

**IMPACTS FOR D7**

**Winds/US Coast – Low**

**Winds/SRR – Low**

**Waves/US Coastal – Low**

**Waves/SRR – Low**

through next 5 days

**US Storm Surge – Unknown**

**US Rainfall/Flash Flooding – Low**

**US Tornadoes – Unknown**

# INVEST 97 BRIEFING

8:30 AM EST

Sunday, November 3, 2024

Prepared by:

**Amanda Reinhart**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*



NHC\_TAFB

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



- A broad area of low pressure is located over the southwestern Caribbean Sea
- Gradual development of this system is expected, and a tropical depression is likely to form within the next couple of days
- This system will move northward to northwestward over the central and western Caribbean Sea
- Regardless of development, locally heavy rains are possible over portions of the adjacent land areas of the western Caribbean, including Jamaica, Hispaniola, and Cuba
  - TS watches/warnings could be required later today for portions of these areas
- An Air Force Hurricane Hunter aircraft is scheduled to investigate this system later today



# Tropical Weather Outlook

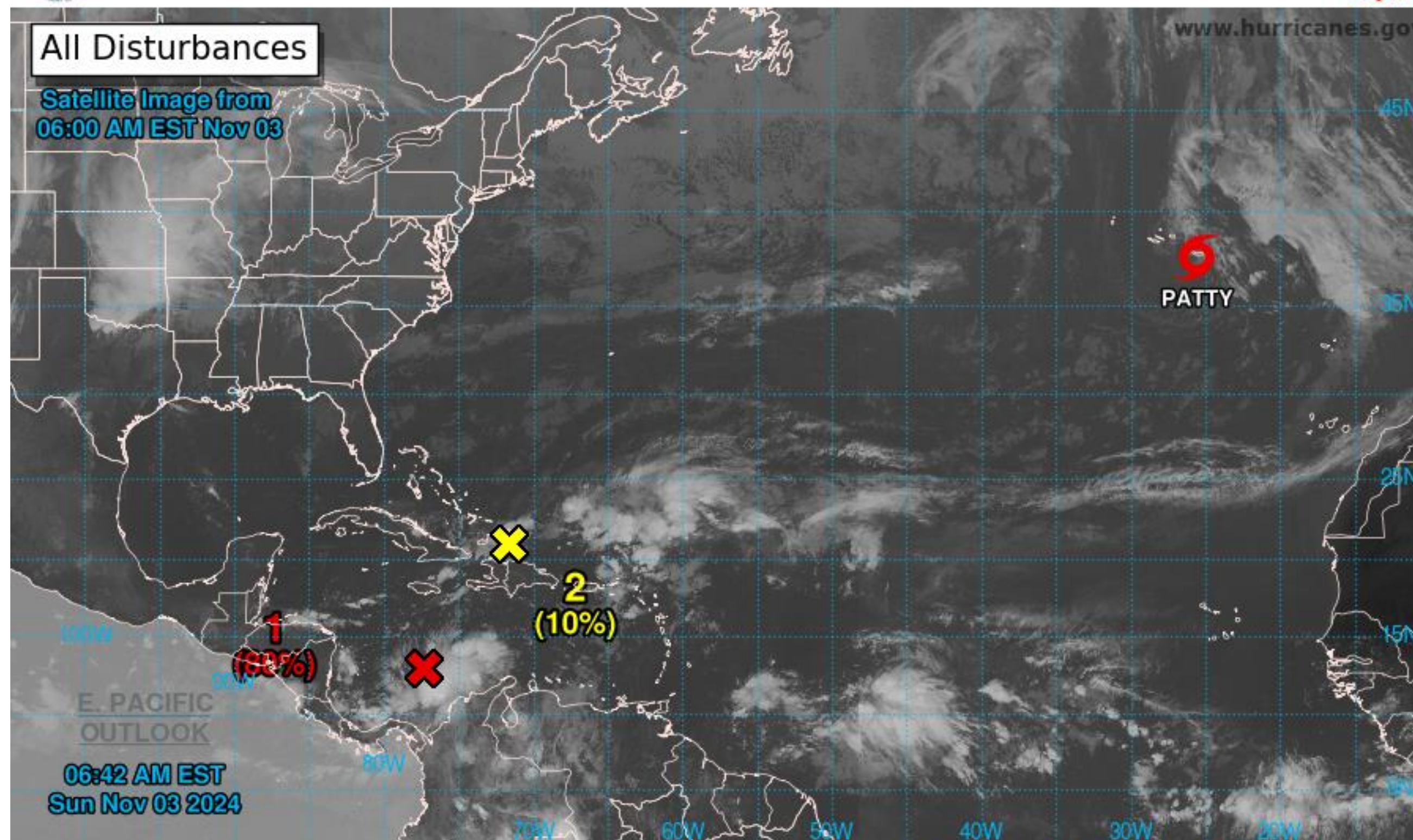
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## Two-Day Graphical Tropical Weather Outlook National Hurricane Center Miami, Florida



