

IMPACTS FOR (D7)

Winds/US Coast – Medium

Winds/SRR – High

Waves/US Coastal – Medium

Waves/SRR – High

through next 5 days

US Storm Surge – None

US Rainfall/Flash Flooding – Low

US Tornadoes – None

POTENTIAL TROPICAL CYCLONE EIGHTEEN BRIEFING



9:00 AM EST
Monday, November 4, 2024

Prepared by:

Nelsie Ramos

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



Change since yesterday

Potential Tropical Cyclone Eighteen



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NWS National Hurricane Center

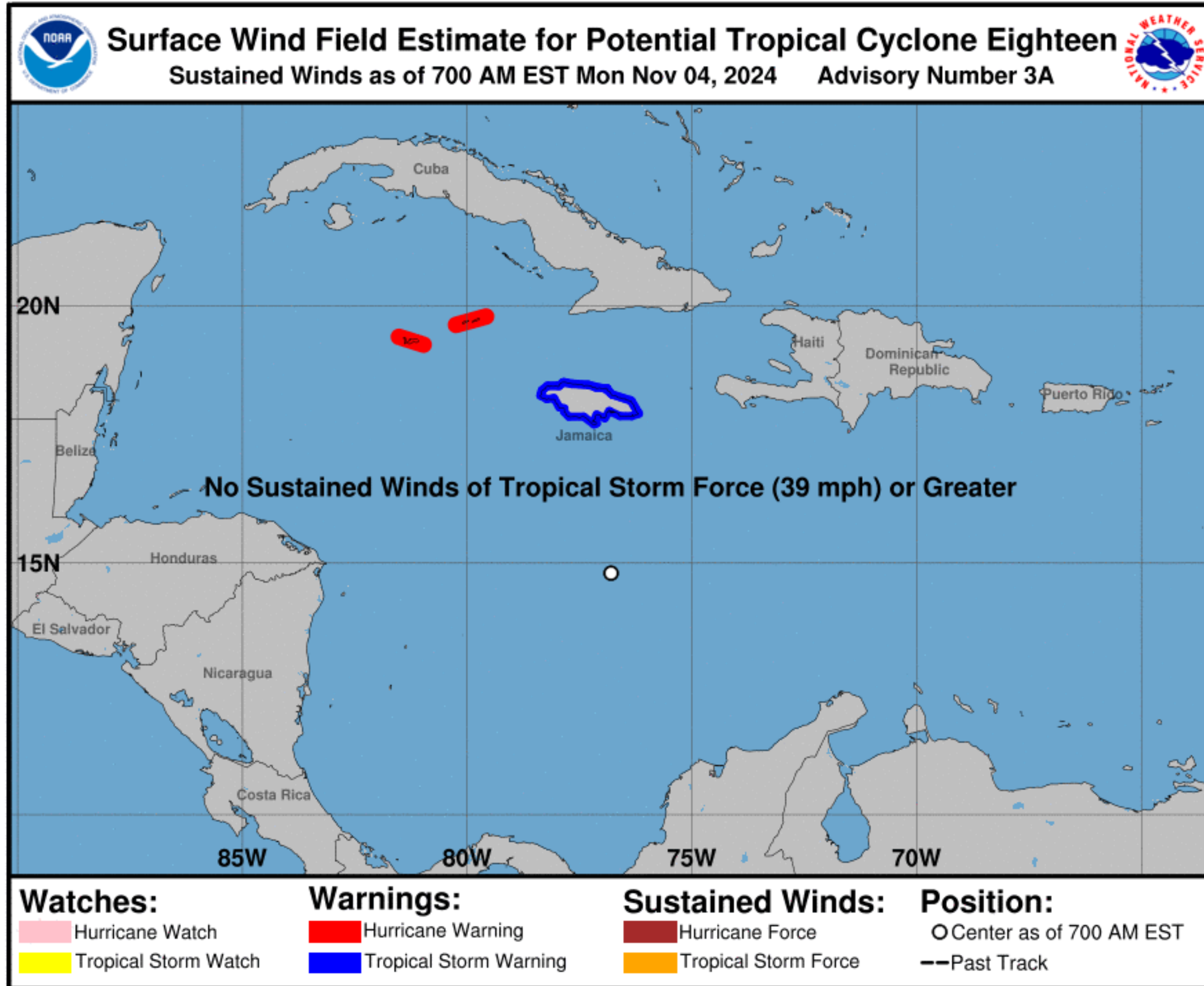
- Advisories commenced for Potential Tropical Cyclone Eighteen
- Tropical Storm threat for Florida Keys and SW Florida
(but not a Hurricane threat)

Situation Overview

Potential Tropical Cyclone Eighteen



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...SYSTEM EXPECTED TO BECOME A TROPICAL DEPRESSION SOON...FORECAST TO STRENGTHEN AS IT MOVES ACROSS THE WESTERN CARIBBEAN...

