

**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



7:30 AM EDT

Saturday, September 24, 2022

Prepared by:

**Chris Landsea**

*Tropical Analysis and Forecast Branch  
NWS National Hurricane Center*

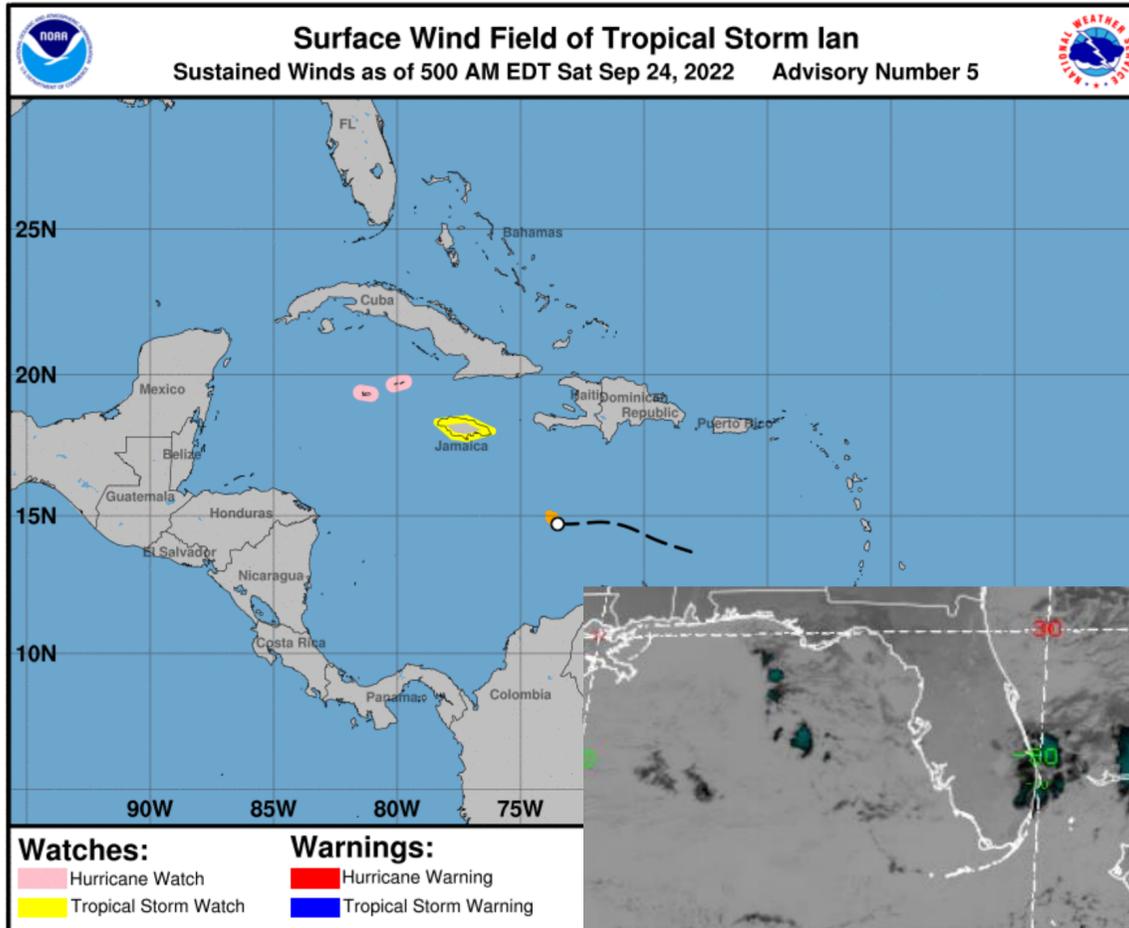


# Situation Overview

Tropical Storm Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



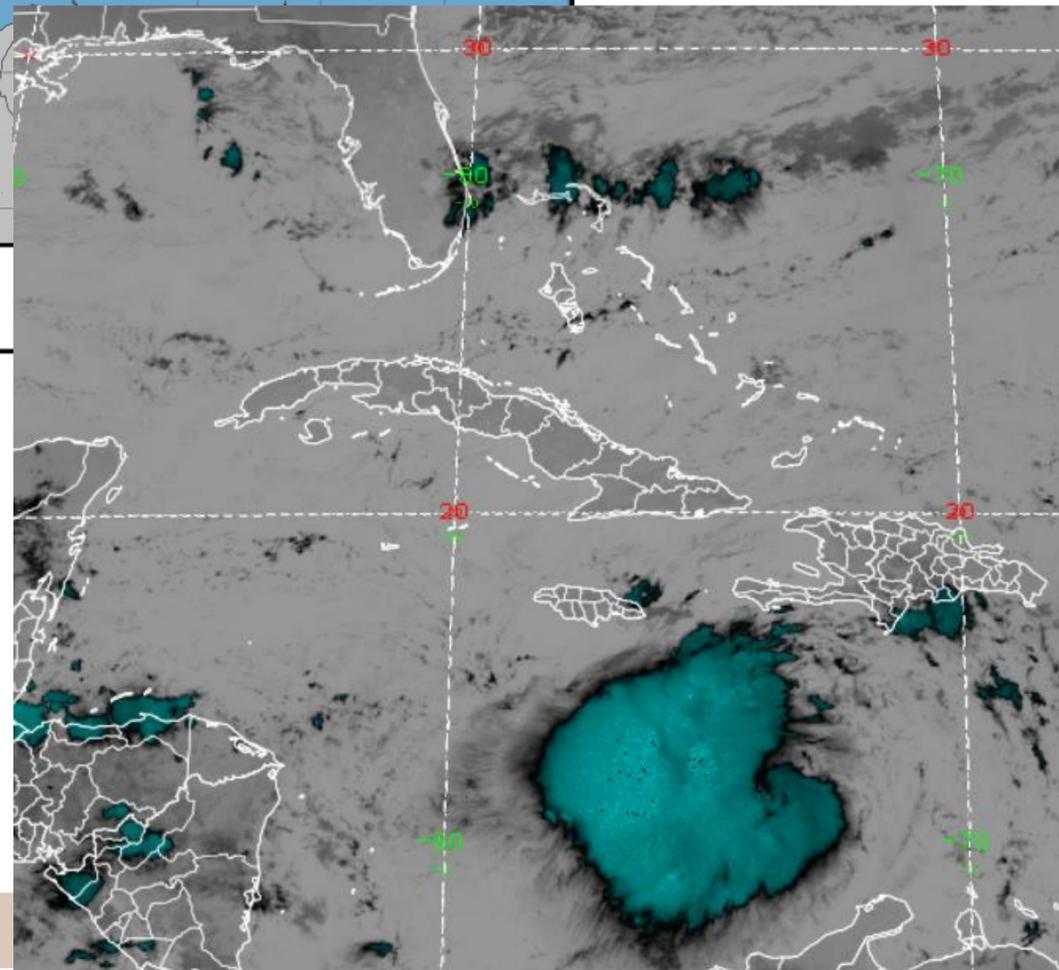
**...IAN STRENGTHENS WHILE MOVING WESTWARD OVER THE CENTRAL CARIBBEAN...**

**...HURRICANE CONDITIONS POSSIBLE IN THE CAYMAN ISLANDS EARLY MONDAY...**

SUMMARY OF 500 AM EDT INFORMATION

LOCATION...14.7N 73.5W  
ABOUT 270 NM SE OF KINGSTON JAMAICA  
MAXIMUM SUSTAINED WINDS...40 KT  
PRESENT MOVEMENT...W OR 270 DEGREES AT 13 KT  
PEAK SEAS 10 FT

SIZE  
34 KT..... ONE OSE OSW 40NW.

