IMPACTS FOR D7 (through next 5 days)

Winds – Extreme

**Storm Surge – Extreme** 

Rainfall/Flash Flooding - Extreme

**Tornadoes – Medium** 

Waves - Extreme

## HURRICANE IAN BRIEFING



4:00 PM EDT

Tuesday, September 27, 2022

Prepared by:

Chris Landsea

Tropical Analysis and Forecast Branch NWS National Hurricane Center



### Situation Overview

#### Hurricane lan



### Surface Wind Field of Hurricane Ian Vinds as of 200 PM EDT Tue Sep 27, 2022 Advisory Number 18A Jacksonville 80W 7 Warnings: Sustained \ Hurricane Warning Hurricane Fo Tropical Storm Warning Tropical Stor 9/27/2022 3:16 PM CUBA

# ...HURRICANE IAN GROWING STRONGER IN THE SOUTHEASTERN GULF OF MEXICO...

SUMMARY OF 300 PM EDT... 1900 UTC...INFORMATION

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LOCATION...23.7N 83.3W
ABOUT 220 NM S OF SARASOTA FLORIDA
MAXIMUM SUSTAINED WINDS... 105 KT
PRESENT MOVEMENT...N AT 9 KT
PEAK SEAS 20 FT

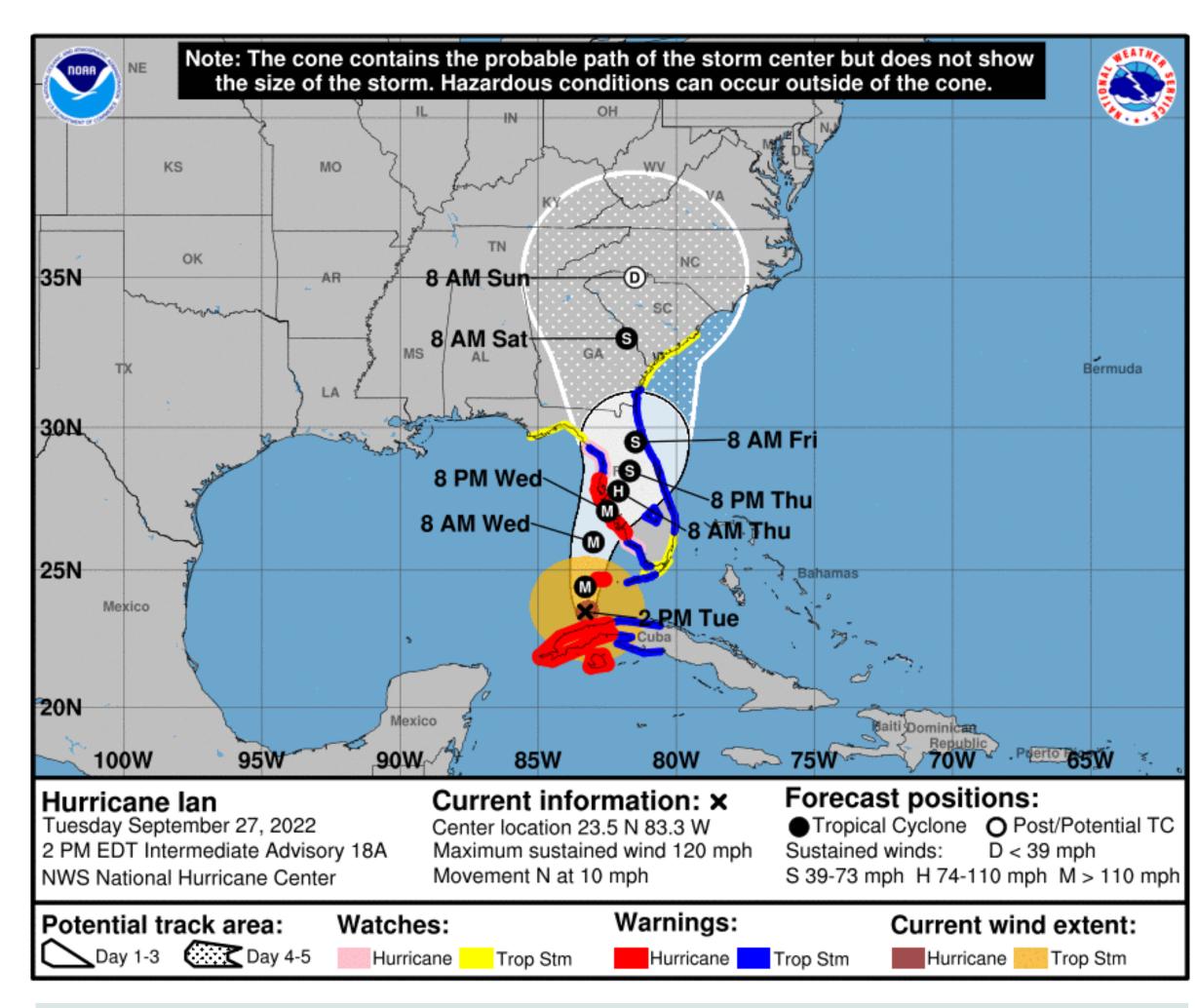
SIZE

64 KT..... 30NE 25SE 20SW 20NW. 50 KT..... 60NE 60SE 50SW 60NW. 34 KT..... 120NE 120SE 100SW 120NW. 12 FT SEAS.. 75NE 180SE 60SW 90NW.

### Forecast Information

#### Hurricane lan

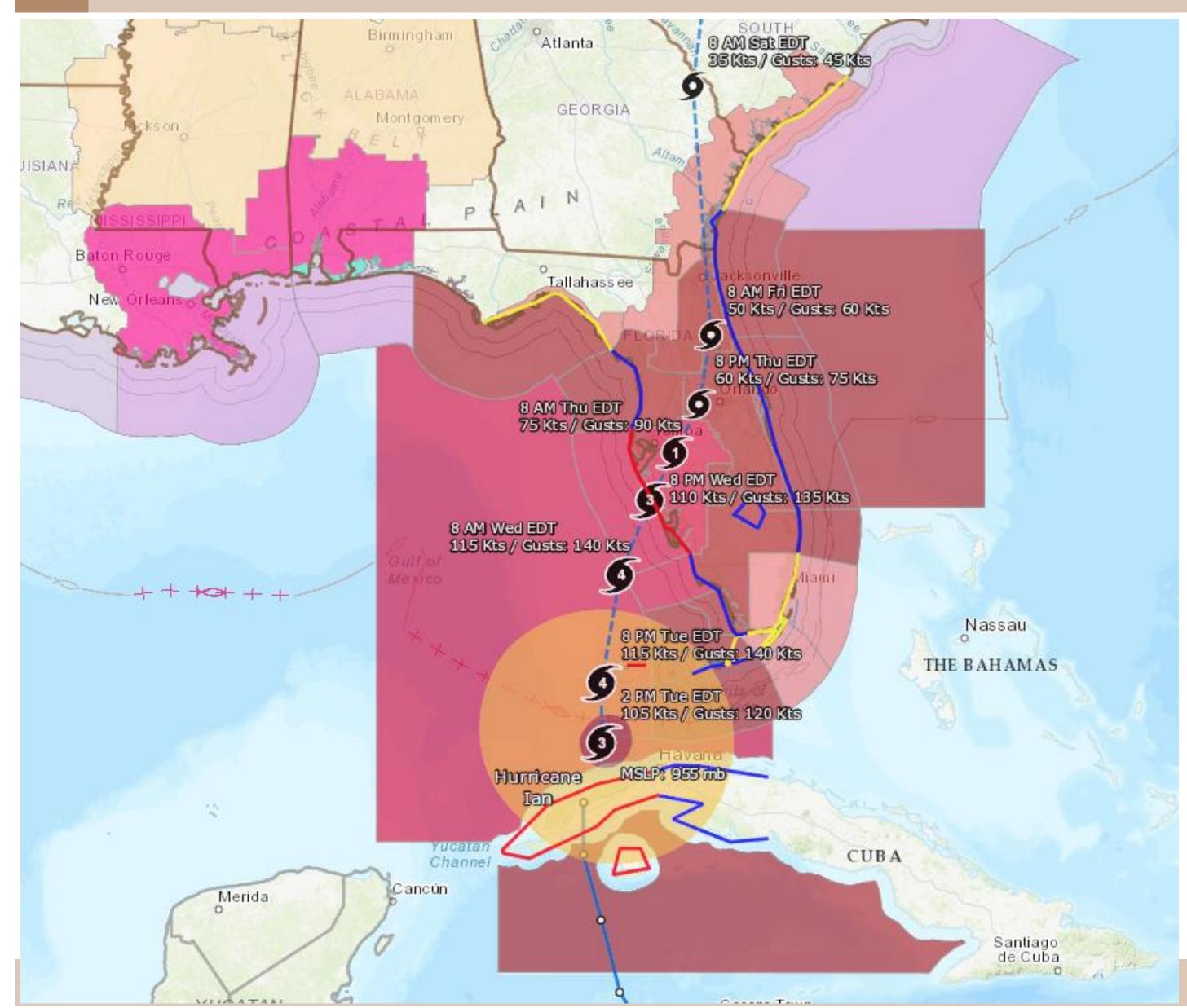




**NOTE:** Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- Ian will continue toward the north with a slightly slower forward speed today, then turn NNE while slowing down even more on Wednesday
- Ian is expected to make landfall along the west coast of Florida peninsula between Ft. Myers and Tampa
- Track confidence is growing in the first 36 hours, although the roughly-parallel track makes it difficult to pinpoint exactly which areas will experience the most severe impacts
- lan is expected to slow down as it nears the west-central Florida coast – this would prolong the storm surge, wind, rainfall, and wave 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 swatch 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.