SUMMARY OF 700 AM EST...1200 UTC...INFORMATION

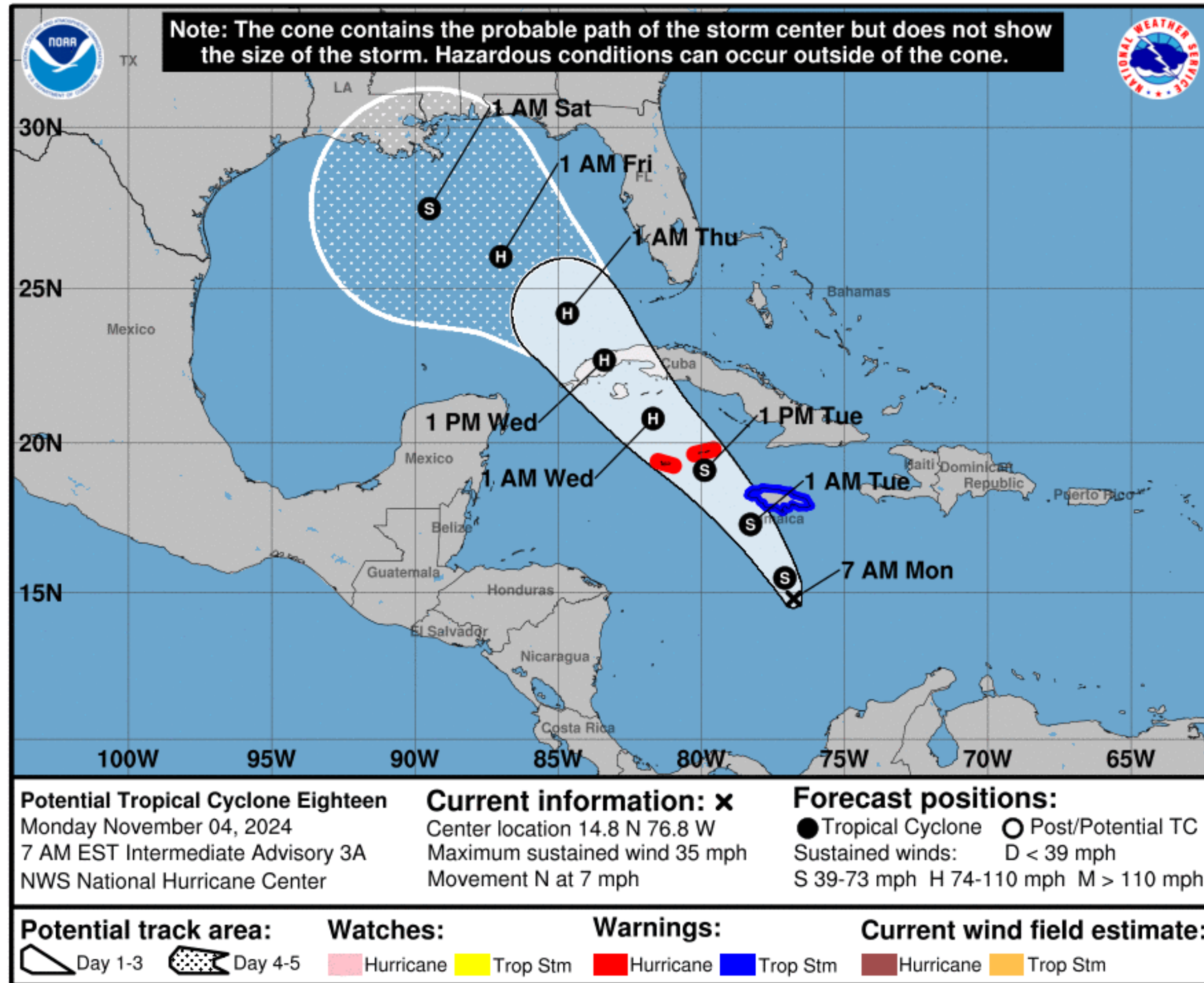
**LOCATION...14.8N 76.8W
ABOUT 190 NMI S OF KINGSTON JAMAICA
ABOUT 370 NMI SE OF GRAND CAYMAN
MAXIMUM SUSTAINED WINDS...30 KT
PRESENT MOVEMENT...N AT 6 KT
MINIMUM CENTRAL PRESSURE...1003 MB**

Forecast Information

Potential Tropical Cyclone Eighteen



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

- **PTC-18 is moving toward the north with a NW motion expected later today and forecast to continue for the next few days.**
- **The disturbance is expected to become a tropical depression or storm today with additional strengthening forecast thereafter.**
- **The system could be near or at hurricane intensity when it passes near the Cayman Islands and Cuba**
- **Hurricane conditions are also forecast for the SE Gulf of Mexico**

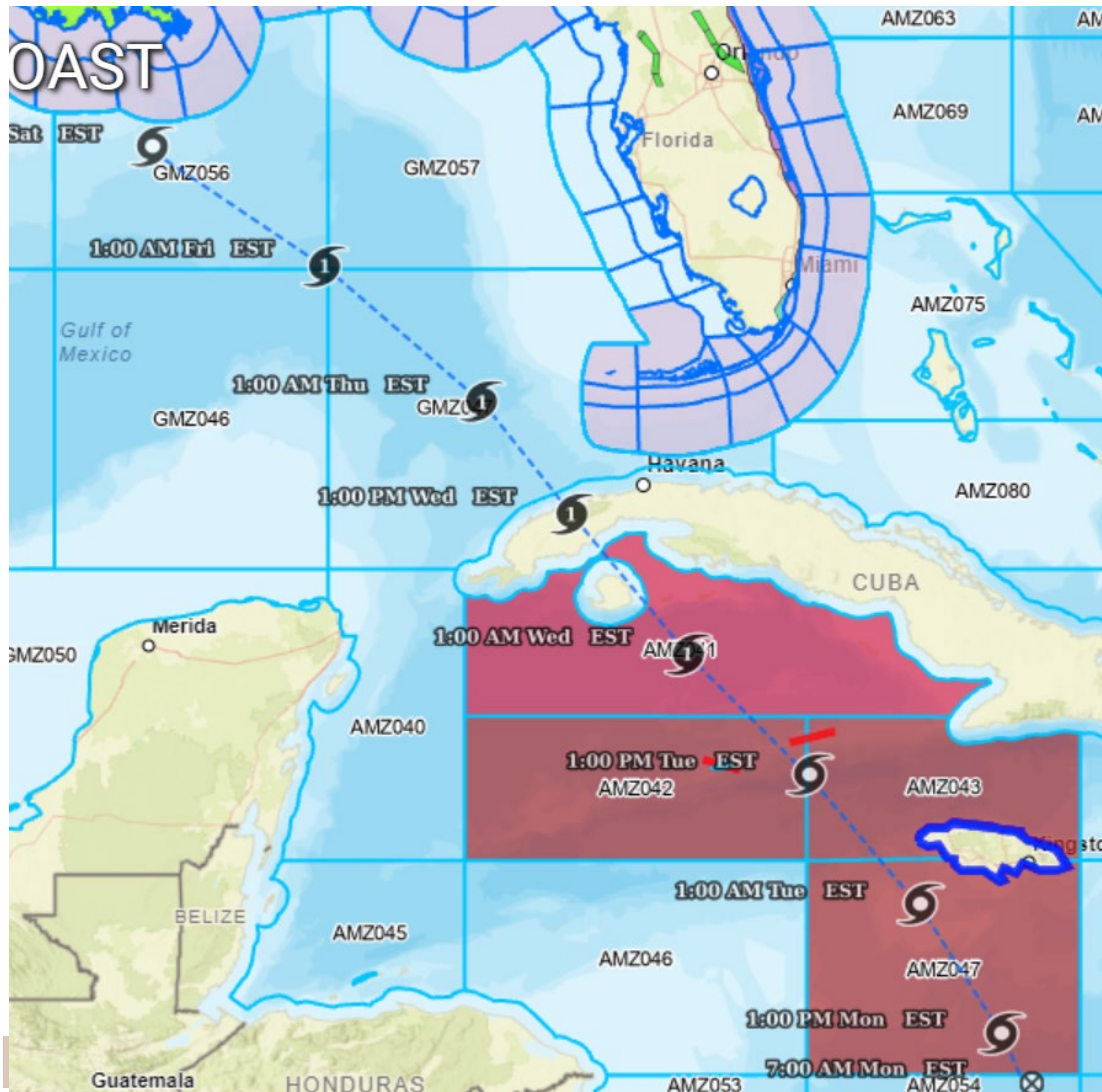
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

