

IMPACTS FOR D7

Winds/US Coast – Extreme

Winds/SRR – Extreme

Waves/US Coastal – Extreme

Waves/SRR – Extreme

through next 5 days

US Storm Surge – High

US Rainfall/Flash Flooding – Medium

US Tornadoes – Unknown

POTENTIAL TROPICAL CYCLONE NINE BRIEFING



9:00 AM EDT

Tuesday, September 24, 2024

Prepared by:

Scott Stripling

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

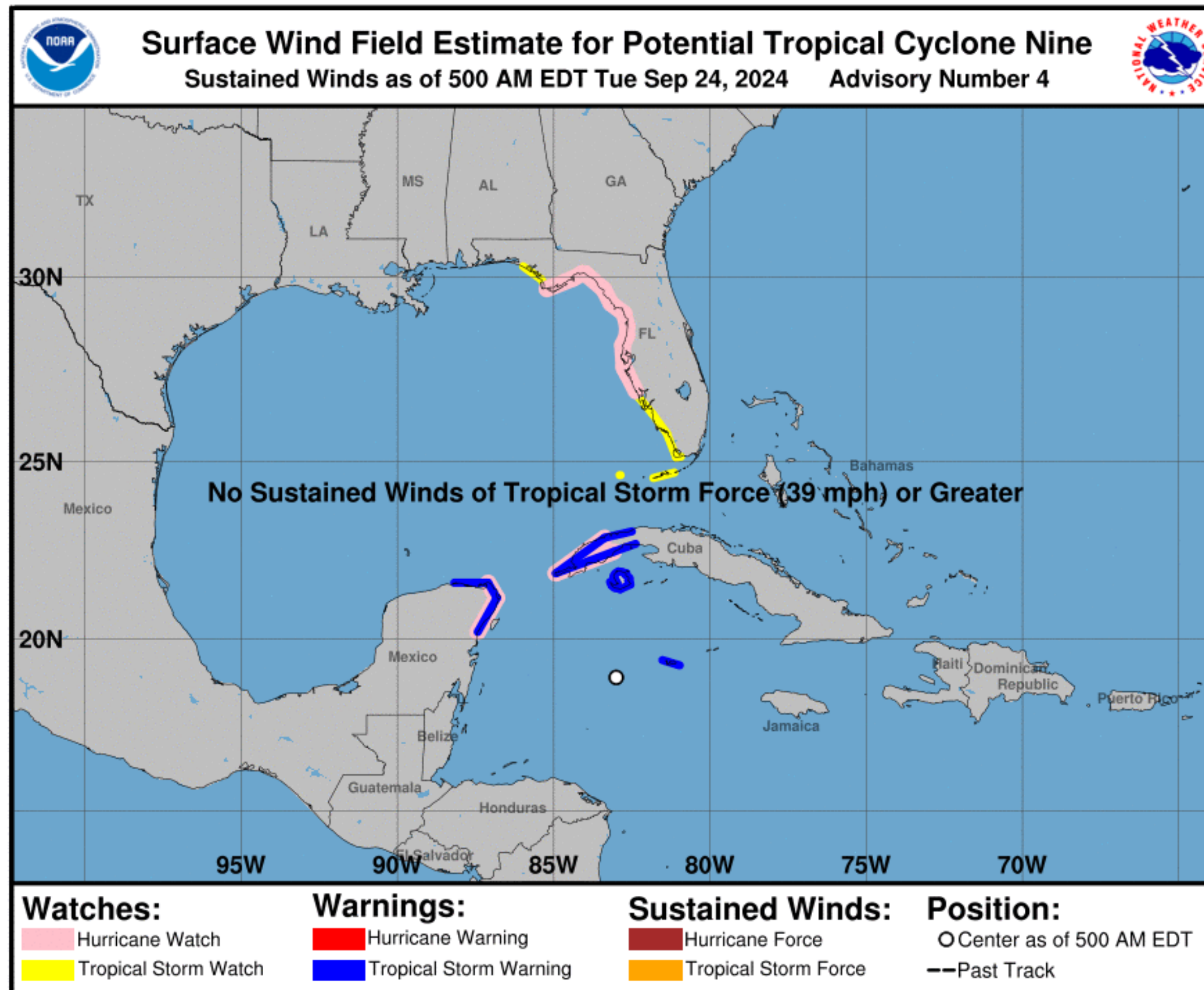
www.nhc.noaa.gov

Situation Overview

Potential Tropical Cyclone Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...DISTURBANCE FORECAST TO STRENGTHEN
SIGNIFICANTLY DURING THE NEXT FEW DAYS...
...TROPICAL STORM WATCHES ISSUED FOR THE
LOWER FLORIDA KEYS AND DRY
TORTUGAS AND GULF COASTS OF FLORIDA TO
WALTON COUNTY LINE...
...HURRICANE WATCHES ISSUED FOR
ENGELWOOD TO INDIAN PASS, TAMPA BAY...