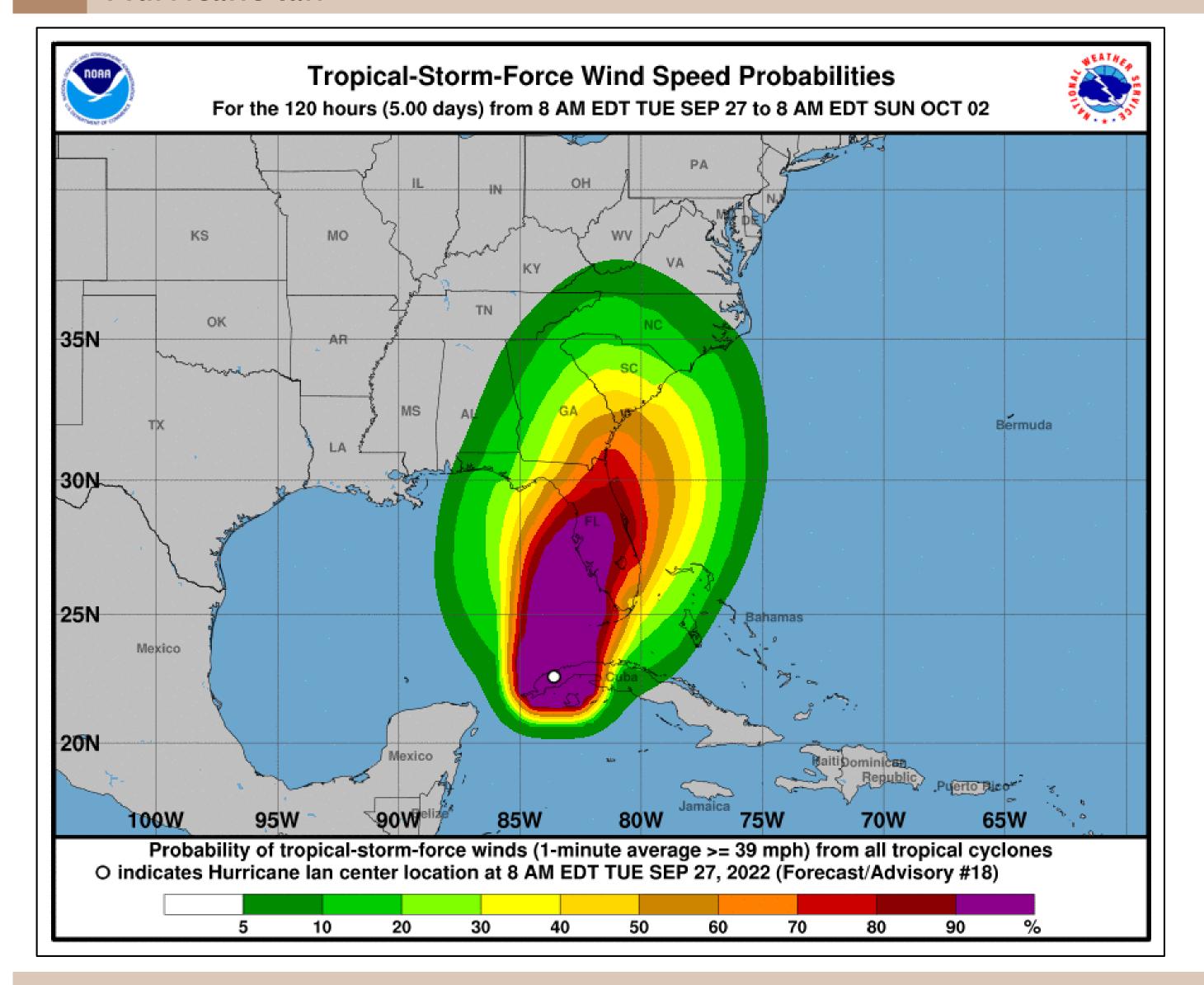
https://nowcoast.noaa.gov/

### T.S. Wind Speed Probabilities

#### Hurricane lan



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- **KEY WEST FL 95%**
- NAPLES FL 100%
- FT MYERS FL 95%
- VENICE FL 100%
- **TAMPA FL 95**%
- **CEDAR KEY 75%**

- COLUMBIA 30%
- CHARLESTON 50%
- **BEAUFORT 55%**
- **SAVANNAH 55%**
- KINGS BAY 75%
- **MAYPORT 75%**
- JACKSONVILLE 70%
- **DAYTONA BEACH 80%**
- **COCOA BEACH 85%**
- PATRICK AFB 85%
- FT PIERCE 80%
- W PALM BEACH 70%
- FT. LAUDERDALE 65%
- MIAMI FL 50%
- HOMESTEAD ARB 50%
- MARATHON FL 75%
- 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

#### Hurricane lan

10

20

30

40

50

60





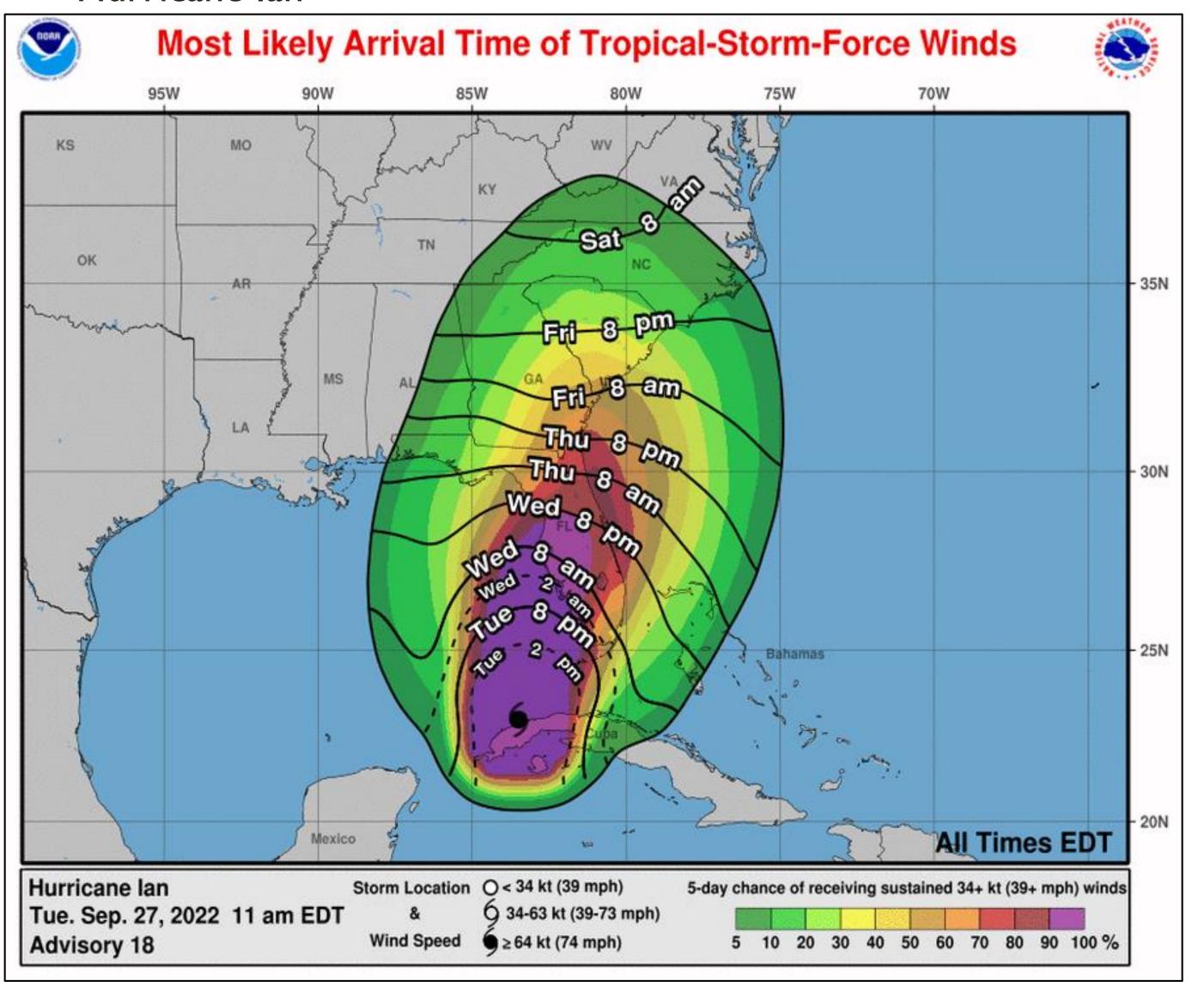
- · CHARLESTON 10%
- BEAUFORT 15%
- **KINGS BAY 20%**
- MAYPORT 25%
- IACKSONVILLE 10%
- DAYTONA BEACH 20%
- COCOA BEACH 25%
- PATRICK AFB 25%
- NAPLES 30%
- FT MYERS 40%
- VENICE 70%
- TAMPA 45%
- CEDAR KEY 15%
- Probabilities of sustained hurricane force winds (64 kt +) over the next 5 days, based 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.