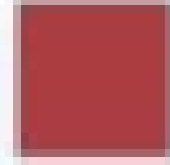
Hazards Map

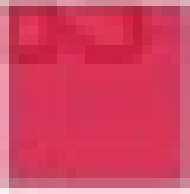


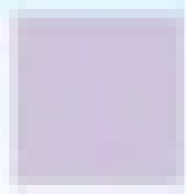
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Potential Tropical Cyclone Eighteen



 Tropical Storm Warning

 Hurricane Warning

 Small Craft Advisory

T.S. Wind Speed Probabilities

Potential Tropical Cyclone Eighteen



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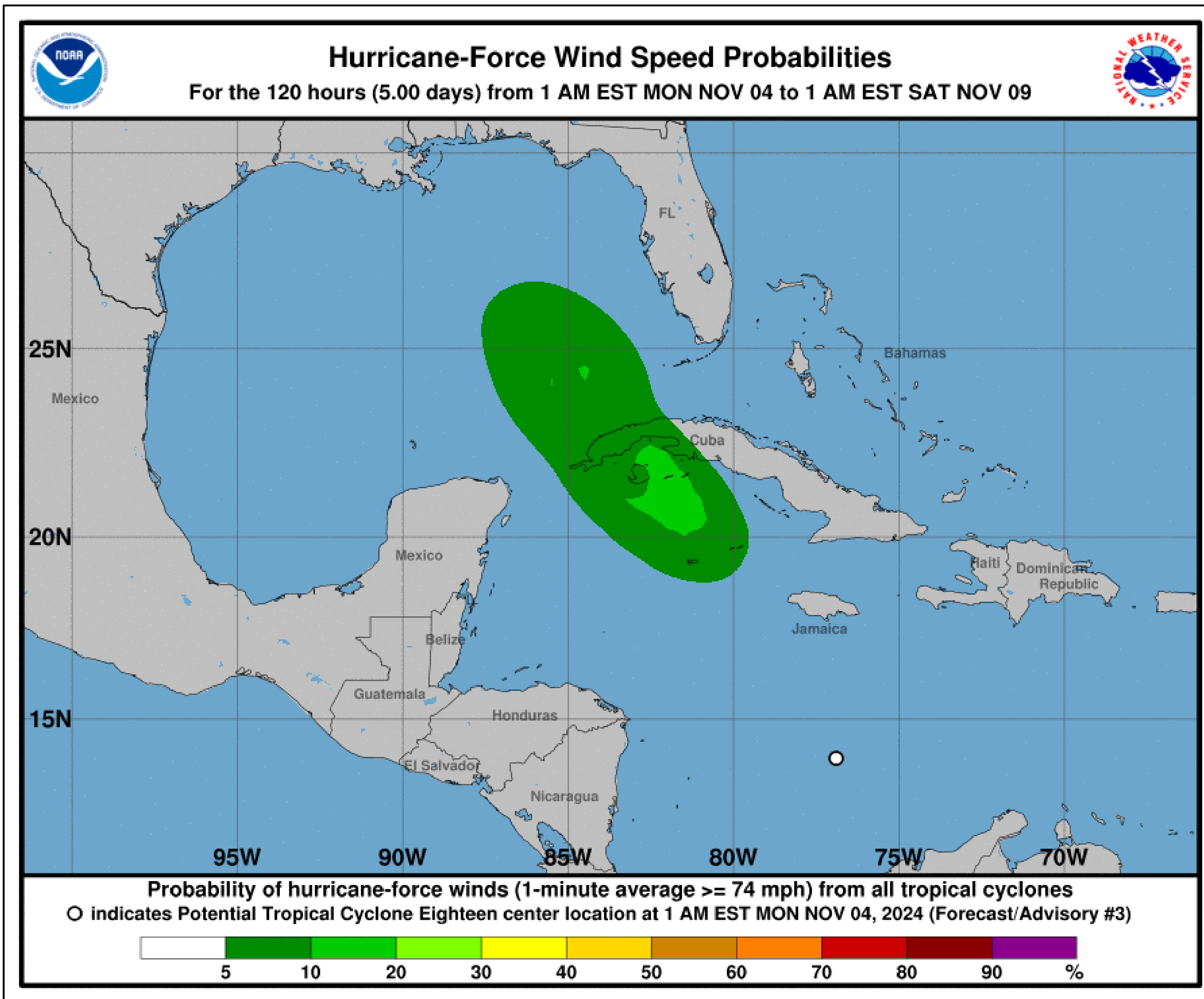
- Key West – 40%
- Naples – 25%
- Venice – 25%
- Cedar Key – 10%
- Apalachicola – 15%
- Panama City – 15%
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- 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



