IMPACTS FOR D7 for Fred (through next 5 days)

Winds - Moderate

Storm Surge - Low

Rainfall/Flash Flooding - Moderate

Tornadoes – Low

Waves - Low

IMPACTS FOR D7 for Grace (through next 5 days)

Winds - Moderate

Storm Surge – None

Rainfall/Flash Flooding - Low

Tornadoes - None

Waves - Moderate

REMNANTS OF FRED/ TROPICAL STORM GRACE BRIEFING



9:00 AM EDT

Sunday, August 15, 2021

Prepared by:

Chris Landsea

Tropical Analysis and Forecast Branch

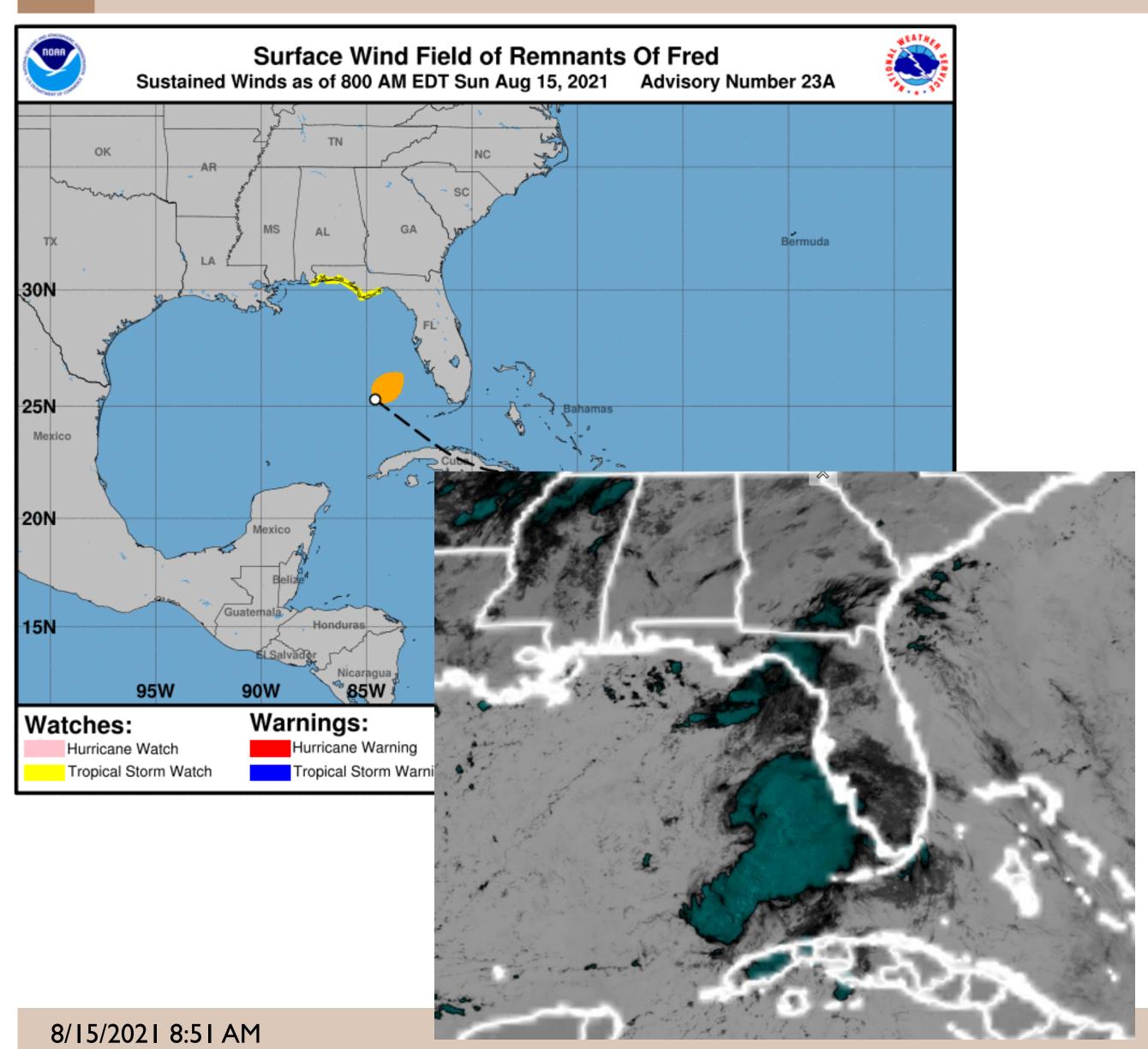
NWS National Hurricane Center



Situation Overview

Remnants of Fred





...AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT INVESTIGATING THE REMNANTS OF FRED...