Current Disturbances and Two-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

### Southwestern Caribbean Sea (**AL97**) [red X]:

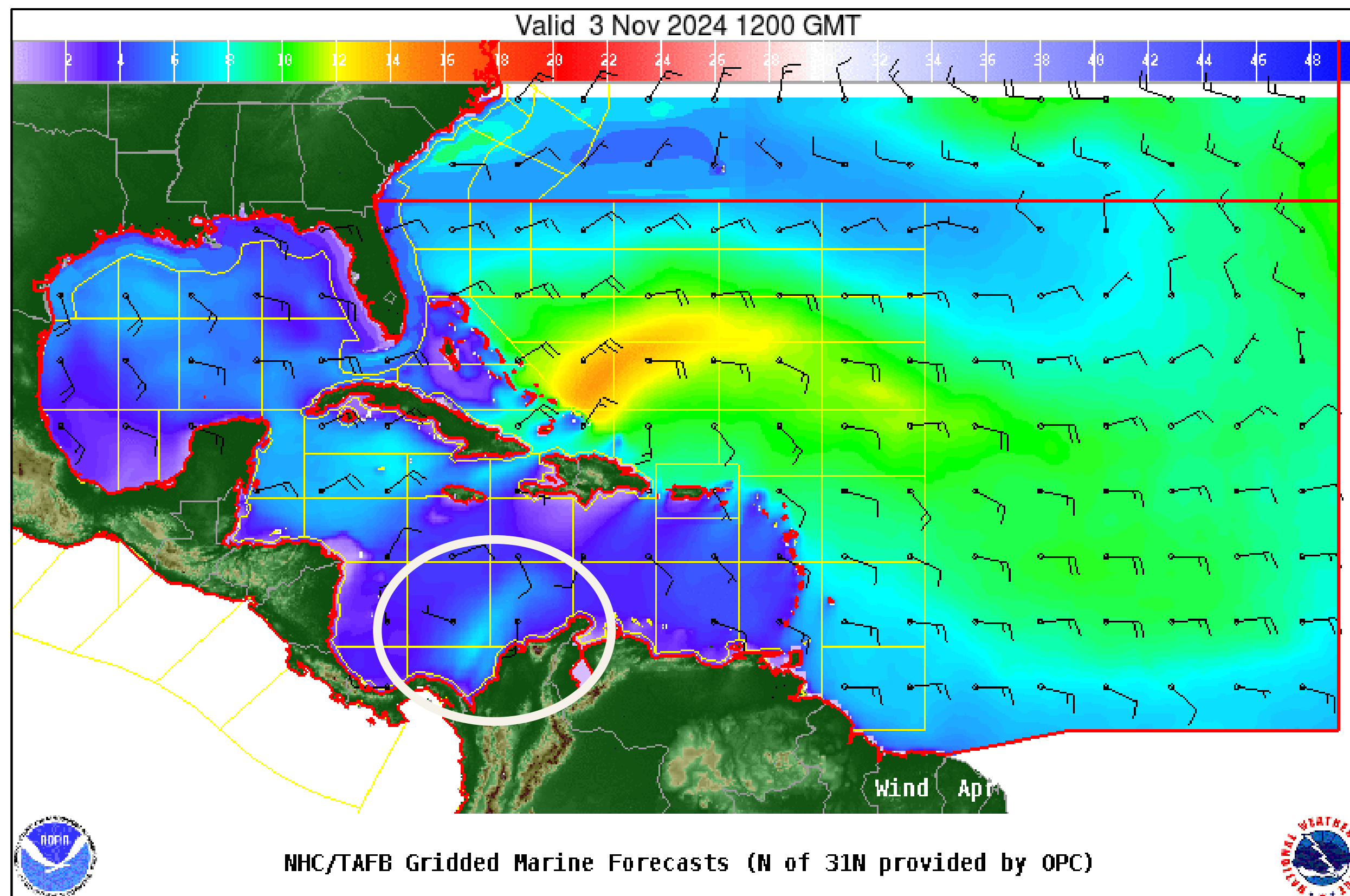
- This system has a **high** chance of developing in the next 48 hours
- **Reminder:** The hatched area represents a possible development area, not the system's path after development occurs.