SUMMARY OF 500 AM EDT...INFORMATION

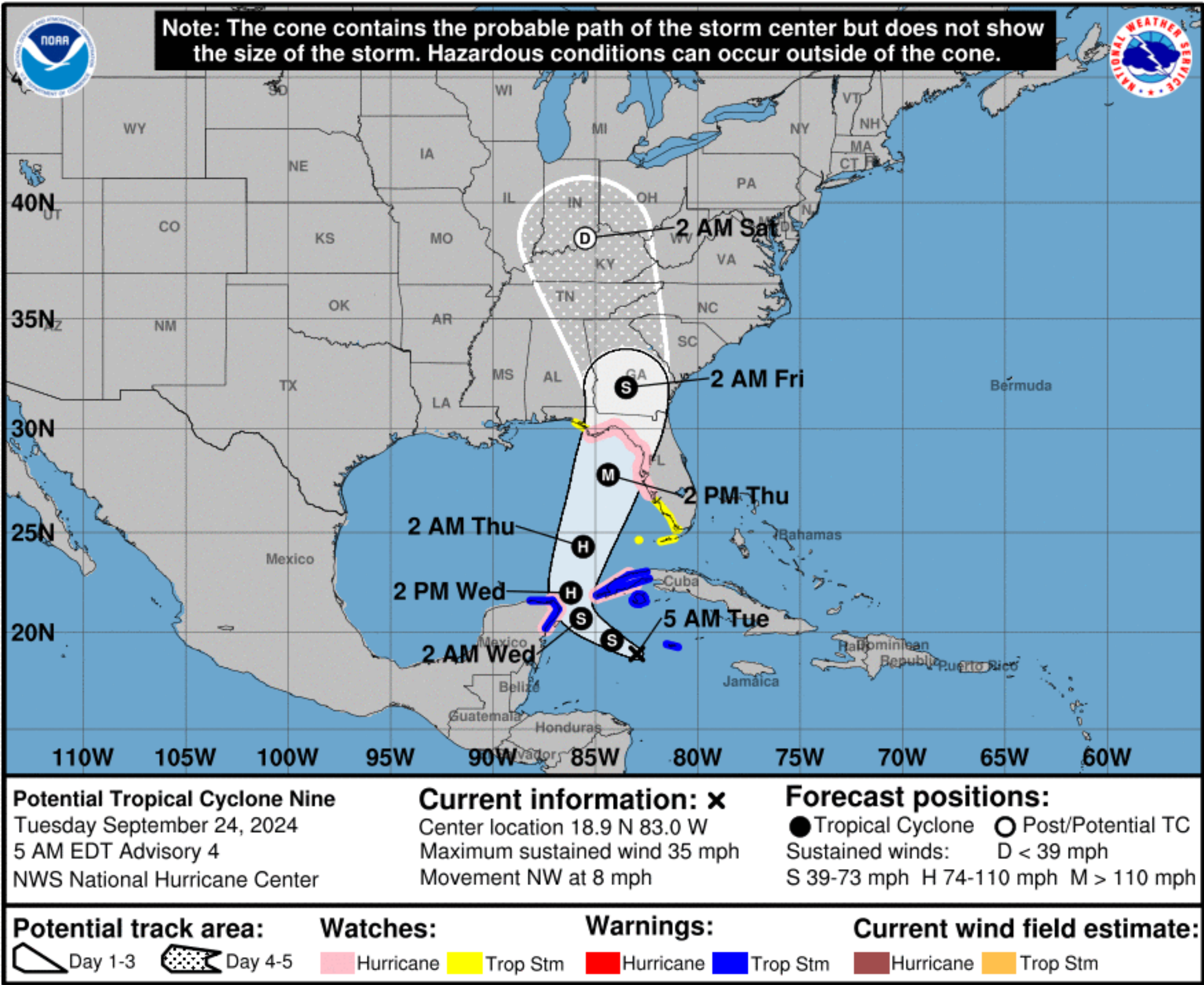
LOCATION...18.9N 83.0W
ABOUT 120 NM...WSW OF GRAND CAYMAN
ABOUT 240 NM...SSE OF THE WESTERN TIP OF
CUBA
MAXIMUM SUSTAINED WINDS...30 KT
PRESENT MOVEMENT...NNW OR 315 DEGREES
AT 7 KT
MINIMUM CENTRAL PRESSURE...1001 MB

Forecast Information

Potential Tropical Cyclone Nine



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NWS National Hurricane Center



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

- A northwestward motion is expected to continue today, followed by a faster northward to 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 through tonight, and then over the eastern Gulf of Mexico on Wednesday and Thursday.
- Strengthening is expected during the next few days, and the system is forecast to become a hurricane on Wednesday and continue strengthening on Thursday as it moves across the eastern Gulf of Mexico.
- The system will likely become a Category 2 or 3 hurricane Thursday before making landfall between Tampa Bay and Apalachicola.

- 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

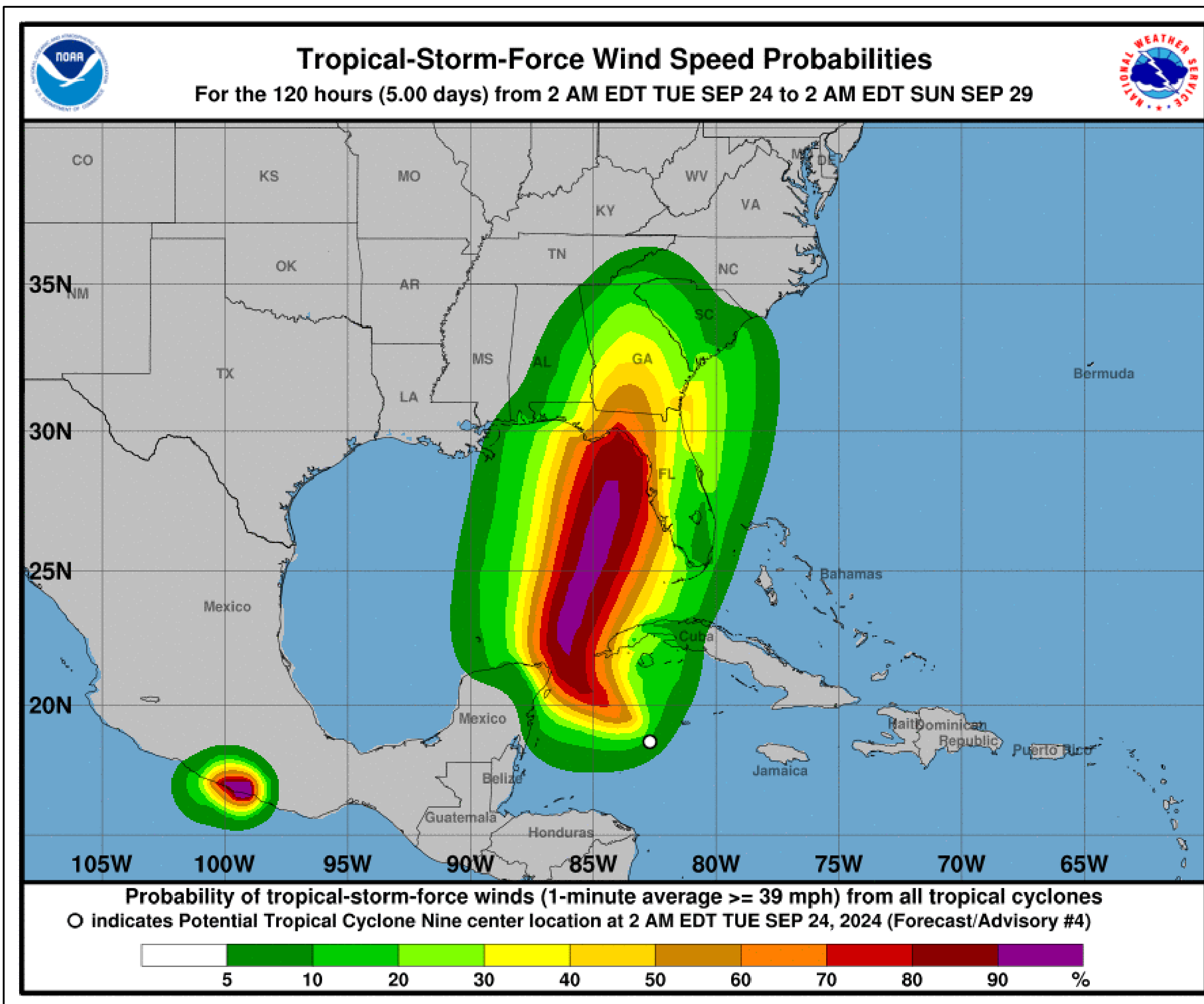
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