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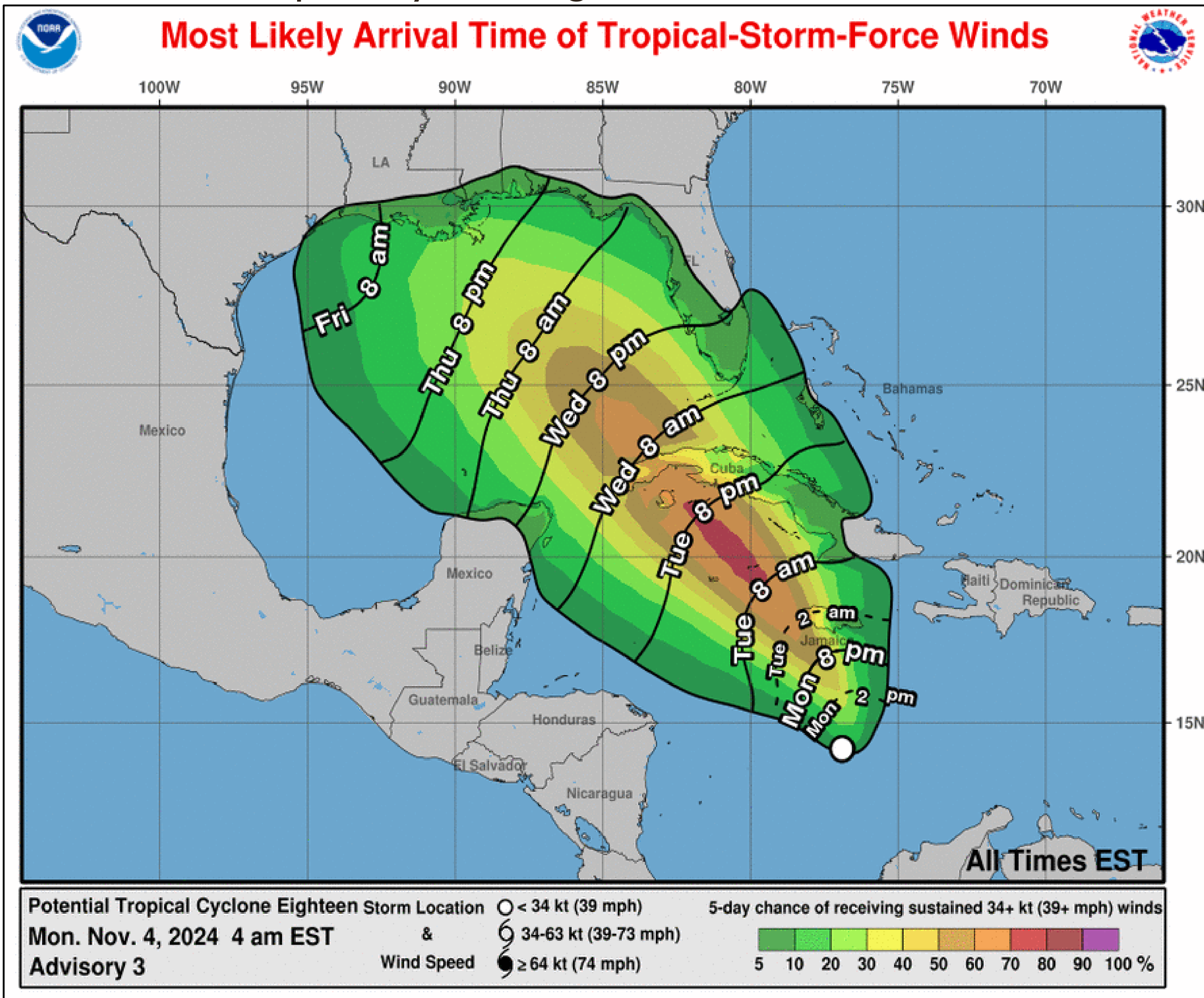
Potential Tropical Cyclone Eighteen



- **Less than 5% at any US location**
- 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 Eighteen



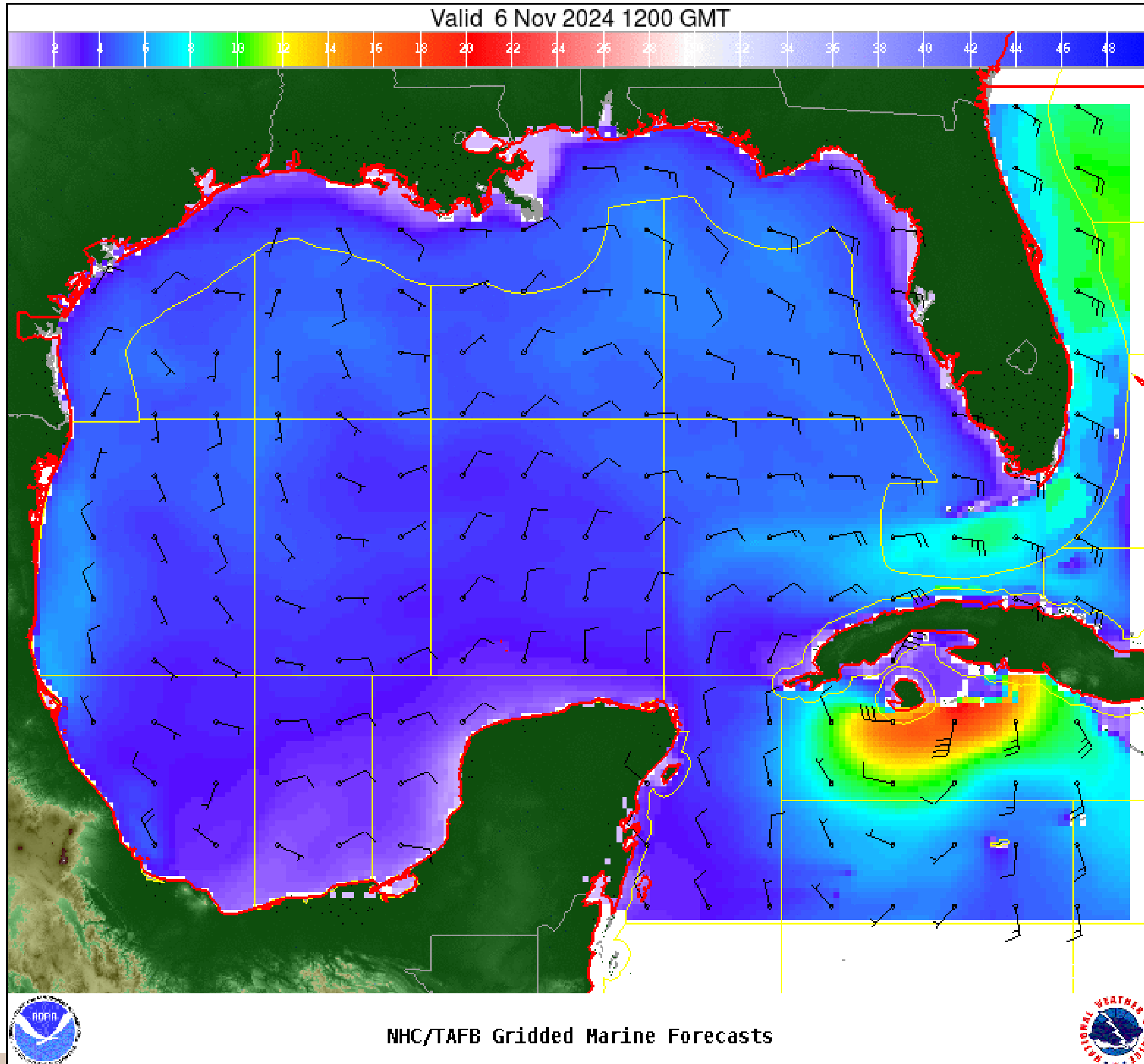
- **Florida Keys – Wednesday morning**
- **SW Florida – Wednesday afternoon**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- 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 Eighteen