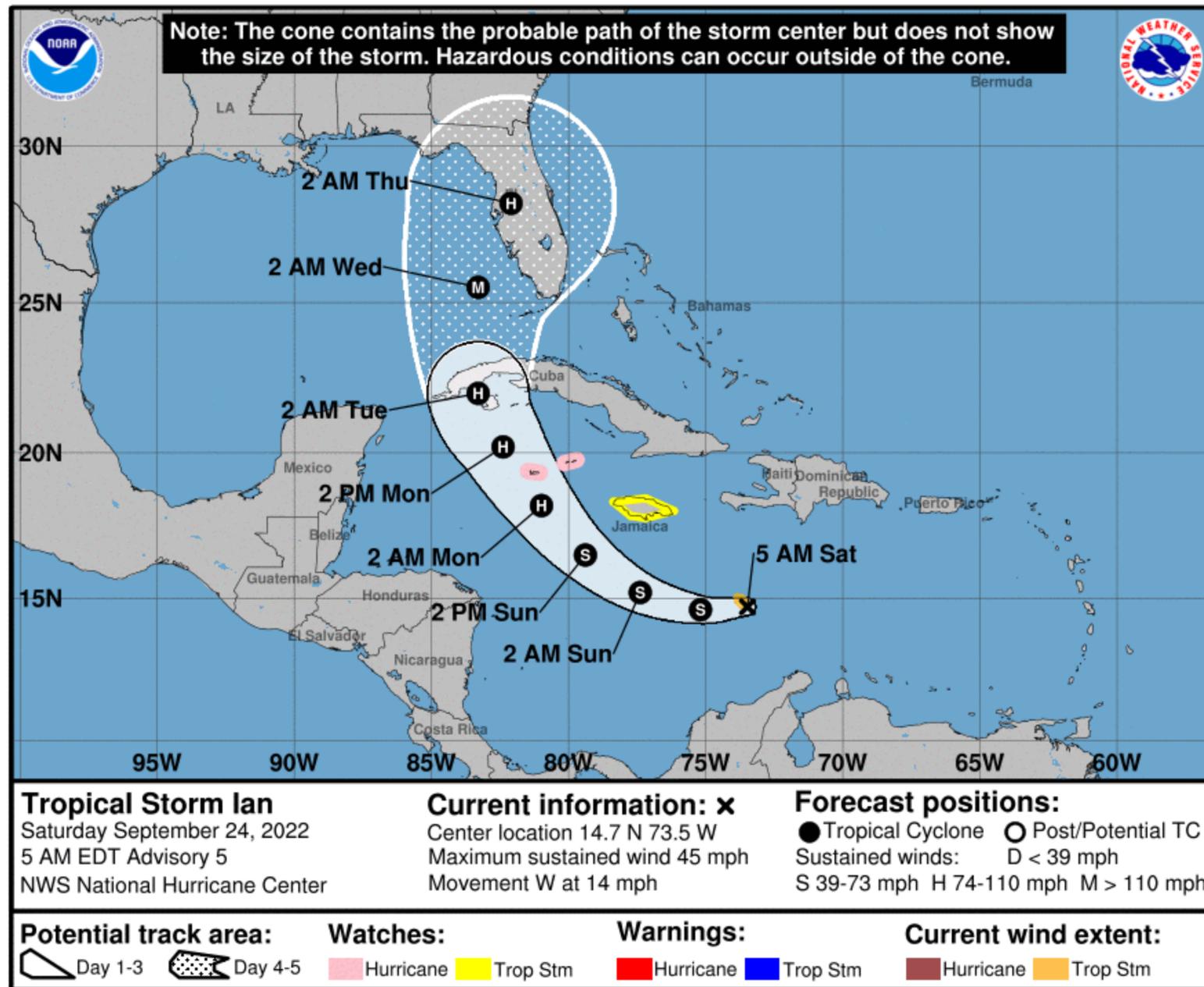


# Forecast Information

## Tropical Storm Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



- 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 by around Wednesday
- Likely impact by the system as a hurricane or major hurricane somewhere along the west coast of Florida sometime 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.

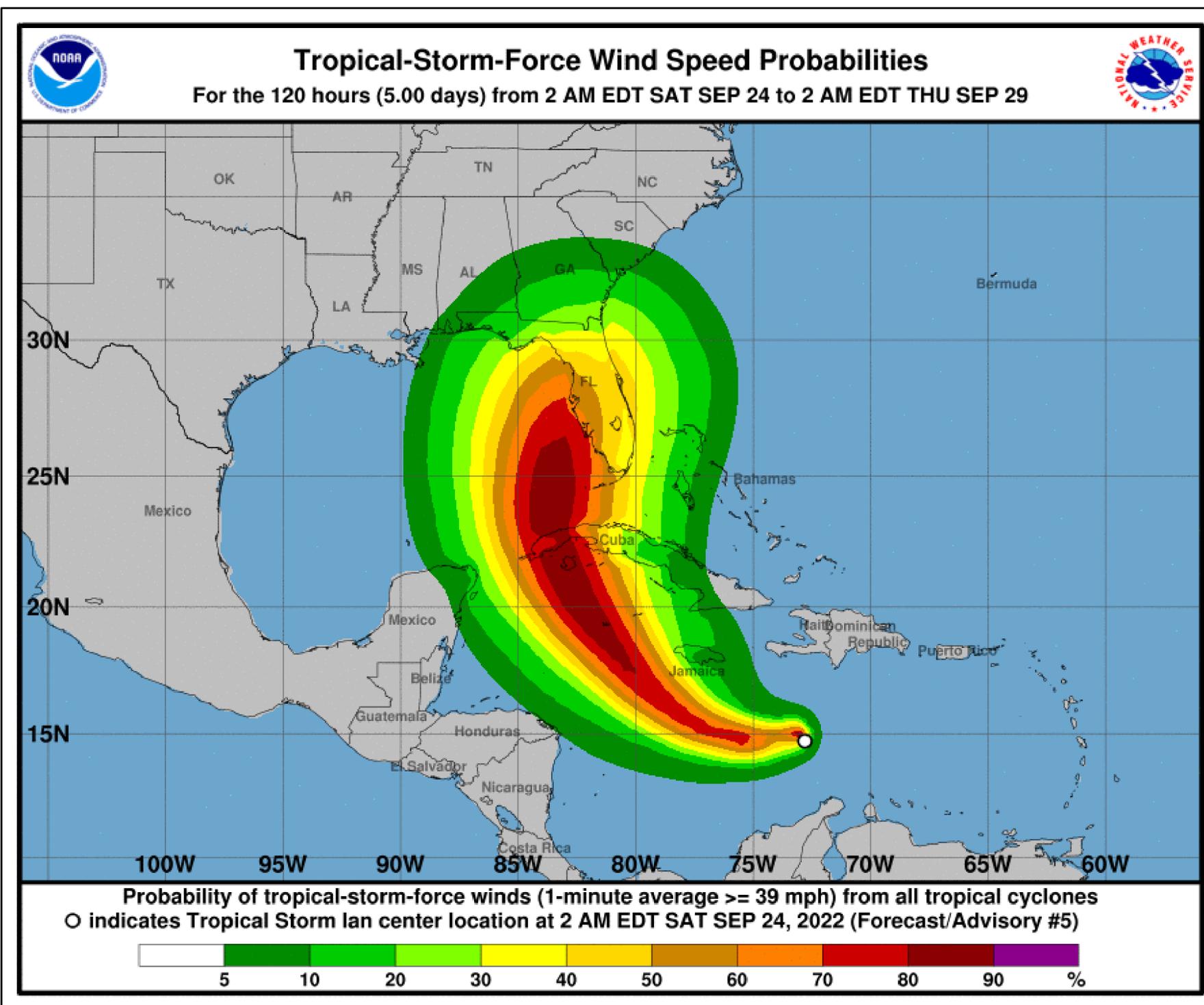
**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