# Wind And Waves



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## Current Conditions

**Sunday, November 3 at 8am EST**

Peak Winds: 25 kt

Peak Seas: 7 ft (north of Colombia)

- Wave heights are in feet

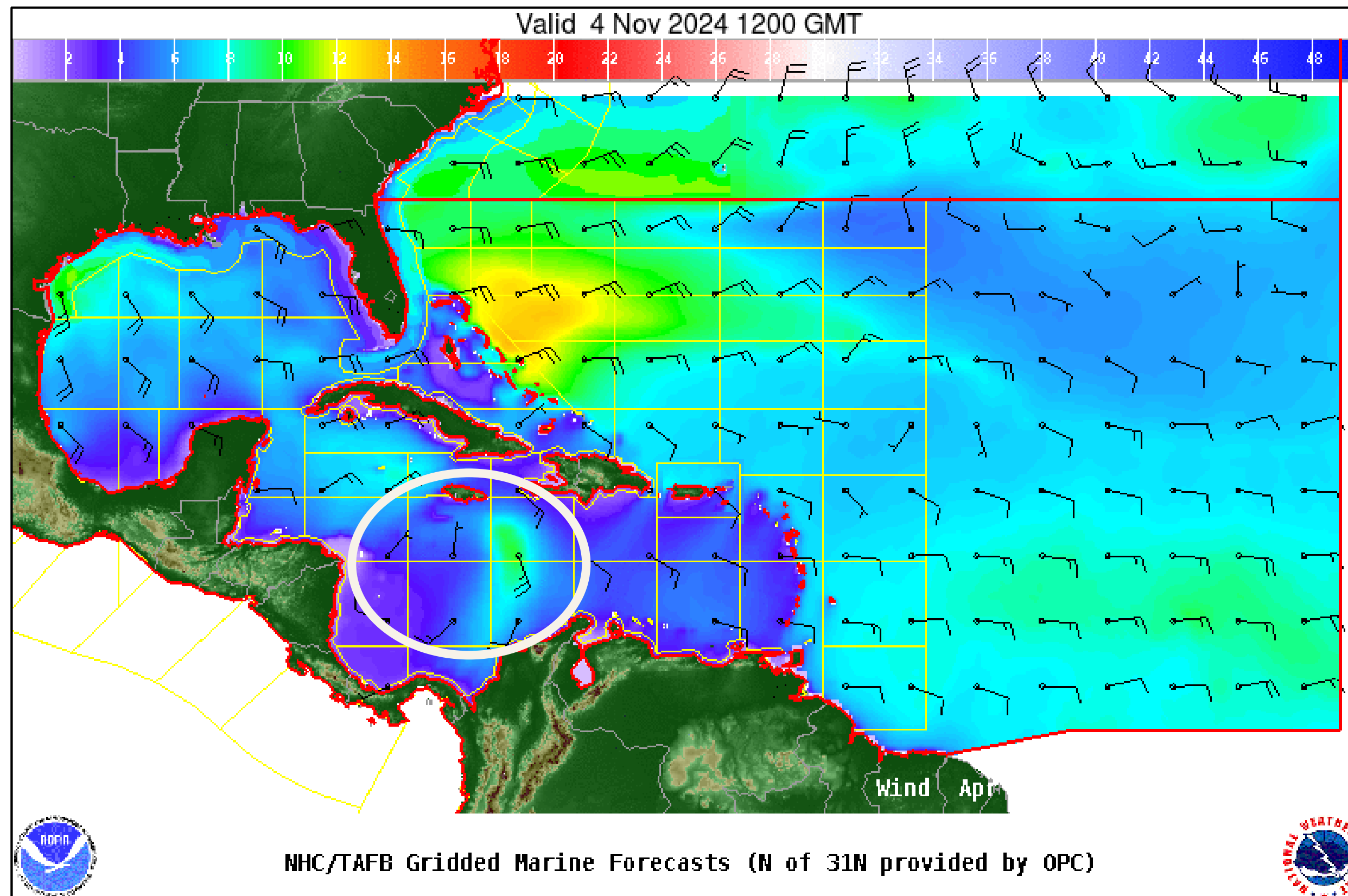


Significant Wave Height (ft)

# Wind And Waves



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## 24 Hour Forecast

**Monday, November 4 at 8am EST**

Peak Winds: 25-30 kt

Peak Seas: 10 ft (south of Jamaica/Haiti)

