

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 - Extreme

HURRICANE IAN BRIEFING

4:00 PM EDT

Monday, September 26, 2022

Prepared by:

Amanda Reinhart

Tropical Analysis and Forecast Branch

NWS National Hurricane Center

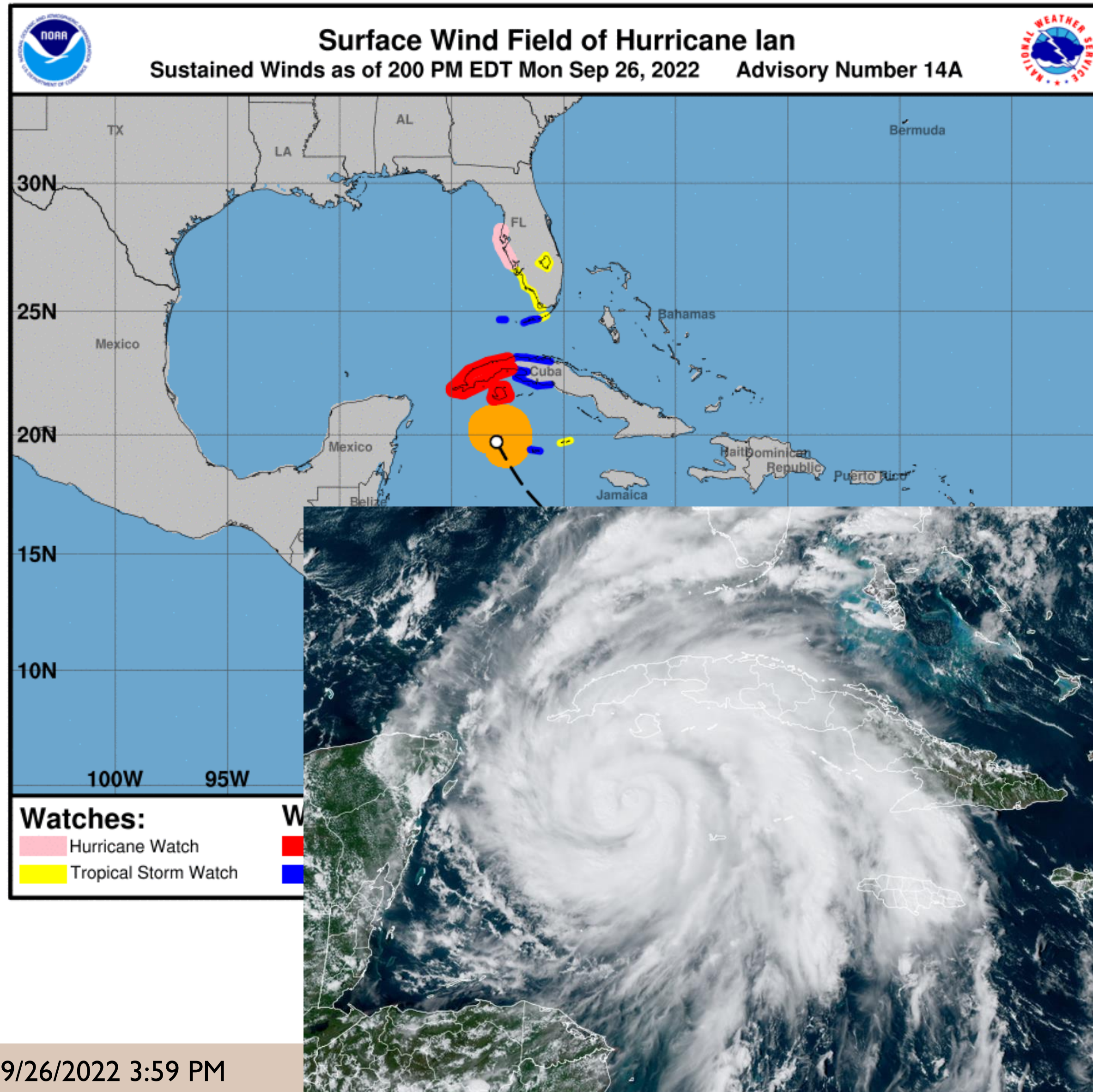


Situation Overview

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



...IAN CONTINUES TO INTENSIFY...

...CONDITIONS IN WESTERN CUBA TO DETERIORATE THIS EVENING AND TONIGHT WITH SIGNIFICANT WIND AND STORM SURGE IMPACTS EXPECTED...

Summary of 800 AM EDT Information

Location... 19.7N 83.0W

About 100 nm WNW of Grand Cayman

About 170 nm SE of the western tip of Cuba

Maximum Sustained Winds... 80 kt

Present Movement... NNW at 11 kt

Minimum Central Pressure... 976 mb

Peak Seas... 25 ft

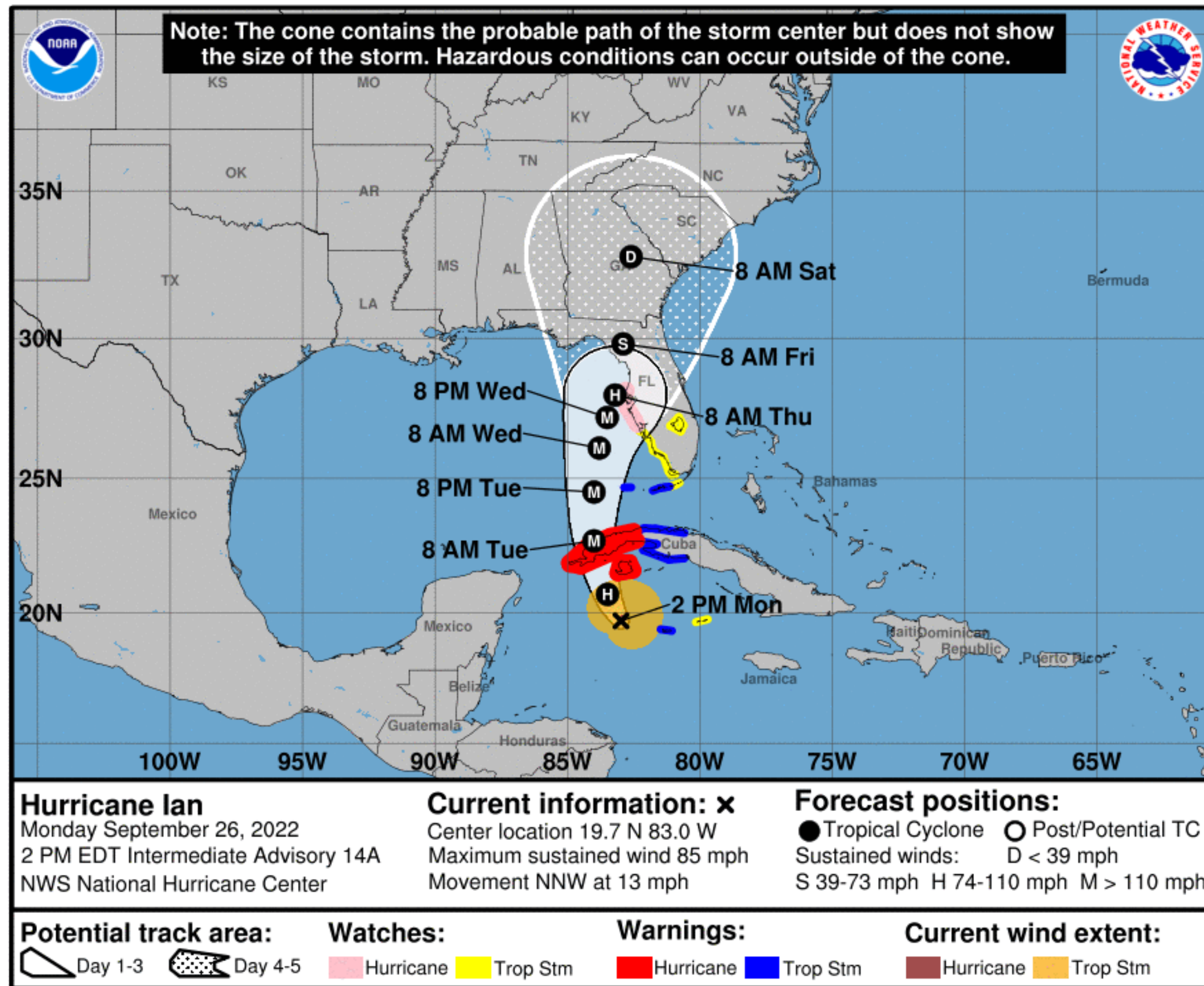
12 ft Seas... 120NE 60SE 30SW 75NW.