9/27/2022 3:16 PM www.nhc.noaa.gov

70

80

90



- Ft. Myers/Sarasota Tonight
- Tampa to Ft. Lauderdale Wednesday morning
- Big Bend to Daytona Beach/Jacksonville Thursday morning
- Georgia coast Thursday 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.

### **MOST LIKELY**

- KEY WEST FL Wednesday afternoon
- NAPLES FL Thursday morning
- FT MYERS FL Thursday morning
- VENICE FL Thursday afternoon
- TAMPA FL Thursday night
- CEDAR KEY Friday morning

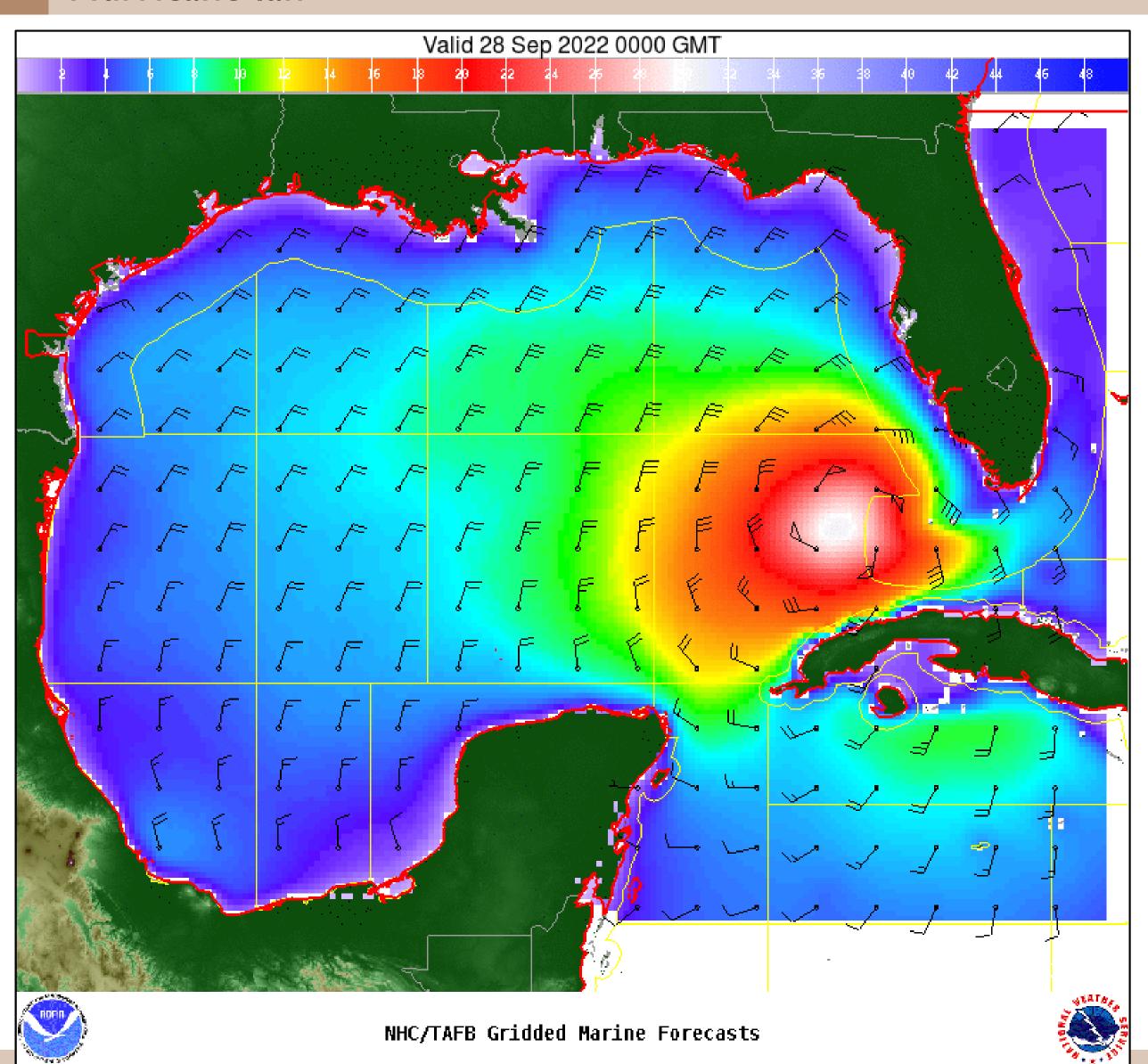
### LATEST REASONABLE

- KEY WEST FL Thursday afternoon
- NAPLES FL Friday morning
- FT MYERS FL Friday morning
- VENICE FL Friday afternoon
- TAMPA FL Friday afternoon
- CEDAR KEY Friday night

Times locally when sustained winds diminish below tropical storm force (34+ kt)