- Wave heights are in feet

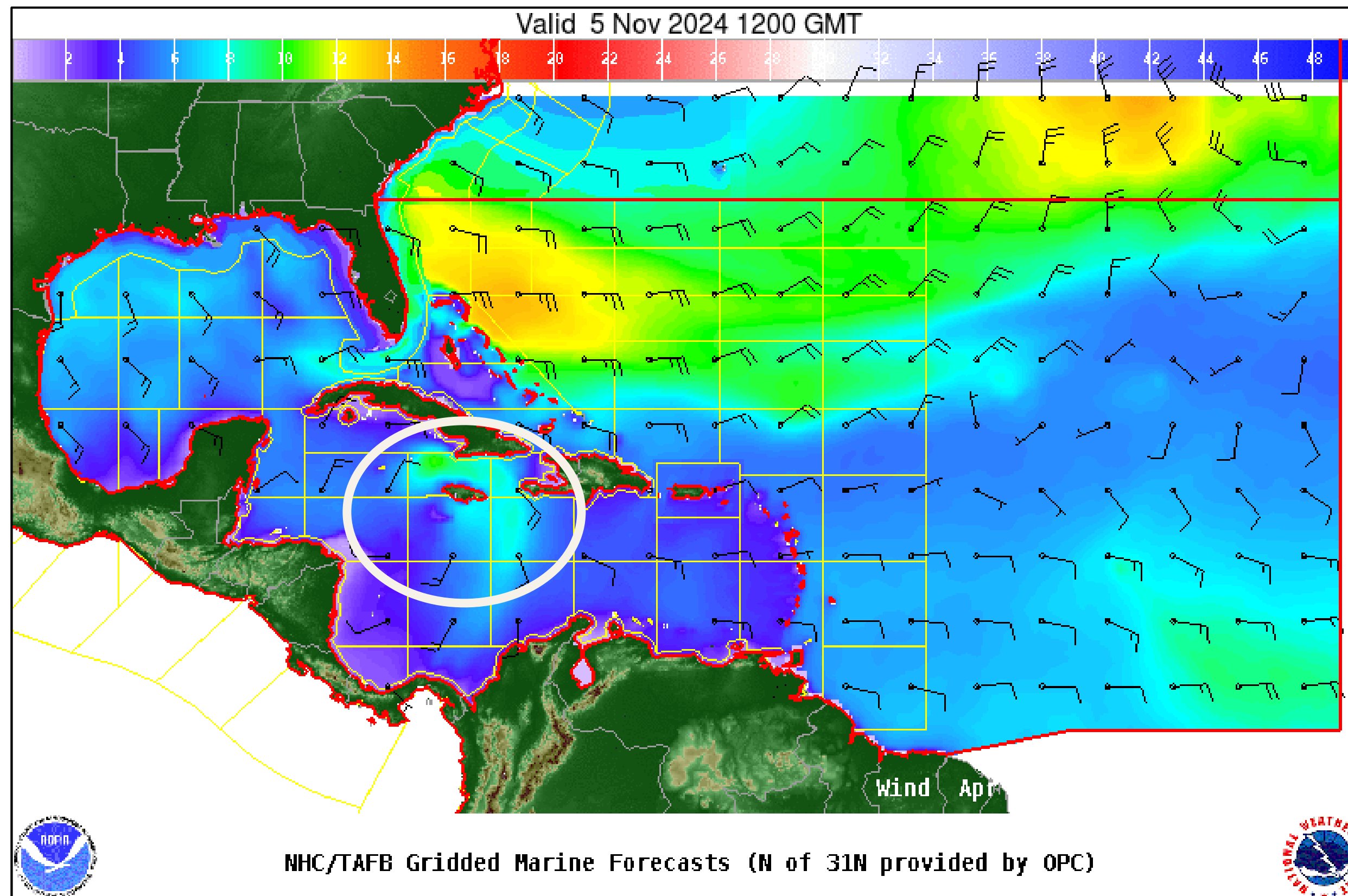


Significant Wave Height (ft)

