

IMPACTS FOR D7 (through next 5 days)

Winds – High to Extreme

Storm Surge – High to Extreme

Rainfall/Flash Flooding – High

Tornadoes – Low to Medium

Waves - High

TROPICAL STORM IAN BRIEFING



9:00 AM EDT
Saturday, September 24, 2022

Prepared by:

Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

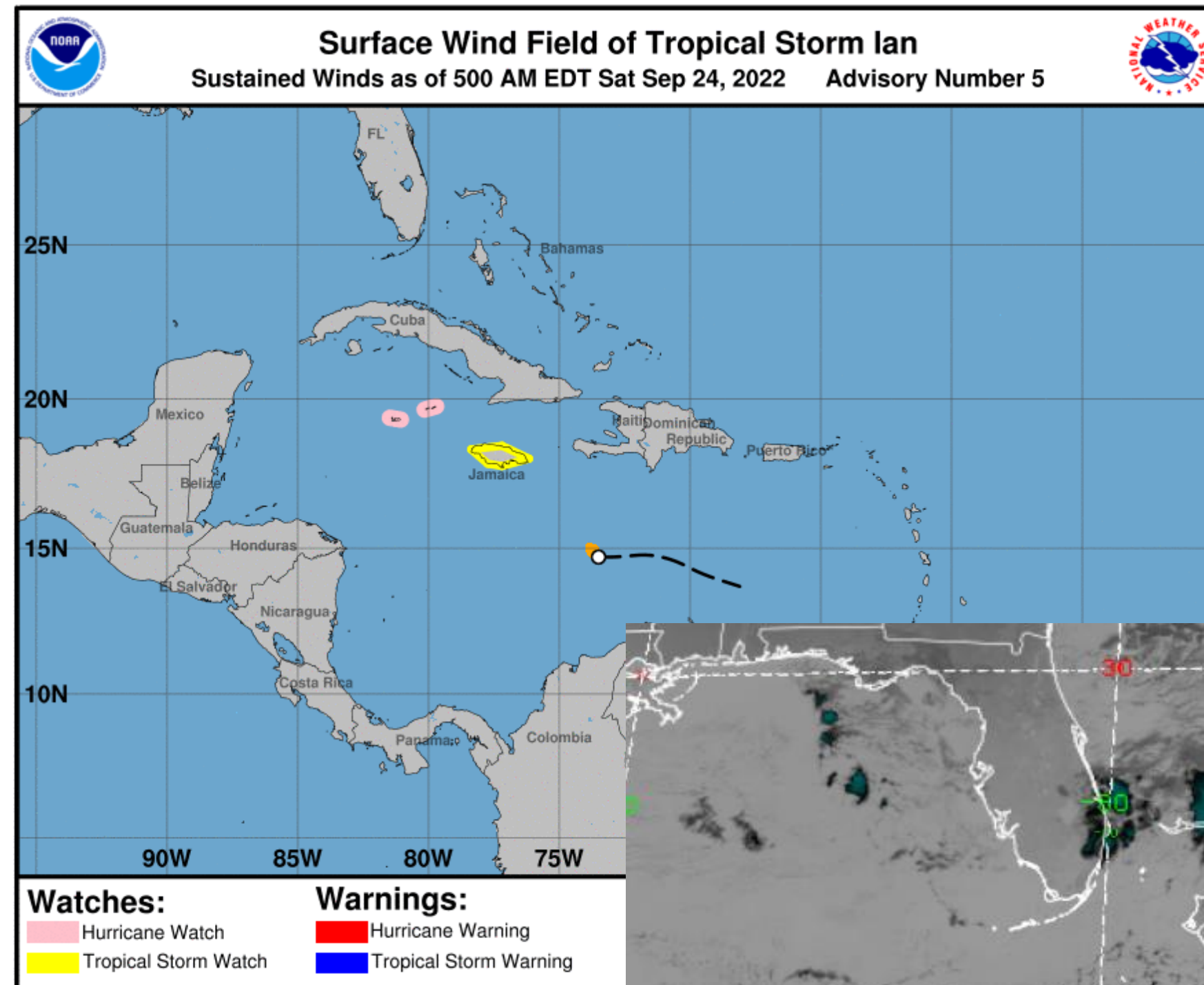
www.nhc.noaa.gov

Situation Overview

Tropical Storm Ian



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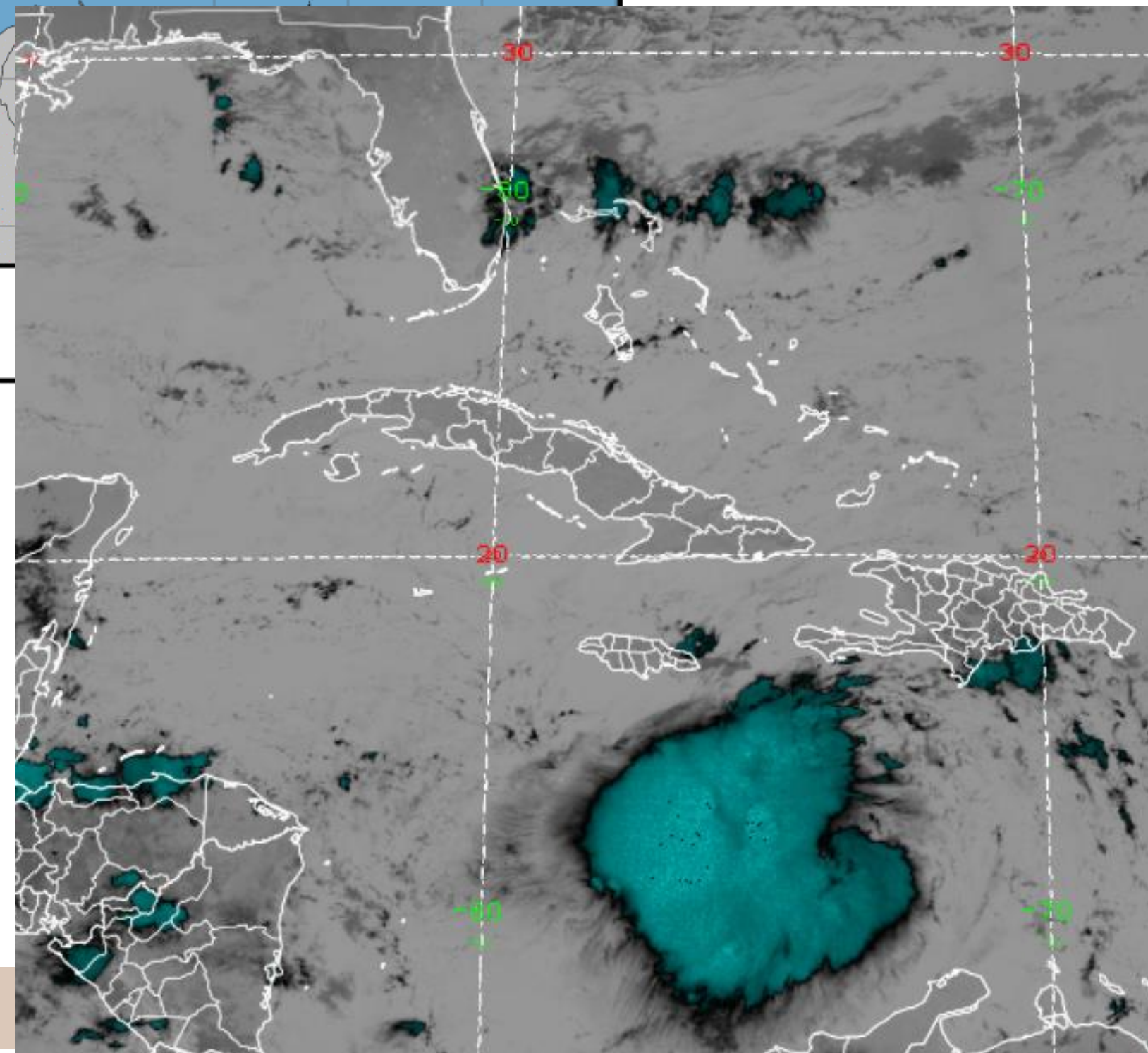


**...IAN EXPECTED TO STRENGTHEN
OVER THE CENTRAL CARIBBEAN...
...HURRICANE CONDITIONS POSSIBLE
IN THE CAYMAN ISLANDS EARLY
MONDAY...**

SUMMARY OF 800 AM EDT INFORMATION

LOCATION...14.2N 74.5W
ABOUT 255 NM SSE OF KINGSTON JAMAICA
MAXIMUM SUSTAINED WINDS...40 KT
PRESENT MOVEMENT...WSW AT 13 KT
PEAK SEAS 10 FT

SIZE
34 KT..... 0NE 0SE 0SW 40NW.