#### Hurricane lan





This Evening's Forecast

8pm EDT Tuesday September 27th

Peak Winds: 105 kt

Peak Seas: 22 ft

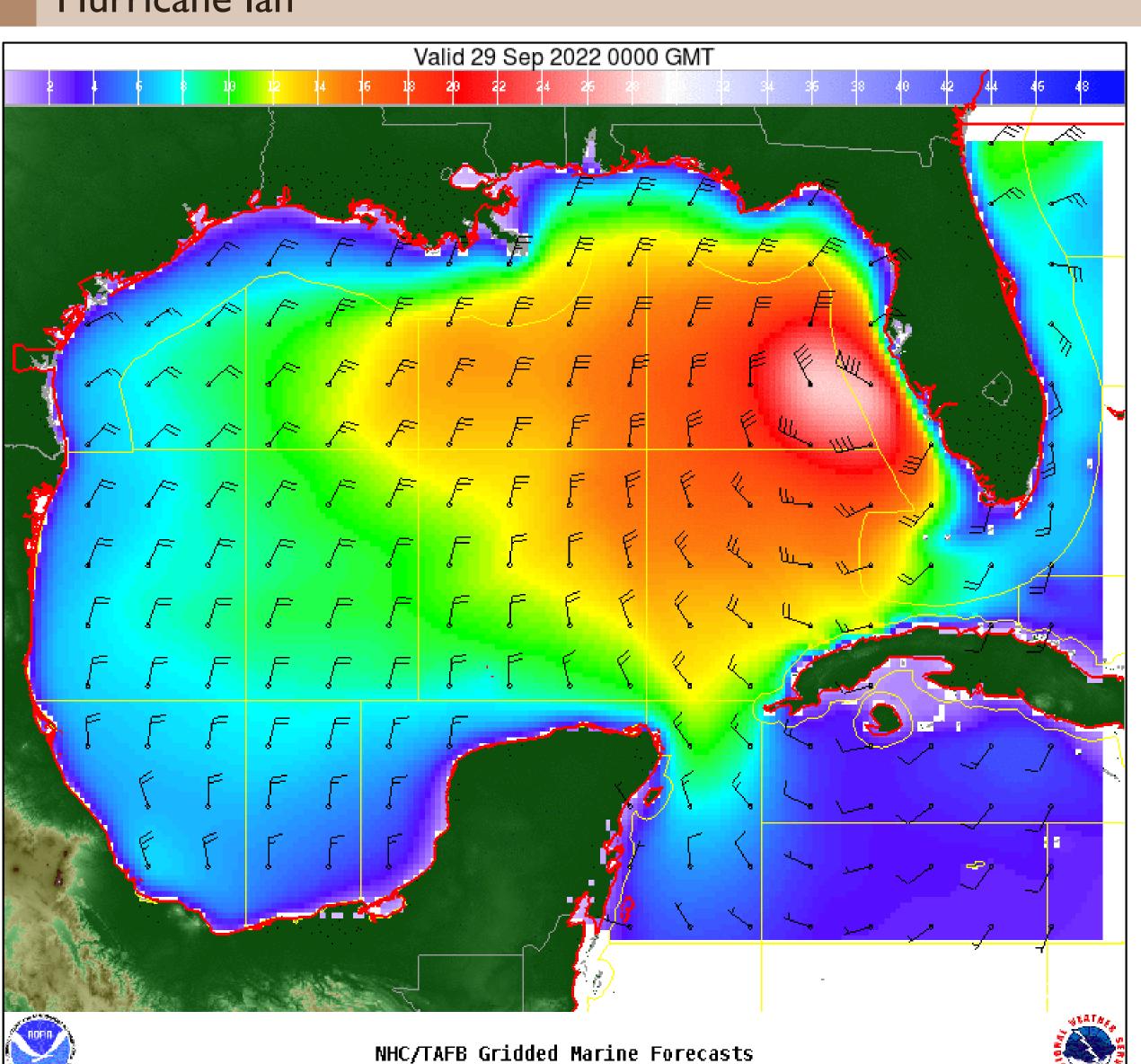
Wave heights are in feet



#### Hurricane lan



Tropical Analysis and Forecast Branch NWS National Hurricane Center



24 Hour Forecast

8pm EDT Wednesday, September 28th

Peak Winds: I 10 kt

Peak Seas: 23 ft

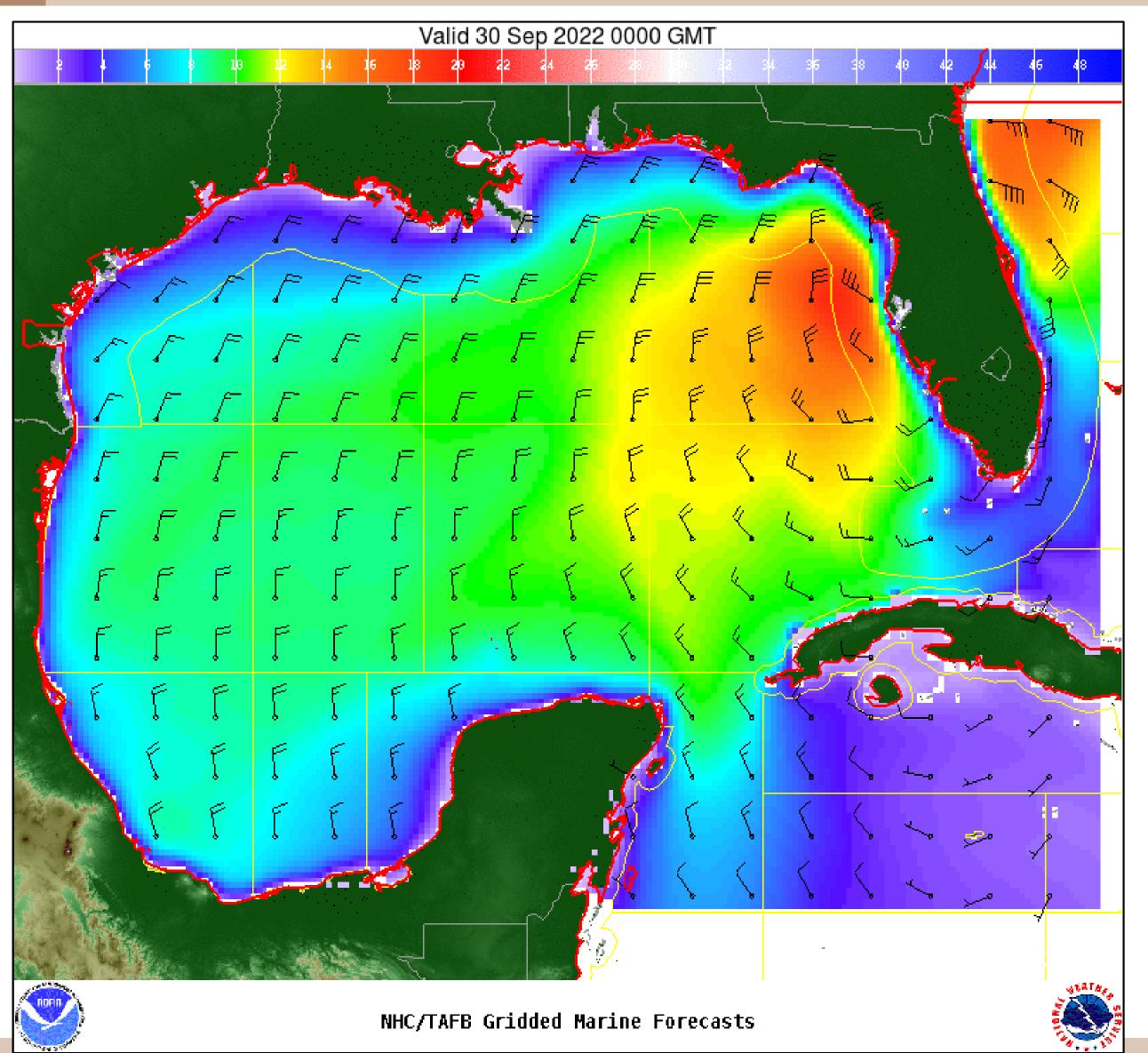
### Wave heights are in feet



#### Hurricane lan



Tropical Analysis and Forecast Branch NWS National Hurricane Center



48 Hour Forecast

8pm EDT Thursday September 29th

Peak Winds: 60 kt

Peak Seas: 23 ft (in Gulf of Mexico)

Wave heights are in feet

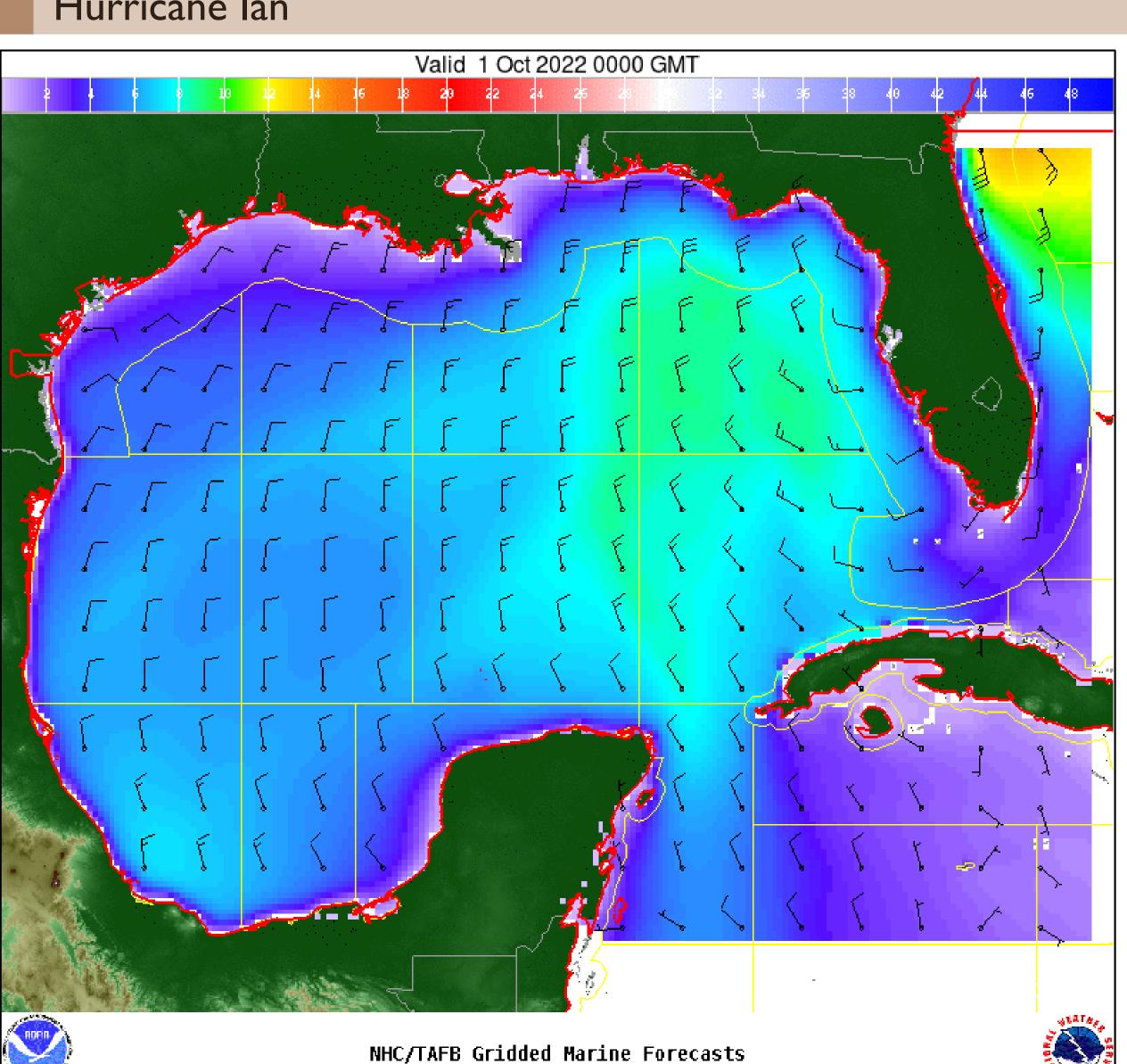


Significant Wave Height (ft)

### Hurricane lan



Tropical Analysis and Forecast Branch NWS National Hurricane Center



72 Hour Forecast

8pm EDT Friday September 30th

Peak Winds: 30 kt (in the Gulf)

Peak Seas: 10 ft (in the Gulf)