# T.S. Wind Speed Probabilities

Tropical Storm Ian



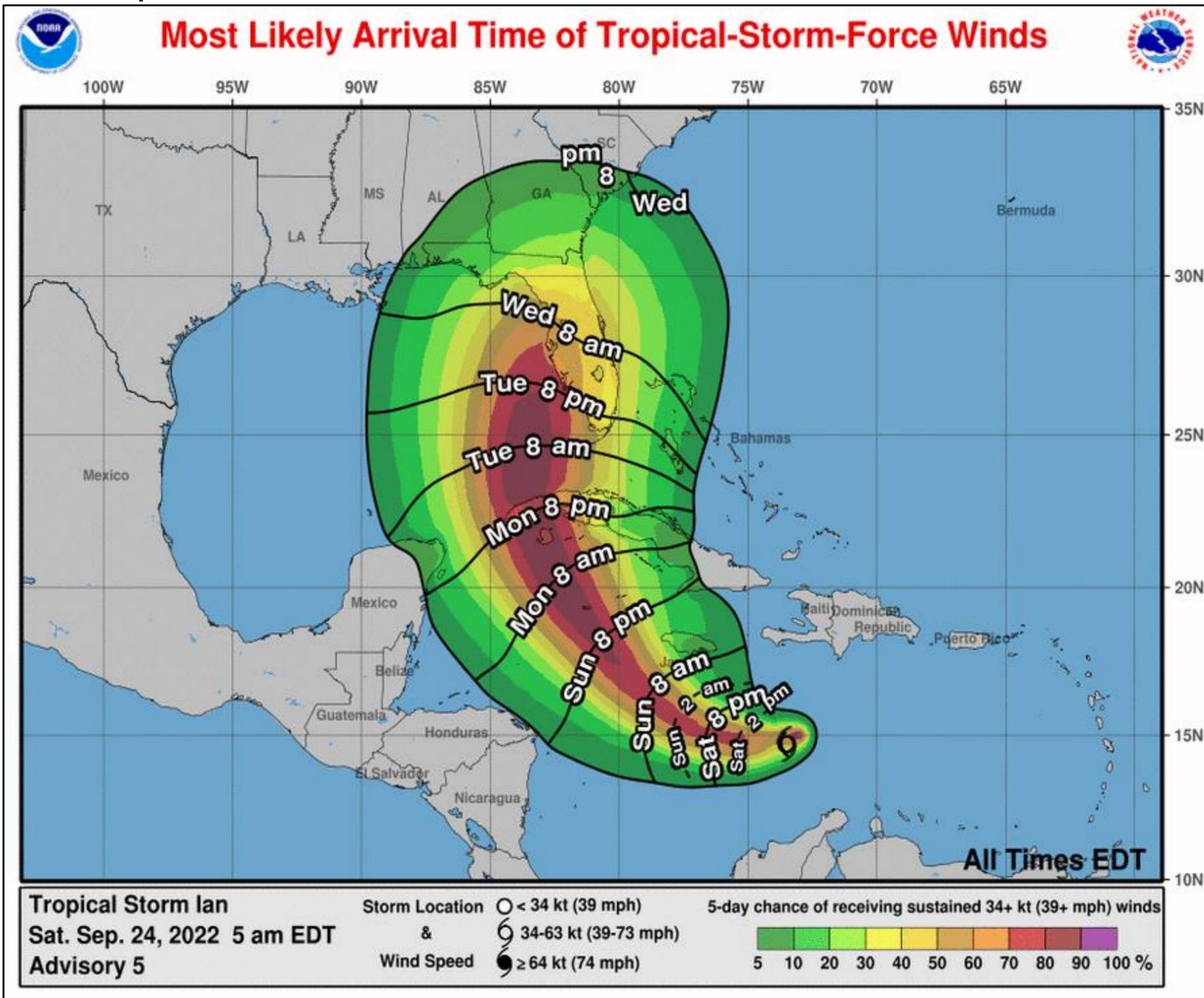
Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



- 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%
- 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



- Apalachicola – 5%
- Cedar Key – 15%
- Tampa – 15%
- Venice – 20%
- Ft. Myers – 10%
- Naples – 15%
- Key West – 20%
- Marathon – 10%