T.S. Wind Speed Probabilities

Potential Tropical Cyclone Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- KEY WEST FL 27%
- **NAPLES FL 41%**
- **FT MYERS FL 23%**
- **TAMPA FL 70%**
- **MOBILE AL 5%**
- **CEDAR KEY FL 79%**
- **ST MARKS FL 60%**
- **PENSACOLA FL 11%**
- **WHITING FLD FL 12%**
- **PANAMA CITY FL 54%**
- **APALACHICOLA 69%**
- **TALLAHASSEE FL 56%**

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

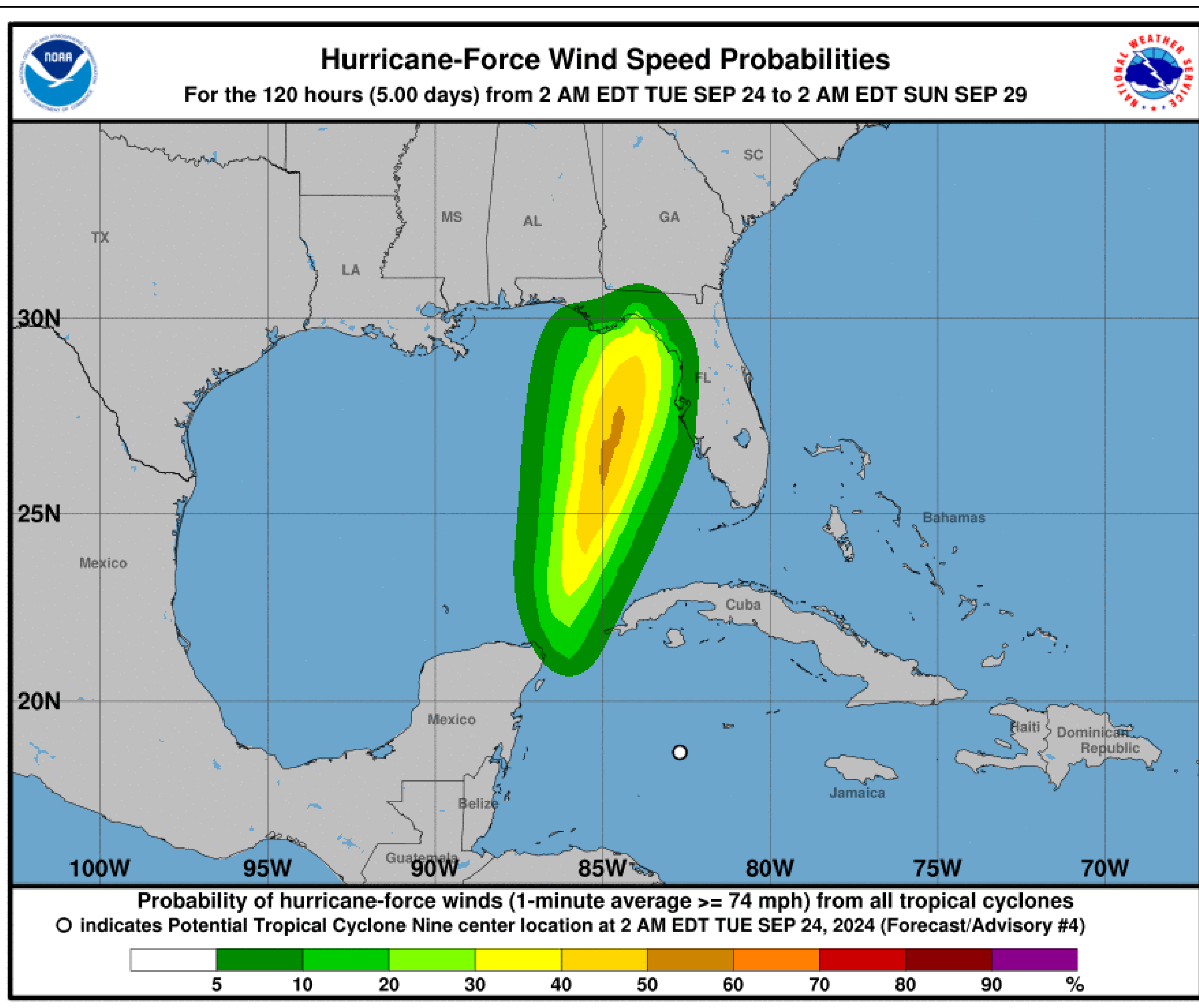
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

Hurricane Wind Speed Probabilities

Potential Tropical Cyclone Nine



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NWS National Hurricane Center