Forecast Information

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



- Ian will turn toward the north with a slightly slower forward speed on Tuesday., then turn NNE while slowing down on Wed
- Ian is expected to move near or over western Cuba tonight and early Tuesday, then emerge over the SE Gulf on Tuesday, and approach the west coast of Florida on Wednesday into Thursday.
- Track confidence is growing in the first 72 hours, although the roughly-parallel track makes it difficult to pinpoint exactly which areas will experience the most severe impacts
- Ian is expected to slow down as it nears the west-central Florida coast – **this would prolong the storm surge, wind, and rainfall impacts along the affected portions of the west coast of Florida**

- 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.

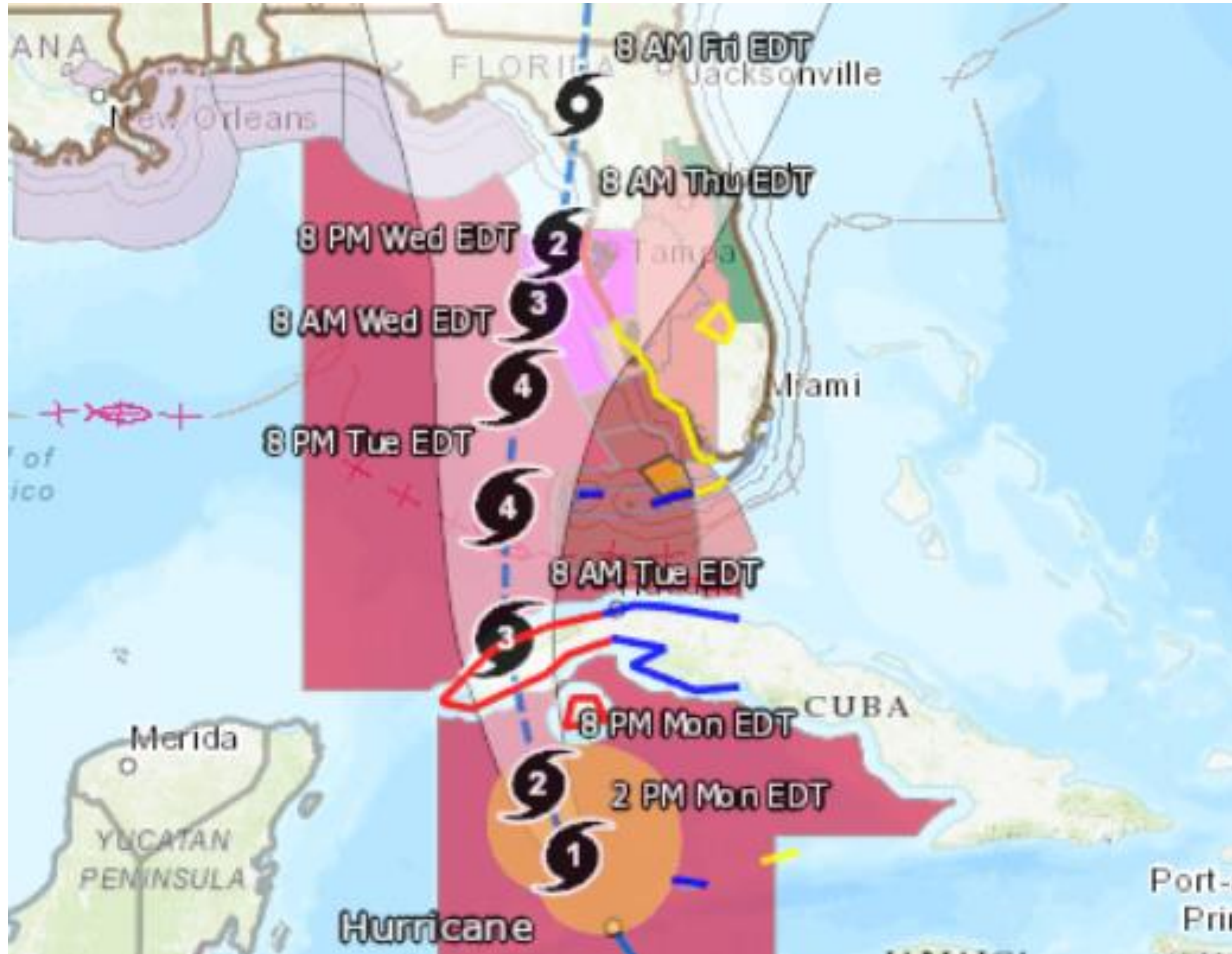
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