# Wind And Waves



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48 Hour Forecast

Tuesday, November 5 at 8am EST

Peak Winds: 30+ kt

Peak Seas: 10 ft

- Wave heights are in feet

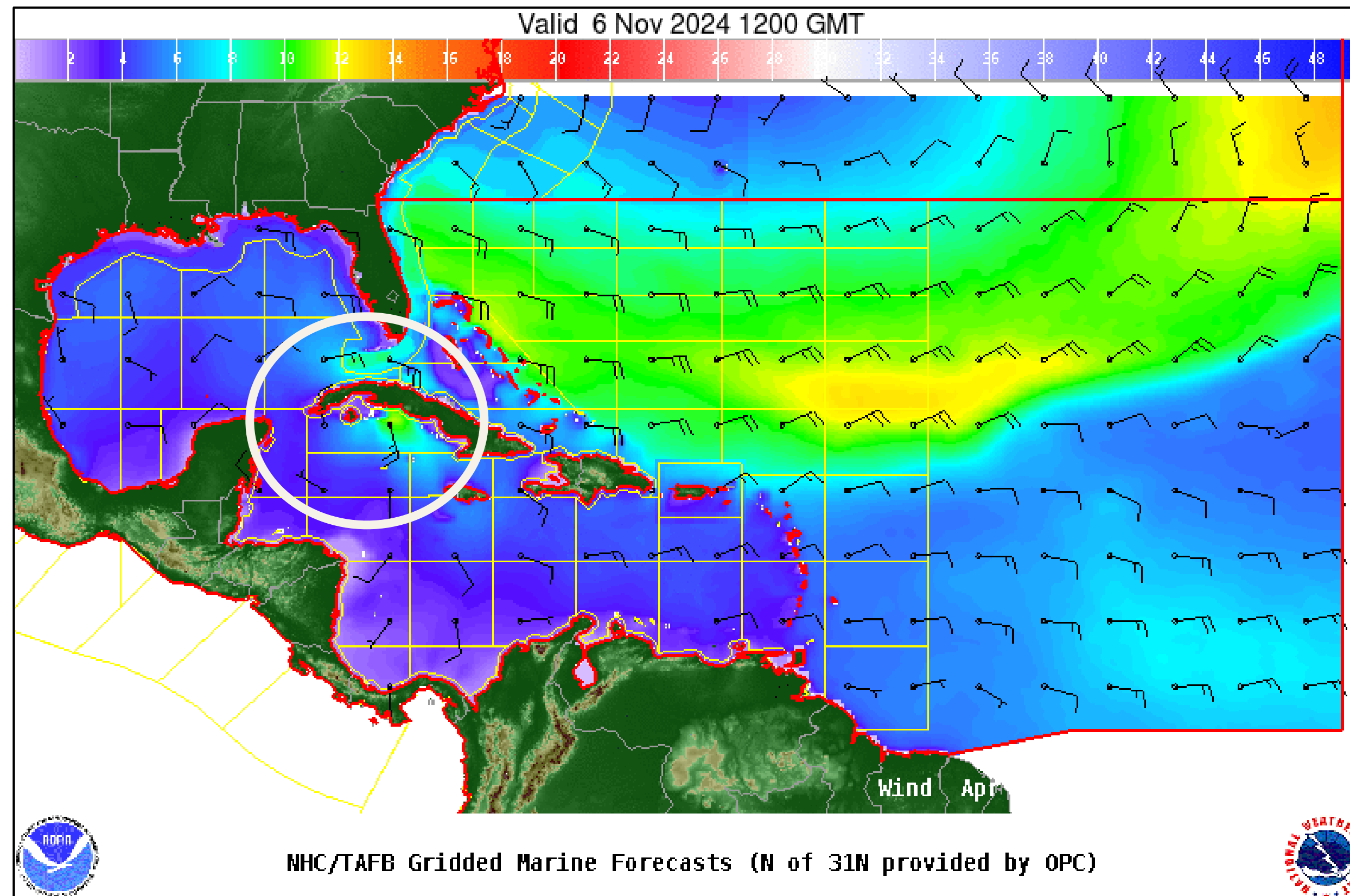


Significant Wave Height (ft)

# Wind And Waves



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## 72 Hour Forecast

**Wednesday, November 6 at 8am EST**

Peak Winds: 30+ kt

Peak Seas: 11 ft (south of central Cuba)