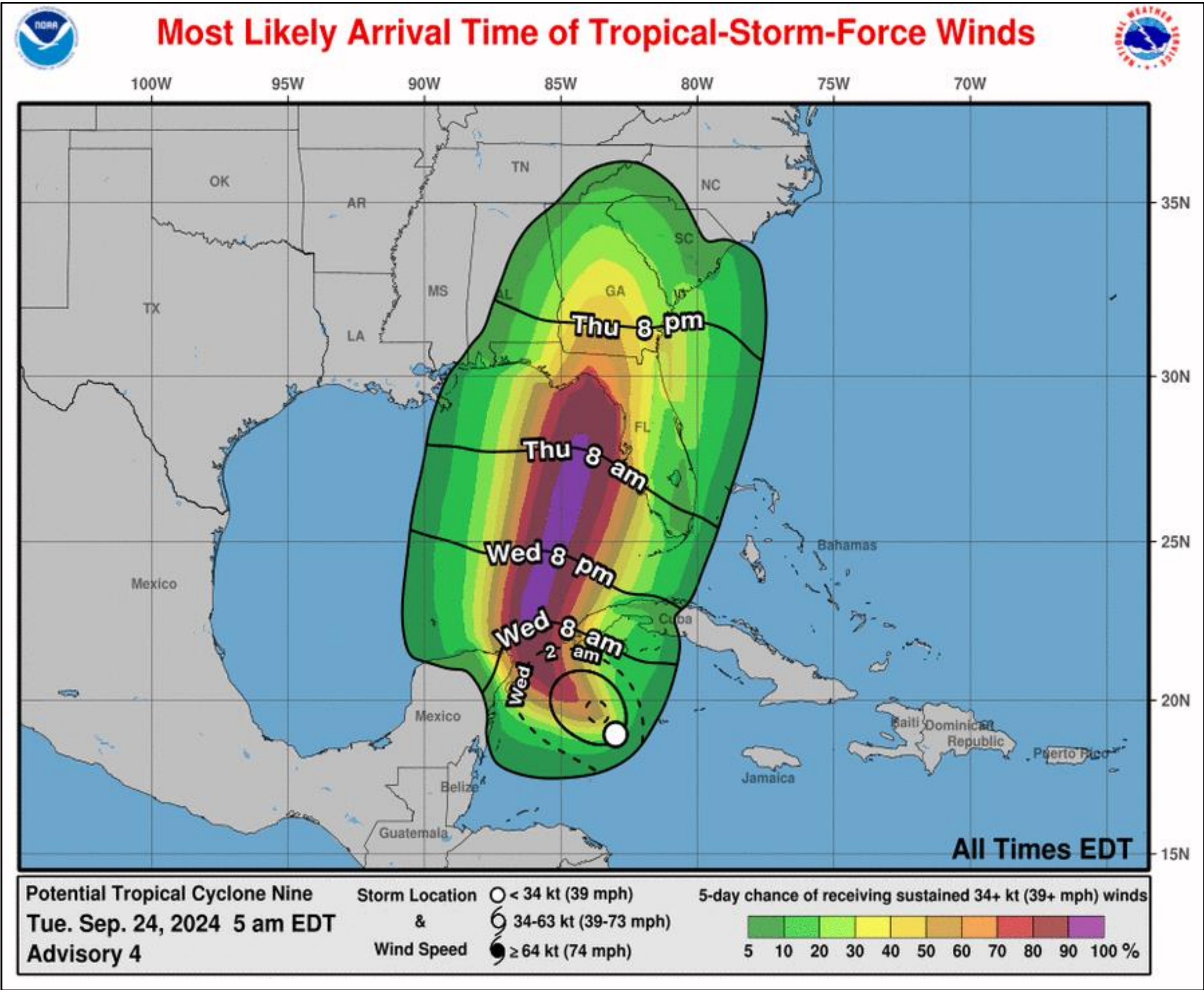
- **CEDAR KEY FL 23%**
- **TAMPA FL 10%**
- **PANAMA CITY FL 12%**
- **APALACHICOLA 22%**
- **TALLAHASSEE FL 4%**
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- 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.

Most Likely Time of Arrival and Tropical Storm Windspeed Probabilities



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NWS National Hurricane Center

Potential Tropical Cyclone Nine



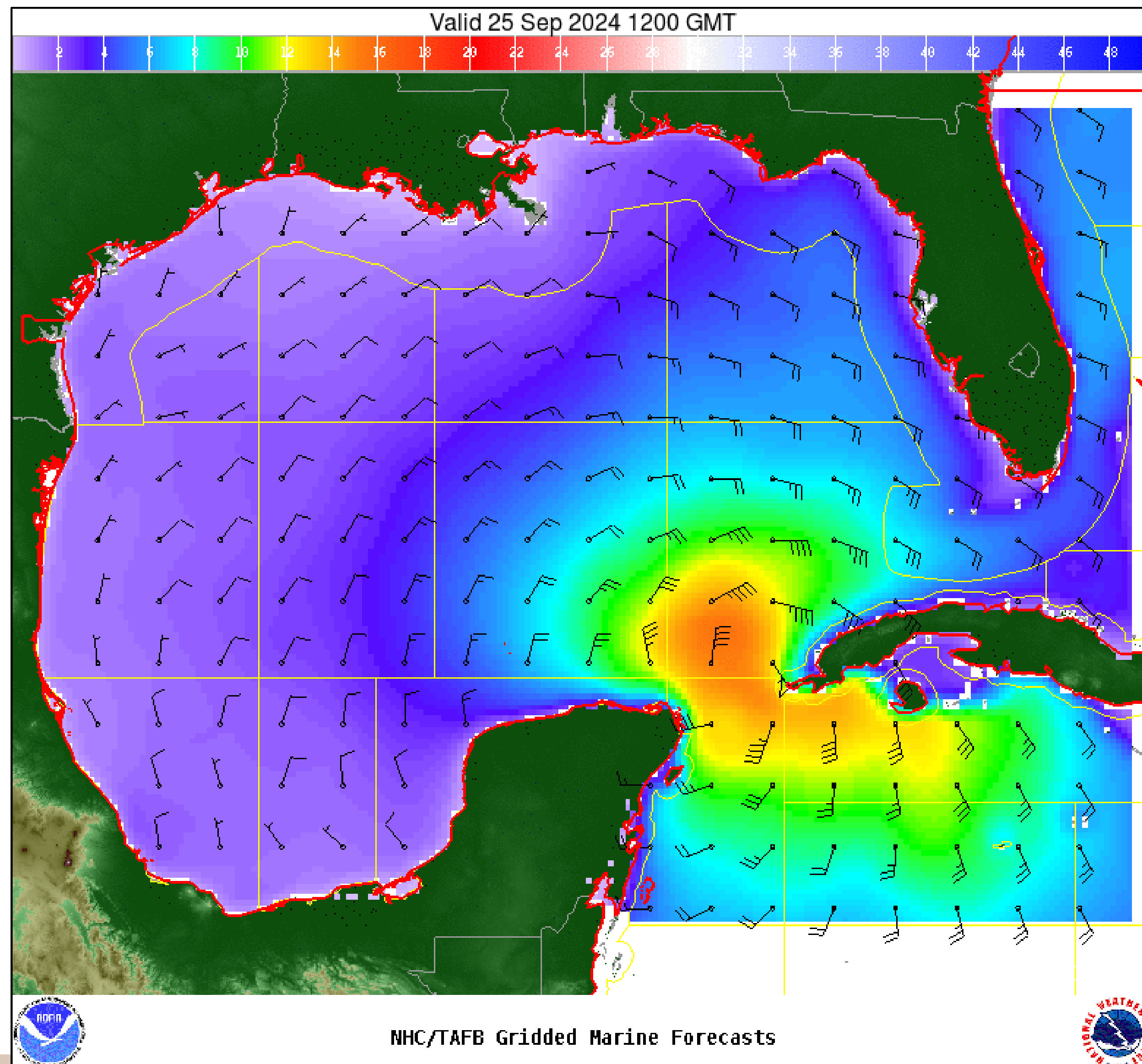
- **Florida Keys Wednesday night.**
- **Early Thursday morning approaching the NE Gulf.**
- **Thursday midday approaching the Florida Big Bend.**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark 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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24 Hour Forecast

