

## **IMPACTS FOR D8**

**Winds/US Coast – High**

**Winds/SRR – High**

**Waves/US Coastal – Extreme**

**Waves/SRR – Extreme**

through next 5 days

**US Storm Surge – High**

**US Rainfall/Flash Flooding – Moderate**

**US Tornadoes – Unknown**

# POTENTIAL TROPICAL CYCLONE NINE BRIEFING



11:00 AM CDT  
Monday, September 23, 2024

Prepared by:

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*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



NHC\_TAFB

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

# Situation Overview

## Potential Tropical Cyclone Nine



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NWS National Hurricane Center



...DISTURBANCE FORECAST TO STRENGTHEN  
OVER THE NEXT FEW DAYS...  
...TROPICAL STORM WARNINGS AND  
HURRICANE WATCHES ISSUED FOR PORTIONS  
OF MEXICO AND CUBA...

## SUMMARY OF 1100 AM EDT... INFORMATION

LOCATION...17.6N 82.0W  
ABOUT 115 NM... SSW OF GRAND CAYMAN  
ABOUT 300 NM... SSE OF THE WESTERN TIP OF  
CUBA  
MAXIMUM SUSTAINED WINDS...25 KT  
PRESENT MOVEMENT...N OR 350 DEGREES 5 KT  
MINIMUM CENTRAL PRESSURE...1004 MB

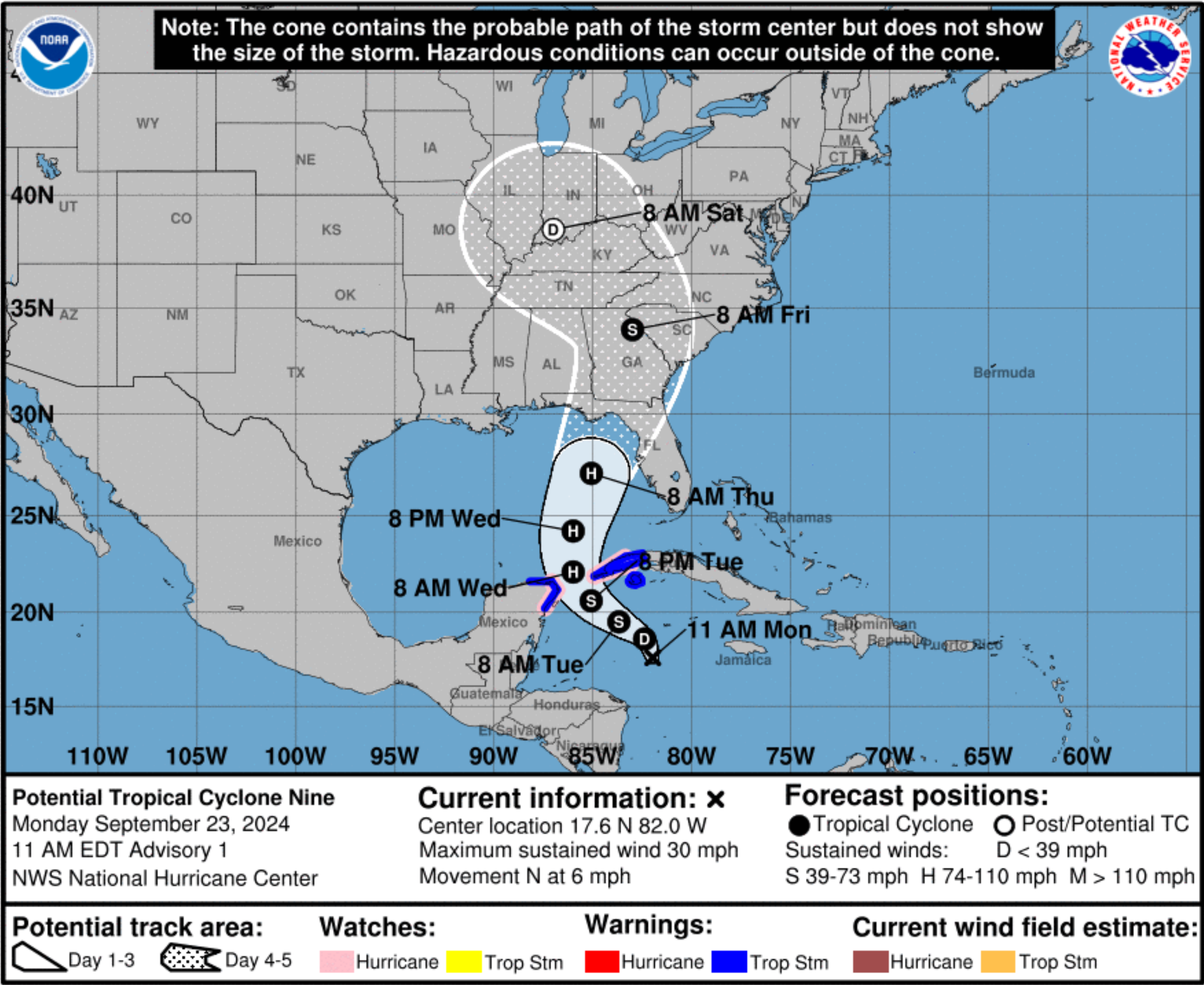


# Forecast Information

## Potential Tropical Cyclone Nine



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

- A northwestward motion is expected on Tuesday and Tuesday night, followed by a faster northward or north-northeastward motion on Wednesday and Thursday.
- On the forecast track, the center of the system is forecast to move across the northwestern Caribbean Sea and into the southeastern Gulf of Mexico during the next couple of days.
- Strengthening is expected during the next few days, and the system is forecast to become a hurricane on Wednesday and continue strengthening as it moves across the eastern Gulf of Mexico.
- Landfall as a hurricane or major hurricane is expected between Alabama and SW Florida between Thu morning and Thu night
- 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.