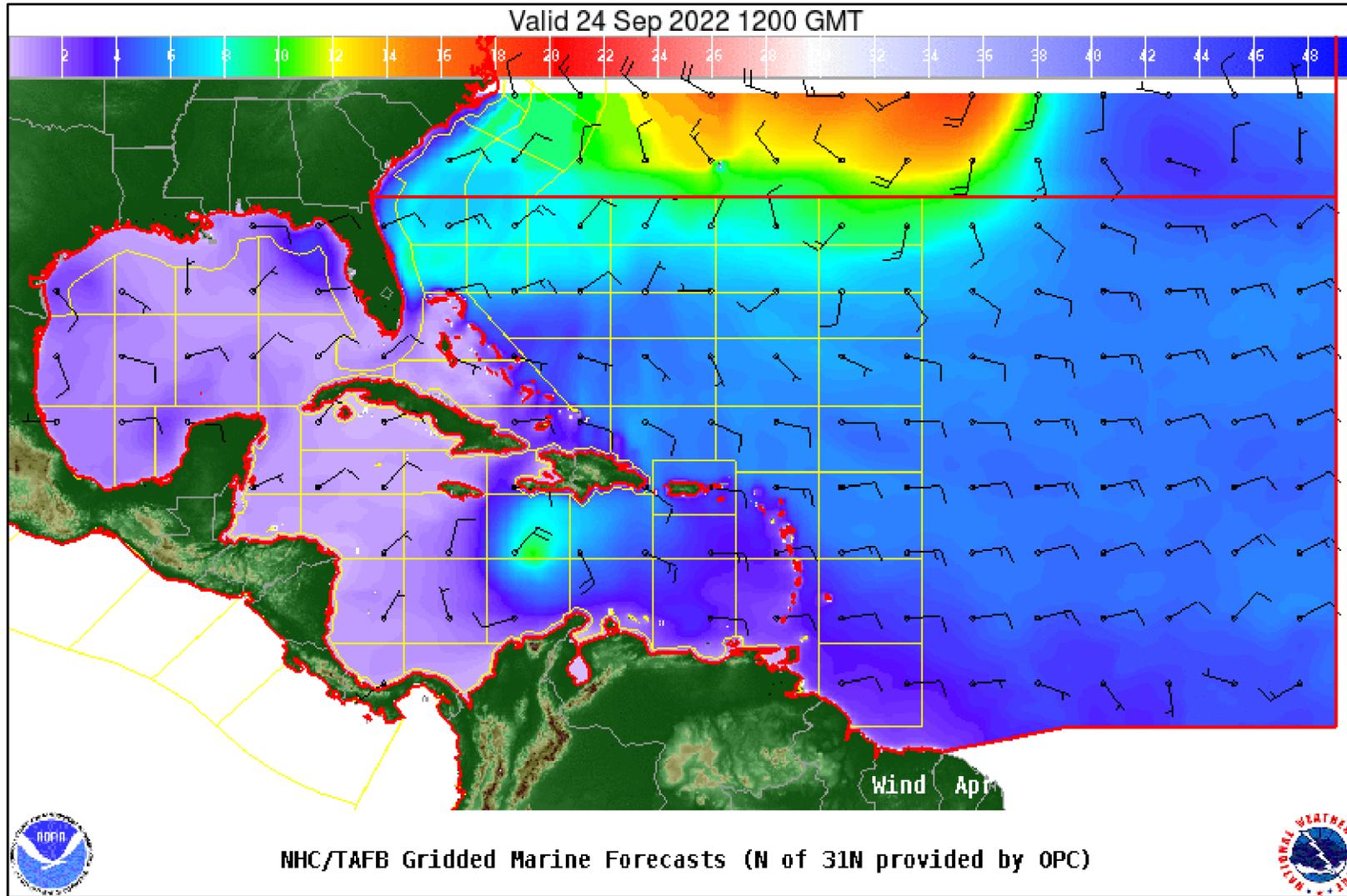
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color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

# Wind And Waves

Tropical Storm Ian



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NWS