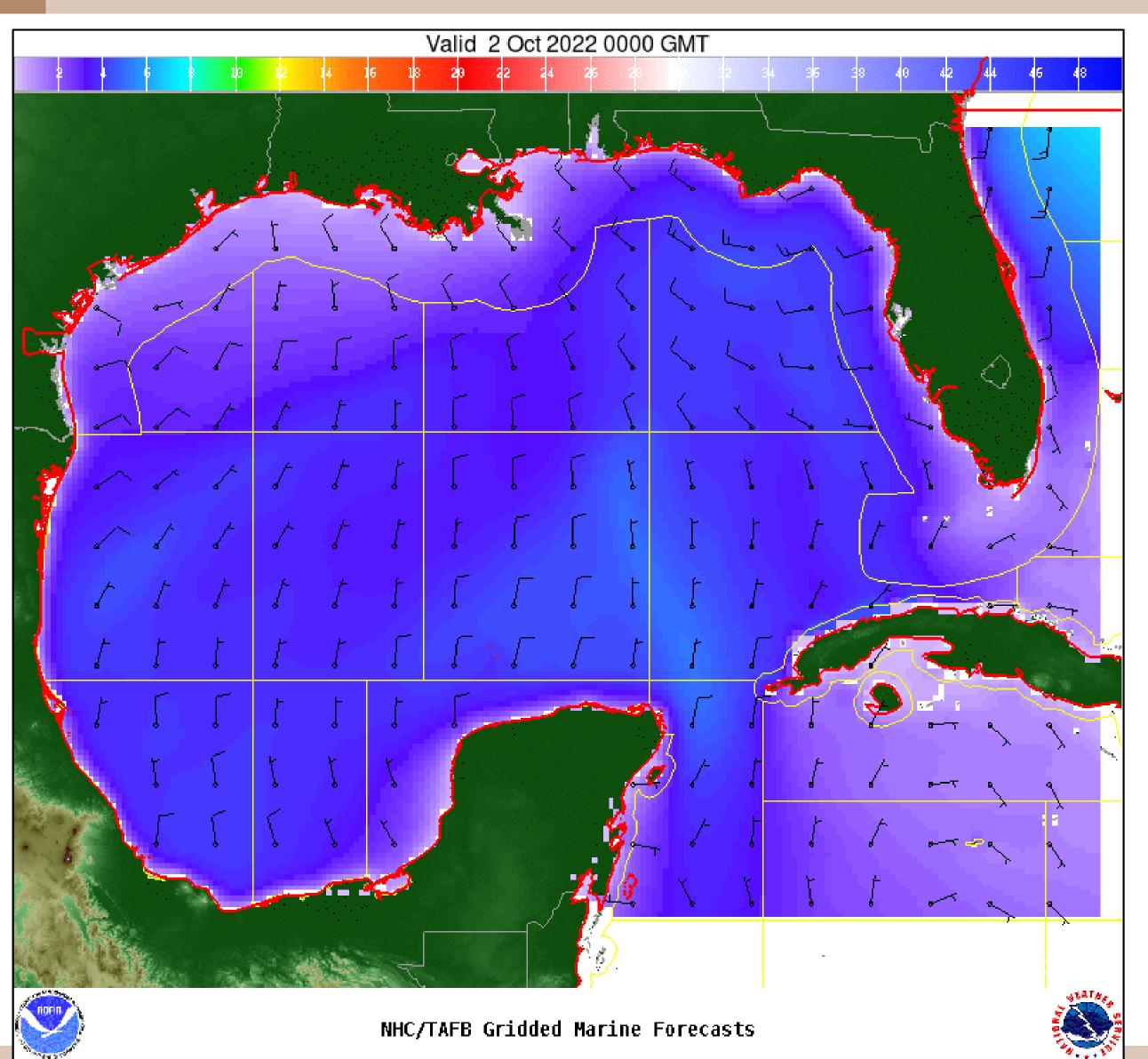
Wave heights are in feet



Significant Wave Height (ft)

#### Hurricane lan





96 Hour Forecast

8pm EDT Saturday October 1st

Peak Winds: 15 kt (in Gulf)

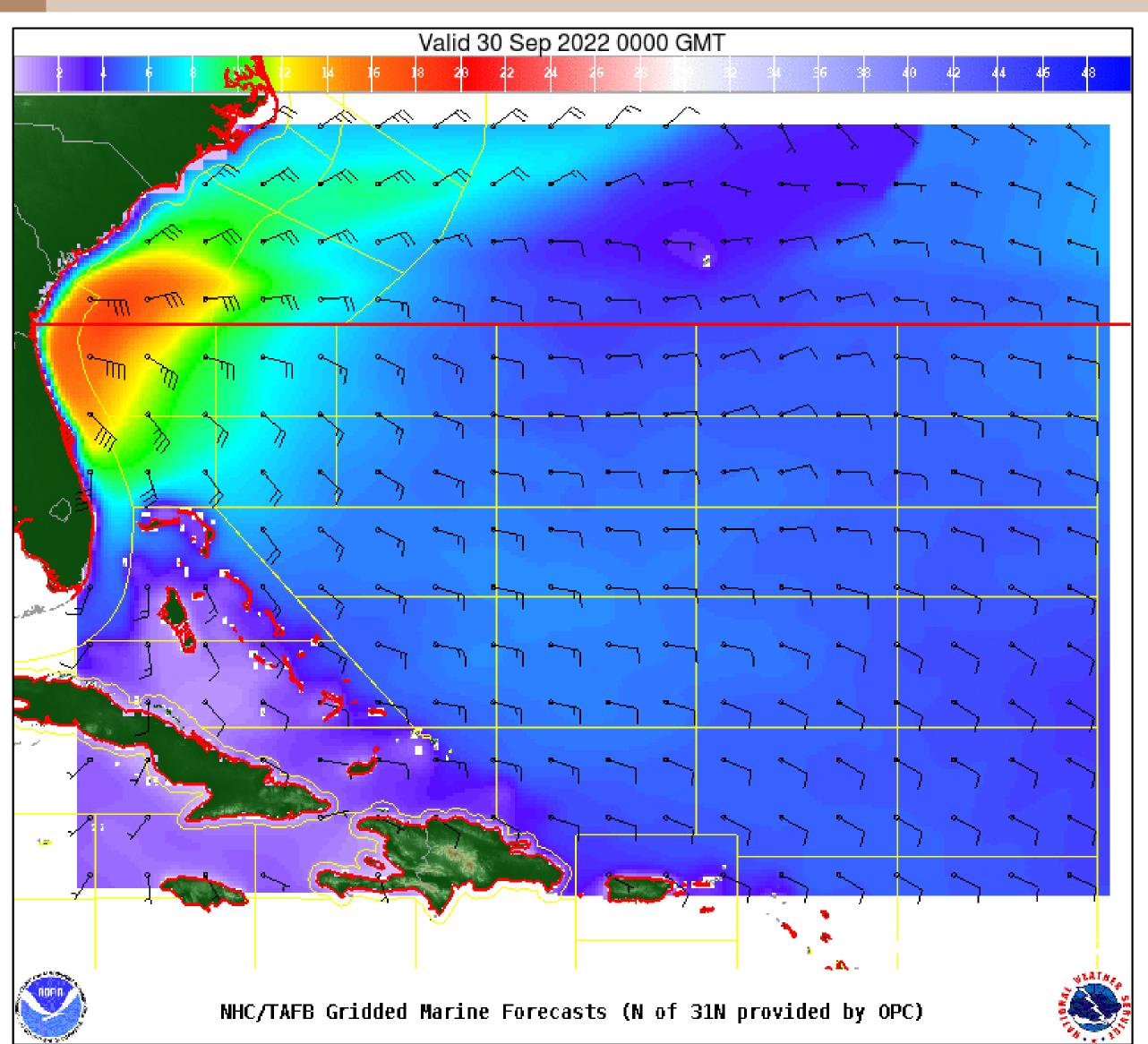
Peak Seas: 6 ft (in Gulf)