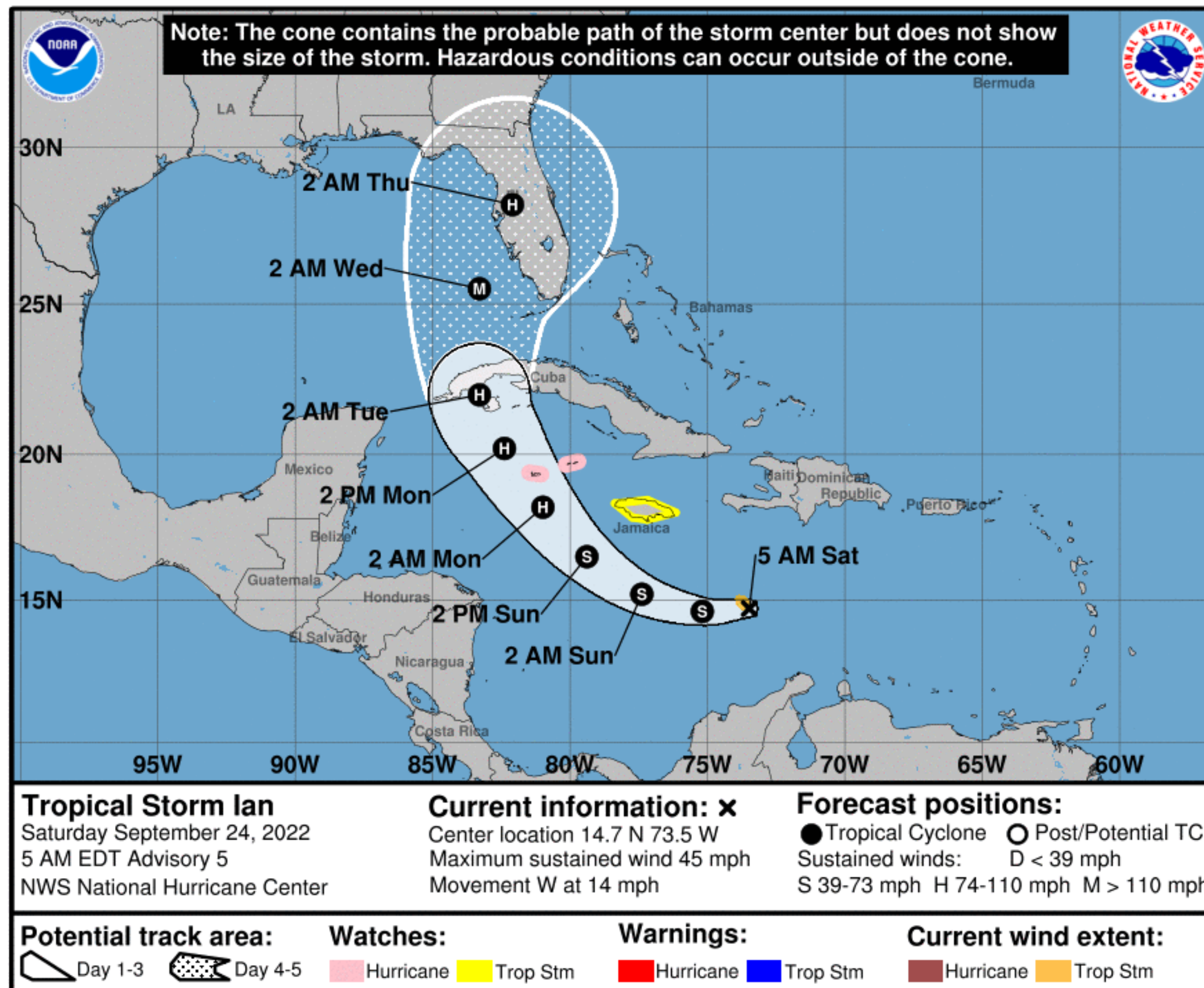


Forecast Information

Tropical Storm Ian



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

- **Ian is expected to turn toward the north by Monday or Tuesday with about the same rate of forward speed**
- **The tropical storm is forecast to become a hurricane in about two days, and a major hurricane around Wednesday**
- **Likely impact by the system as a hurricane or major hurricane somewhere along the west coast of Florida between Tuesday night and Thursday morning**
- 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 Storm Ian



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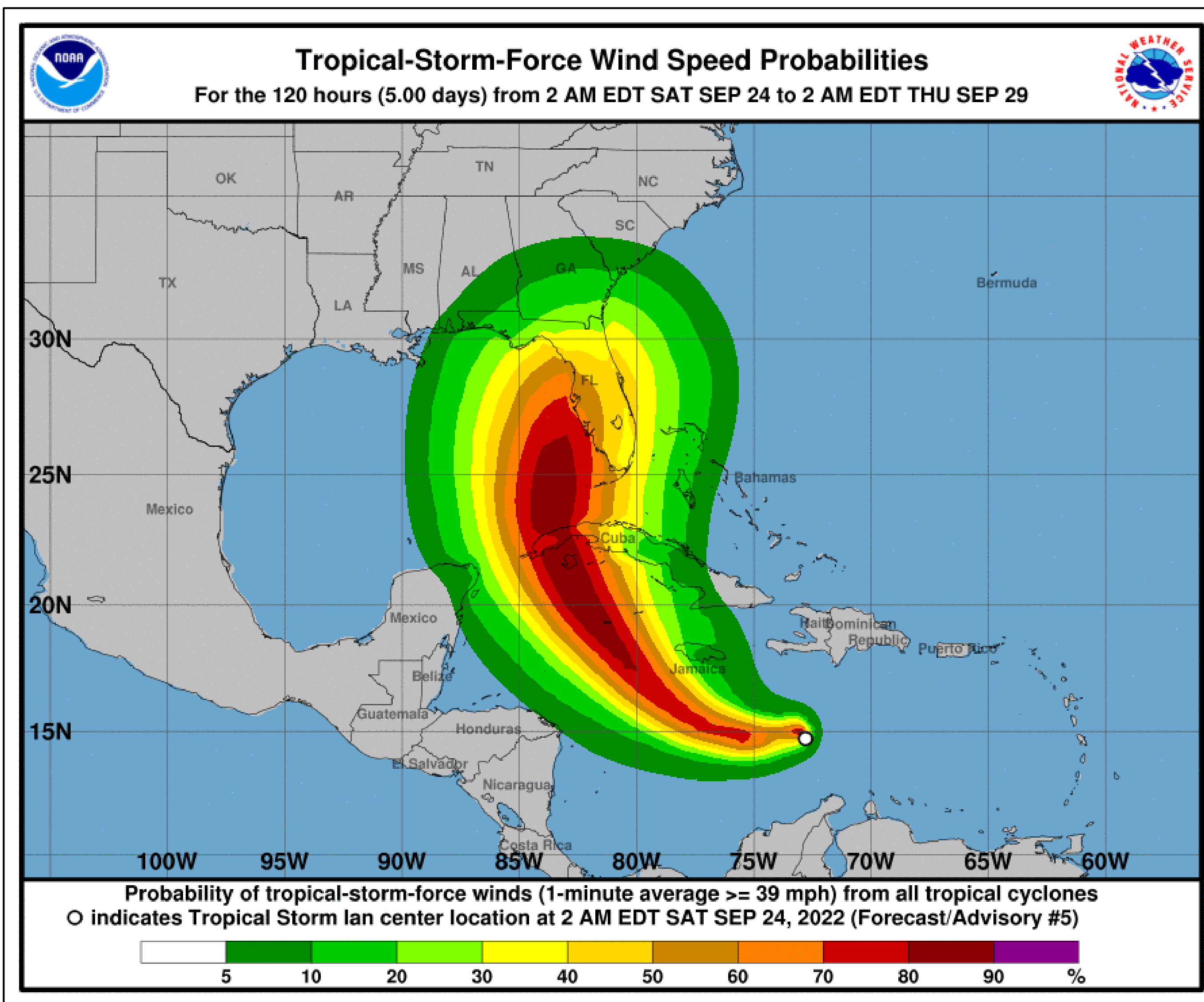
<https://nowcoast.noaa.gov/>