Hazards Map

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

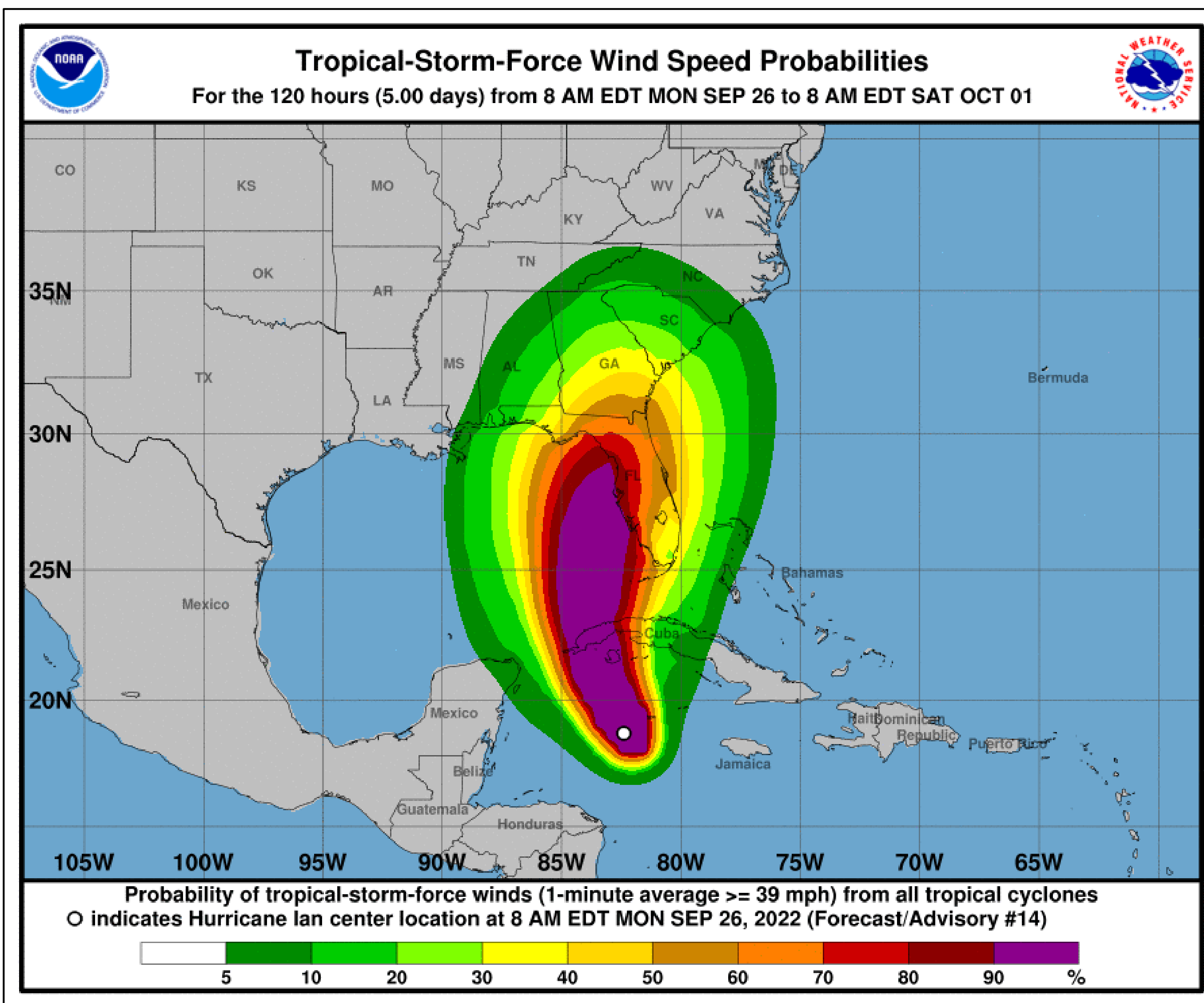


T.S. Wind Speed Probabilities

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



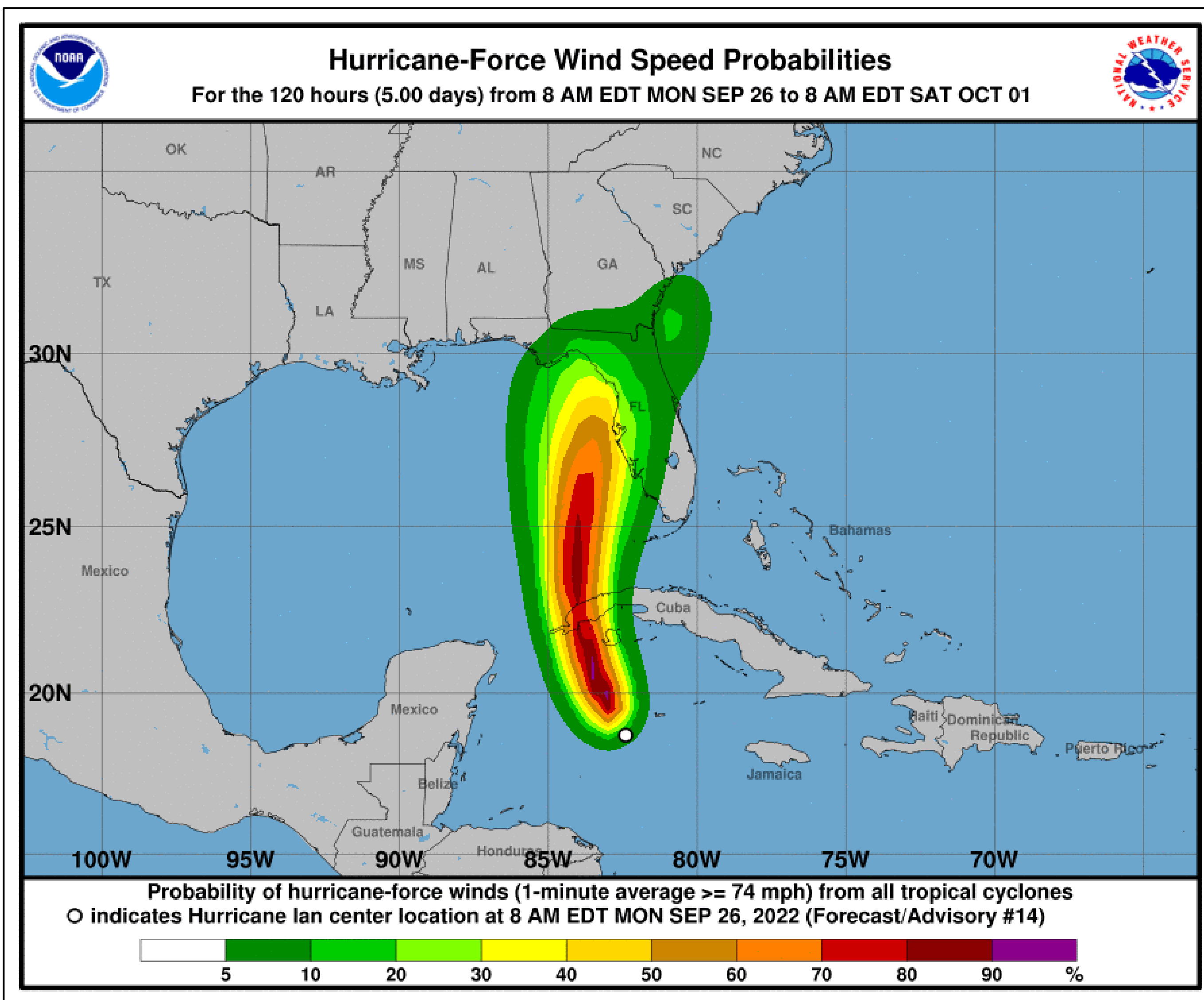
- CHARLESTON SC - 30%
 - BEAUFORT- 35%
 - SAVANNAH GA - 35%
 - KINGS BAY GA - 60%
 - MAYPORT - 60%
 - JACKSONVILLE - 55%
 - DAYTONA BEACH - 55%
 - COCOA BEACH - 50%
 - PATRICK AFB - 60%
 - FT PIERCE FL - 55%
 - W PALM BEACH - 45%
 - FT. LAUDERDALE - 40%
 - MIAMI FL - 30%
 - HOMESTEAD ARB - 30%
 - MARATHON FL - 55%
 - KEY WEST FL - 75%**
 - NAPLES FL - 85%**
 - FT MYERS FL - 70%**
 - VENICE FL - 95%**
 - TAMPA FL - 90%**
 - CEDAR KEY - 85%**
 - TALLAHASSEE FL - 50%**
 - ST MARKS FL - 55%**
 - APALACHICOLA - 60%**
 - PANAMA CITY FL - 45%
 - DESTIN - 20%
 - WHITING FIELD - 15%
 - PENSACOLA FL - 15%
 - MOBILE - 10%
 - GULFPORT - 5 %
- 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



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Hurricane Ian

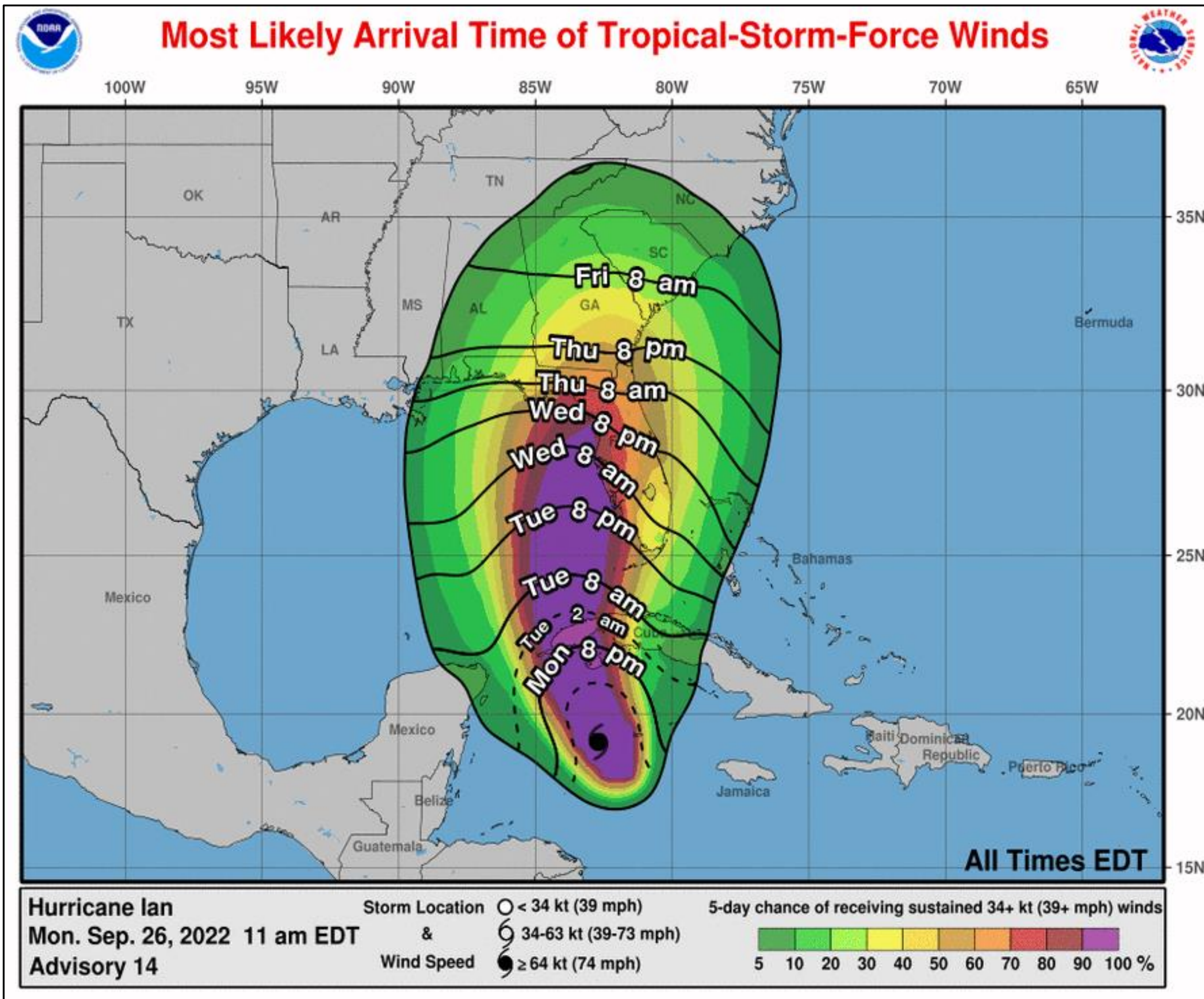


- CHARLESTON SC - 5%
- BEAUFORT - 5%
- SAVANNAH - 5%
- KINGS BAY - 10%
- MAYPORT - 15%
- JACKSONVILLE - 10%
- DAYTONA BEACH - 10%
- COCOA BEACH - 10%
- PATRICK AFB - 10%
- FT PIERCE - 5%
- KEY WEST - 10%
- NAPLES - 15%
- FT MYERS - 15%
- **VENICE - 40%**
- **TAMPA - 40%**
- **CEDAR KEY - 35%**
- TALLAHASSEE - 10%
- ST MARKS - 15%
- APALACHICOLA - 15%
- PANAMA CITY - 10%

- 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.