National Hurricane Center



## Current Conditions

8am EDT, Saturday, September 24th

Peak Winds: 40 kt

Peak Seas: 10 ft

- Wave heights are in feet



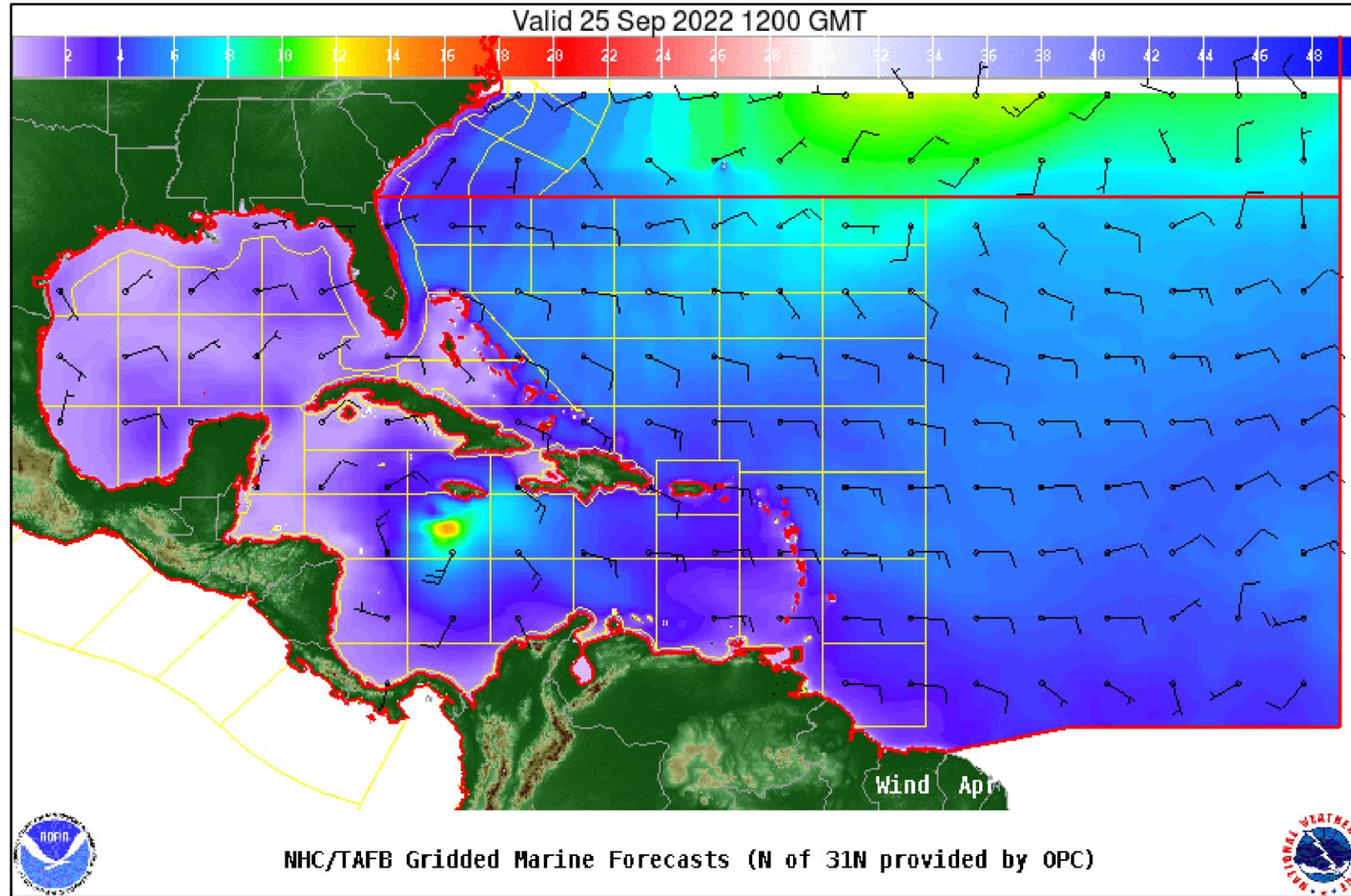
Significant Wave Height (ft)