Wave heights are in feet



## Tropical Analysis and Forecast Branch NWS National Hurricane Center

#### Hurricane lan



48 Hour Forecast

8am EDT Thursday September 29

Peak Winds: 60 kt

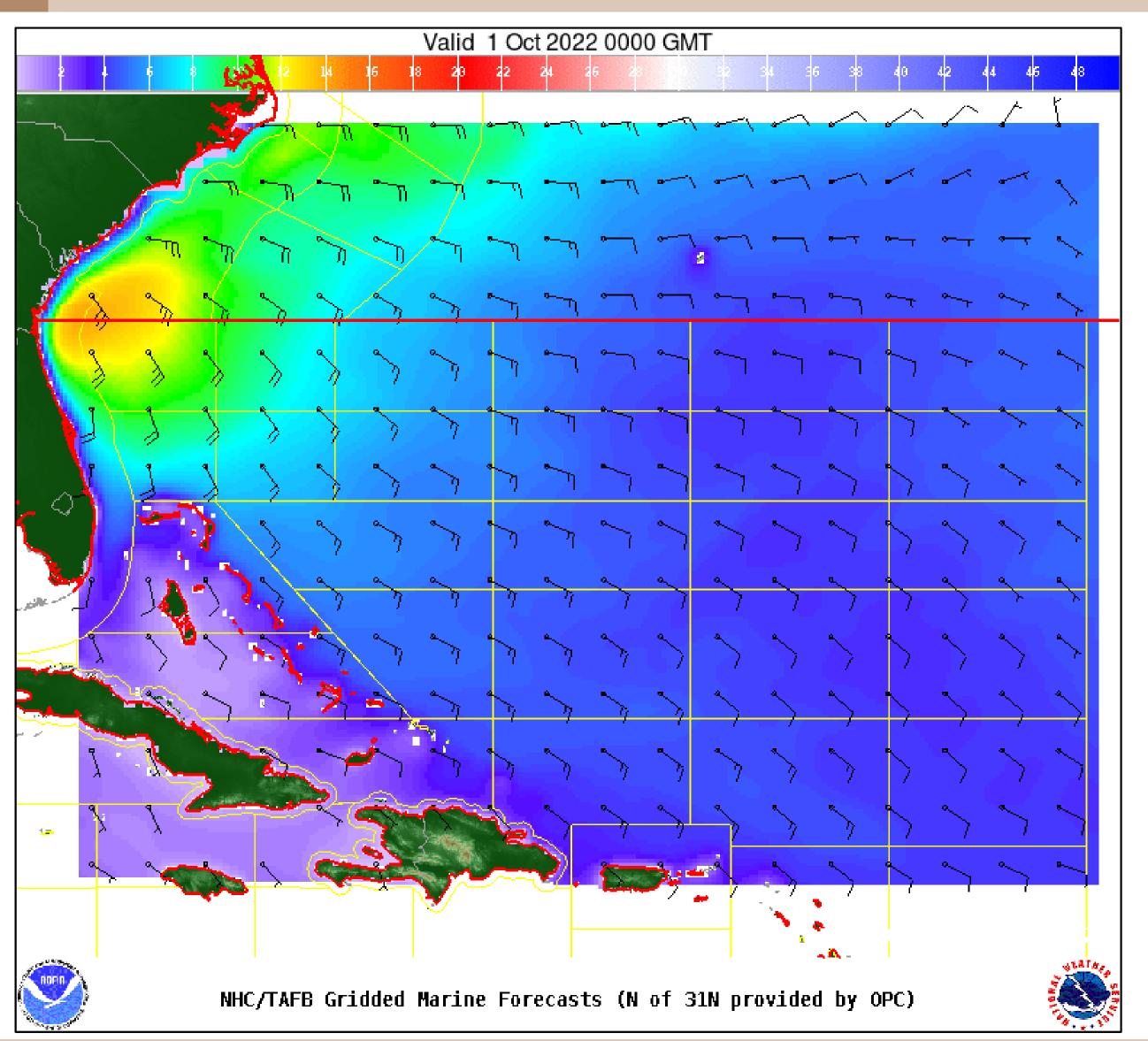
Peak Seas: 15 ft

Wave heights are in feet



## Tropical Analysis and Forecast Branch NWS National Hurricane Center

#### Hurricane lan



72 Hour Forecast

8pm EDT Friday September 30

Peak Winds: 40 kt

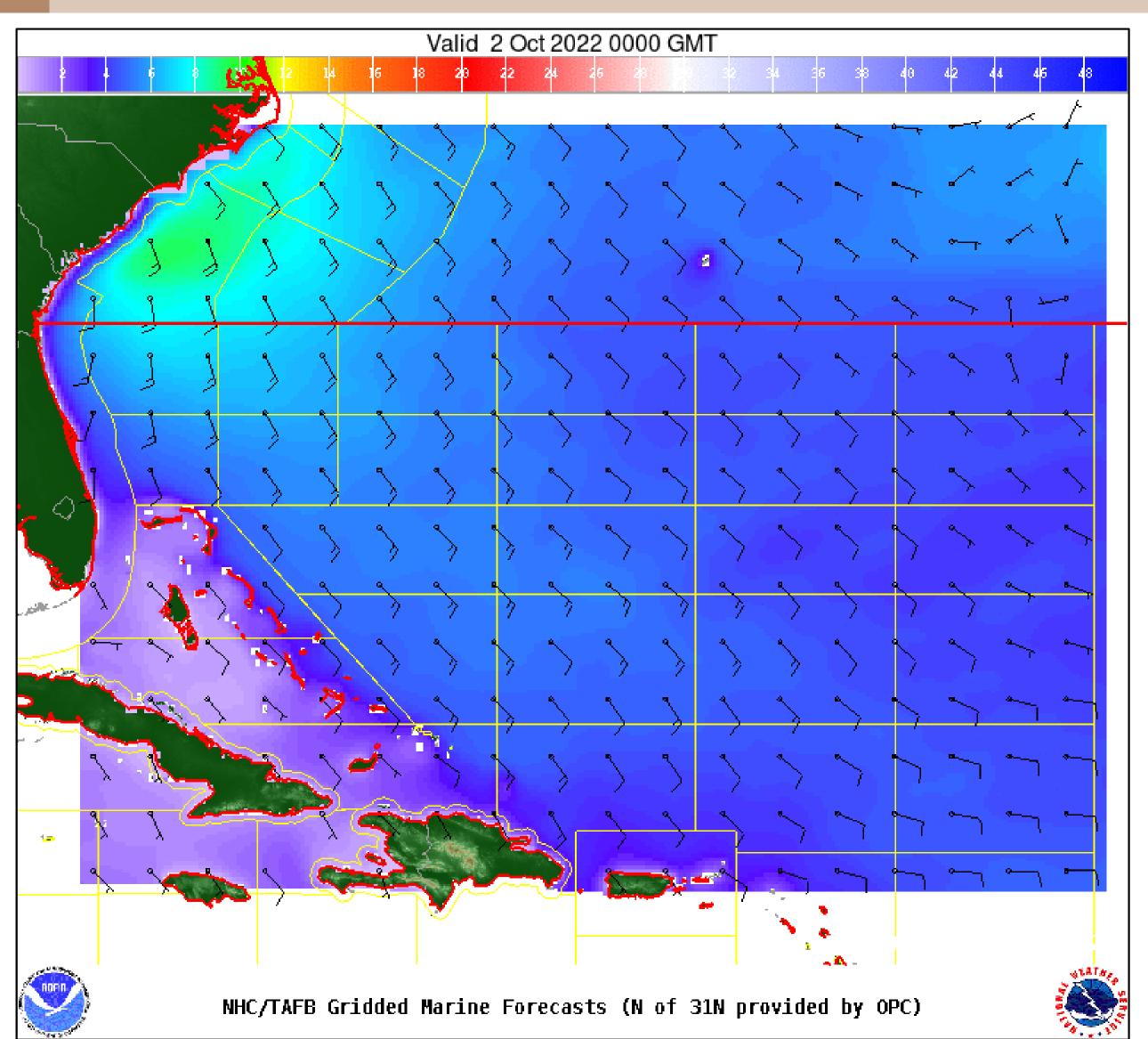
Peak Seas: 13 ft

Wave heights are in feet



## Tropical Analysis and Forecast Branch NWS National Hurricane Center

#### Hurricane lan



96 Hour Forecast

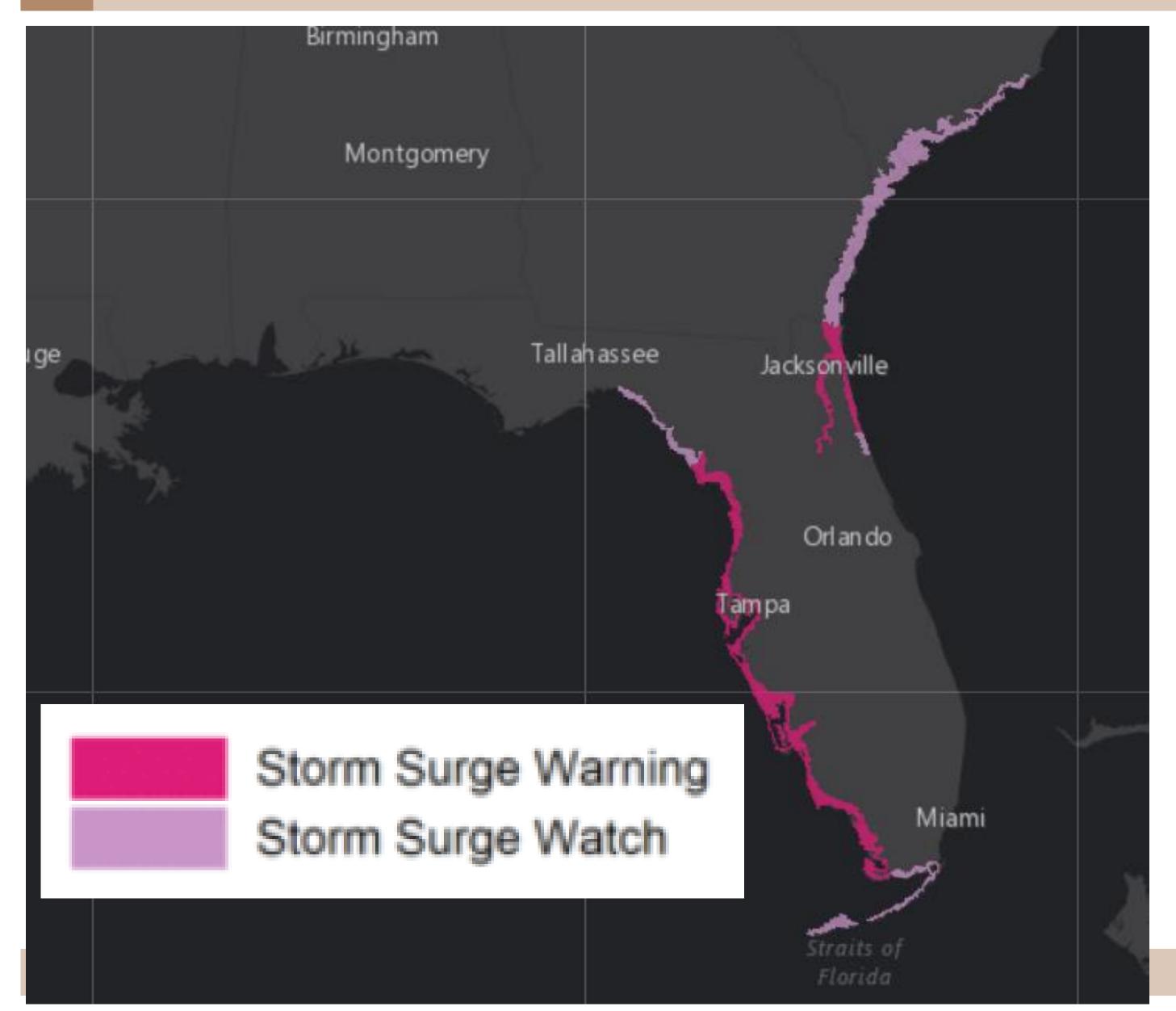
8pm EDT Saturday October 1st

Peak Winds: 30 kt

Peak Seas: 10 ft

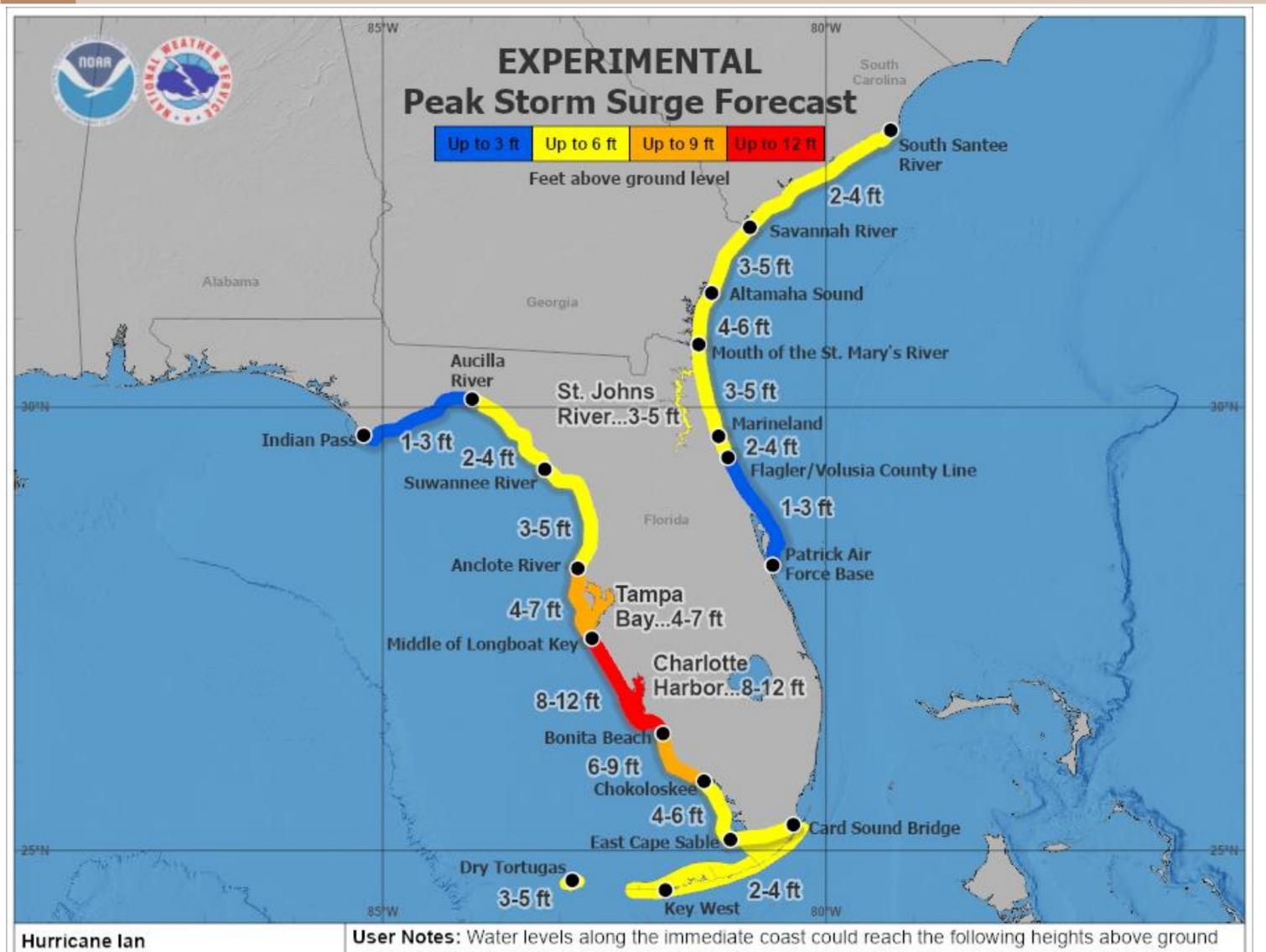
Wave heights are in feet