Hurricane Ian



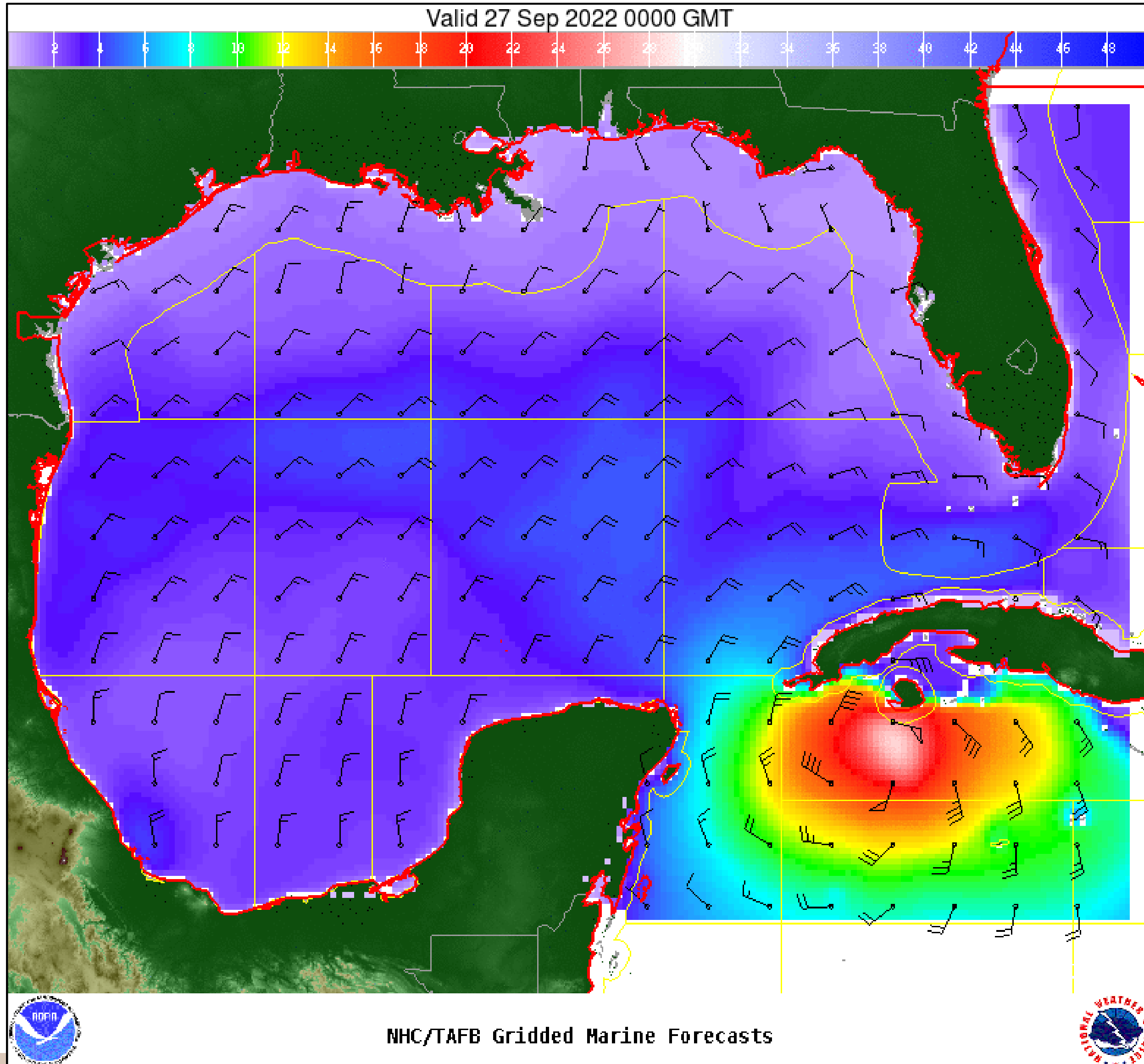
- Florida Keys – midday Tuesday
- Ft. Myers/Sarasota – Tuesday night
- Tampa – Wednesday morning
- Big Bend – Wednesday night
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest 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

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



Current Conditions

5pm EDT, Mon Sept 26

Peak Winds: 80 kt

Peak Seas: 26 ft

■ Wave heights are in feet



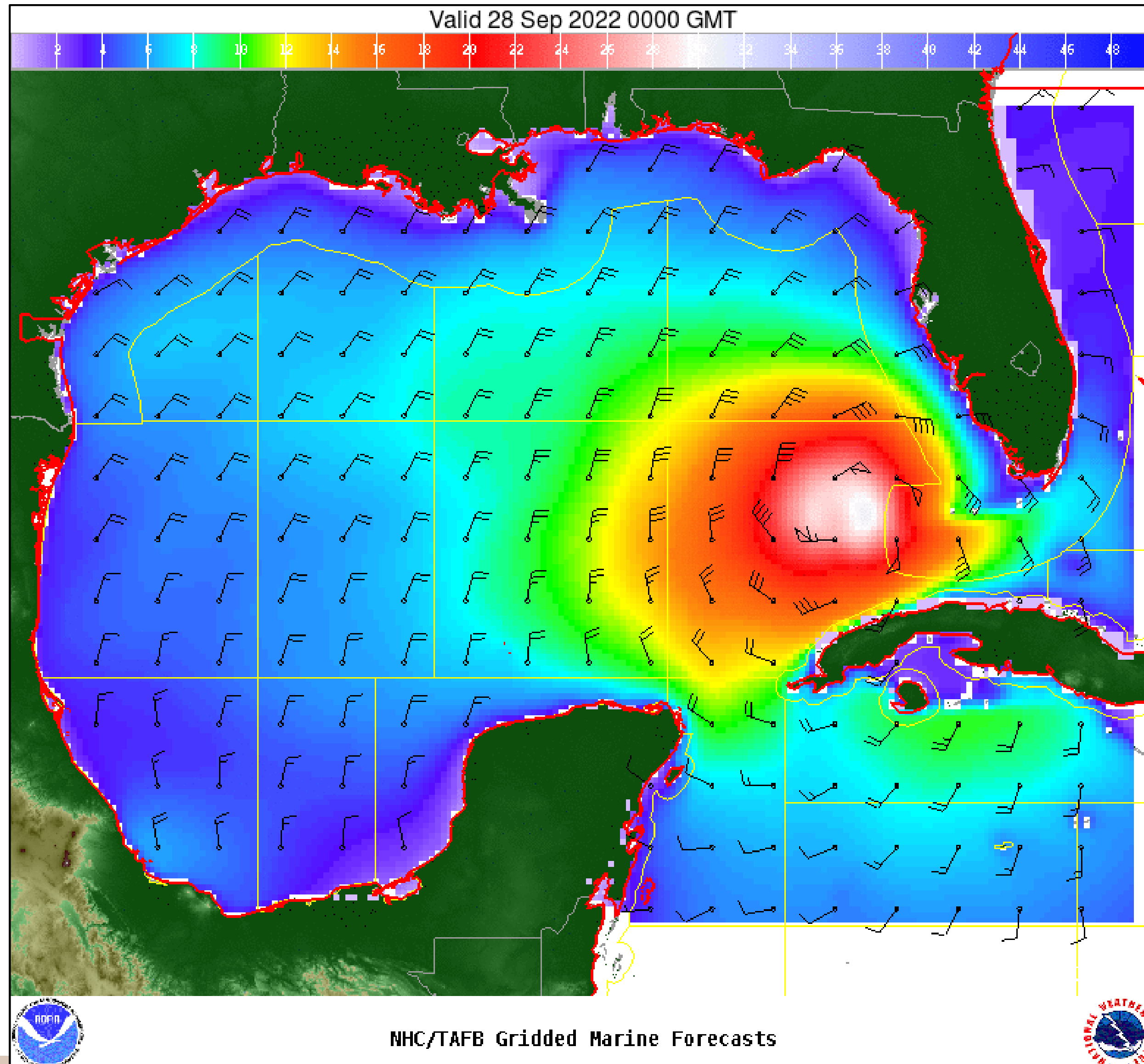
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