# 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



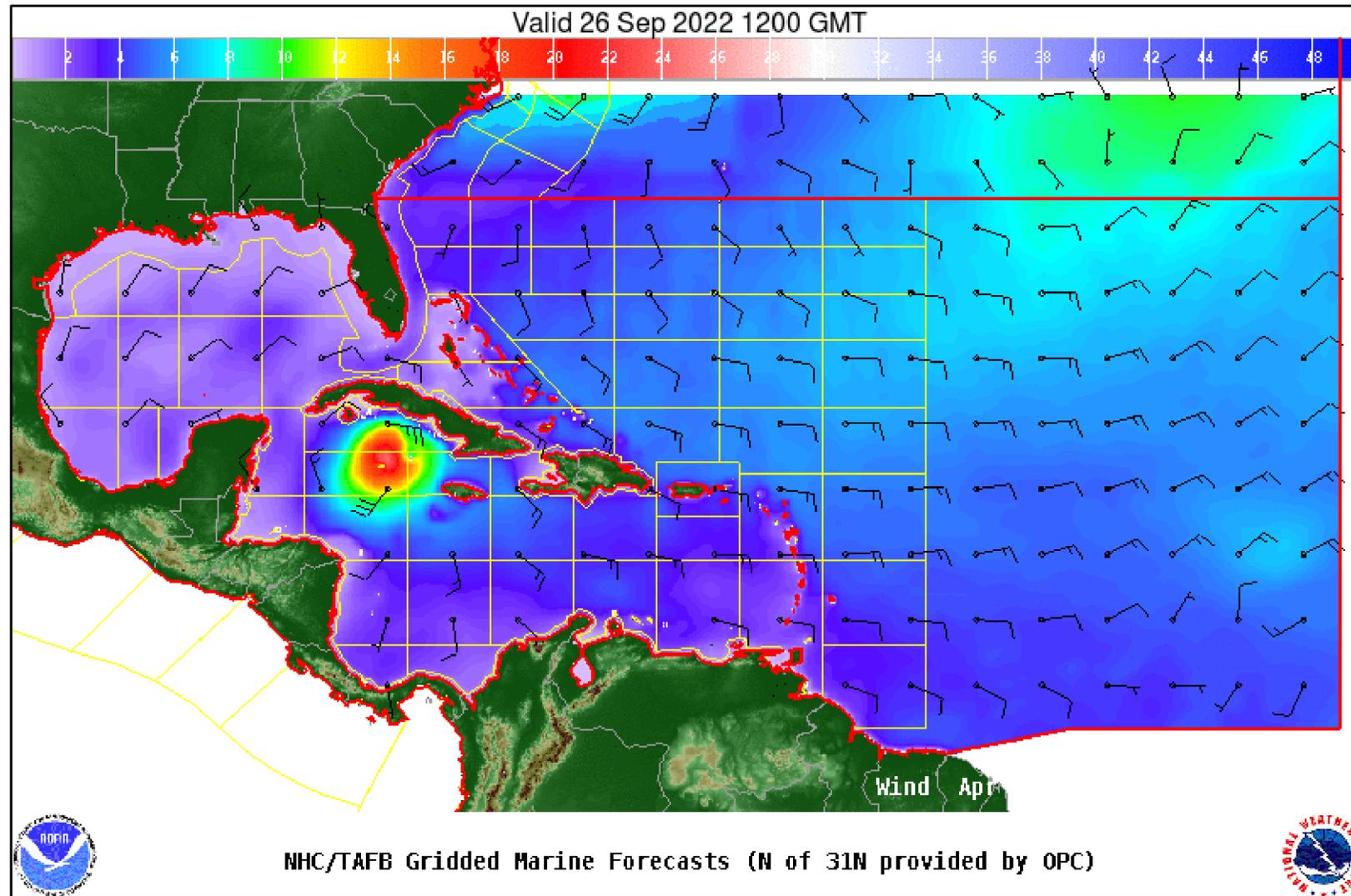
Significant Wave Height (ft)