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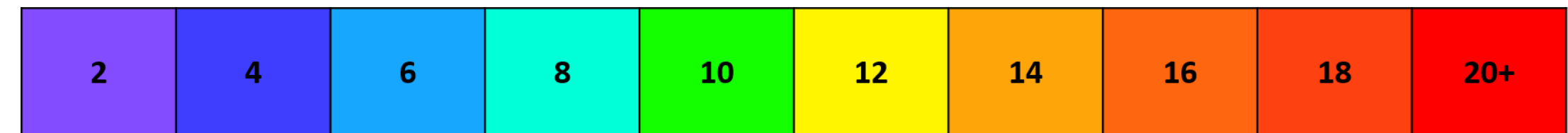
48 Hour Forecast

7am EST Wednesday, November 6th

Peak Winds: 25 kt (in Gulf)

Peak Seas: 10 ft (in Gulf)

■ Wave heights are in feet



Significant Wave Height (ft)

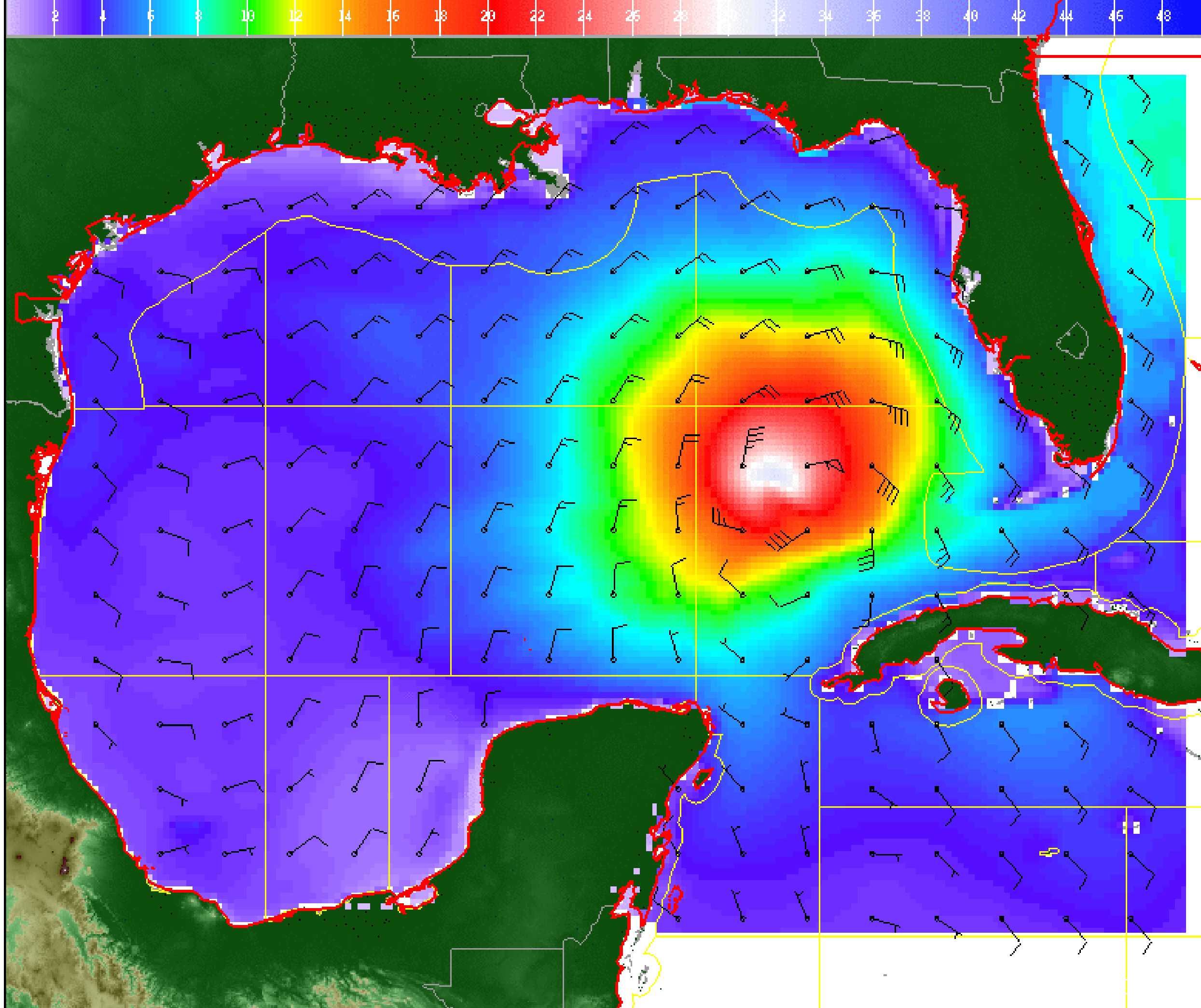
Wind And Waves

Potential Tropical Cyclone Eighteen



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Valid 7 Nov 2024 1200 GMT



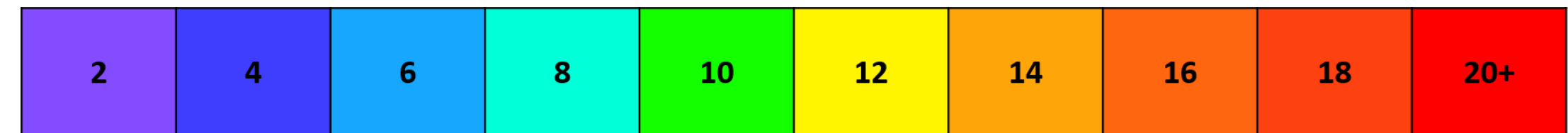
72 Hour Forecast

7am EST Thursday, November 7th

