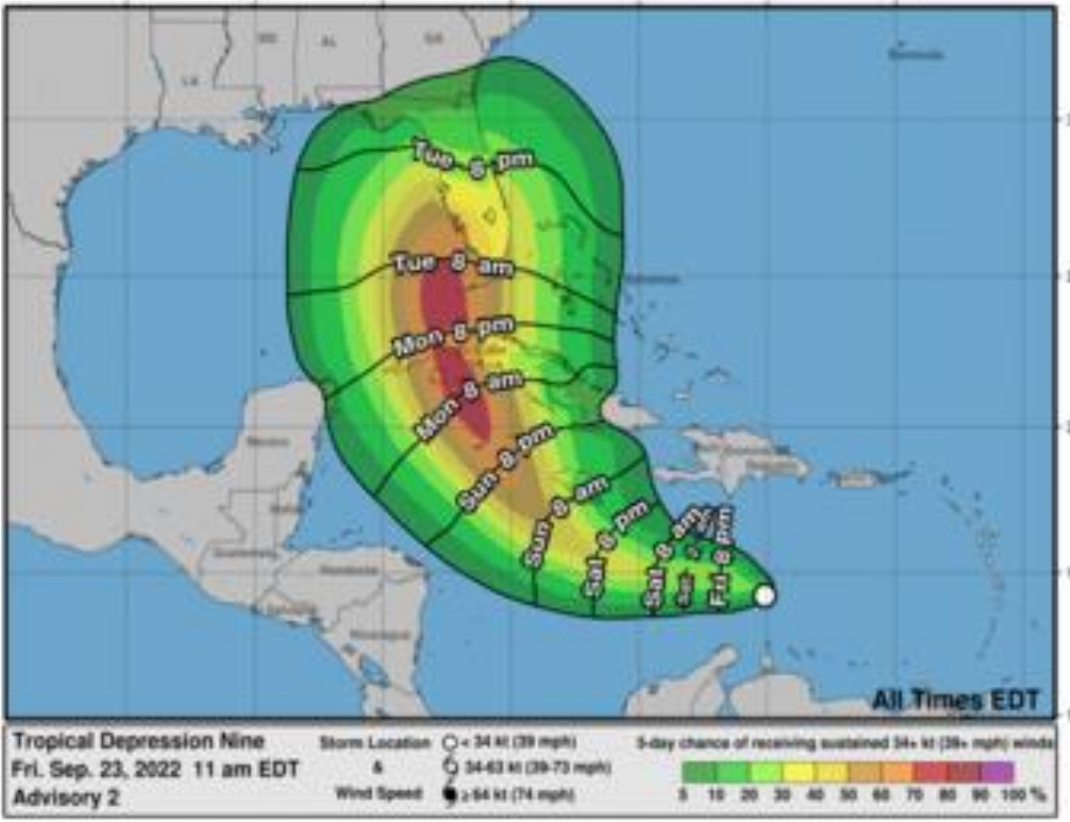
Tropical Depression Nine
Friday September 23, 2022
11 AM EDT Advisory 2
NWS National Hurricane Center

Current information: x
Center location 14.2 N 70.1 W
Maximum sustained wind 35 mph
Movement WNW at 14 mph

Forecast positions:
● Tropical Cyclone ○ Post/Potential TC
Sustained winds: D < 39 mph
S 39-73 mph H 74-110 mph M > 110 mph

Potential track area: Day 1-3 Day 4-5
Watches: Hurricane Trop Strm
Warnings: Hurricane Trop Strm
Current wind extent: Hurricane Trop Strm

Most Likely Arrival Time of Tropical-Storm-Force Winds



Tropical Depression Nine
Fri. Sep. 23, 2022 11 am EDT
Advisory 2

Storm Location: ○ = 34 kt (39 mph) ○ = 54-63 kt (39-73 mph) ● = 64 kt (74 mph)
Wind Speed

5-day chance of receiving sustained 34+ kt (39+ mph) winds
5 10 20 30 40 50 60 70 80 90 100 %

All Times EDT

IMPACTS FOR D7 (through next 5 days)

Winds – **High** to **Extreme**

Storm Surge – **Medium** to **Extreme**

Rainfall/Flash Flooding – **High**

Tornadoes – **Low** to **Medium**

Waves - **High**

- **Marine Key Messages:**
- Peak seas currently 9 ft, building to 15-20 ft in Caribbean by Sunday
- Seas expected to build in the Florida Straits to more than 20 ft and in the SE Gulf to more than 15 ft on Monday or Tuesday



TROPICAL DEPRESSION NINE BRIEFING

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

*The Next Briefing Will Be:
Saturday 9:00 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