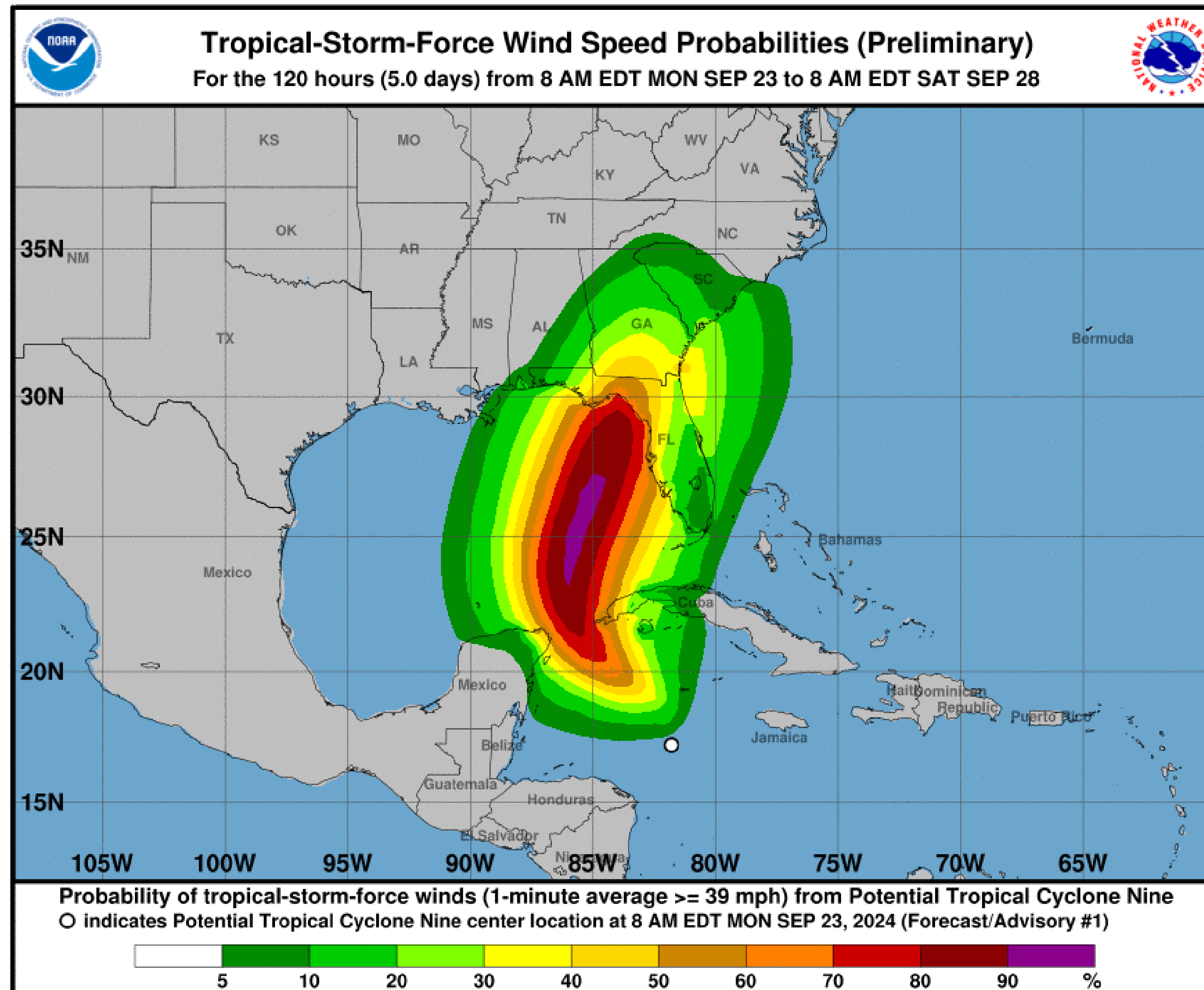


# T.S. Wind Speed Probabilities

## Potential Tropical Cyclone Nine



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- KEY WEST FL 25%
- CEDAR KEY FL 67%
- TAMPA FL 59%
- MOBILE AL 7%
- PENSACOLA FL 14%
- WHITING FLD FL 14%
- PANAMA CITY FL 54%
- APALACHICOLA 66%
- ST MARKS FL 48%
- TALLAHASSEE FL 44%

-**Green** indicates probabilities have gone down since last briefing  
-**Red** indicates probabilities have gone up since last briefing  
-**Black** indicates probabilities remain the same

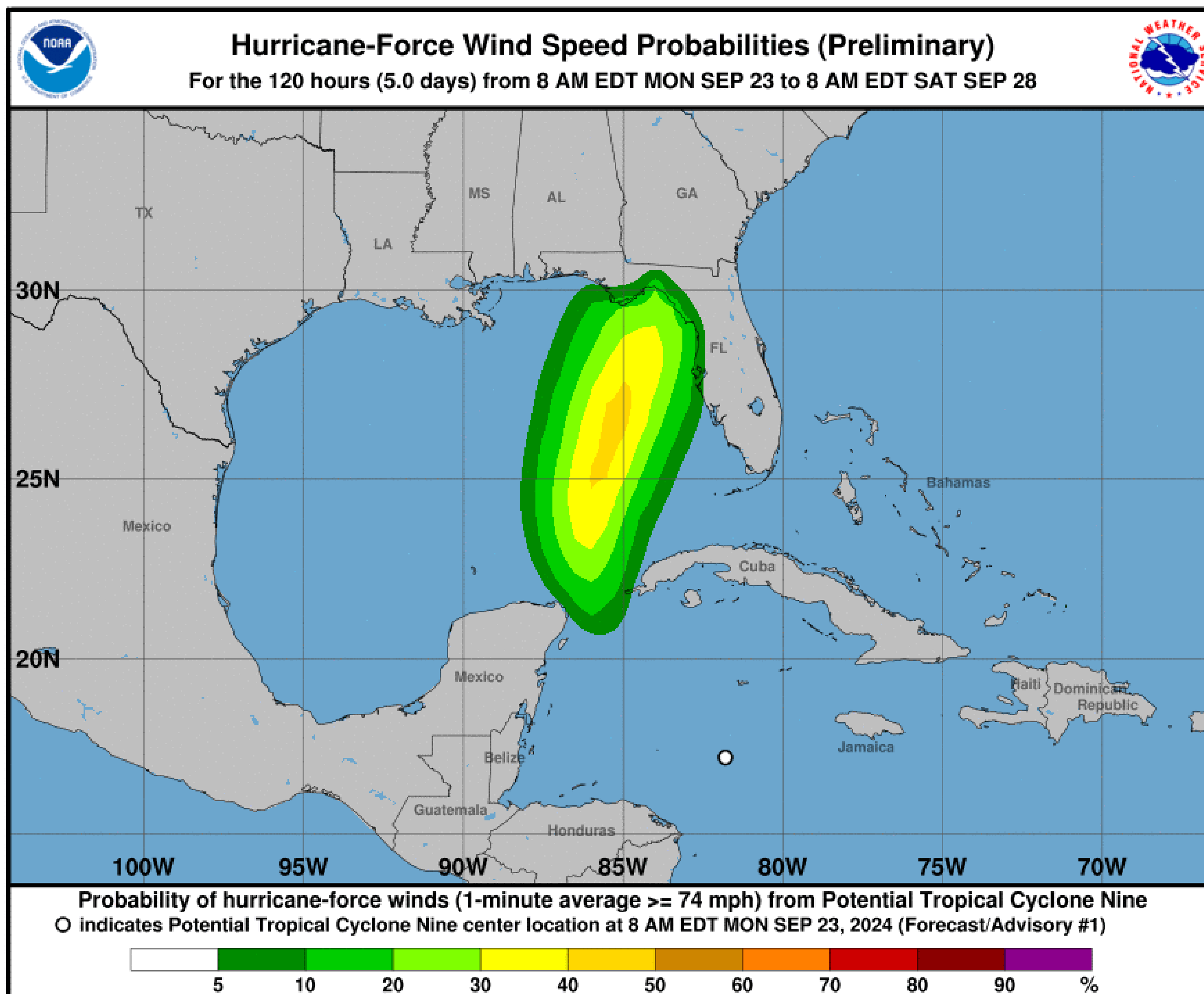
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