T.S. Wind Speed Probabilities

Tropical Storm Ian



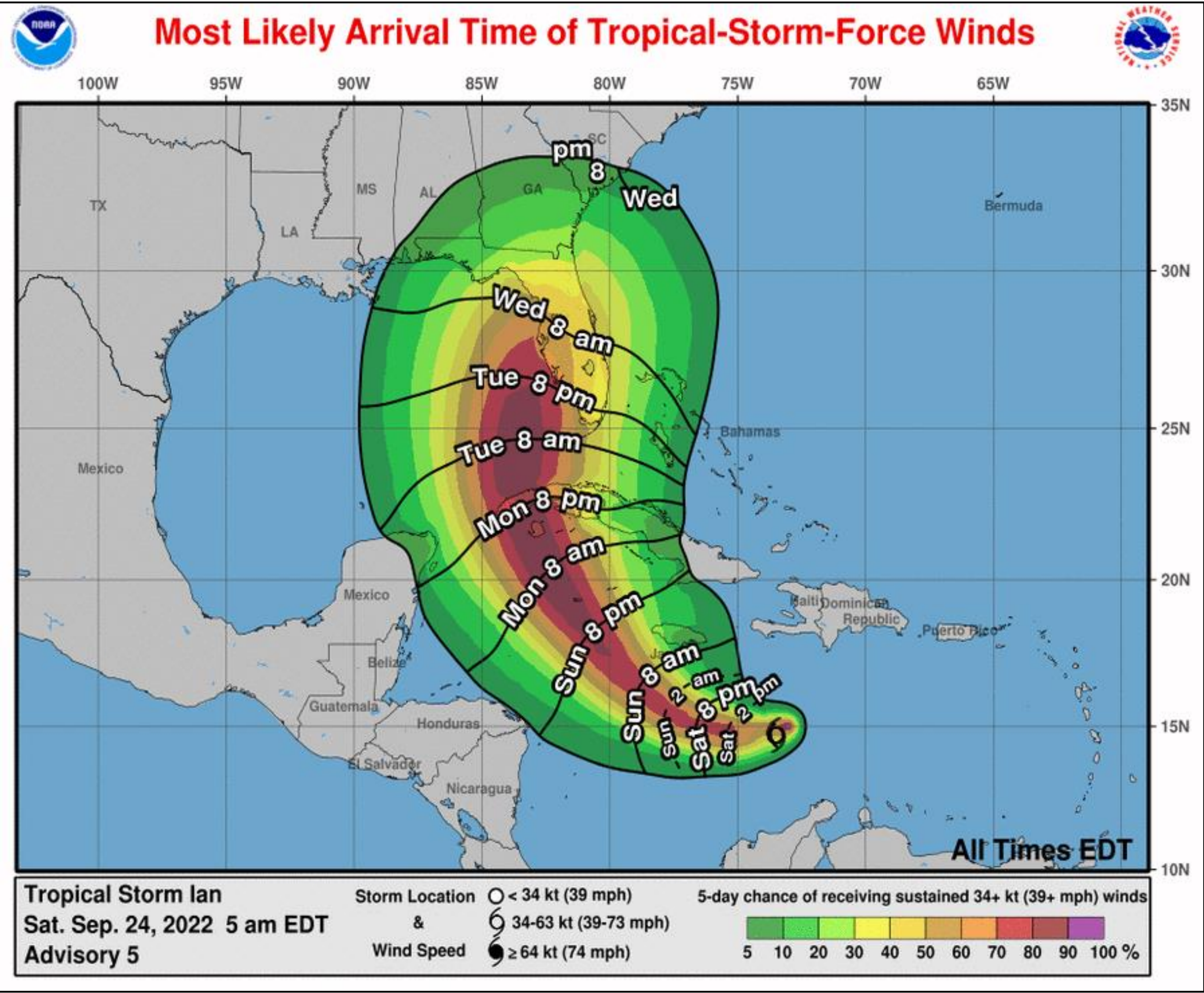
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- **Destin – 10%**
 - **Panama City – 20%**
 - **Apalachicola – 30%**
 - **St. Marks – 25%**
 - **Cedar Key – 55%**
 - **Tampa – 65%**
 - **Venice – 70%**
 - **Ft. Myers – 55%**
 - **Naples – 70%**
 - **Key West – 70%**
 - **Marathon – 55%**
 - **Homestead – 35%**
 - **Miami – 35%**
 - **Ft. Lauderdale – 45%**
 - **West Palm Beach – 45%**
 - **Ft. Pierce – 45%**
 - **Patrick AFB – 50%**
 - **Cocoa Beach – 50%**
 - **Daytona Beach – 45%**
 - **Jacksonville – 30%**
 - **Mayport – 40%**
 - **Kings Bay – 35%**
 - **Savannah – 20%**
 - **Beaufort – 20%**
 - **Charleston – 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.



Tropical Storm Ian



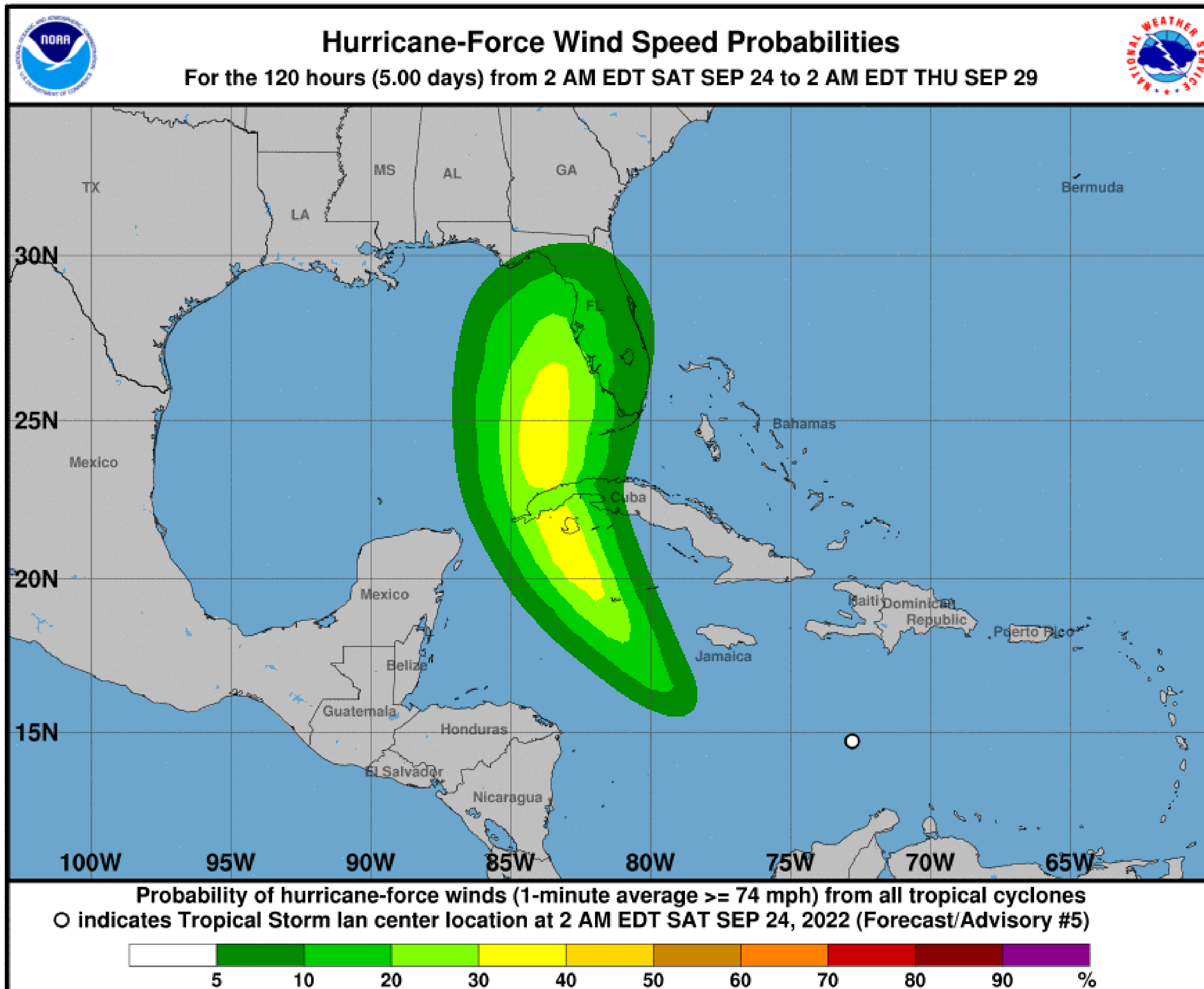
- **Florida Keys – Tuesday Morning**
- **Ft. Myers to Miami Metro – Tuesday Night**
- **Tampa to Cape Canaveral – Wednesday Morning**
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are 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.