Wednesday, September 25 at 8:00 AM EDT

Peak Winds: 60 kt

Peak Seas: 18 ft

■ Wave heights are in feet



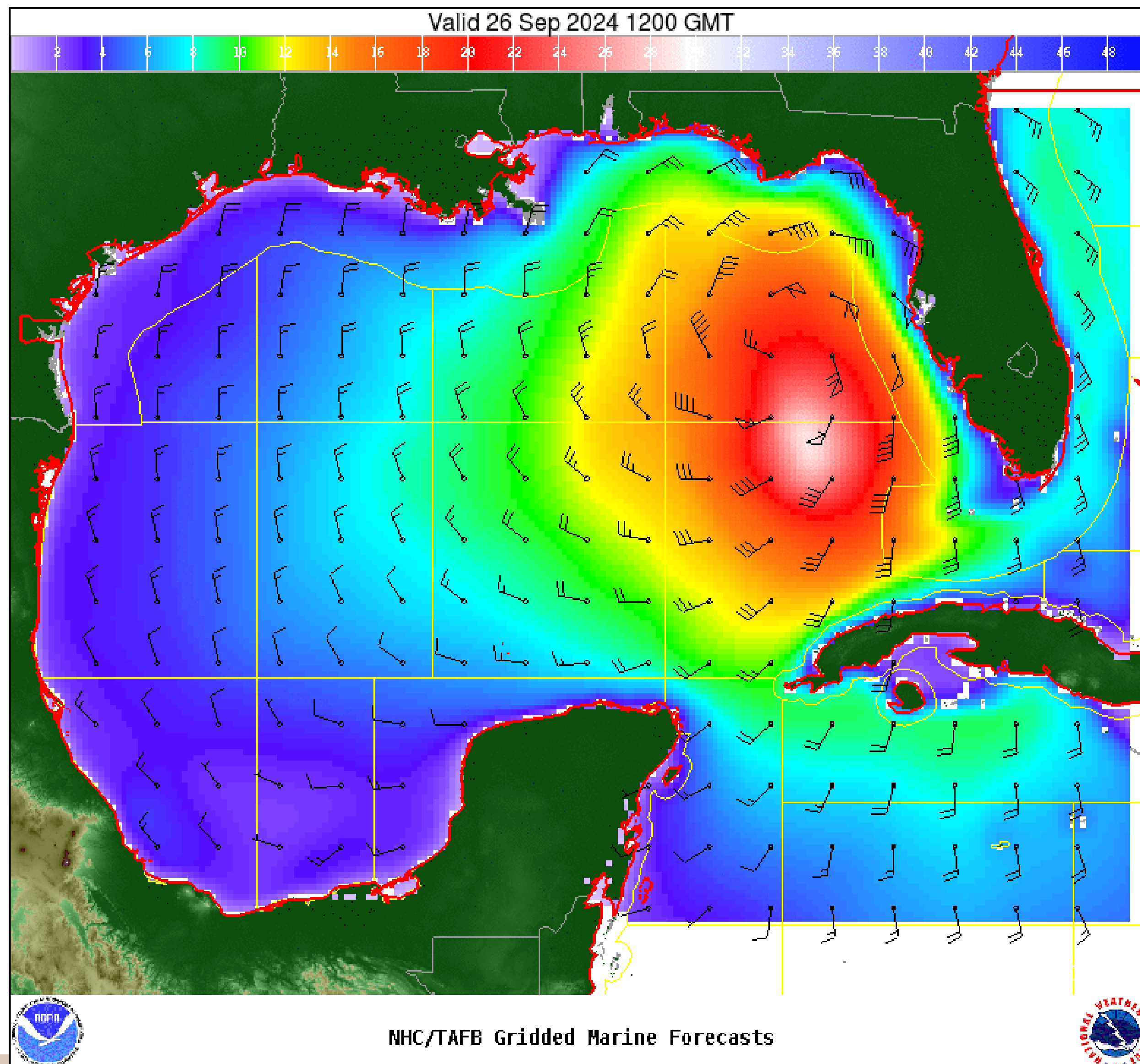
Significant Wave Height (ft)

Wind And Waves

Potential Tropical Cyclone Nine



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48 Hour Forecast

Thursday, September 26 at 8:00 AM EDT

Peak Winds: 90 kt

Peak Seas: 36 ft

- Wave heights are in feet



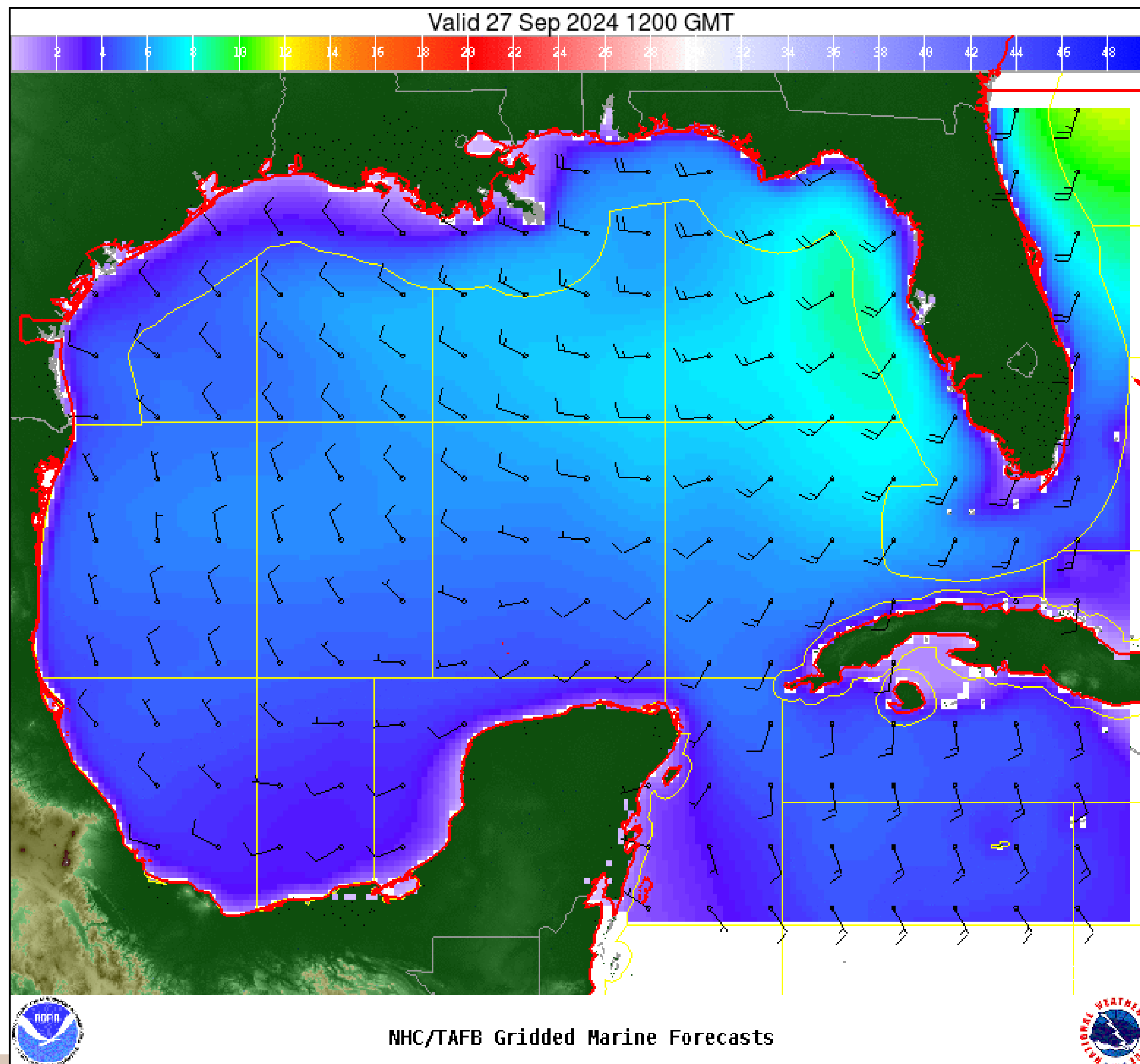
Significant Wave Height (ft)