# Hurricane Wind Speed Probabilities

## Potential Tropical Cyclone Nine



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NWS National Hurricane Center

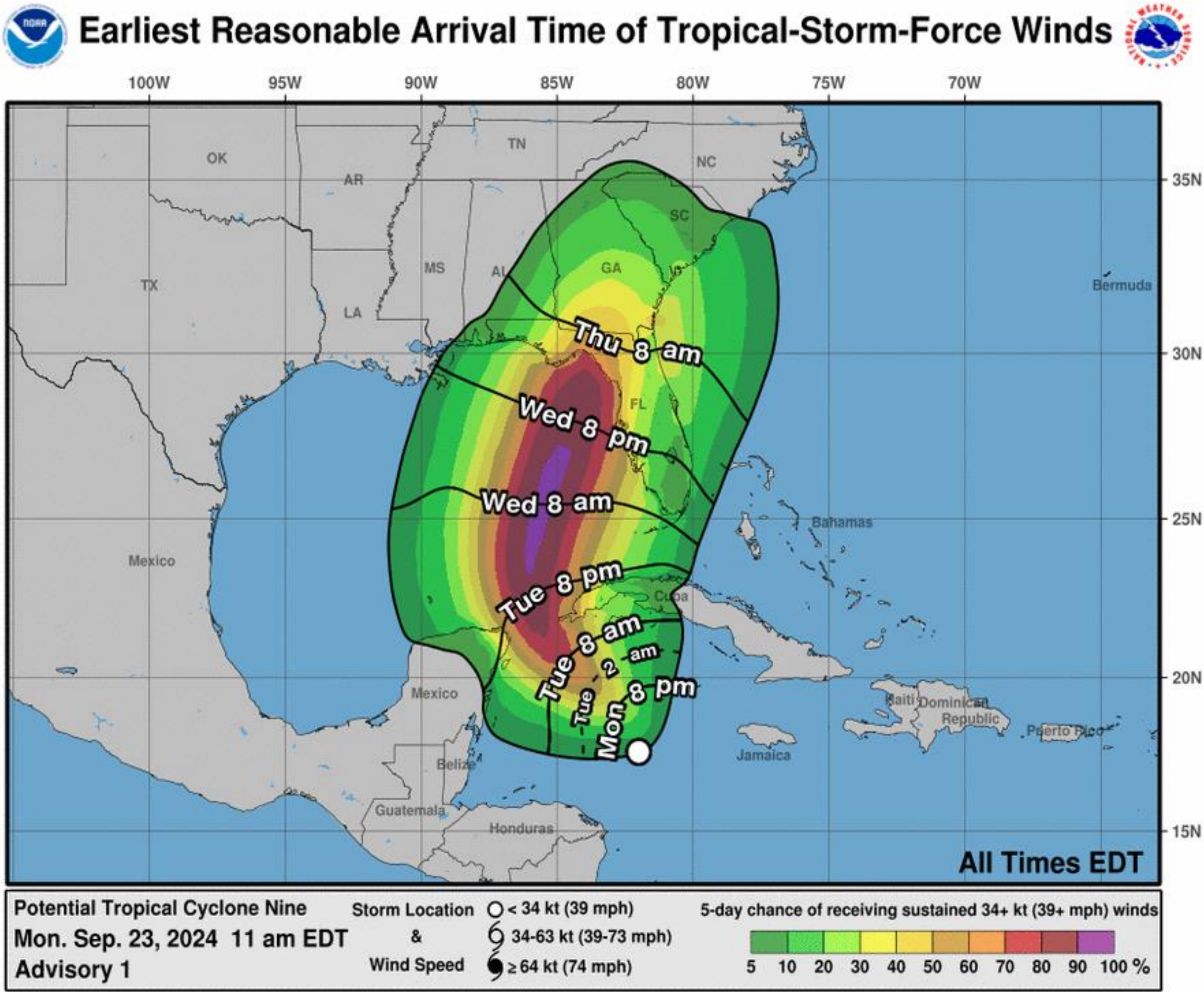


- CEDAR KEY FL 14%
  - TAMPA FL 10%
  - PANAMA CITY FL 13%
  - APALACHICOLA 18%
  - TALLAHASSEE FL 2%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
  - Clear or dark green are the lowest chances of 0-30%.
  - Yellow to orange is 31-70%
  - Red through purple are the highest probabilities of 71%-100%
  - See the color bar below the image for more details.