24 Hour Forecast
5pm, Tuesday, Sept 27
Peak Winds: 110 kt
Peak Seas: 30 ft

■ Wave heights are in feet



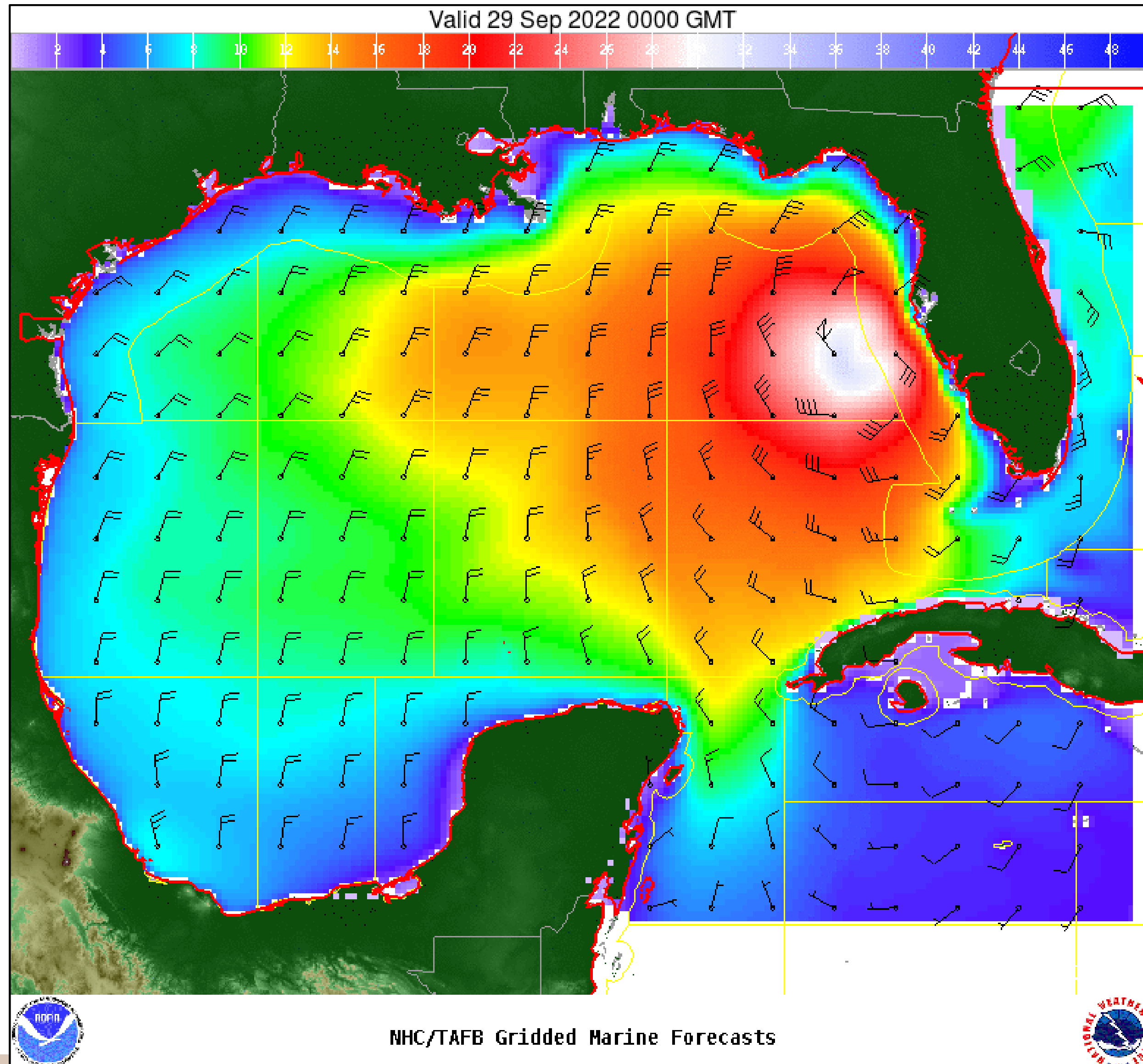
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



48 Hour Forecast
5pm EDT, Wednesday, Sept 28
Peak Winds: 115 kt
Peak Seas: 36 ft

■ Wave heights are in feet



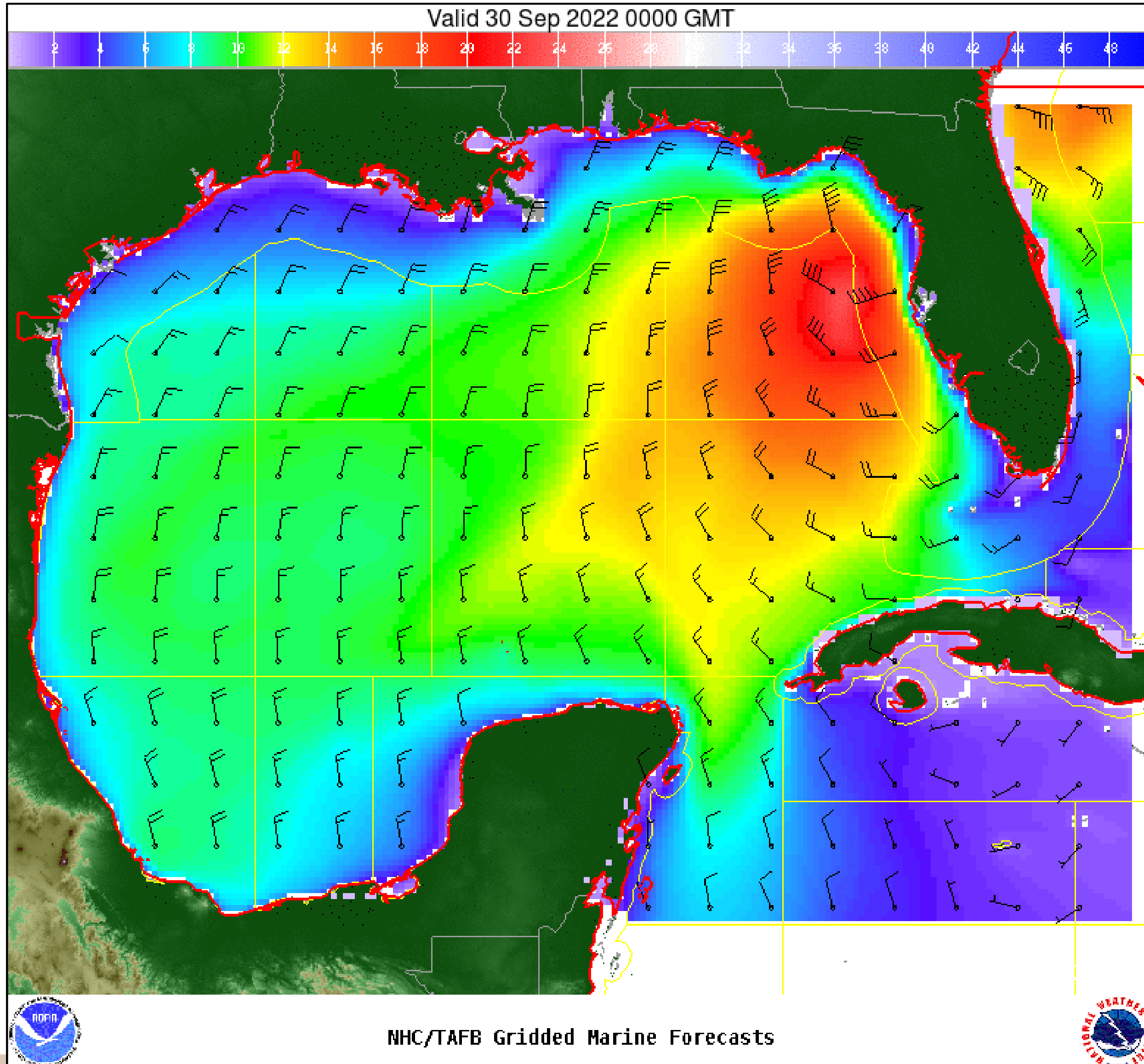
Significant Wave Height (ft)