Wind And Waves

Potential Tropical Cyclone Nine



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72 Hour Forecast

Friday, September 27 at 8:00 AM EDT

Peak Winds: 20 kt

Peak Seas: 9 ft

- Wave heights are in feet



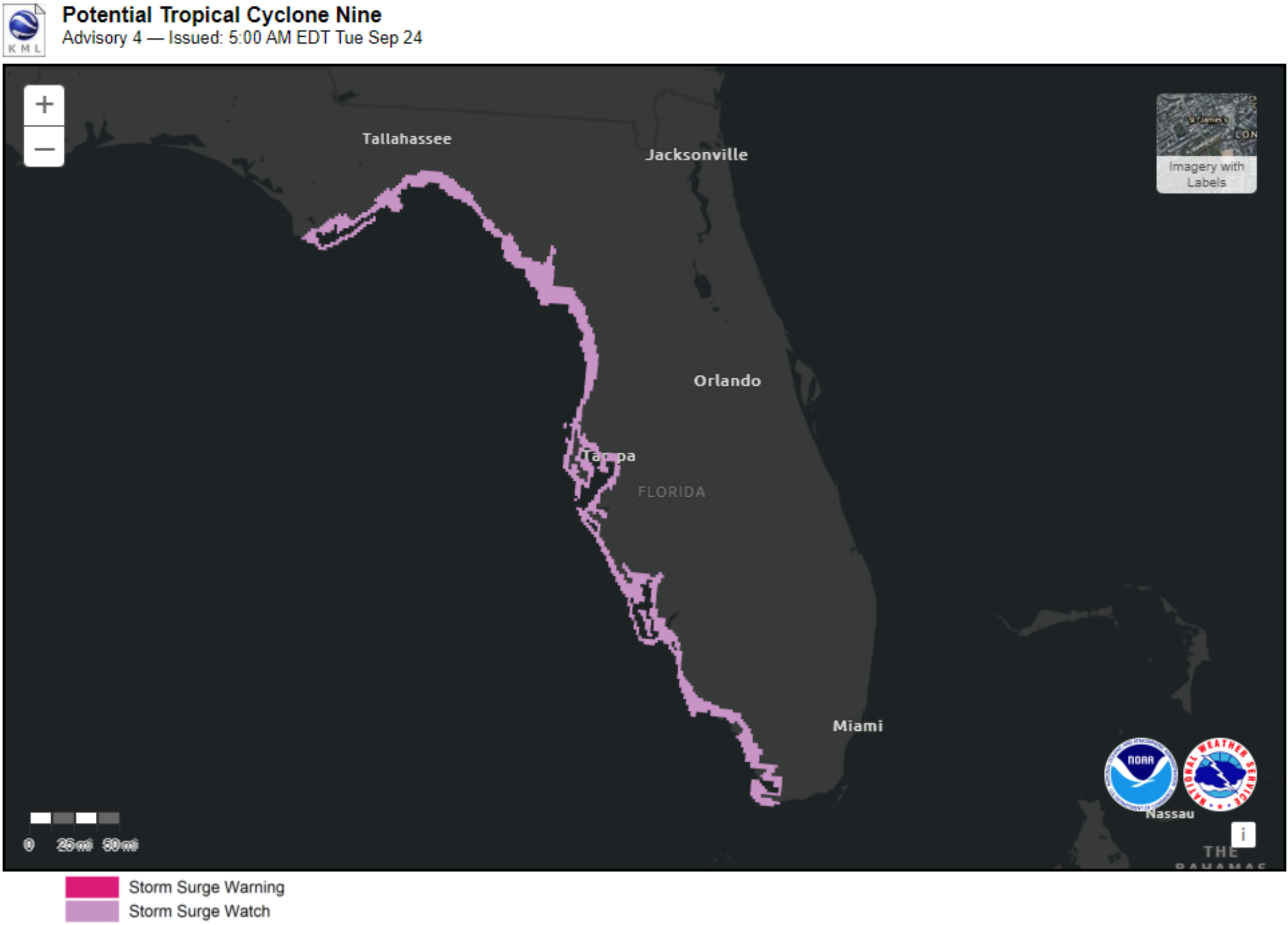
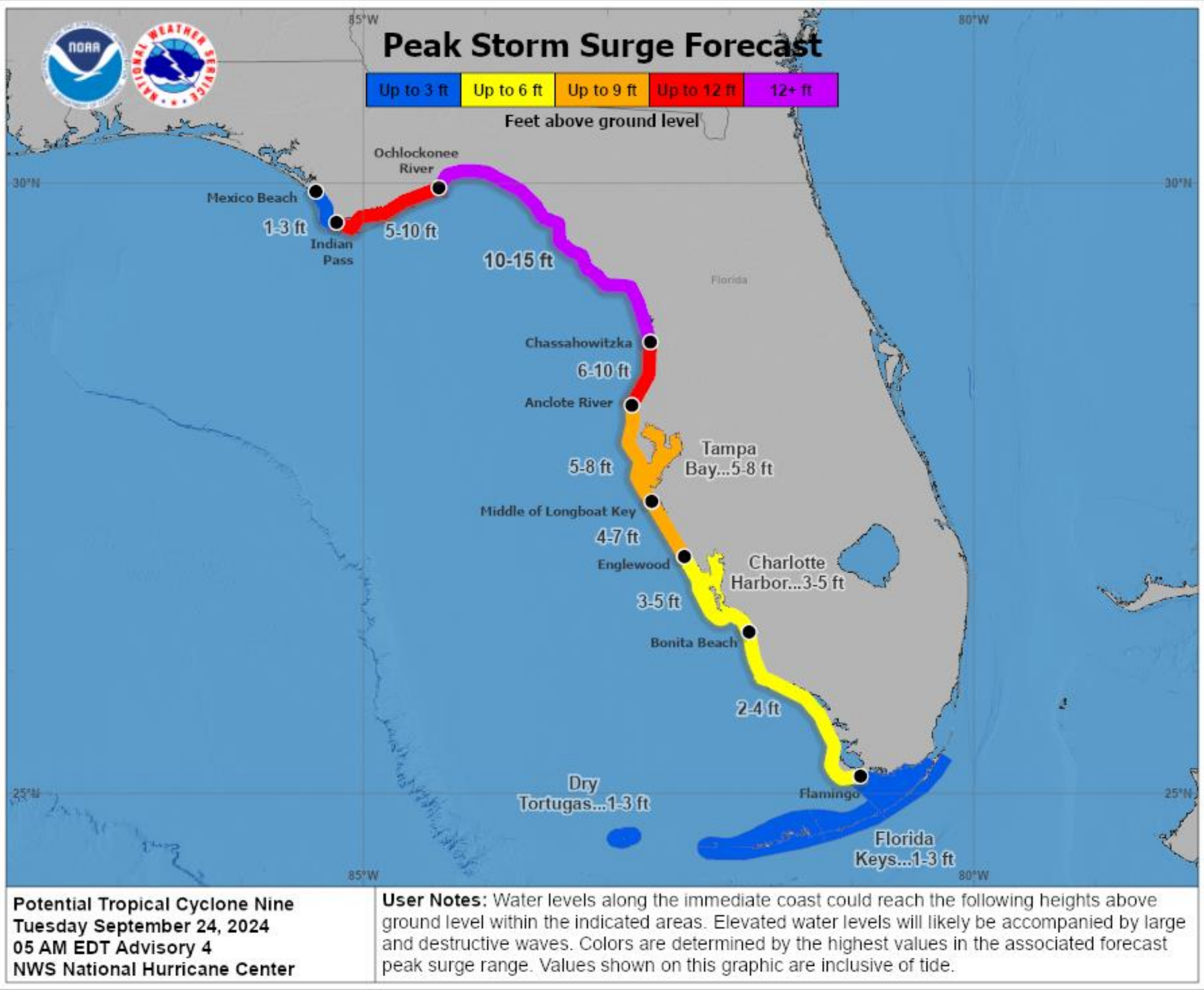
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