Hurricane Wind Speed Probabilities

Tropical Storm Ian



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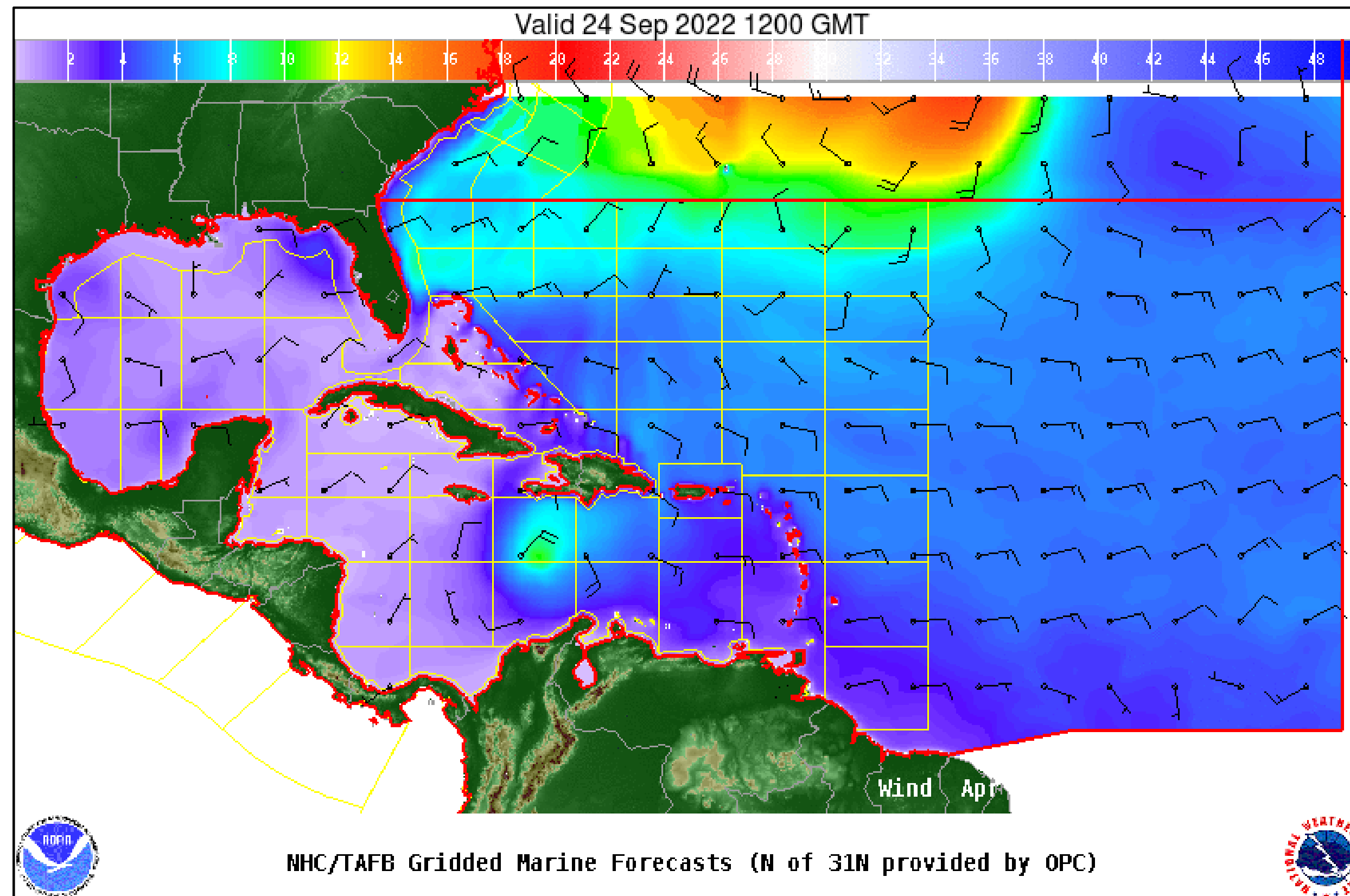
- **Apalachicola – 5%**
 - **Cedar Key – 15%**
 - **Tampa – 15%**
 - **Venice – 20%**
 - **Ft. Myers – 10%**
 - **Naples – 15%**
 - **Key West – 20%**
 - **Marathon – 10%**
 - **Ft. Lauderdale – 5%**
 - **West Palm Beach – 5%**
 - **Ft. Pierce – 5%**
 - **Patrick AFB – 10%**
 - **Cocoa Beach – 10%**
 - **Daytona Beach – 5%**
 - **Jacksonville – 5%**
 - **Mayport – 5%**
 - **Kings Bay – 5%**
- 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.

Wind And Waves

Tropical Storm Ian



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Current Conditions

8am EDT, Saturday, September 24th

Peak Winds: 40 kt

Peak Seas: 10 ft

- Wave heights are in feet



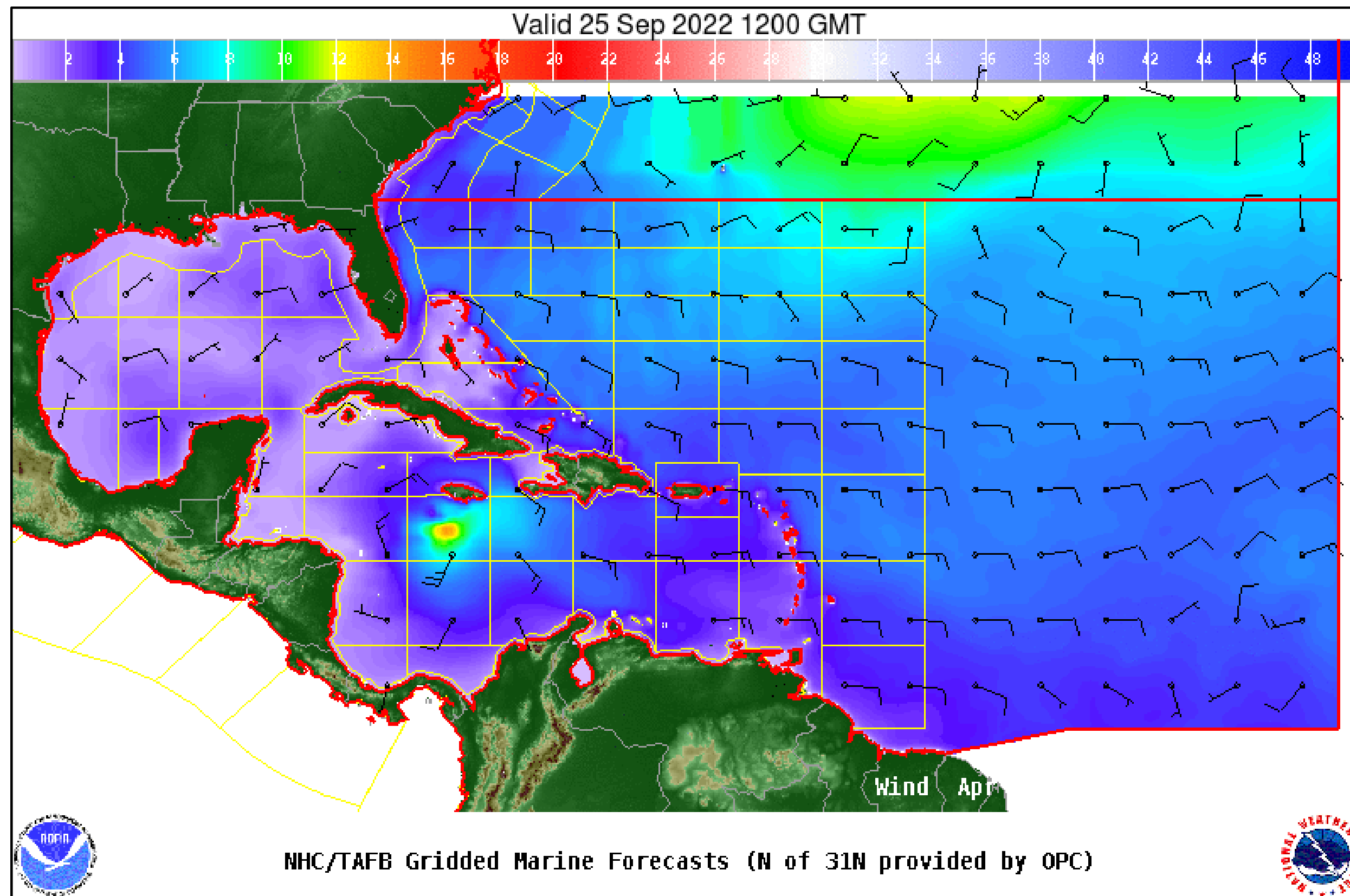
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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24 Hour Forecast