Wind And Waves

Hurricane Ian



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



72 Hour Forecast

5pm Thu, Sept 29

Peak Winds: 75 kt

Peak Seas: 25 ft

■ Wave heights are in feet



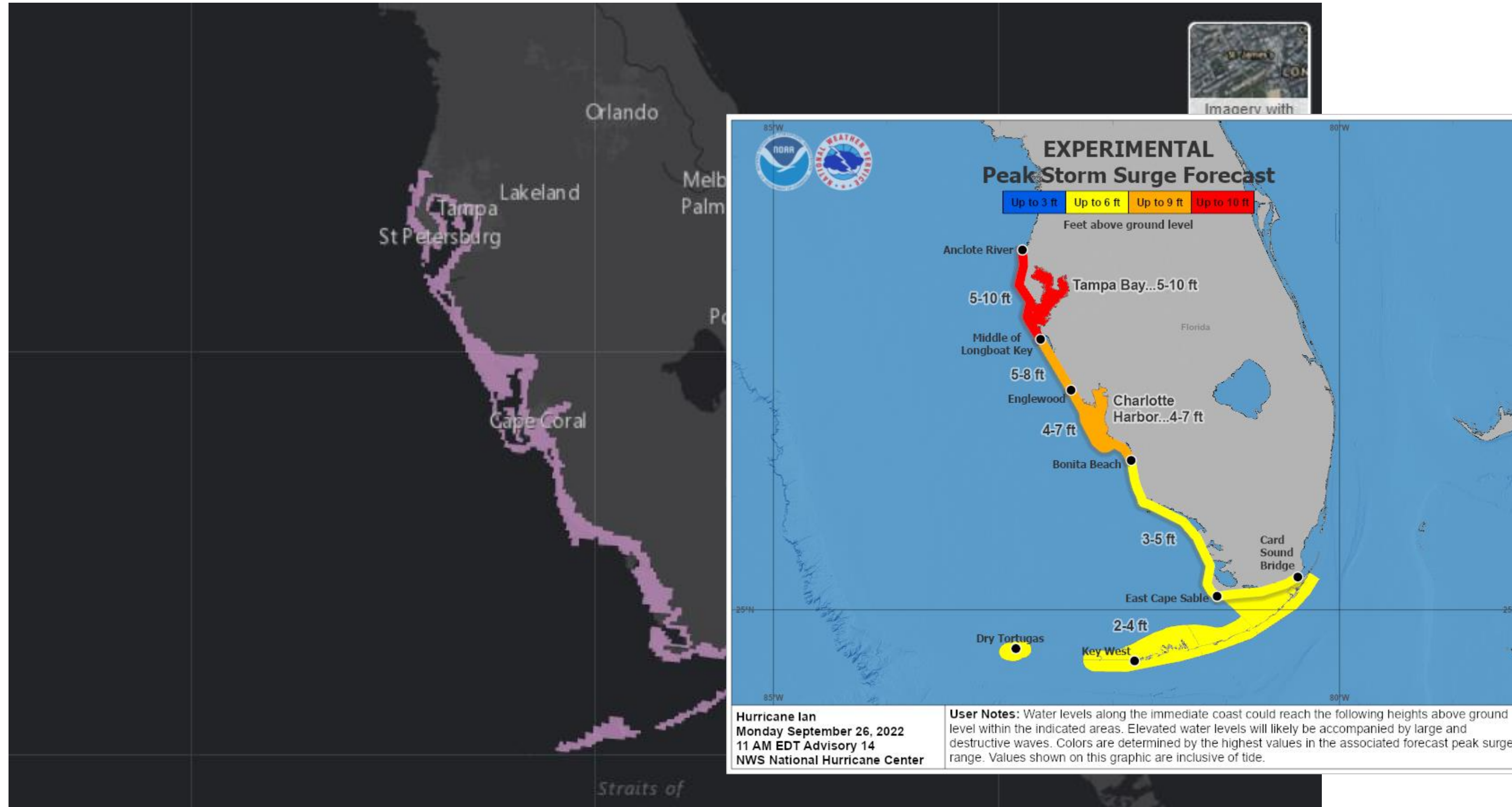
Significant Wave Height (ft)