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NWS National Hurricane Center

Potential Tropical Cyclone Nine

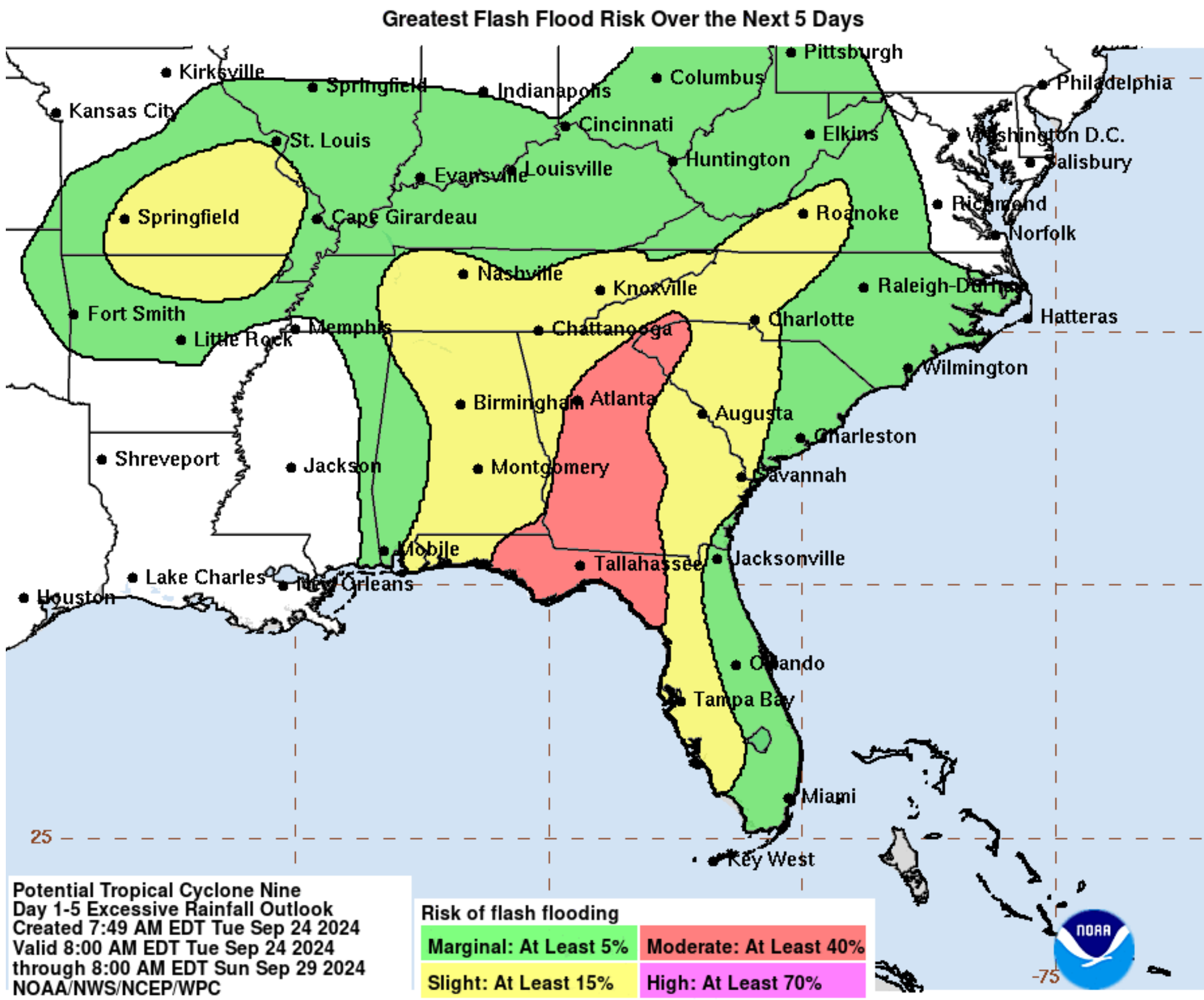
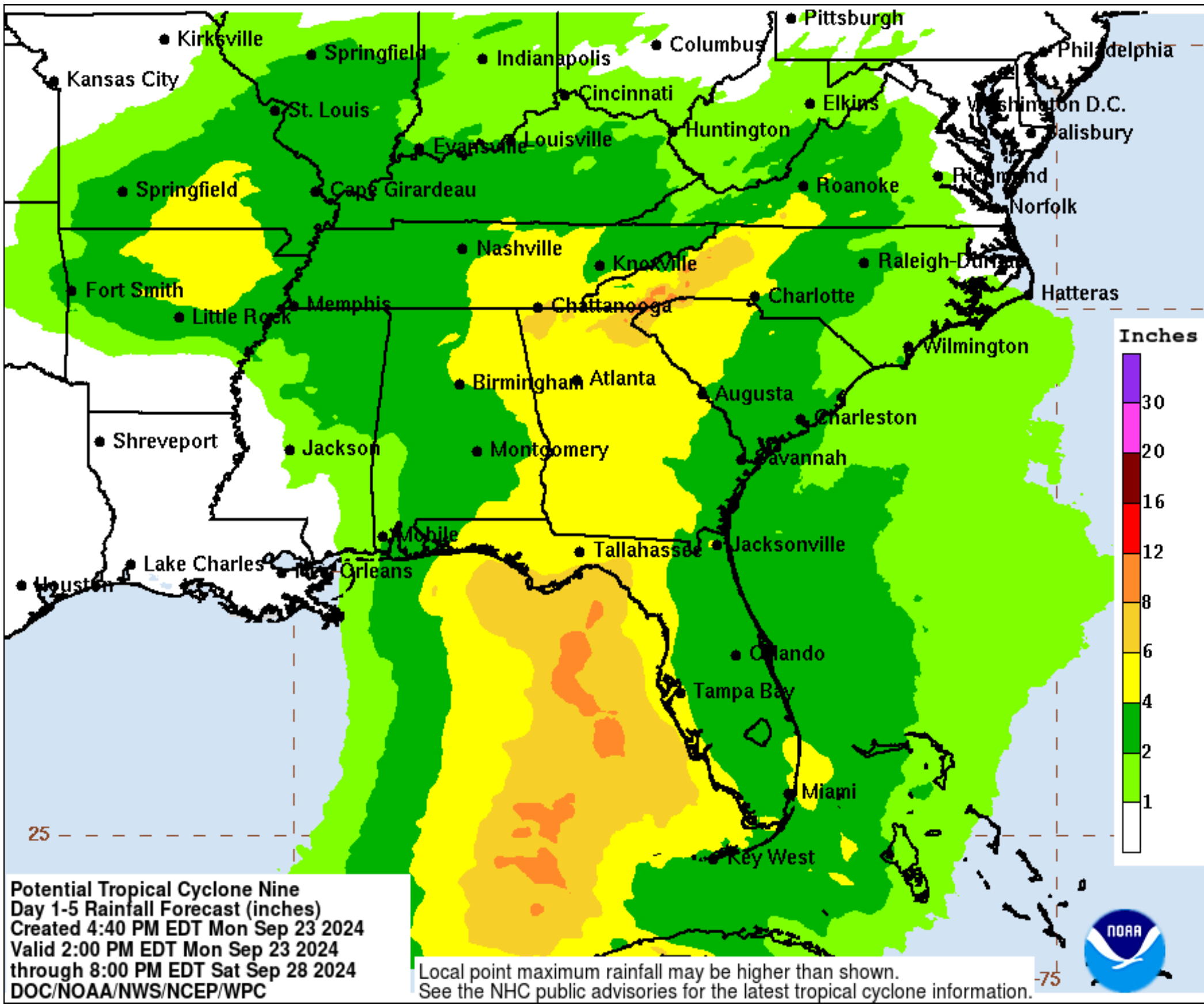


Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Potential Tropical Cyclone Nine Images from NWS Weather Prediction Center



Over the Southeastern U.S., Potential Tropical Cyclone Nine is expected to produce total rain accumulations of 3 to 6 inches with isolated totals around 10 inches, bringing a risk of flooding, some of which could be considerable.

Risk of rainfall exceeding flash flood guidance within 25 miles of a point
HIGH: > 50% **SLGT: 10%-20%**
MDT: 20%-50% **MRGL: 5%-10%**
Refer to map legend for Valid Time

Key Messages

Potential Tropical Cyclone Nine



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Key Messages for Potential Tropical Cyclone Nine

Advisory 2: 5:00 PM EDT Mon Sep 23, 2024

1. The disturbance is forecast to intensify 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 into a major hurricane before it approaches the northeastern Gulf Coast on Thursday. While it is too soon to pinpoint the exact location and magnitude of impacts, the potential for life-threatening storm surge and damaging hurricane-force winds along the coast of the Florida Panhandle and the Florida west coast is increasing. Storm Surge and Hurricane Watches will likely be issued for a portion of that area tonight or Tuesday morning, and residents should ensure 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.

Potential Tropical Cyclone Nine
Monday September 23, 2024
5 PM EDT Advisory 2
NWS National Hurricane Center

Current information: x
Center location 18.1 N 82.2 W
Maximum sustained wind 35 mph
Movement NNW at 7 mph

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

Potential track area:
Day 1-3 Day 4-5
Watches:
Hurricane Tropical Storm
Warnings:
Hurricane Tropical Storm
Current wind field estimate:
Hurricane Tropical Storm

Most Likely Arrival Time of Tropical-Storm-Force Winds

Potential Tropical Cyclone Nine
Mon. Sep. 23, 2024 5 pm EDT
Advisory 2

Storm Location ○ = 34 kt (39 mph)
○ = 34-43 kt (39-73 mph)
○ = 44-63 kt (50-73 mph)
○ = 64 kt (74 mph)

5-day chance of receiving sustained 34+ kt (39+ mph) winds
0 10 20 30 40 50 60 70 80 90 100 %

For more information go to hurricanes.gov

IMPACTS FOR D7 through next 5days

Winds/US Coast – Extreme

US Storm Surge – High

Winds/SRR – Extreme

US Rainfall/Flash Flooding – Medium

Waves/US Coastal – Extreme

US Tornadoes – Unknown

Waves/SRR – Extreme

Marine Key Messages:

- Marine conditions will quickly deteriorate over the SE Gulf beginning tonight.
- The disturbance is expected to continue to intensify and become a hurricane on Wednesday
- The disturbance will likely become a Category 3 hurricane over the NE Gulf on Thursday.
- Peak wind of 100 kt and seas of 36 ft are likely to occur on Thursday.

9/24/2024 8:27 AM

www.nhc.noaa.gov

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



POTENTIAL TROPICAL CYCLONE NINE BRIEFING

TIME of NEXT NHC Advisory:

2100 UTC: 5 PM EDT

*The Next Briefing Will Be:
Tuesday 6:00 PM EDT*

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



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