8am EDT, Sunday, September 25th

Peak Winds: 50 kt

Peak Seas: 15 ft

- Wave heights are in feet



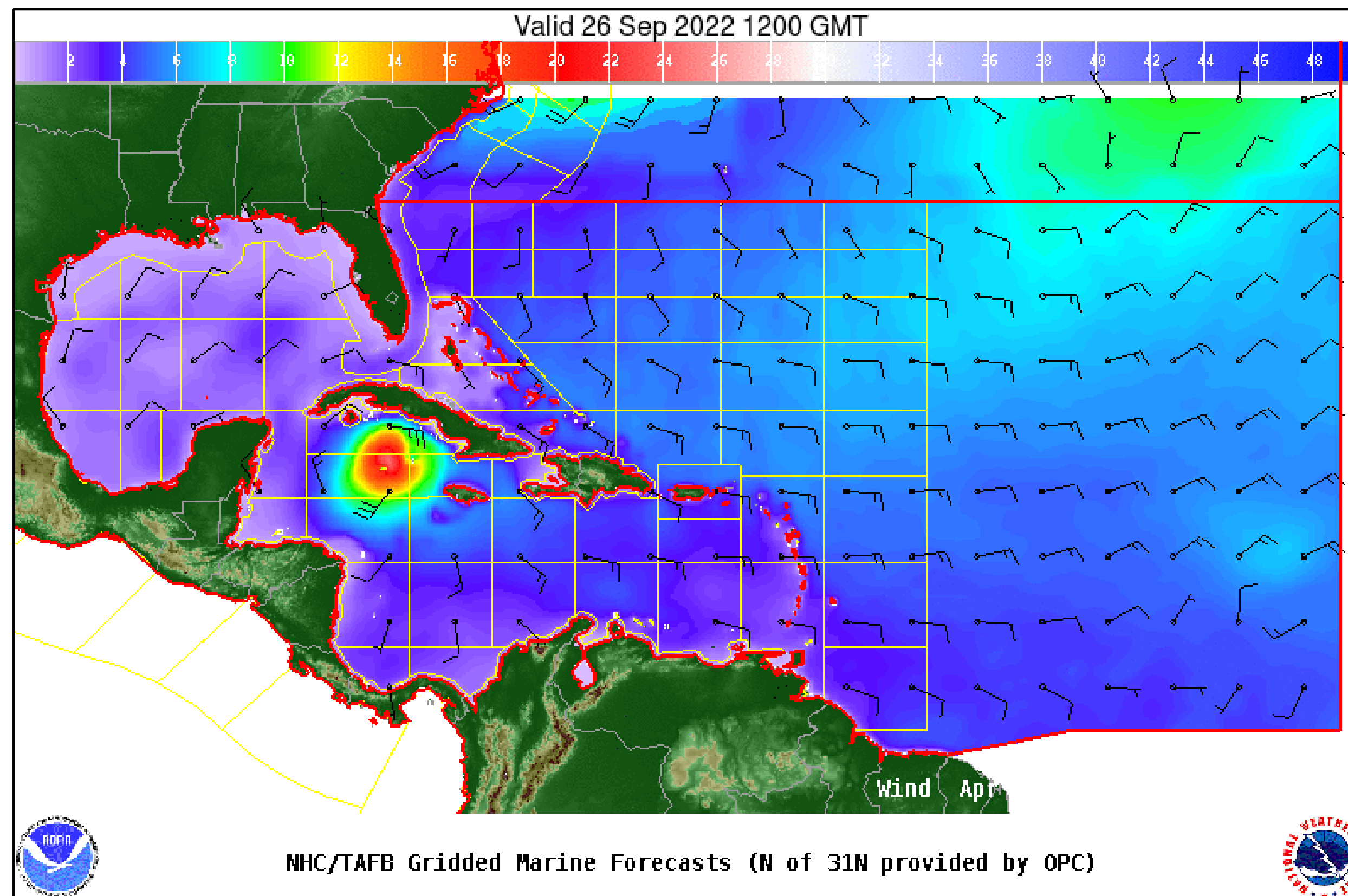
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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48 Hour Forecast

8am EDT, Monday, September 26th

Peak Winds: 70 kt

Peak Seas: 20 ft

- Wave heights are in feet



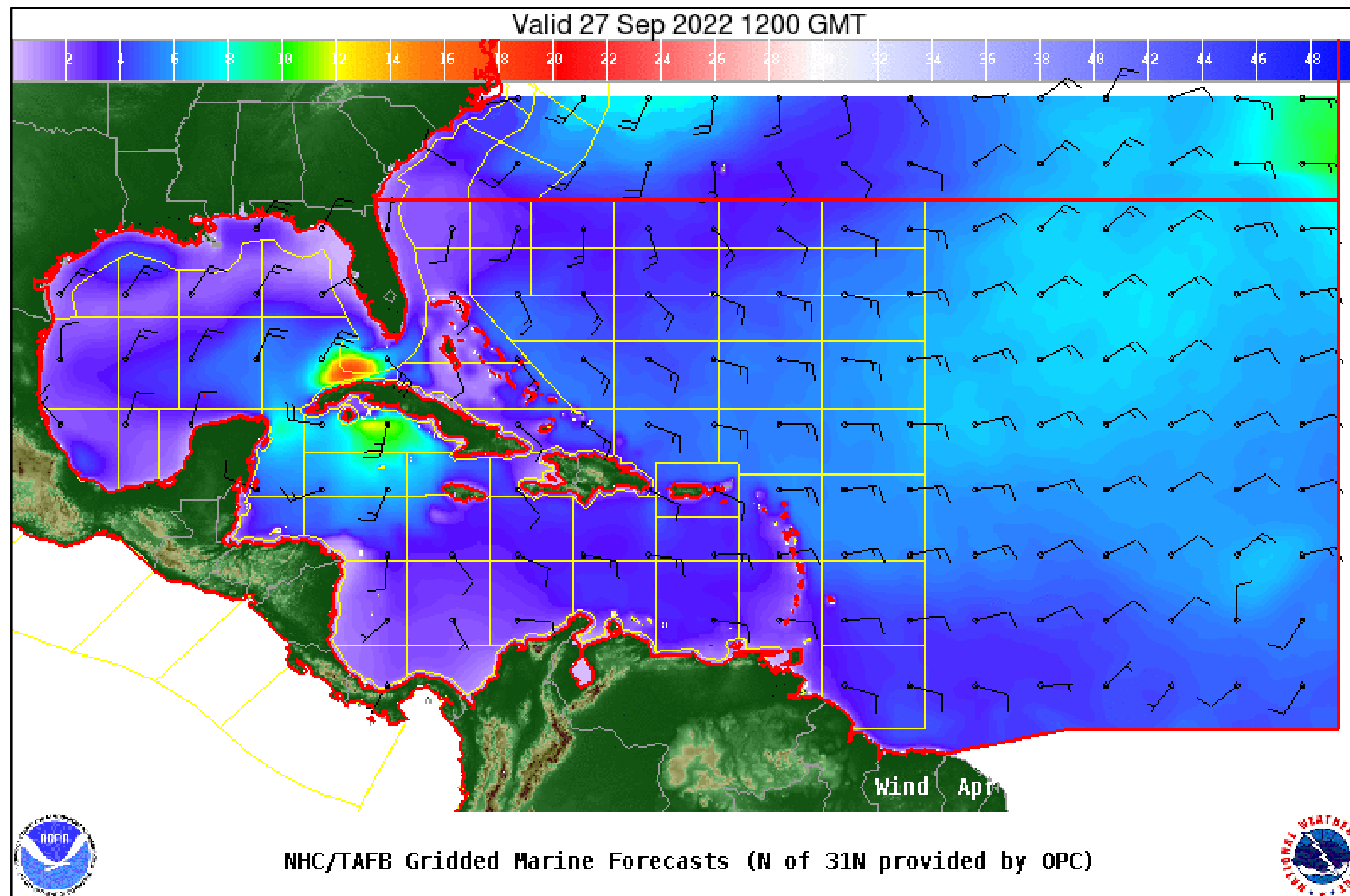
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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72 Hour Forecast