Potential Peak Storm Surge / Watches and Warnings



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Hurricane Ian



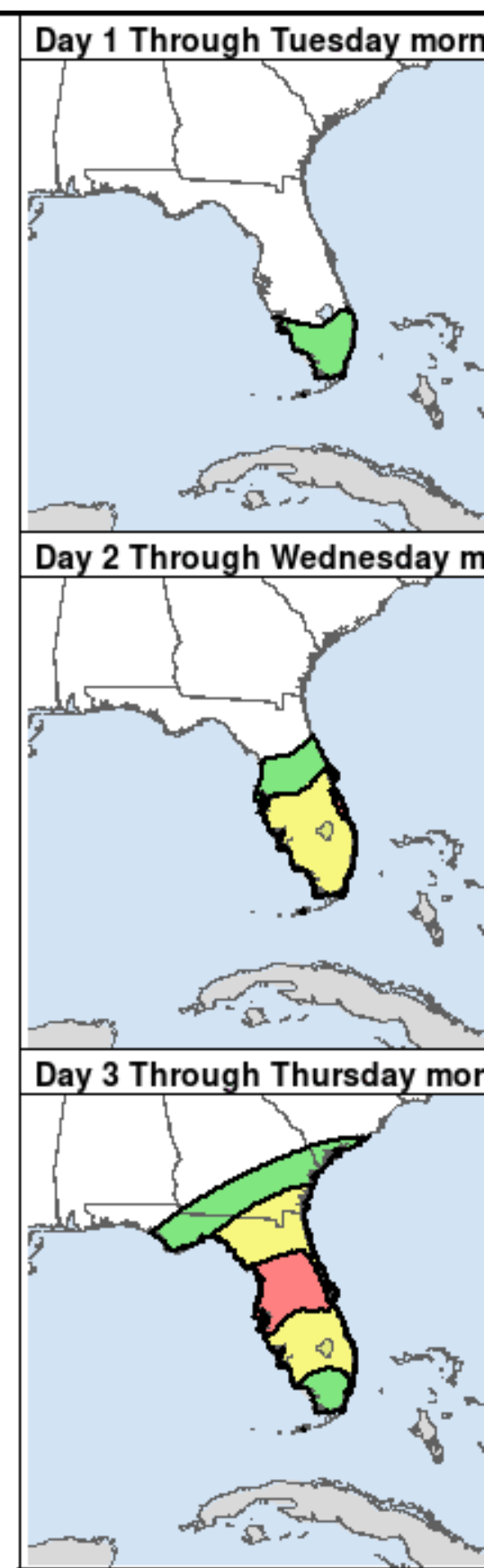
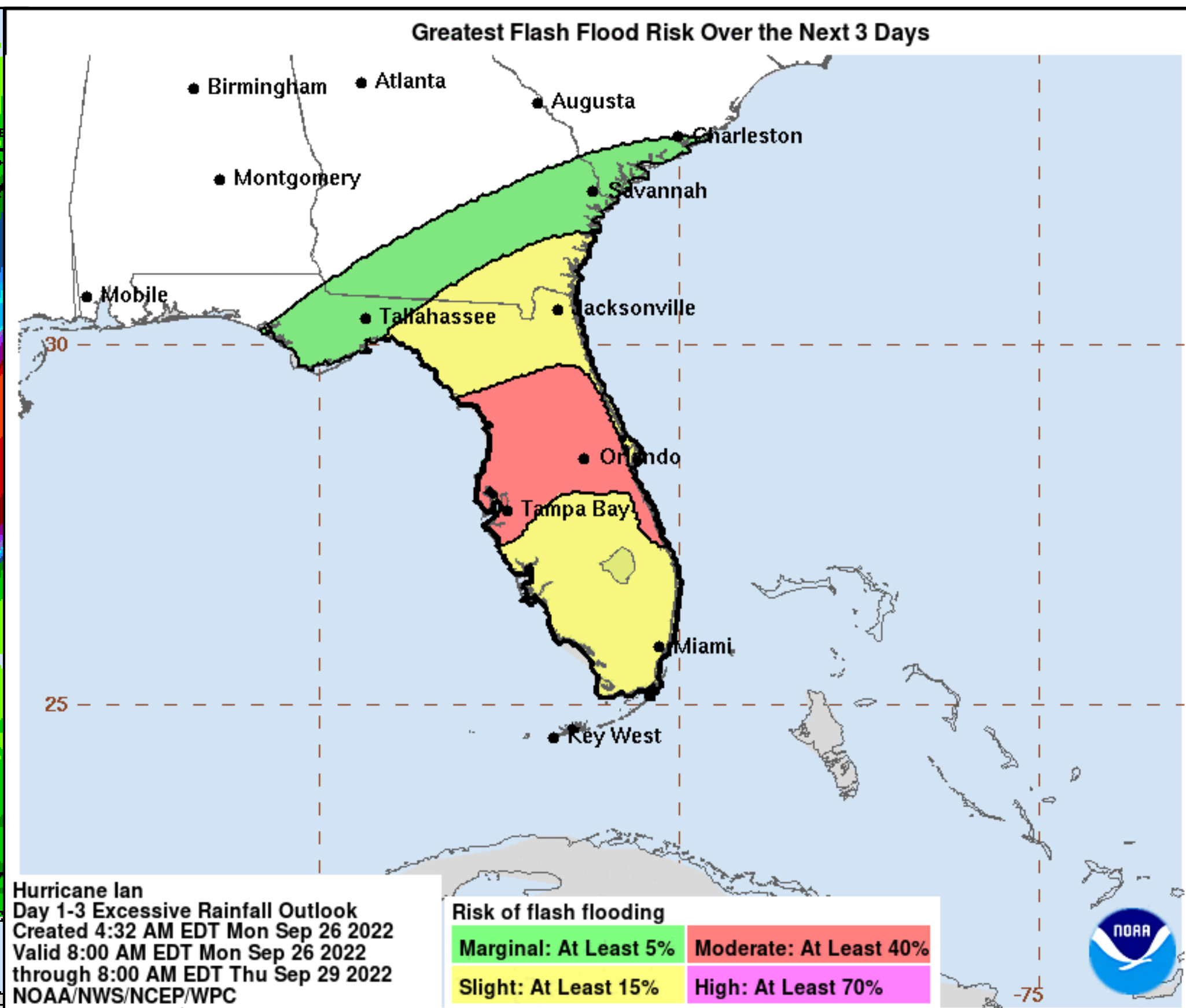
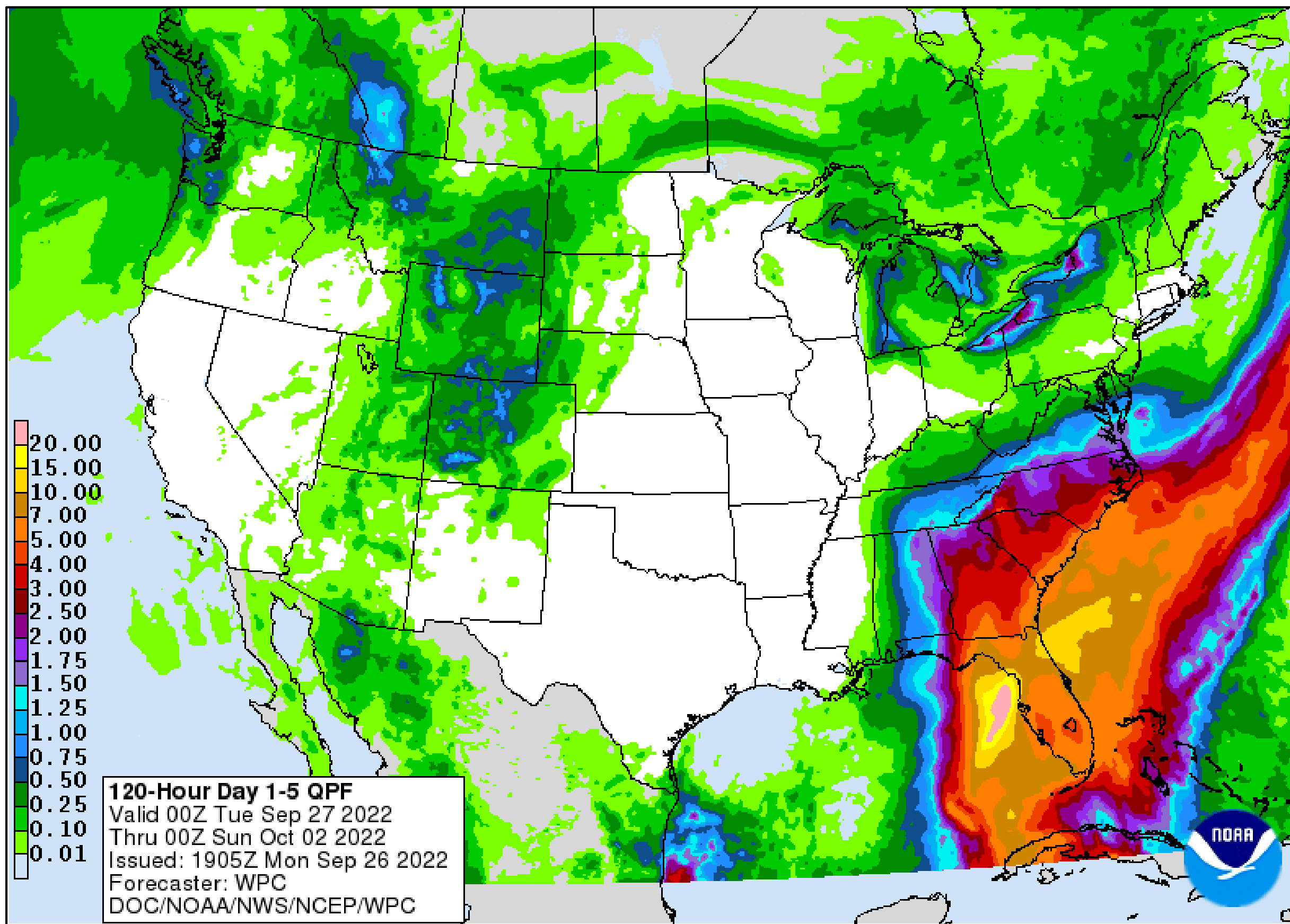
Expected Storm Total Rainfall and Chance of Rainfall Flooding