Peak Winds: 70 kt

Peak Seas: 30 ft

■ Wave heights are in feet



Significant Wave Height (ft)



NHC/TAFB Gridded Marine Forecasts



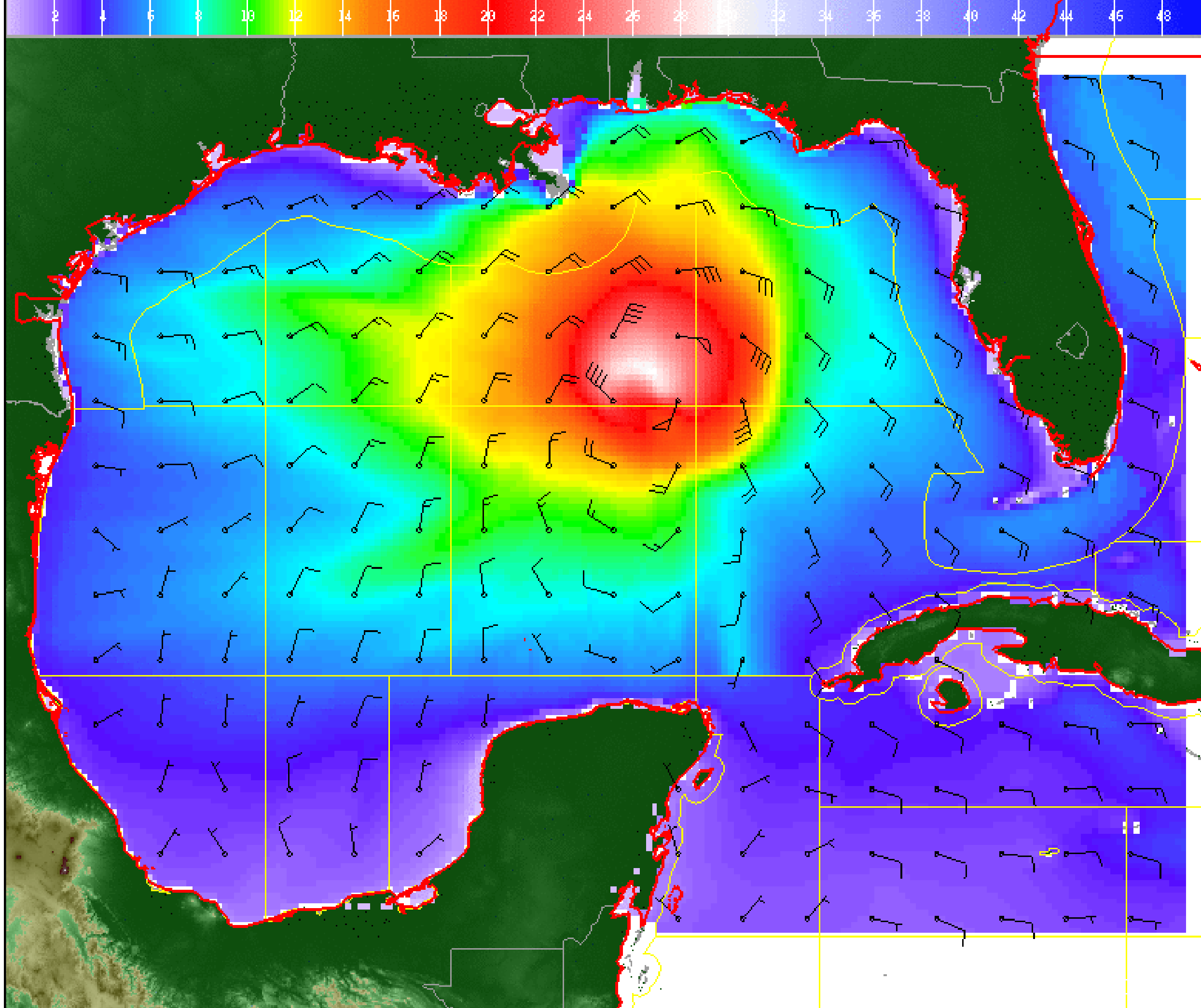
Wind And Waves

Potential Tropical Cyclone Eighteen



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Valid 8 Nov 2024 1200 GMT



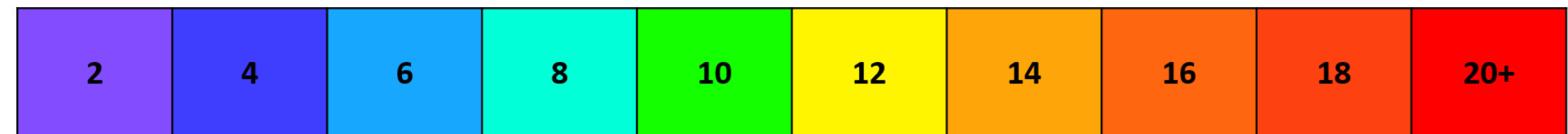
96 Hour Forecast

7am EST Friday, November 8th

Peak Winds: 65 kt

Peak Seas: 27 ft

■ Wave heights are in feet



Significant Wave Height (ft)