8am EDT, Tuesday, September 27

Peak Winds: 95 kt

Peak Seas: 20 ft

- Wave heights are in feet



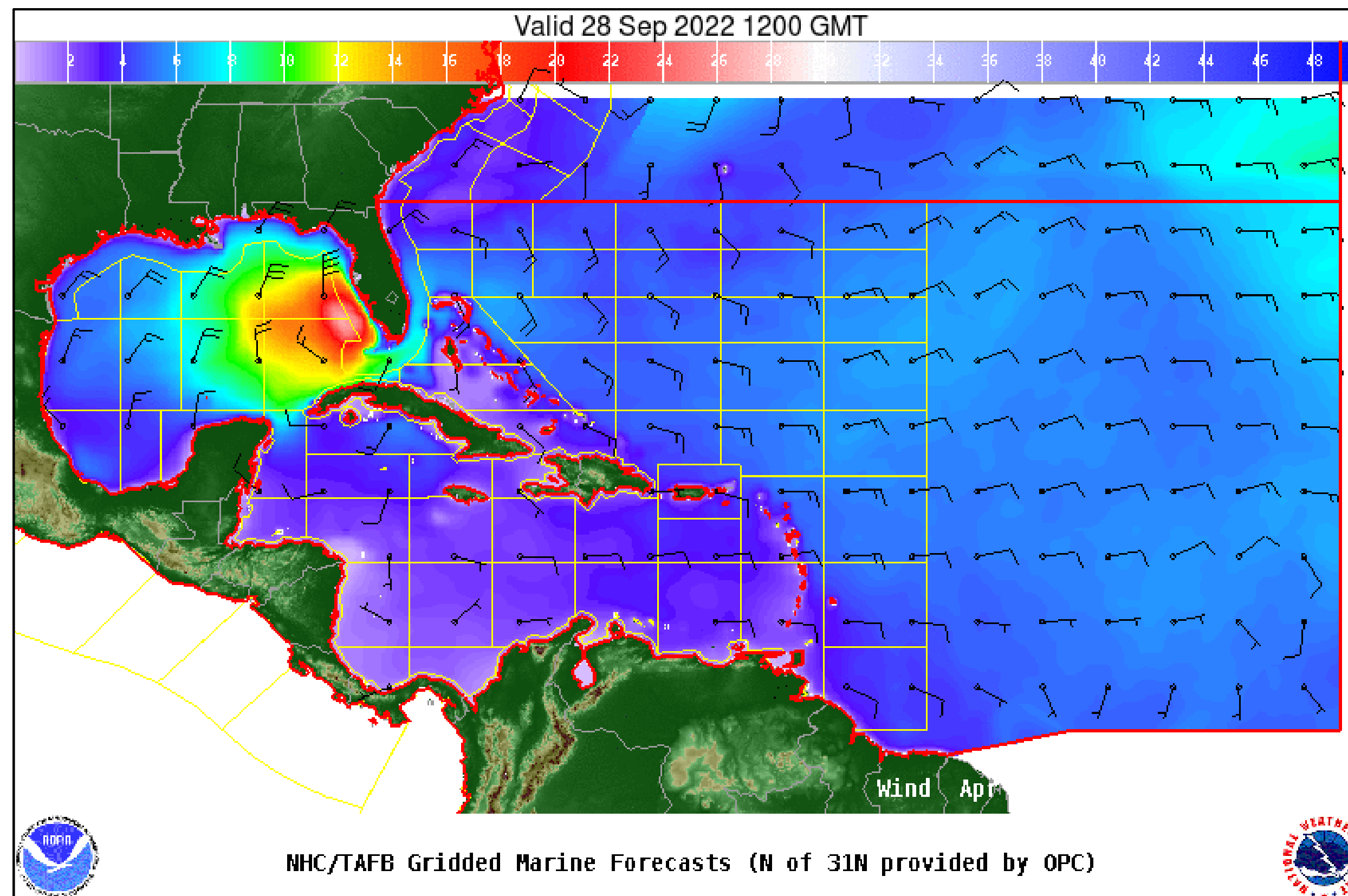
Significant Wave Height (ft)

Wind And Waves

Tropical Storm Ian



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96 Hour Forecast