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

Hurricane Ian

Images from NWS Weather Prediction Center



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

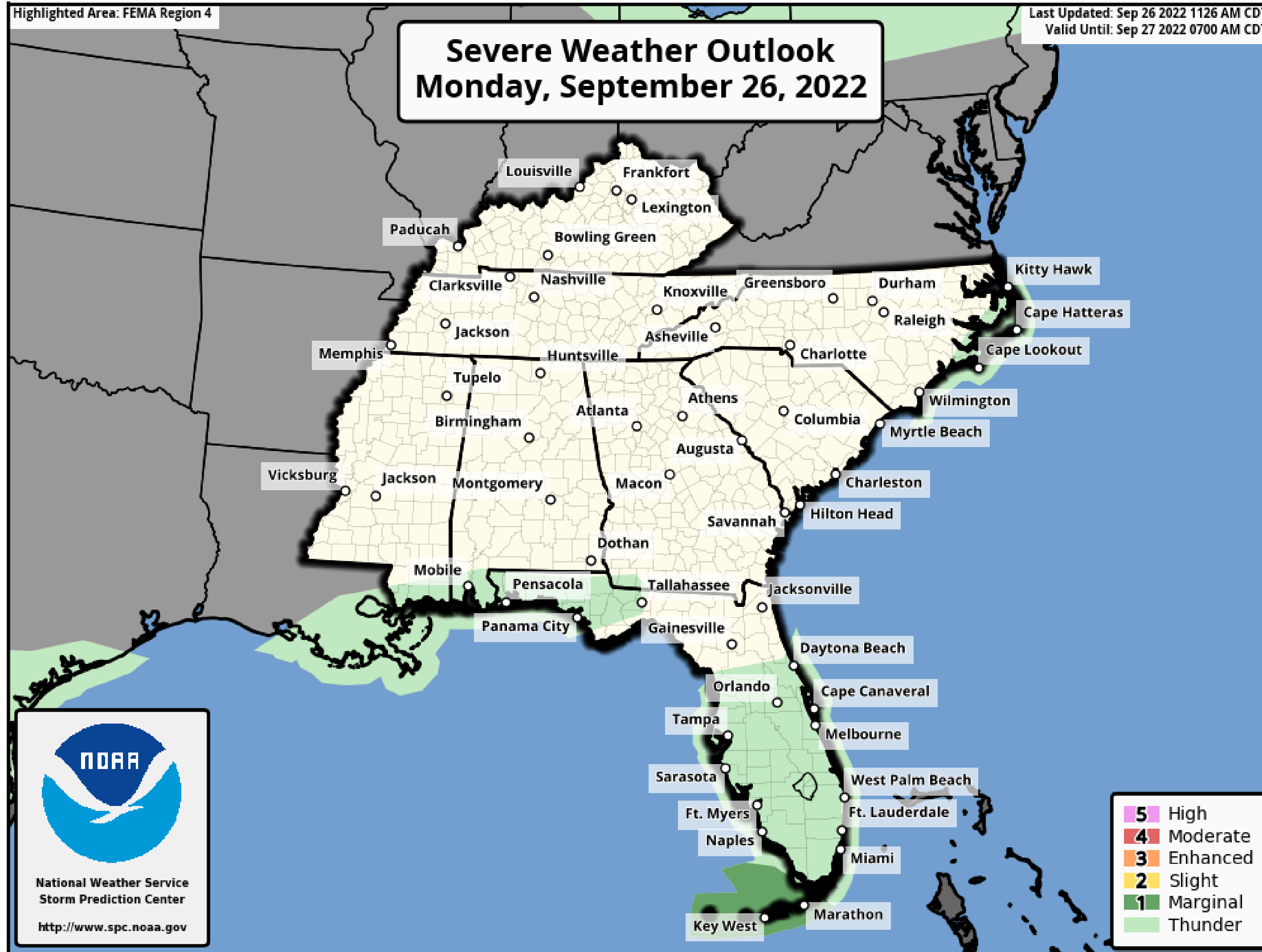
Tornado Outlook – Day 1

Hurricane Ian

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center



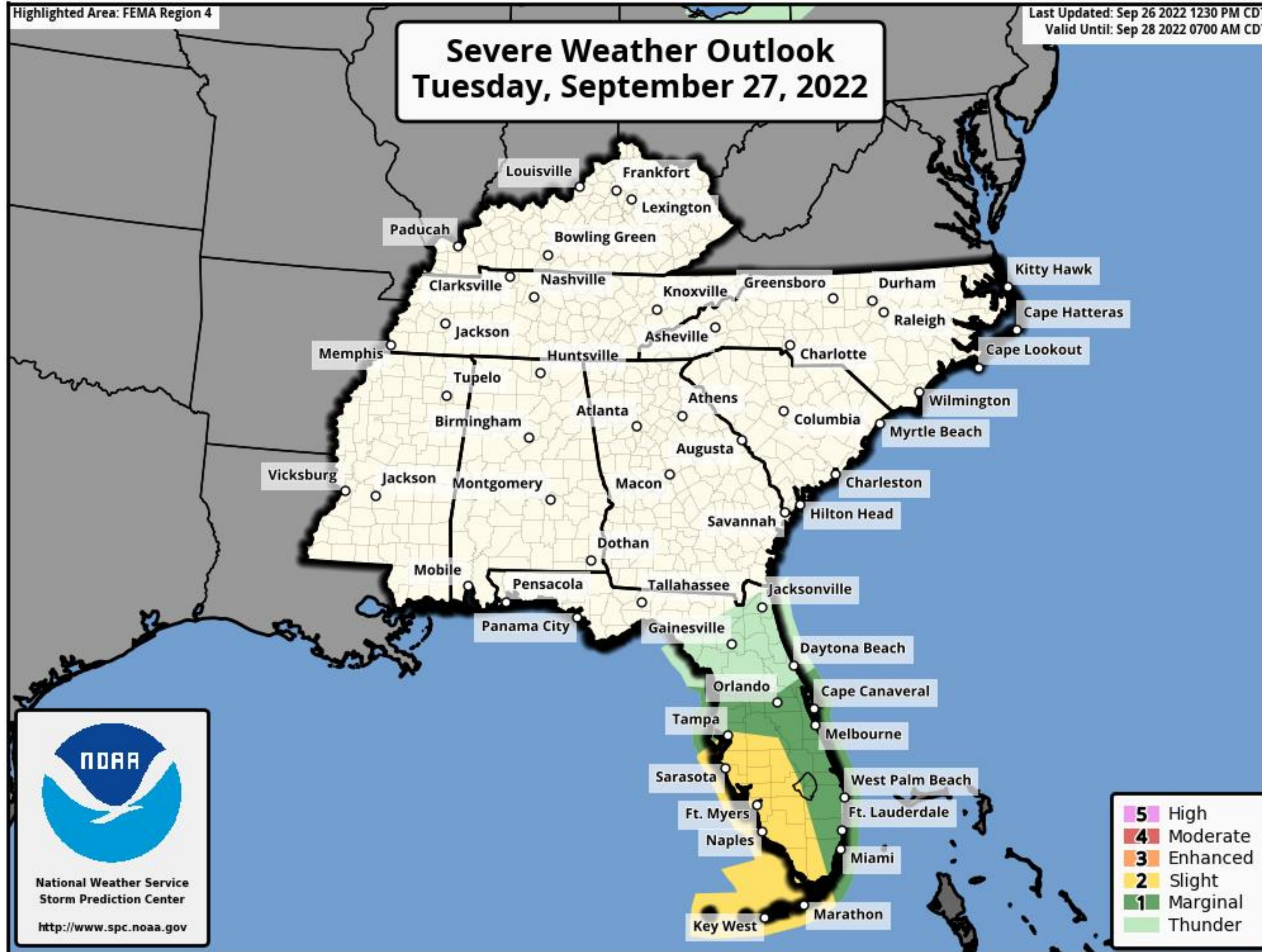
Tornado Outlook – Day 2

Hurricane Ian

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch
NWS National Hurricane Center

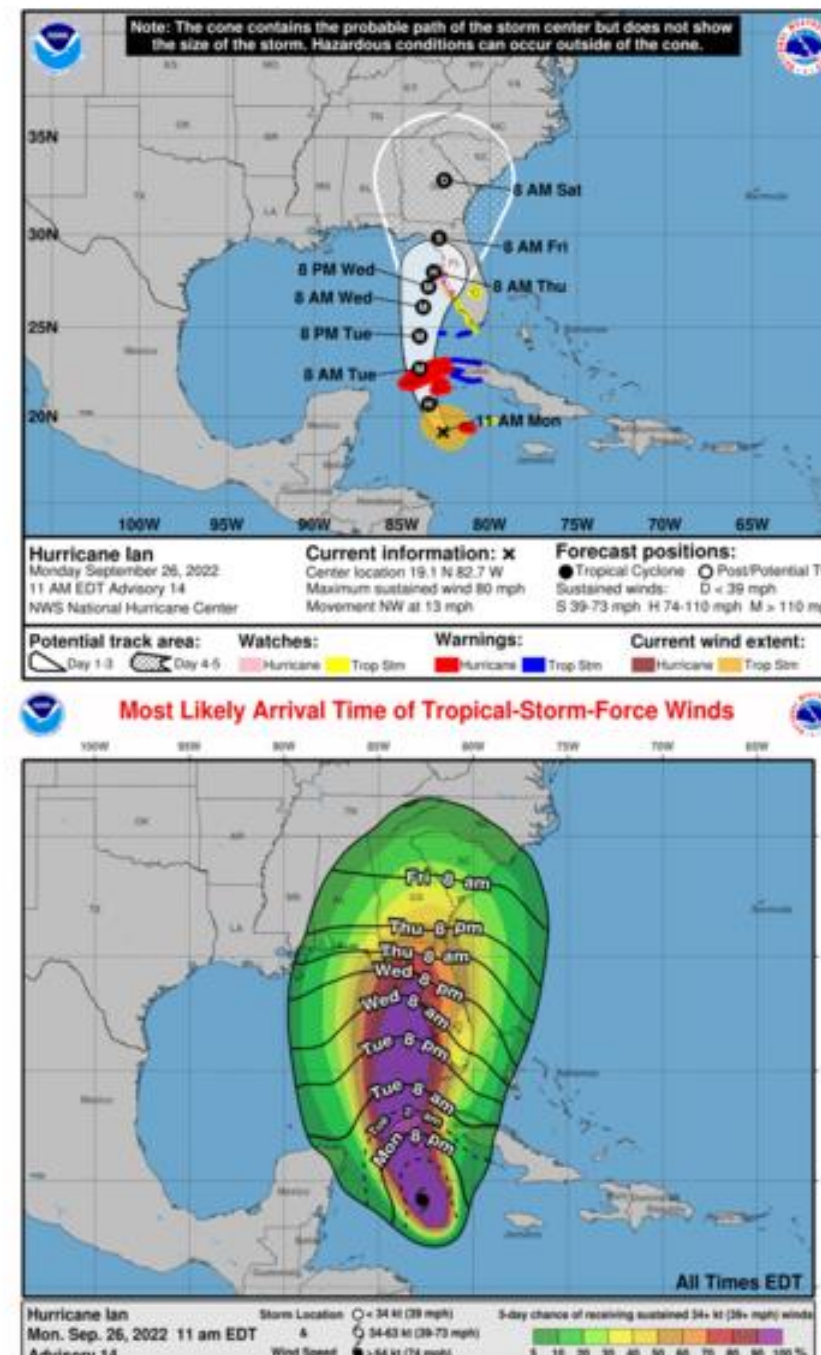




Key Messages for Hurricane Ian
Advisory 14: 11:00 AM EDT Mon Sep 26, 2022

1. Life-threatening storm surge, hurricane-force winds, flash floods and possible mudslides are expected in portions of western Cuba beginning this evening and continuing into Tuesday. Devastating wind damage is possible where the core of Ian moves across western Cuba. Efforts to protect life and property should be rushed to completion.
2. Life-threatening storm surge is possible along much of the Florida west coast, with the highest risk from Fort Myers to the Tampa Bay region. Residents in these areas should listen to advice given by local officials.
3. Hurricane-force winds are possible in the hurricane watch area in west-central Florida beginning Wednesday morning with tropical storm conditions possible by late Tuesday. Residents in this area should ensure that they have their hurricane plan in place.
4. Heavy rainfall will increase across the Florida Keys and south Florida Tuesday, spreading to central and northern Florida Wednesday and Thursday, potentially causing flash, urban and small stream flooding. Significant prolonged river flooding is likely across central Florida.

For more information go to hurricanes.gov



The graphic contains two maps. The top map shows the storm's track from Monday to Saturday, with a cone of uncertainty. The bottom map shows the 'Most Likely Arrival Time of Tropical-Storm-Force Winds' over the Florida peninsula, with color-coded areas indicating the time of arrival from Monday to Thursday.

Marine Key Messages:

- Peak seas are currently near 27 ft in the NW Caribbean

Gulf of Mexico

- Once Ian emerges off the Cuba coast, seas are expected to build to near 35 ft in the eastern Gulf on Tue night and Wed
- Expect seas to drop below 12 ft late in the week with conditions improving by the weekend

SW N Atlantic (off the Florida coast)

- Seas will build to near 20 ft on Thu and into Thu night
- Seas will improve by the weekend



HURRICANE IAN BRIEFING

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

*The Next Briefing Will Be:
Tuesday 9:00 AM EDT*

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



NHC_TAFB

www.nhc.noaa.gov