- Wave heights are in feet

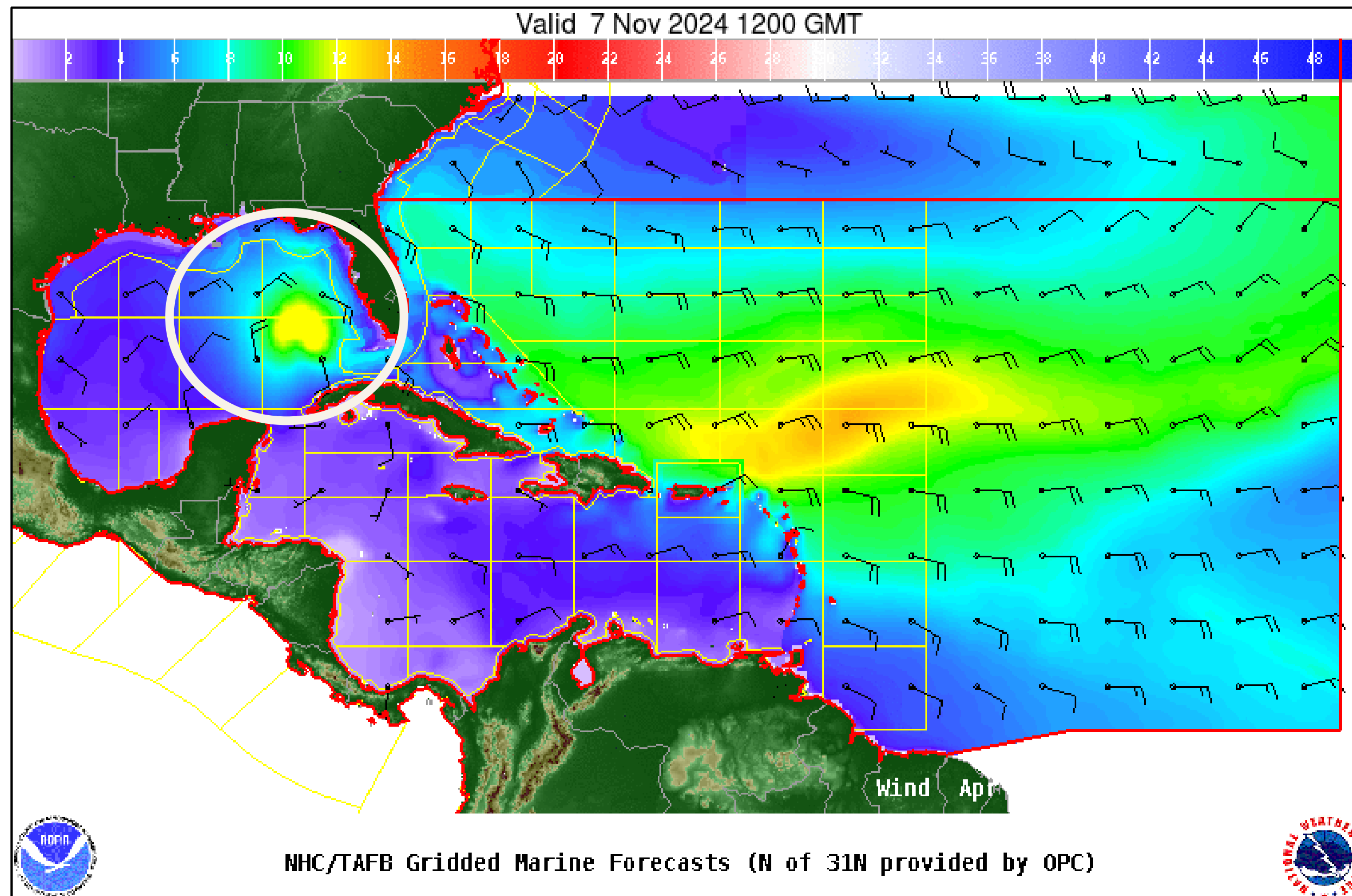


Significant Wave Height (ft)

# Wind And Waves



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96 Hour Forecast

Thursday, November 7 at 8am EST

Peak Winds: 30+ kt

Peak Seas: 12+ ft (eastern Gulf of Mexico)

- Wave heights are in feet



Significant Wave Height (ft)