8am EDT Wednesday September 28

Peak Winds: 100 kt

Peak Seas: 30 ft

- Wave heights are in feet



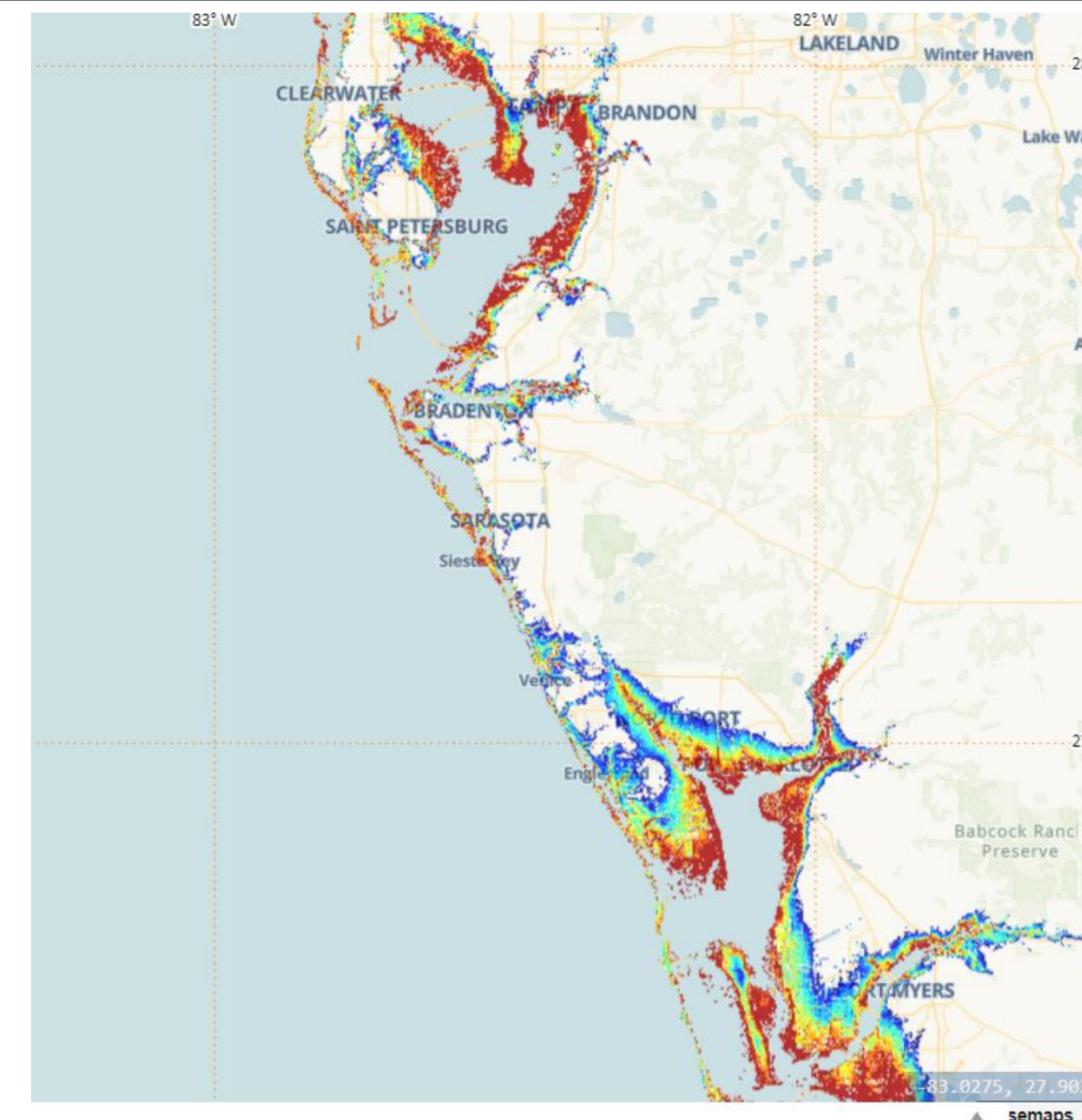
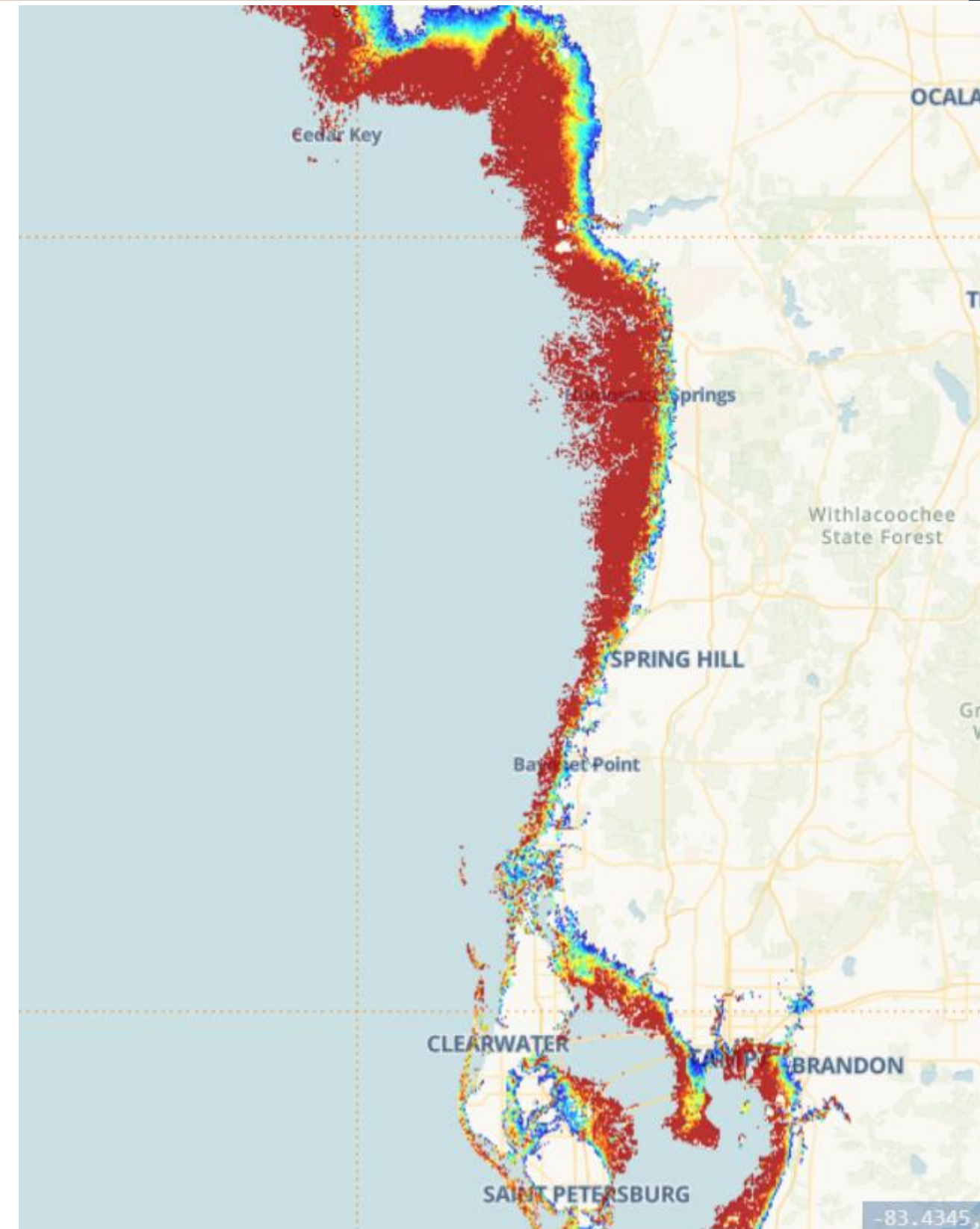
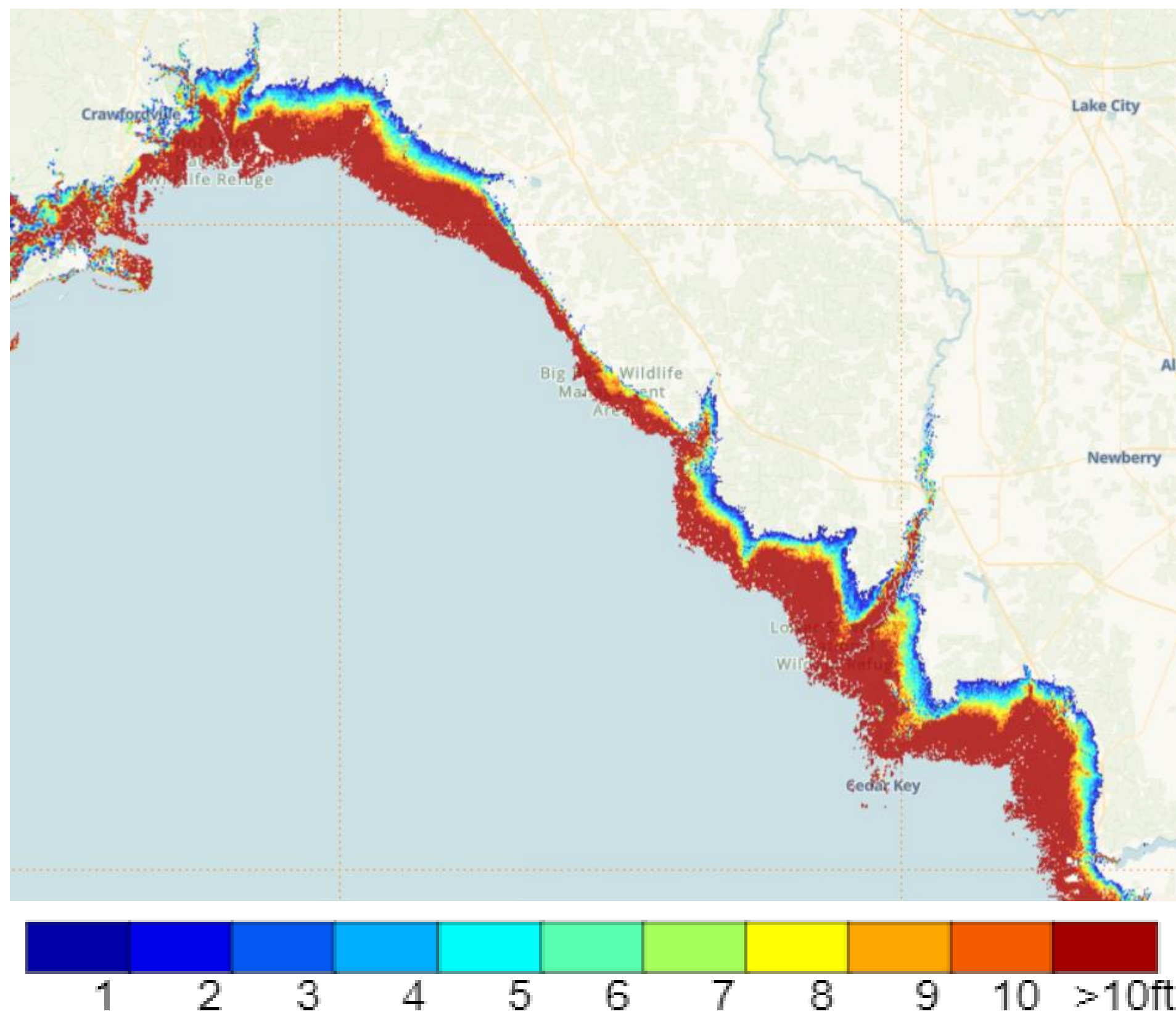
Significant Wave Height (ft)