## Storm Surge Warning is in effect for...

- \* Suwanee River southward to Flamingo including Tampa Bay and Charlotte Harbor
- \* Dry Tortugas
- \* Marineland to the mouth of the St. Mary's River including the St. Johns River



- Potential storm surge is represented in feet above the ground at any given point.
- The values shown represent the peak storm surge at the immediate coast line.

User Notes: Water levels along the immediate coast could reach the following heights above ground level within the indicated areas. Elevated water levels will likely be accompanied by large and destructive waves. Colors are determined by the highest values in the associated forecast peak surge range. Values shown on this graphic are inclusive of tide.

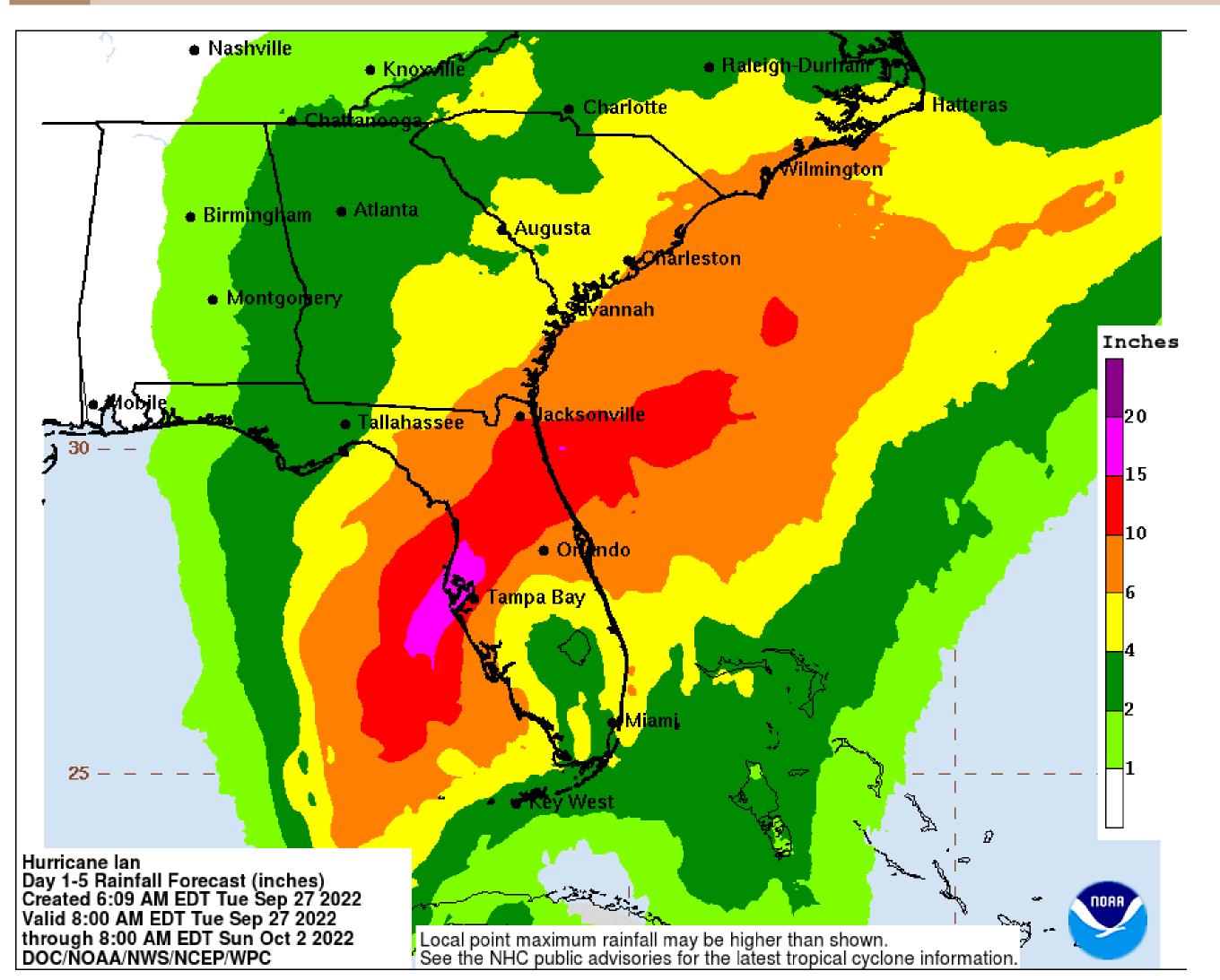
### Expected Storm Total Rainfall and Chance of Rainfall Flooding