Potential Tropical Cyclone Nine



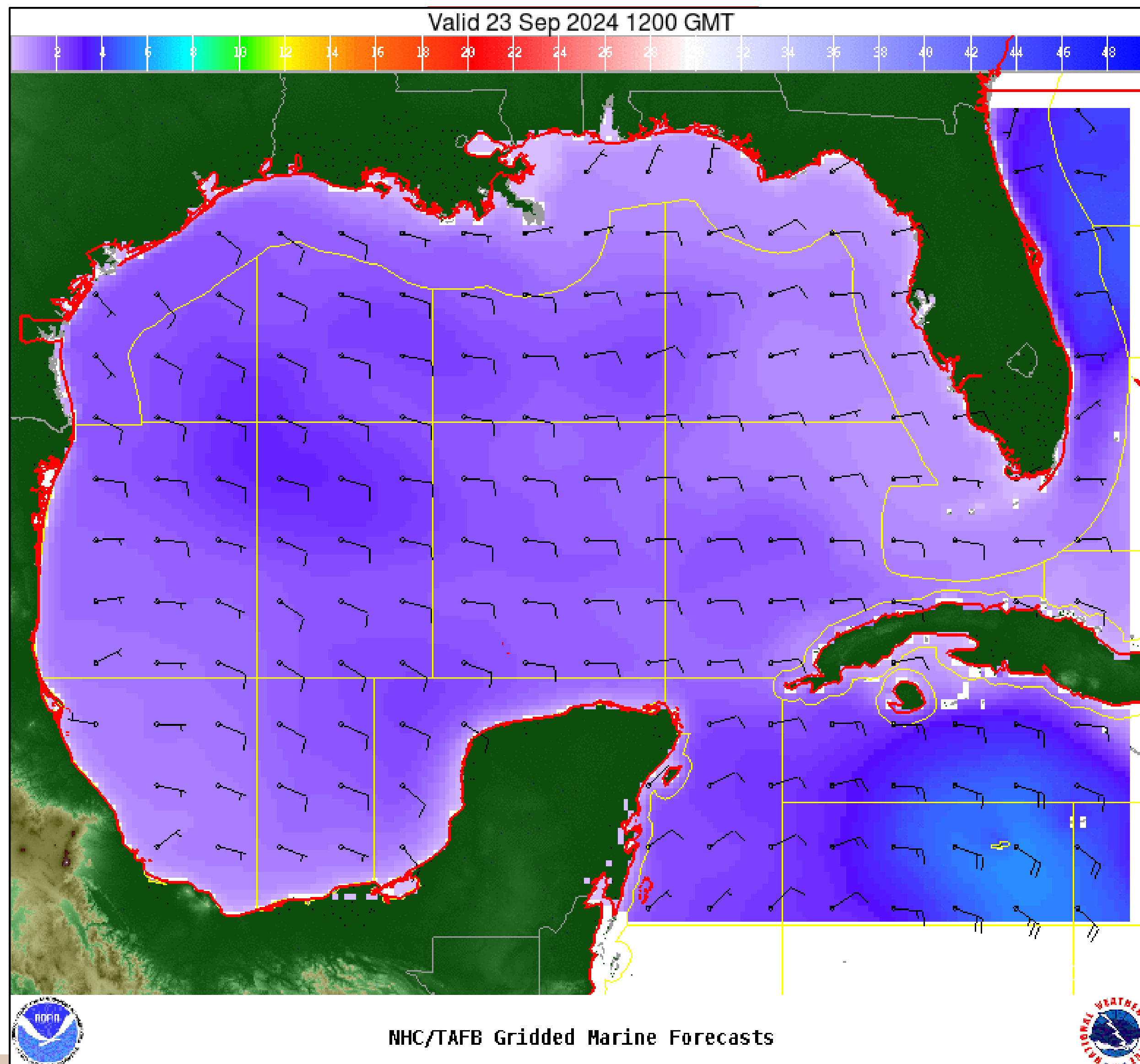
- **Wed morning FL Keys**
- **Wednesday night approaching the NE Gulf.**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red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

# Wind And Waves

## Potential Tropical Cyclone Nine



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### Current Conditions

**Monday, September 23 at 7 AM CDT**

Peak Winds: 25 kt

Peak Seas: 7 ft

- Wave heights are in feet



Significant Wave Height (ft)

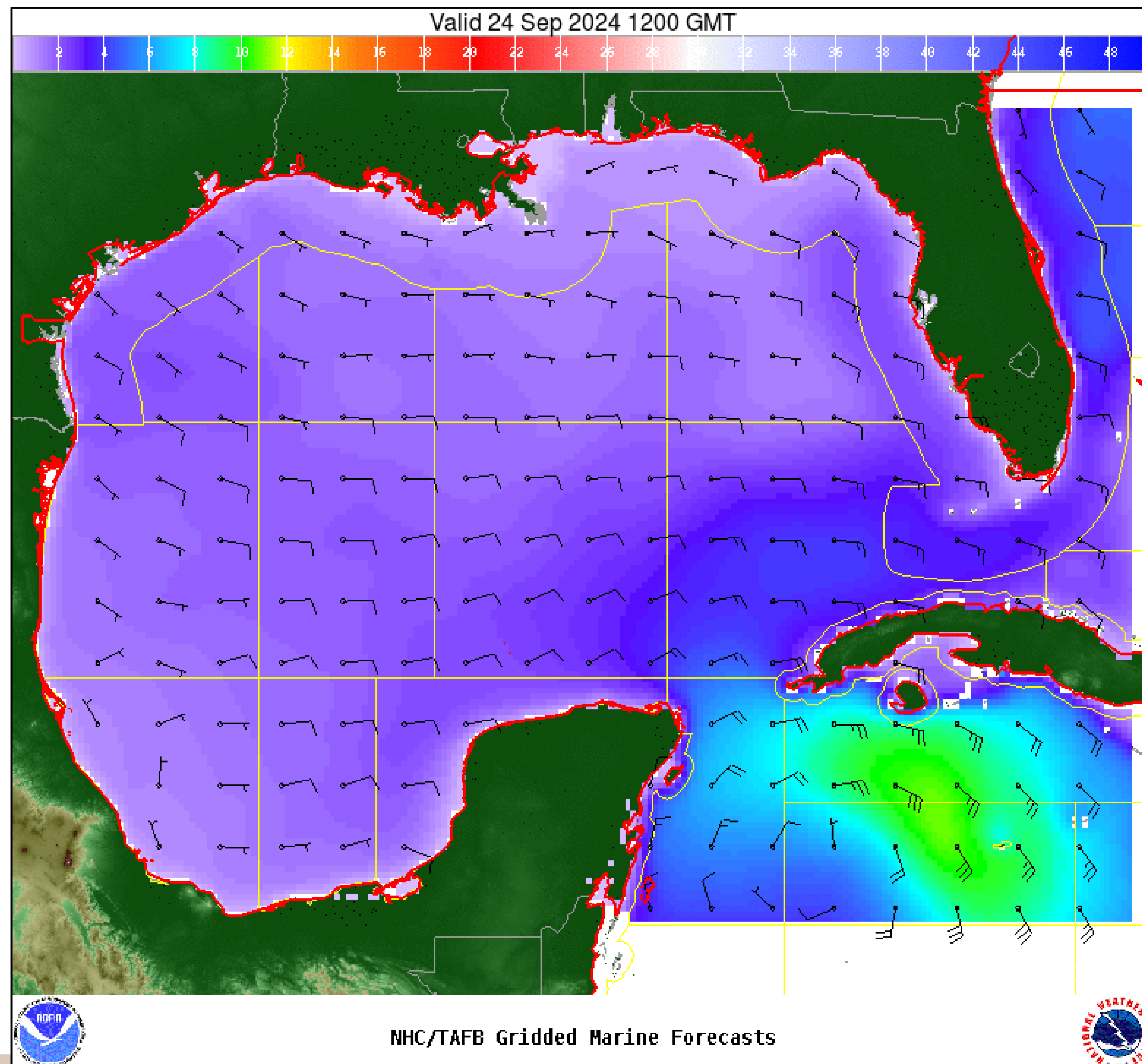


# Wind And Waves

## Potential Tropical Cyclone Nine



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## 24 Hour Forecast

**Tuesday, September 24 at 7 AM CDT**

Peak Winds: 40 kt

Peak Seas: 13 ft

- Wave heights are in feet



Significant Wave Height (ft)