Potential Storm Surge

Tropical Storm Ian



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SLOSH MEOW (Maximum Envelope of Water) for a Category 3 moving NE and ENE at 10 mph at high tide – Above Ground Level

- This is **NOT** an expected flooding footprint
- This is worst case everywhere assuming a **Category 3 landfall**
- Potential storm surge is represented in feet above the ground at any given point.

Expected Storm Total Rainfall

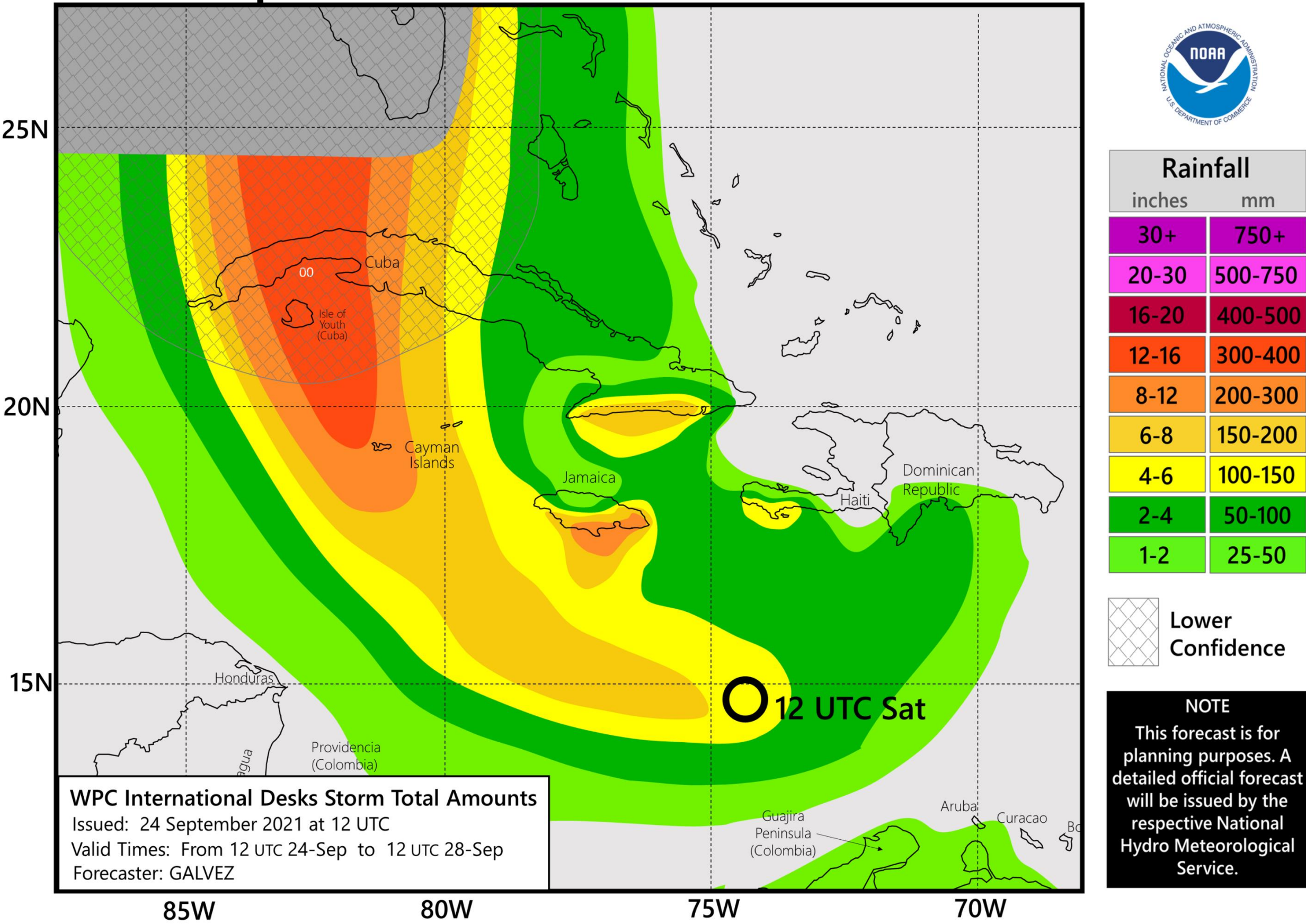
Tropical Storm Ian

Images from NWS Weather Prediction Center

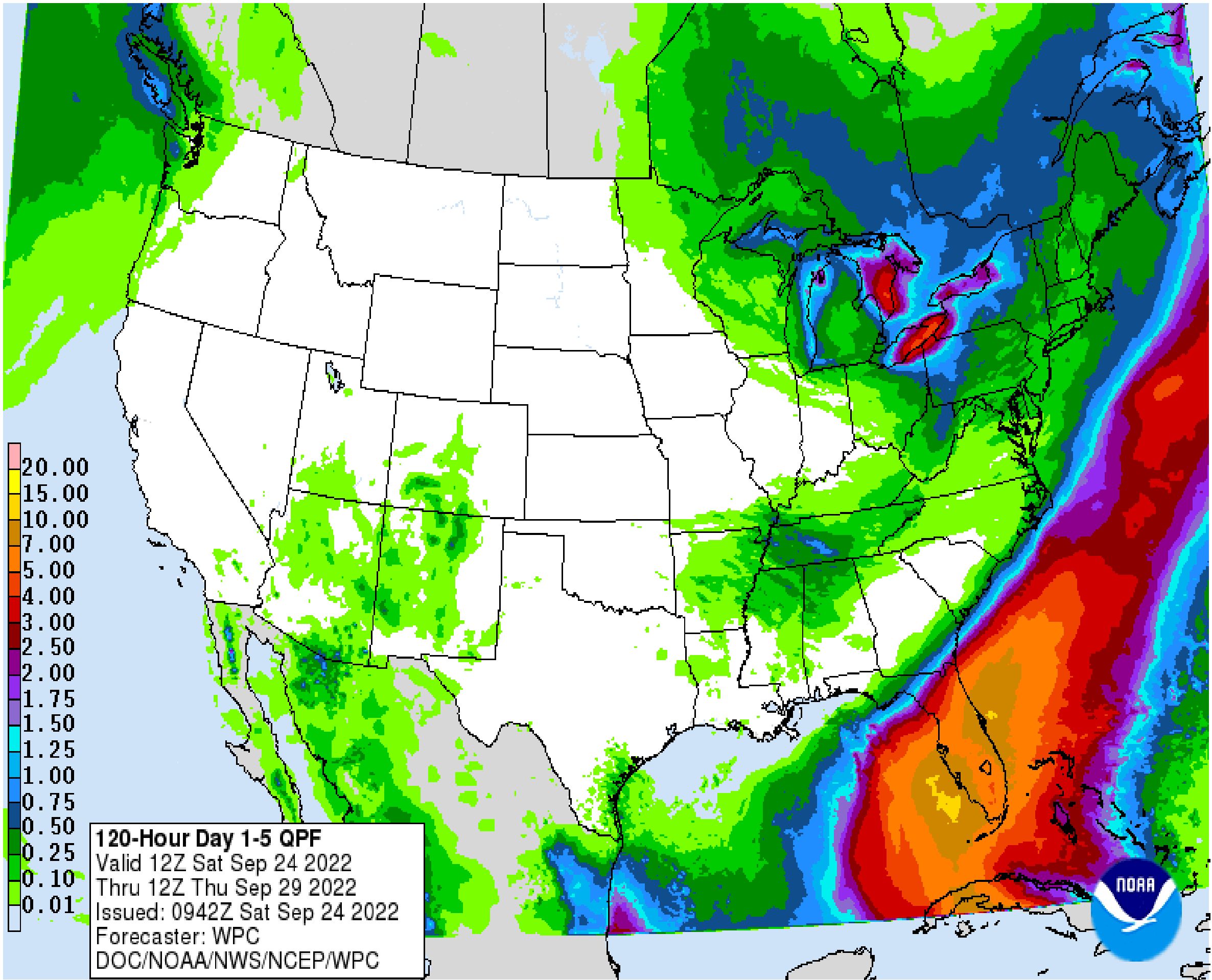


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Tropical Storm Ian Total Rainfall



Rainfall expected through Wednesday morning



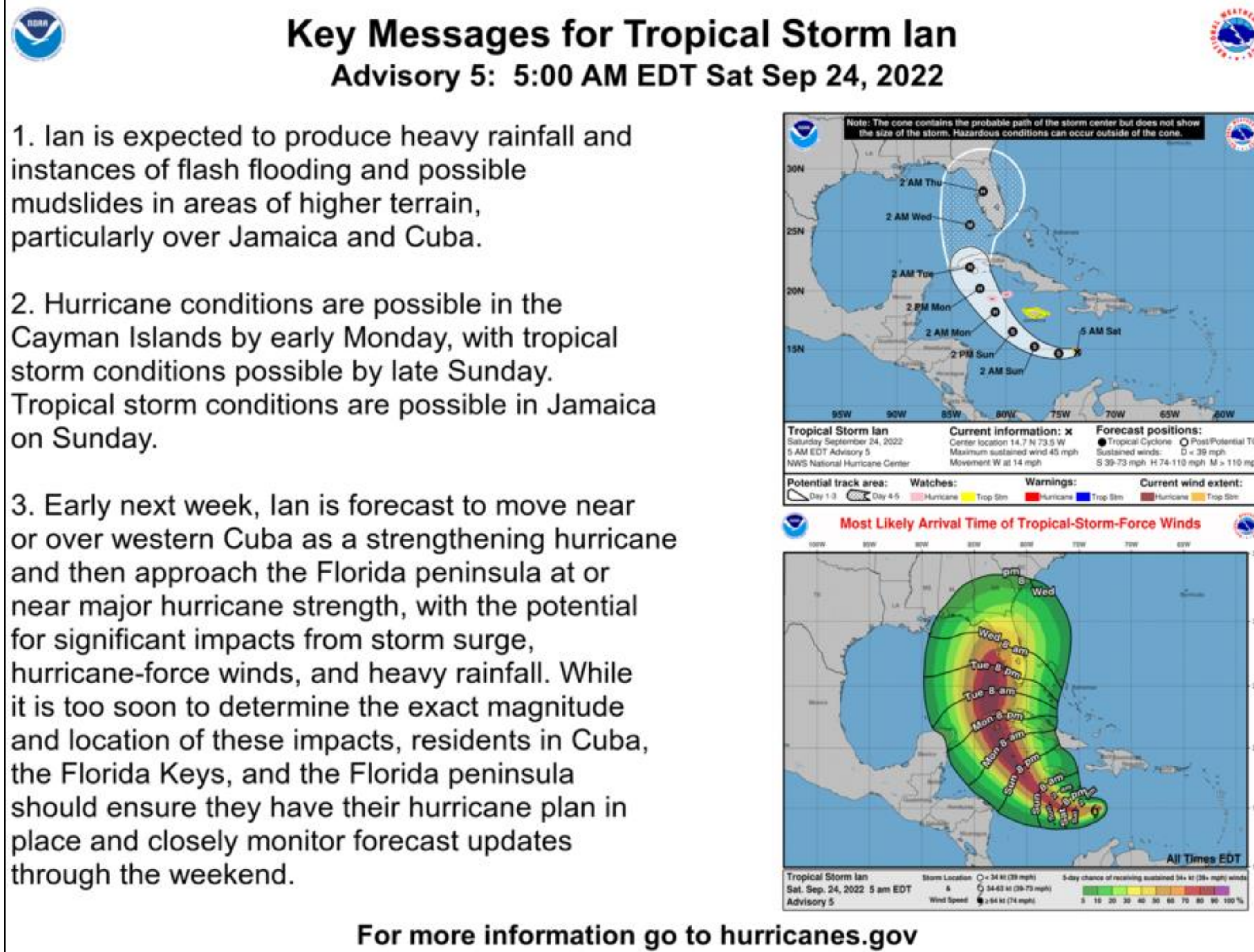
Rainfall expected through Thursday morning

Key Messages

Tropical Storm Ian



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NWS National Hurricane Center



IMPACTS FOR D7 (through next 5 days)

Winds – **High** to **Extreme**

Storm Surge – **High** to **Extreme**

Rainfall/Flash Flooding – **High**

Tornadoes – **Low** to **Medium**

Waves - **High**

- **Marine Key Messages:**
- Peak seas currently 10 ft, building to 15-20 ft in Caribbean by Sunday
- Seas expected to build in the Florida Straits to around 20 ft Monday night/Tuesday and in the SE Gulf to around 30 ft on Tuesday/Wednesday



TROPICAL DEPRESSION NINE BRIEFING

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

*The Next Full Briefing Will Be:
Sunday 9:00 AM EDT*

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



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