# 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



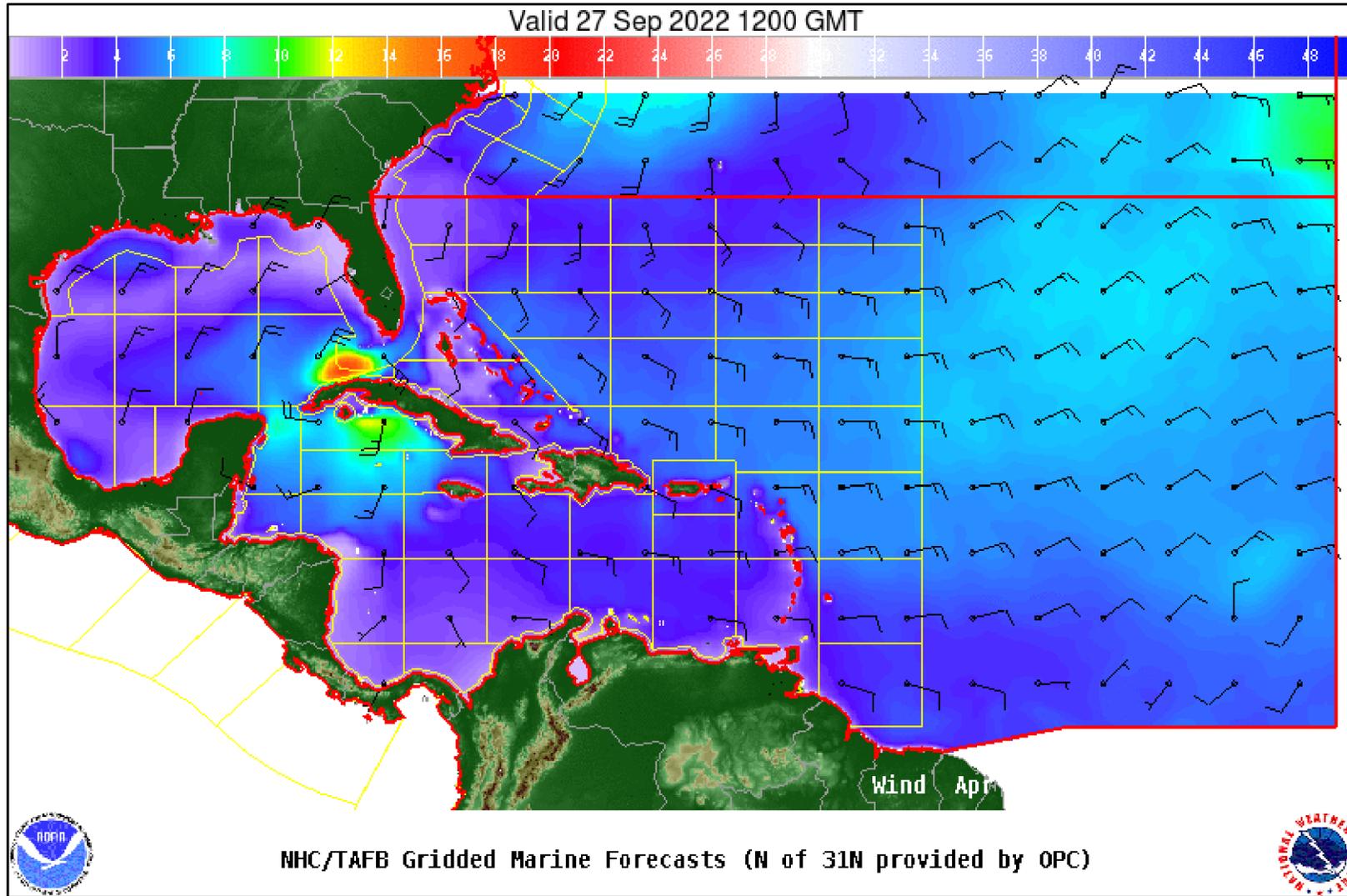
Significant Wave Height (ft)

# 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



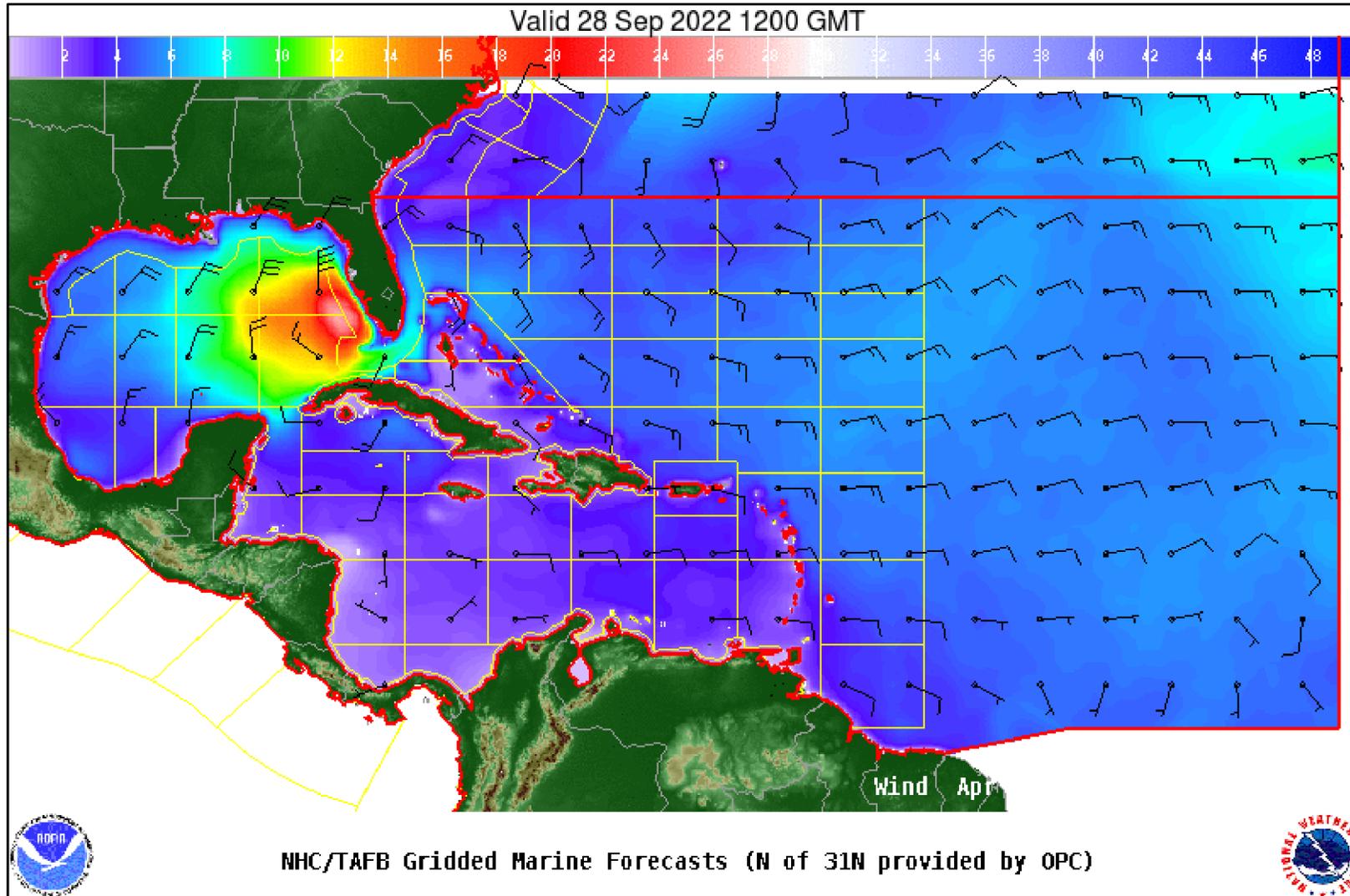
Significant Wave Height (ft)