# Expected Storm Total Rainfall and Chance of Rainfall Flooding

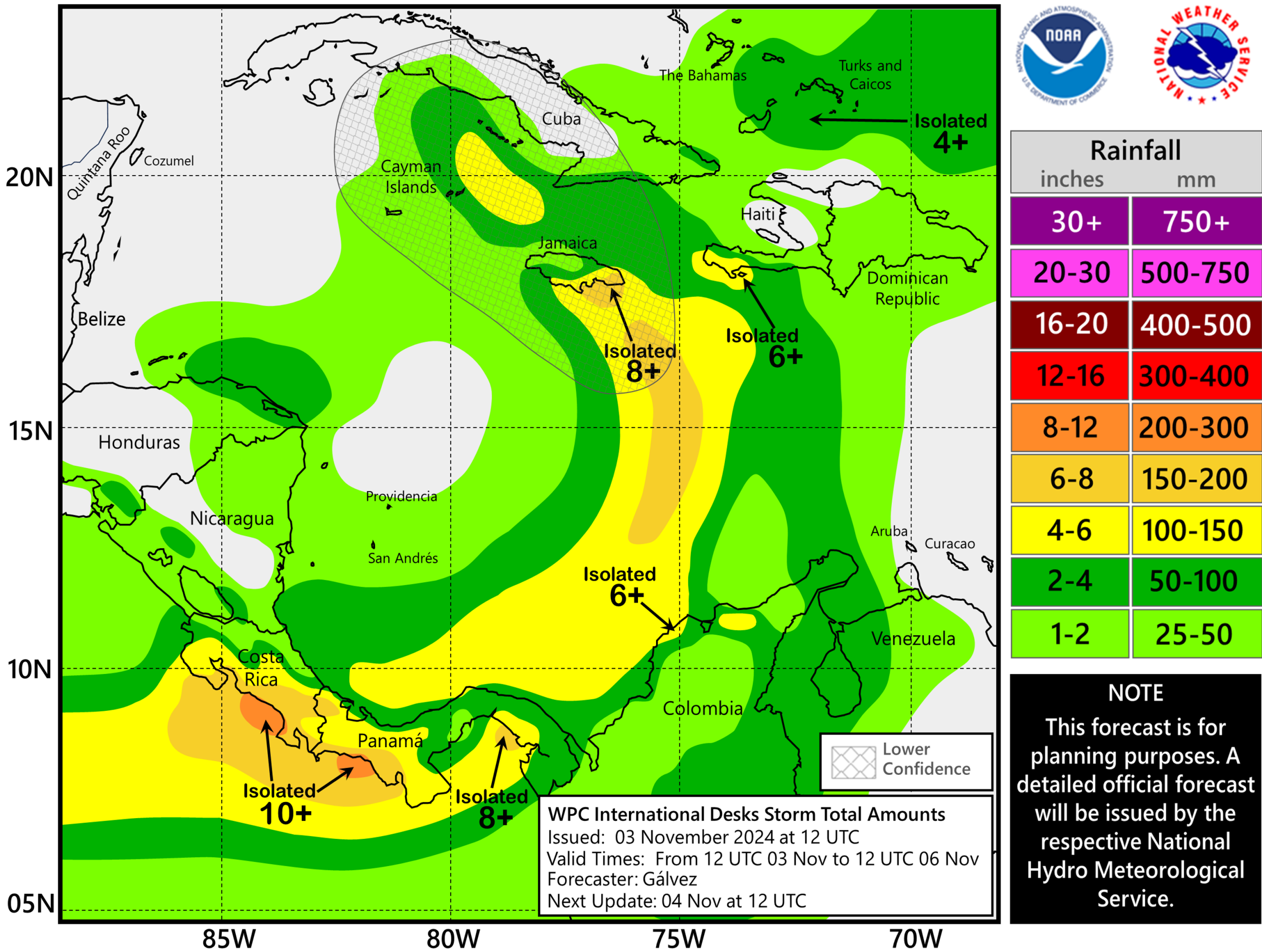


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Invest 97 – Caribbean Region

Images from NWS Weather Prediction Center

## 3-Day Forecast Rainfall with a Central American Gyre



- This is the 3 day rainfall total for the western Caribbean. At this time, Puerto Rico is not expected to be impacted.
- The heaviest rainfall is expected to fall in Jamaica (4-6 inches with isolated max of 8 inches) and western Haiti (isolated max of 6 inches)
- Jamaica and Haiti will receive heaviest rainfall this evening through Wednesday morning
- Southern Cuba will receive heaviest rainfall Monday evening through Wednesday morning