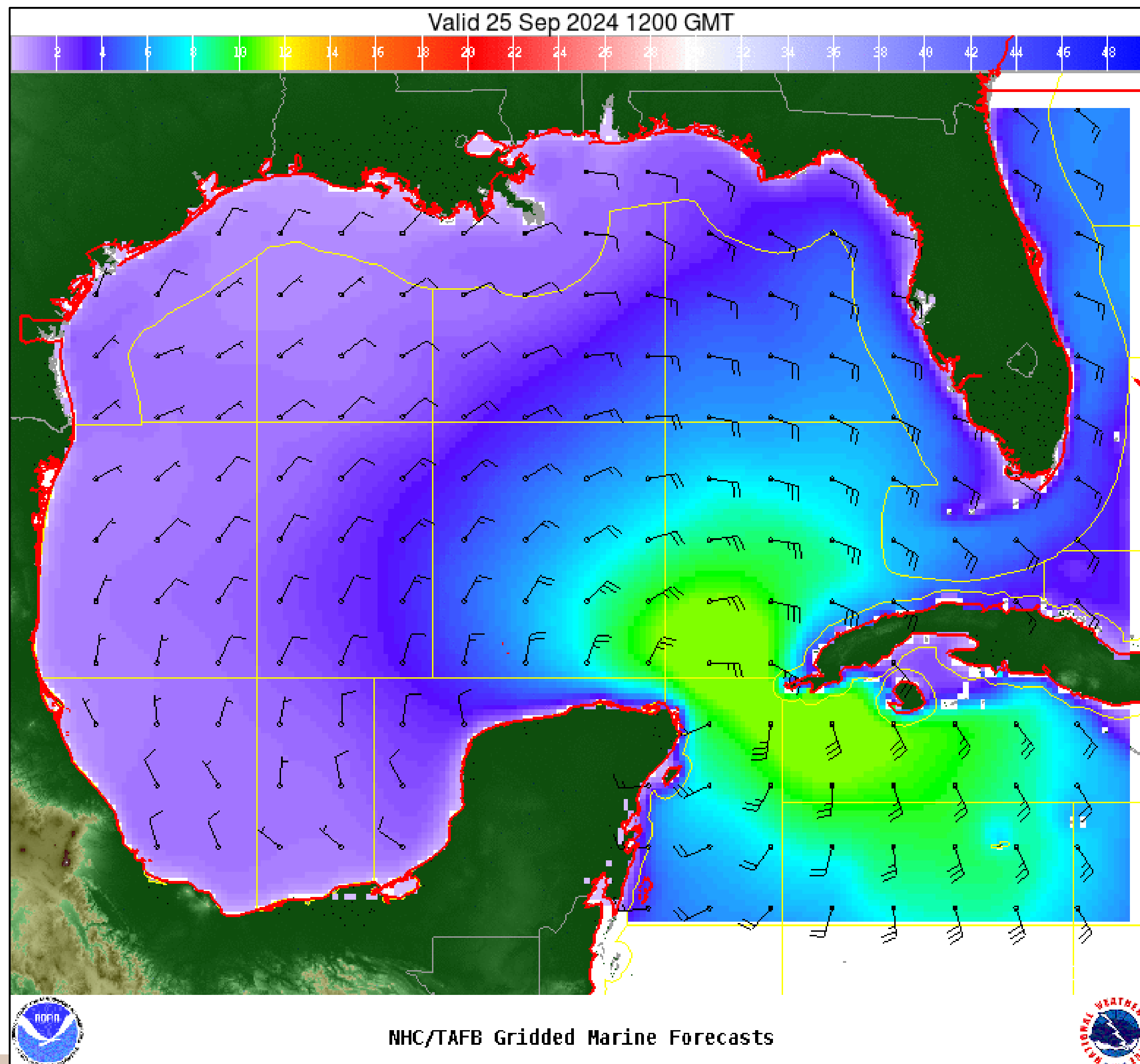


# Wind And Waves

## Potential Tropical Cyclone Nine



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## 48 Hour Forecast

Wednesday, September 25 at 7 AM CDT

Peak Winds: 65 kt

Peak Seas: 16 ft

- Wave heights are in feet



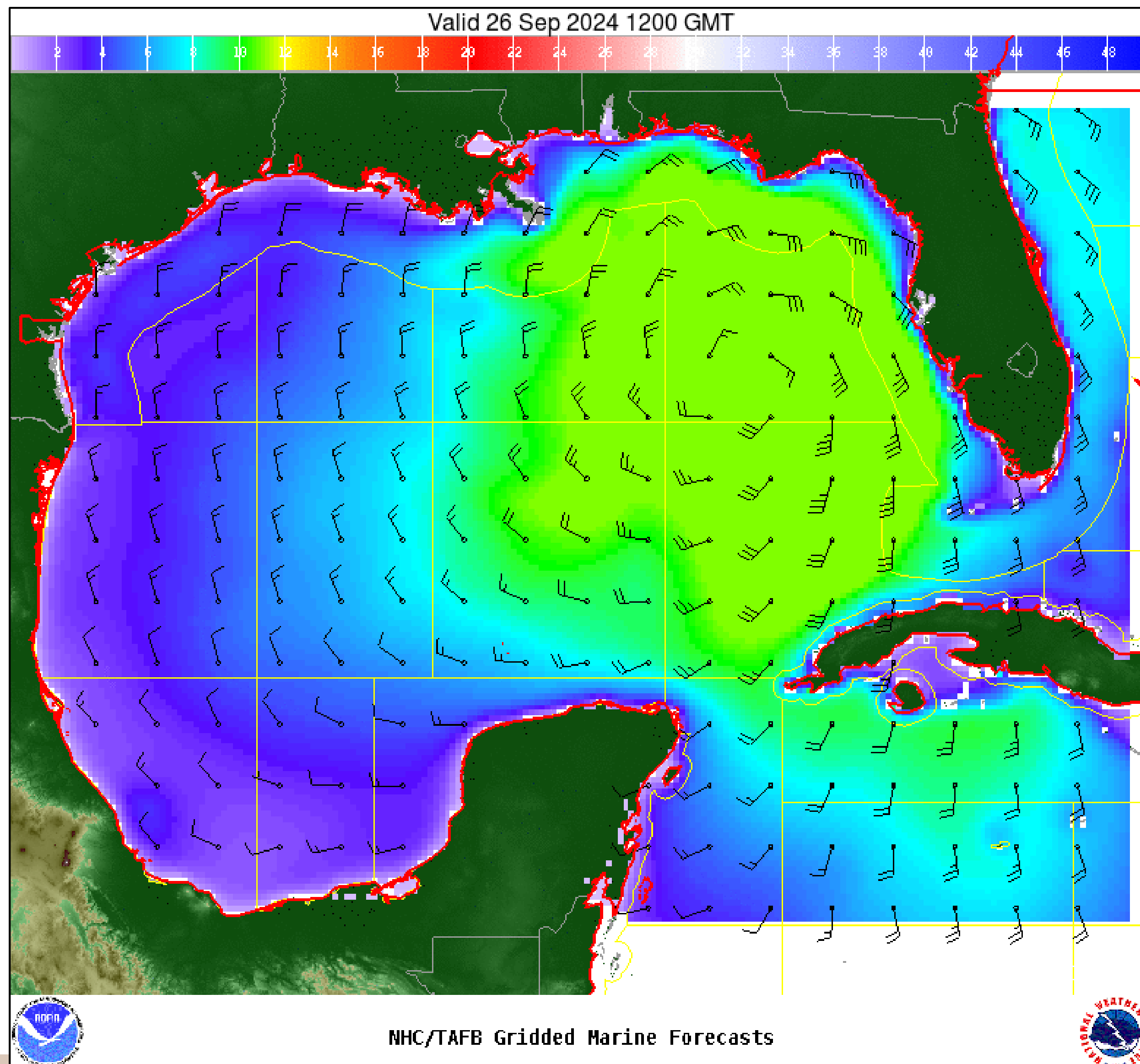
Significant Wave Height (ft)

# Wind And Waves

## Potential Tropical Cyclone Nine



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## 72 Hour Forecast

Thursday, September 26 at 7 AM CDT

Peak Winds: 95 kt

Peak Seas: 29 ft

- Wave heights are in feet



Significant Wave Height (ft)