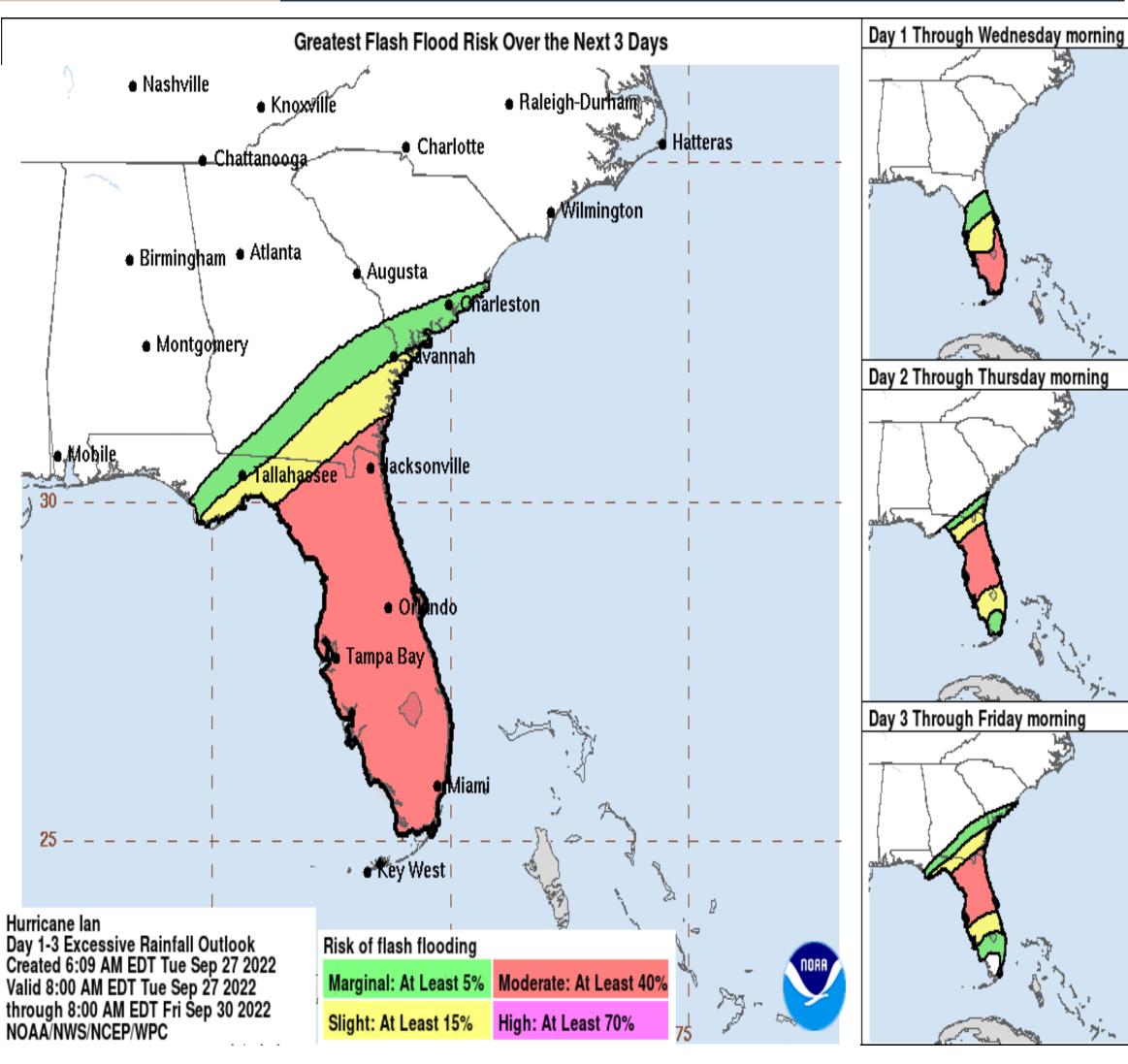
WEATHER SERVICE

### Tropical Analysis and Forecast Branch NWS National Hurricane Center

Hurricane lan

### Images from NWS Weather Prediction Center





Valid through Sunday morning

Valid through Friday morning

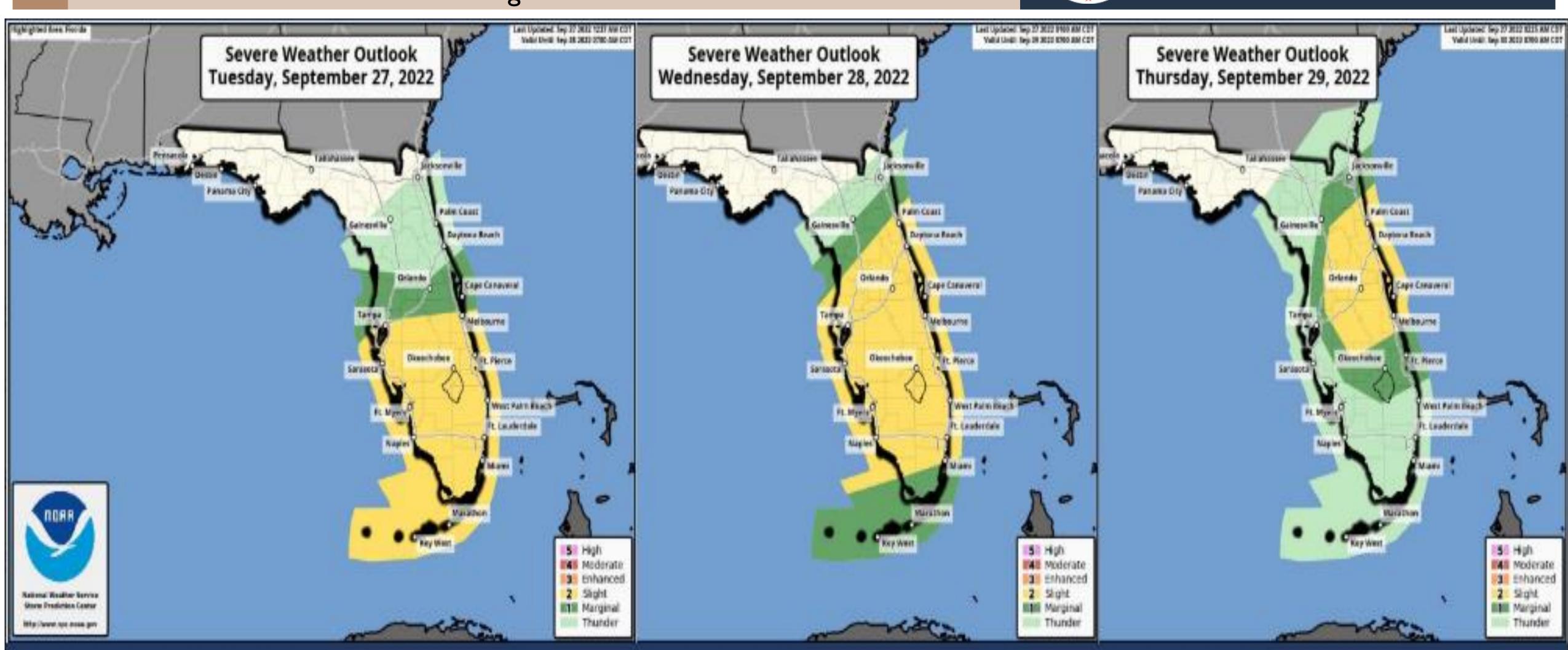
### Tornado Outlook

Hurricane lan

Image from NWS Storm Prediction Center



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Potential for Several Tornadoes in the area in yellow





#### Key Messages for Hurricane lan Advisory 18: 11:00 AM EDT Tue Sep 27, 2022

- Life-threatening storm surge, hurricane-force winds, flash floods and possible mudslides are expected to continue in portions of western Cuba today. Devastating wind damage is expected near the core of lan.
- 2. Life-threatening storm surge looks increasingly likely along much of the Florida west coast where a storm surge warning is in effect, with the highest risk from Fort Myers to the Tampa Bay region. Residents in these areas should listen to advice given by local officials and follow evacuation orders if made for your area.
- Hurricane-force winds are expected in the hurricane warning area in southwest and west-central Florida beginning Wednesday morning with tropical storm conditions expected by this evening. Residents should rush all preparations to completion today.
- 4. Heavy rainfall will increase across the Florida Keys and south Florida today, spreading into central and northern Florida tonight and Wednesday, into the Southeast U.S. by Thursday and Friday, likely causing flash, urban, and small stream flooding. Considerable flooding is expected across central Florida into southern Georgia and coastal South Carolina, with widespread, prolonged moderate to major river flooding expected across central Florida.





For more information go to hurricanes.gov

IMPACTS FOR D7 (through next 5 days)
Winds – Extreme

Storm Surge – Extreme

Rainfall/Flash Flooding - Extreme

**Tornadoes – Medium** 

**Waves - Extreme** 

### Marine Key Messages:

- Seas in SE Gulf will build to 30-35 ft by tomorrow morning, but diminish Friday night and Saturday morning
- Seas in Atlantic offshore of Georgia/South Carolina will build to 15 ft on Thursday



## HURRICANE IAN BRIEFING

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

The Next Briefing Will Be: Wednesday 9:00 AM EDT

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