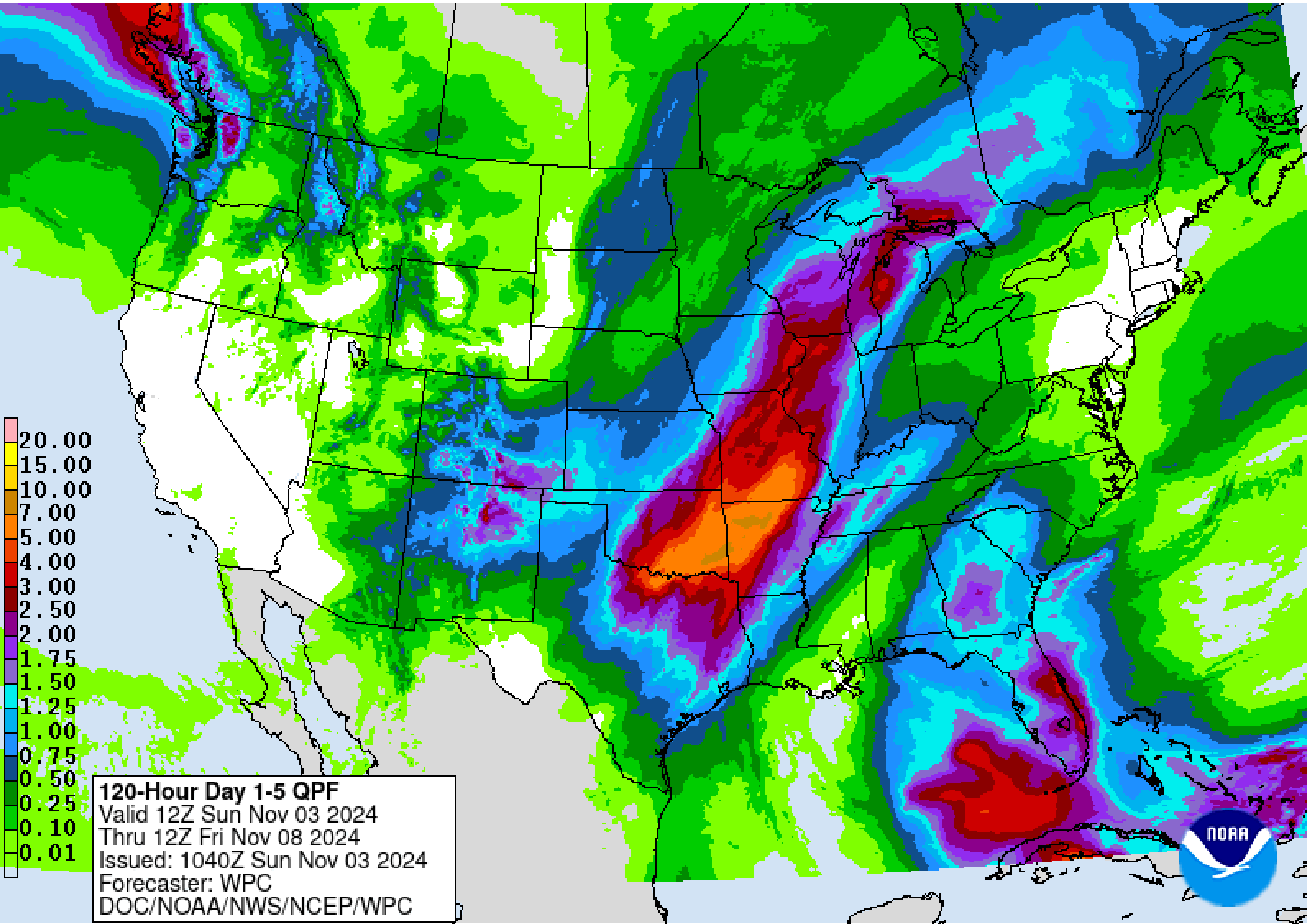
# Expected Storm Total Rainfall and Chance of Rainfall Flooding



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Images from NWS Weather Prediction Center



## Days 1-5 (Sunday - Fri morning) Total Rainfall Amounts

Details on exactly where heavy rainfall will fall in the southeastern US is still unclear as it depends where AL97 moves, but a *marginal* risk of heavy rainfall has been issued for most of Florida, Georgia, and South Carolina for Wed and Thurs.

## Day 4 - Wednesday



**Day 4 Excessive Rainfall Outlook**  
Valid 12Z Wed Nov 06 2024  
Thru 12Z Thu Nov 07 2024  
Issued: 0804Z Sun Nov 03 2024  
Forecaster: RAUSCH  
DOC/NOAA/NWS/NCEP/WPC

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

## Day 5 - Thursday



**Day 5 Excessive Rainfall Outlook**  
Valid 12Z Thu Nov 07 2024  
Thru 12Z Fri Nov 08 2024  
Issued: 0804Z Sun Nov 03 2024  
Forecaster: RAUSCH  
DOC/NOAA/NWS/NCEP/WPC

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



# Key Messages

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## **through next 5 days**

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**US Rainfall/Flash Flooding – Low**

**US Tornadoes – Unknown**

## **Marine Key Messages:**

- The system is currently located in the southwestern Caribbean with 25 kt winds and 7 ft seas
- Winds and seas are expected to increase over the southern Gulf of Mexico Wednesday morning and continue into Thursday
- There is still uncertainty exactly where this system will track and the hazards it will bring to the U.S.

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



This briefing was prepared by:  
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# INVEST 97 BRIEFING

*The Next Briefing Will Be:  
Monday, 8:30 AM EST*

*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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