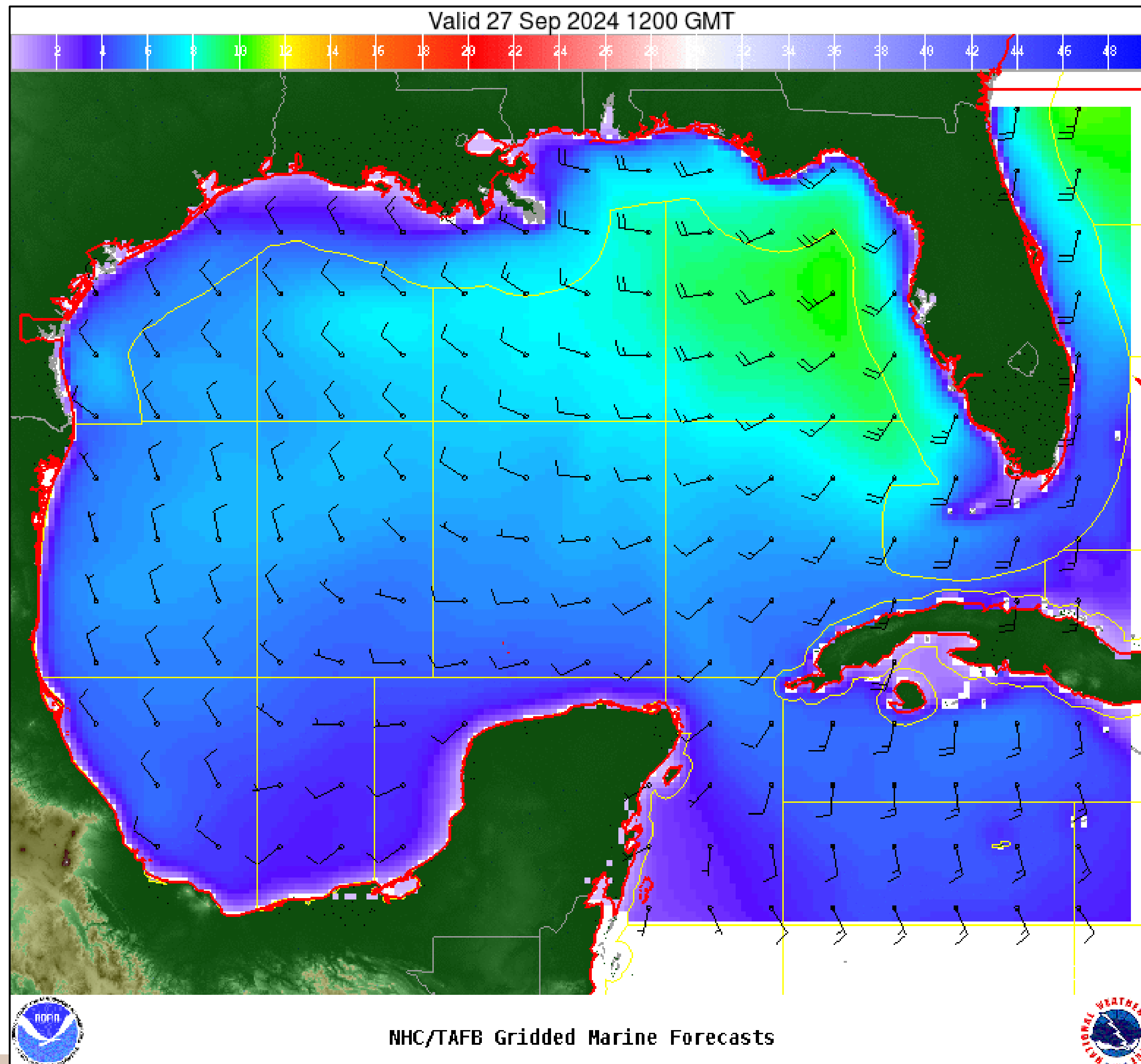


# Wind And Waves

## Potential Tropical Cyclone Nine



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### 96 Hour Forecast

Friday, September 27 at 7 AM CDT