NHC/TAFB Gridded Marine Forecasts

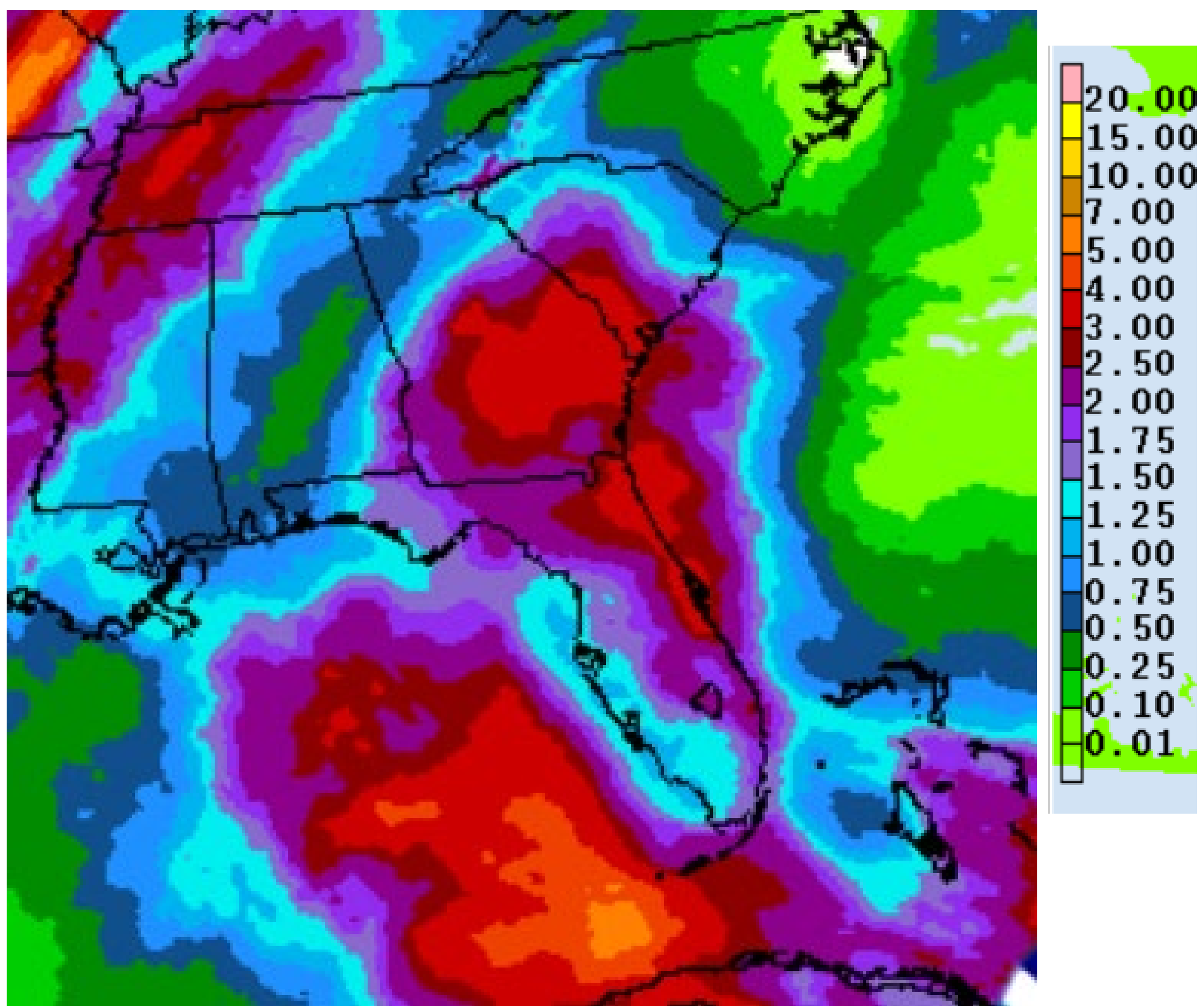


Expected Storm Total Rainfall and Chance of Rainfall Flooding



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NWS National Hurricane Center

Potential Tropical Cyclone Eighteen Images from NWS Weather Prediction Center



Risk of rainfall exceeding flash flood guidance within 25 miles of a point
HIGH: At Least 70% **SLGT: At Least 15%**
MDT: At Least 40% **MRGL: At Least 5%**

Key Messages

Potential Tropical Cyclone Eighteen



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Key Messages for Potential Tropical Cyclone Eighteen