# Wind And Waves

Tropical Storm Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



96 Hour Forecast

8am EDT Wednesday September 28

Peak Winds: 100 kt

Peak Seas: 35 ft

- Wave heights are in feet



Significant Wave Height (ft)

# Key Messages

## Tropical Storm Ian



Tropical Analysis and Forecast Branch  
NWS National Hurricane Center



### Key Messages for Tropical Storm Ian

Advisory 5: 5:00 AM EDT Sat Sep 24, 2022



1. Ian is expected to produce heavy rainfall and instances of flash flooding and possible mudslides in areas of higher terrain, particularly over Jamaica and Cuba.

2. Hurricane conditions are possible in the Cayman Islands by early Monday, with tropical storm conditions possible by late Sunday. Tropical storm conditions are possible in Jamaica on Sunday.

3. Early next week, Ian is forecast to move near or over western Cuba as a strengthening hurricane and then approach the Florida peninsula at or near major hurricane strength, with the potential for significant impacts from storm surge, hurricane-force winds, and heavy rainfall. While it is too soon to determine the exact magnitude and location of these impacts, residents in Cuba, the Florida Keys, and the Florida peninsula should ensure they have their hurricane plan in place and closely monitor forecast updates through the weekend.

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



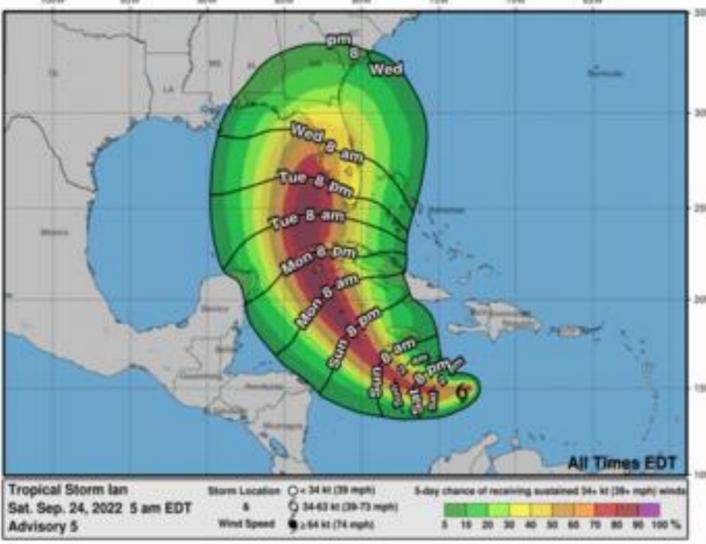
**Tropical Storm Ian**  
Saturday September 24, 2022  
5 AM EDT Advisory 5  
NWS National Hurricane Center

**Current information: x**  
Center location 14.7 N 73.5 W  
Maximum sustained wind 45 mph  
Movement W at 14 mph

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

**Potential track area:** Day 1-3 Day 4-5  
**Watches:** Hurricane Trop Stm  
**Warnings:** Hurricane Trop Stm  
**Current wind extent:** Hurricane Trop Stm

**Most Likely Arrival Time of Tropical-Storm-Force Winds**



**Tropical Storm Ian**  
Sat. Sep. 24, 2022 5 am EDT  
Advisory 5

Storm Location ○ = 34 kt (39 mph) ● = 44 kt (51 mph)  
5-day chance of receiving sustained 34+ kt (39+ mph) winds  
Wind Speed 5 10 20 30 40 50 60 70 80 90 100 %

**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

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

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



NHC\_TAFB

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