Peak Winds: 35 kt

Peak Seas: 9 ft

- Wave heights are in feet



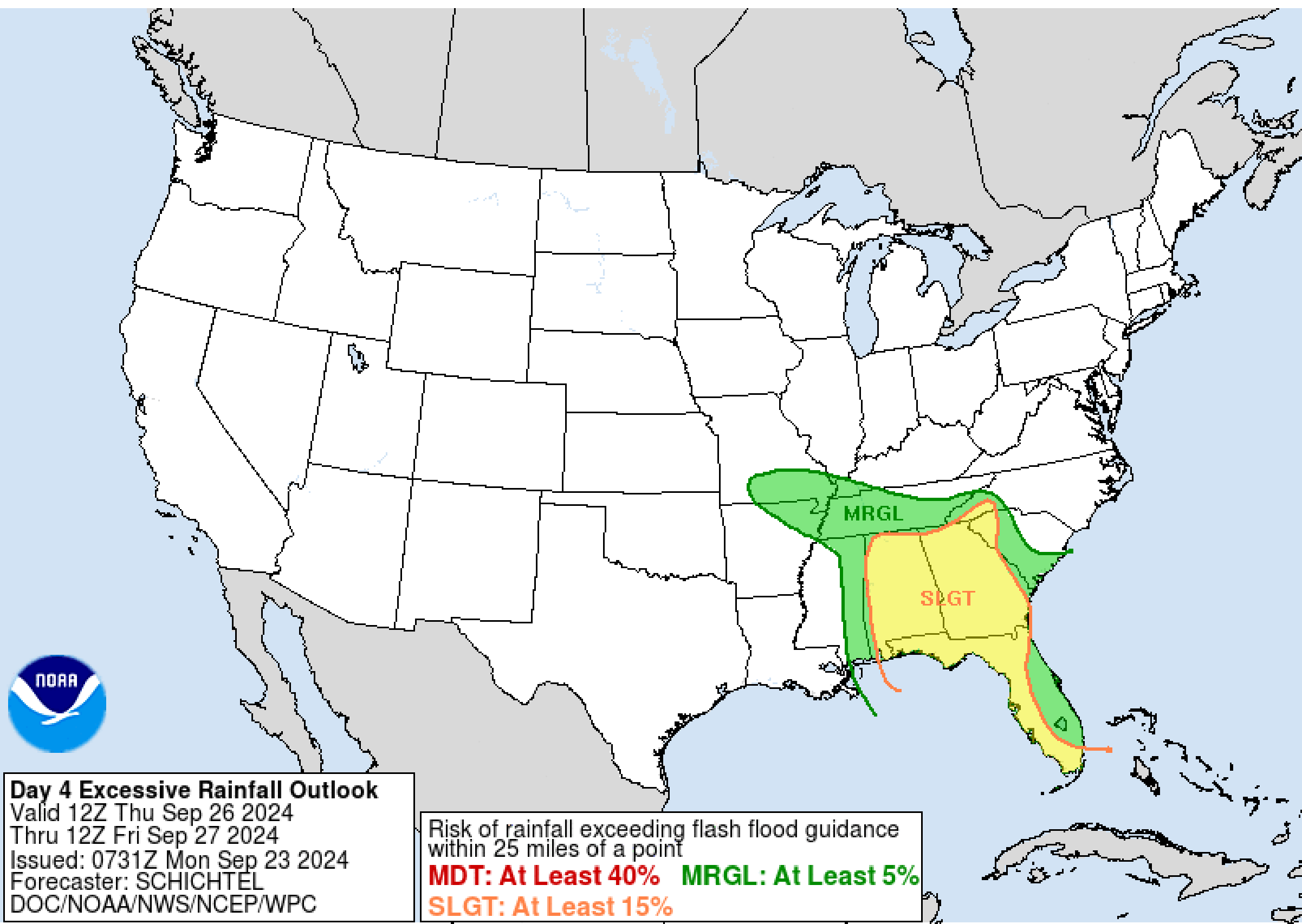
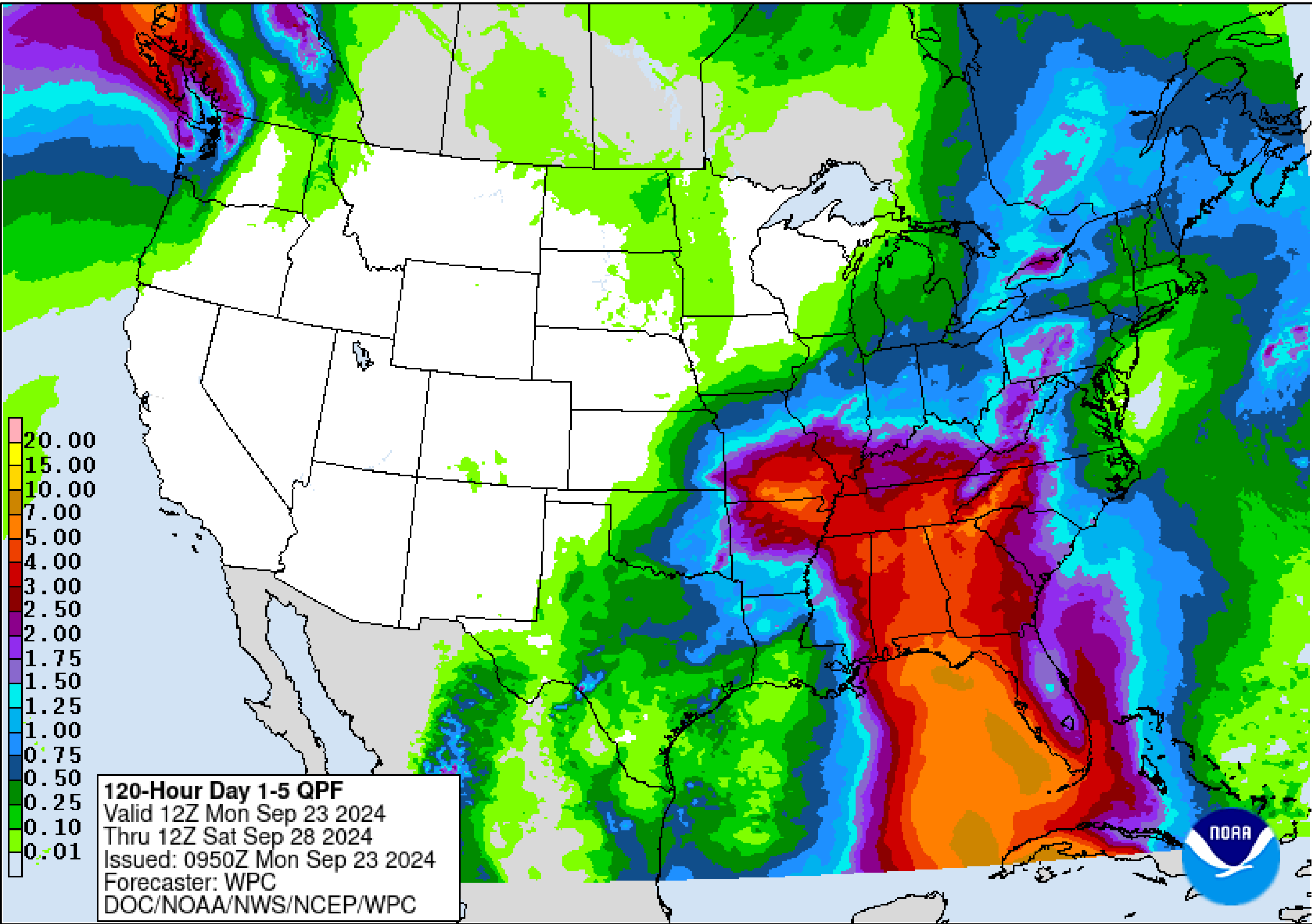
Significant Wave Height (ft)