Advisory 3: 4:00 AM EST Mon Nov 04, 2024

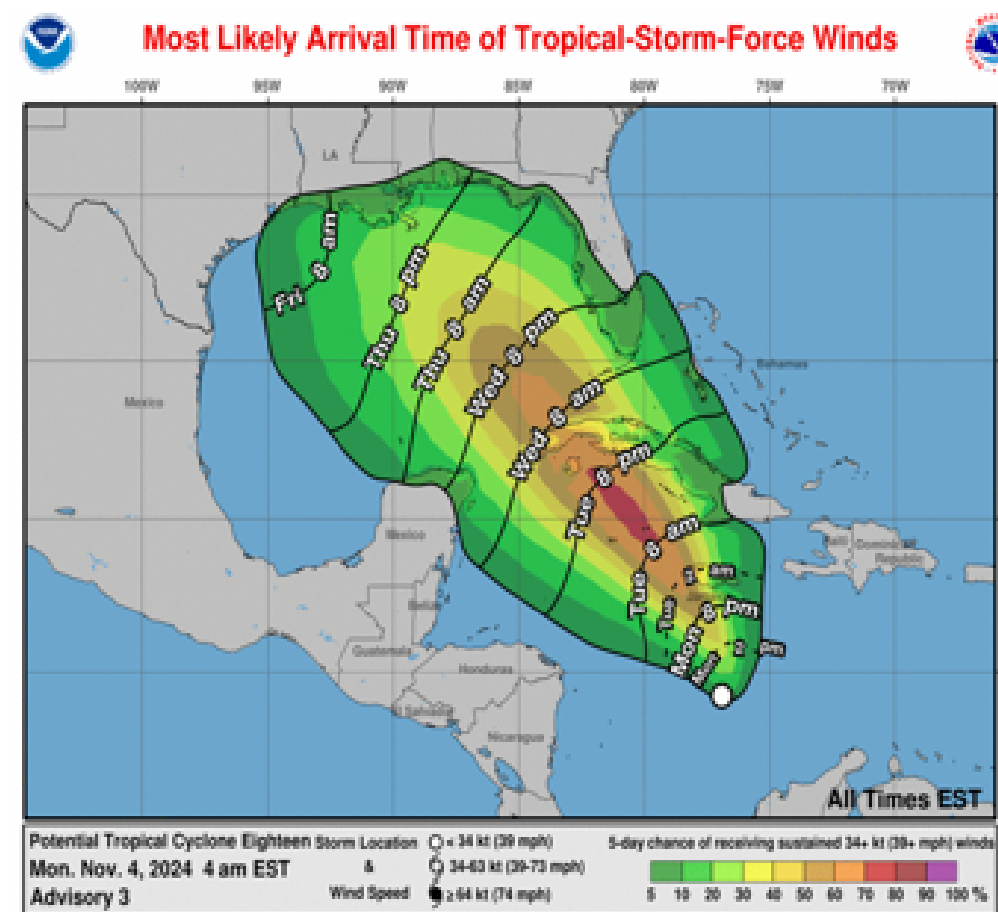
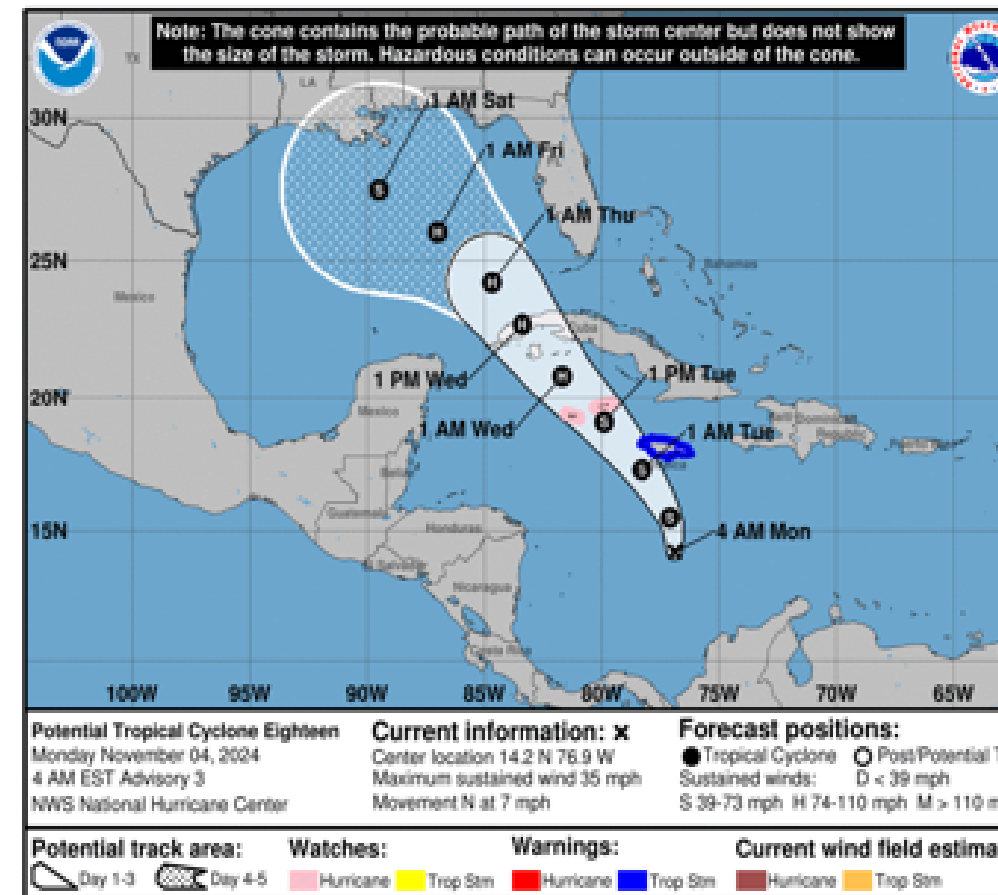


1. The disturbance is expected to become a tropical storm today and pass near Jamaica on tonight and Tuesday where a Tropical Storm Warning is in effect. The system is forecast to become a hurricane by Tuesday night and there is a risk of dangerous impacts from hurricane-force winds and storm surge in the Cayman Islands and portions of western Cuba.

2. Interests in Cuba and the Florida Keys should closely monitor this system as hurricane and tropical storm watches could be required for portions of these areas later today.

3. The system is forecast to enter the western Gulf of Mexico later this week, but given significant uncertainties in the long-range forecast track and intensity, it is too soon to determine what, if any, impacts could occur. Residents in this area should regularly monitor updates to the forecast.

4. The system will bring areas of heavy rain across portions of the Western Caribbean, including the island of Jamaica and portions of Cuba through mid-week. Flooding could occur over portions of Jamaica and Cuba, with mudslides possible. Heavy rainfall would then spread north into Florida and adjacent areas of the Southeast United States mid to late week.



For more information go to hurricanes.gov

- **Marine Key Messages:**
- Winds and waves will quickly ramp up in the Straits of Florida and SE Gulf on Wednesday afternoon
- Seas to peak near 30 ft on Thursday in eastern Gulf

IMPACTS FOR (D7)

Winds/US Coast – **Medium**

Winds/SRR – **High**

Waves/US Coastal – **Medium**

Waves/SRR – **High**

through next 5 days

US Storm Surge – **None**

US Rainfall/Flash Flooding – **Low**

US Tornadoes – **None**

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



POTENTIAL TROPICAL CYCLONE EIGHTEEN BRIEFING

This briefing was prepared by:

Nelsie Ramos

TIME of NEXT NHC Advisory:

15 UTC: / 10 AM EST // 9 AM CST

The Next Briefing Will Be:

Tuesday 9:00 AM EST

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



NHC_TAFB

www.nhc.noaa.gov