# Expected Storm Total Rainfall and Chance of Rainfall Flooding

Potential Tropical Cyclone Nine      Images from NWS Weather Prediction Center



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



Risk of rainfall exceeding flash flood guidance within 25 miles of a point

<b>HIGH: &gt; 50%</b>	<b>SLGT: 10%-20%</b>
<b>MDT: 20%-50%</b>	<b>MRGL: 5%-10%</b>



# Key Messages

## Potential Tropical Cyclone Nine



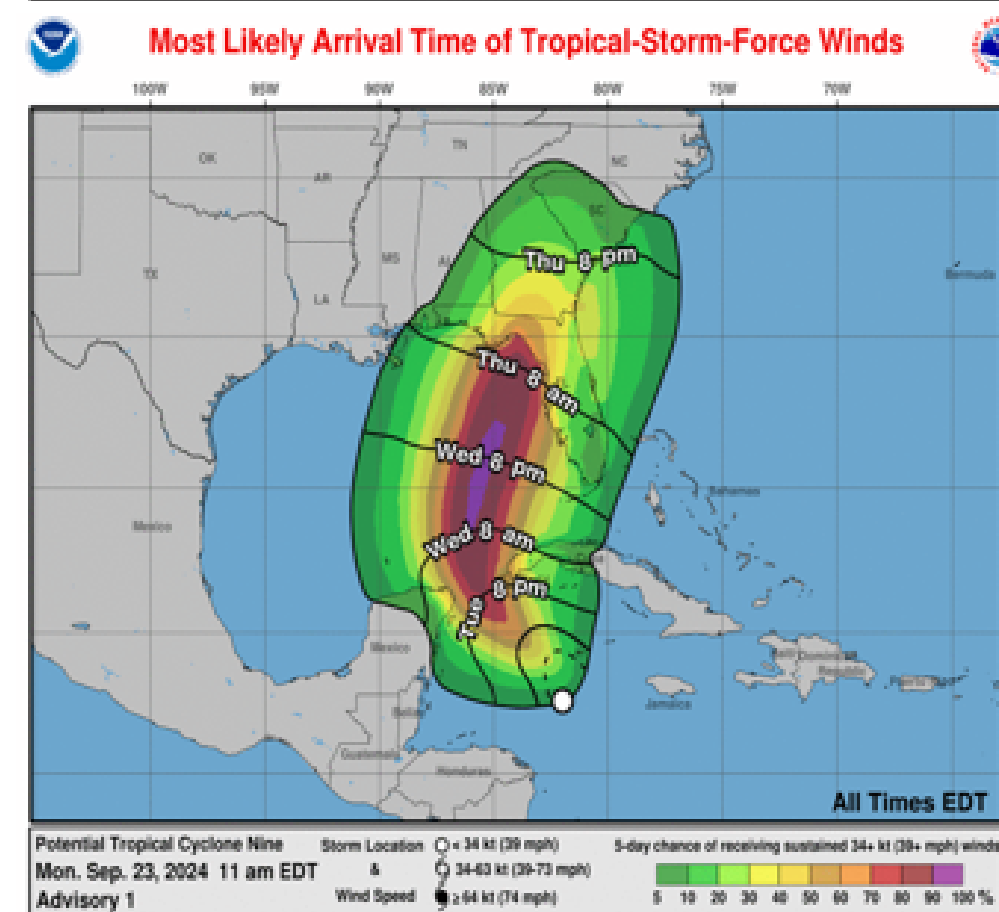
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### Key Messages for Potential Tropical Cyclone Nine

Advisory 1: 11:00 AM EDT Mon Sep 23, 2024

1. The disturbance is forecast to strengthen and be near hurricane strength when it reaches the far northwestern Caribbean Sea Tuesday night. Tropical storm conditions are expected over portions of western Cuba and the northeastern coast of the Yucatan Peninsula with hurricane conditions possible.
2. The system is expected to intensify while it moves northward over the eastern Gulf of Mexico, and it could be a major hurricane when it reaches the northeastern Gulf Coast on Thursday. There is an increasing risk of life-threatening storm surge and damaging hurricane-force winds along portions of the northern and northeastern Gulf Coast, including the Florida Panhandle and portions of the Florida west coast. Although it is too soon to specify the exact location and magnitude of impacts, residents in these areas should monitor the latest forecast updates and ensure that they have their hurricane plan in place.
3. Potential Tropical Cyclone Nine will bring heavy rain to portions of the western Caribbean which may lead to flooding and possible mudslides in western Cuba.



For more information go to [hurricanes.gov](https://hurricanes.gov)

### IMPACTS FOR D8

Winds/US Coast – High

Winds/SRR – High

Waves/US Coastal – Extreme

Waves/SRR – Extreme

through next 5 days

US Storm Surge – High

US Rainfall/Flash Flooding – Moderate

US Tornadoes – Unknown

- Marine Key Messages:
- Seas to ramp up quickly Wed morning in the SE Gulf – reaching 15 ft
- Seas to peak 25-30 ft in E Gulf on by Thu morning
- Sea to quickly diminish on Fri

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



# POTENTIAL TROPICAL CYCLONE NINE BRIEFING

**TIME of NEXT NHC Advisory:**  
**21 UTC: 4 PM CDT**

*The Next Briefing Will Be:*  
*Tuesday / 1:00 AM CDT*

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



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