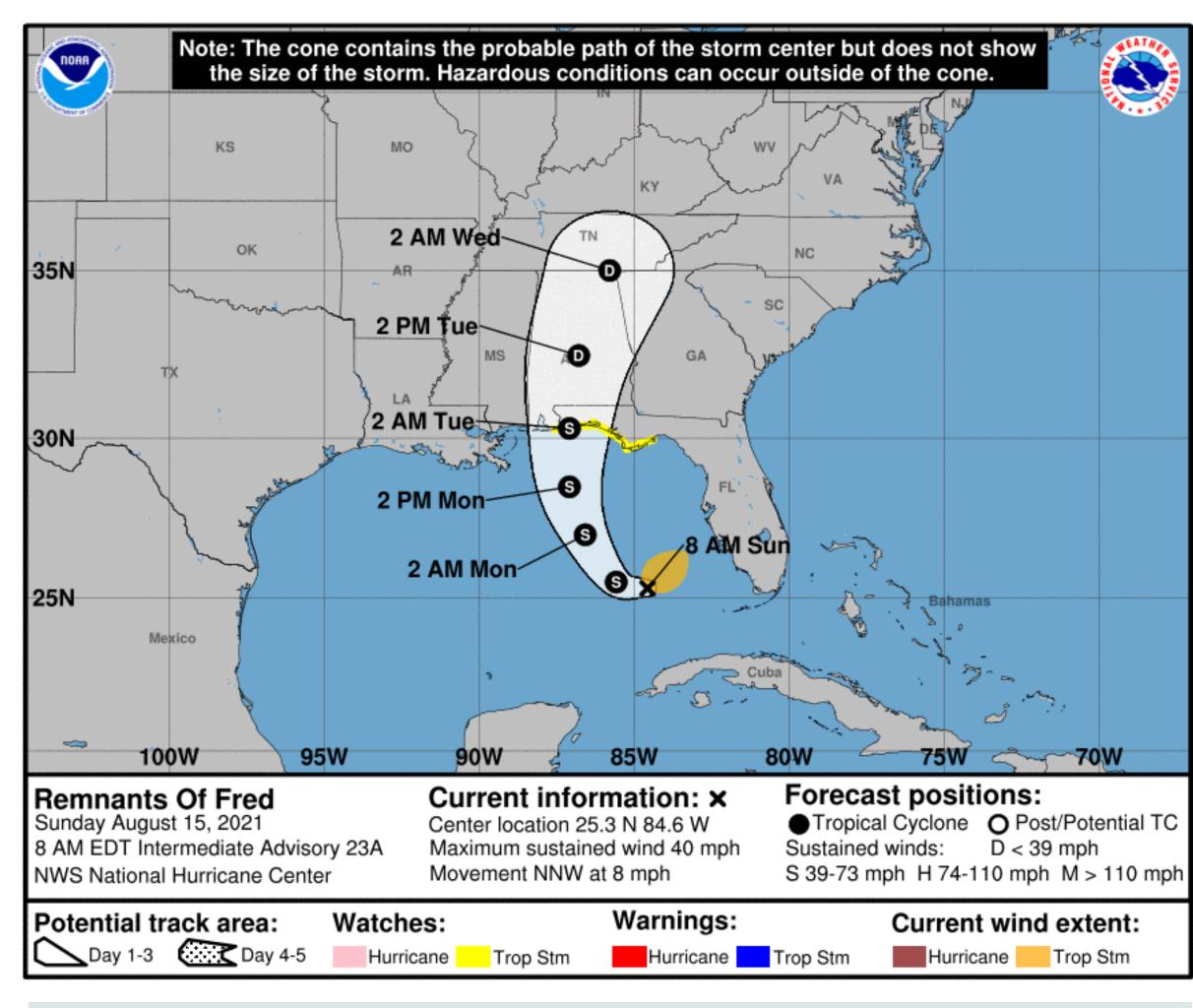
SUMMARY OF 800 AM EDT INFORMATION

LOCATION...25.3N 84.6W
ABOUT 140 NM WNW OF DRY TORTUGAS
ABOUT 330 NM SSE OF PENSACOLA FL
MAXIMUM SUSTAINED WINDS...35 KT
PRESENT MOVEMENT...NNW AT 7 KT
PEAK SEAS 10 FT
SIZE
34 KT...... 100NE 0SE 0SW 0NW

Forecast Information

Remnants of Fred





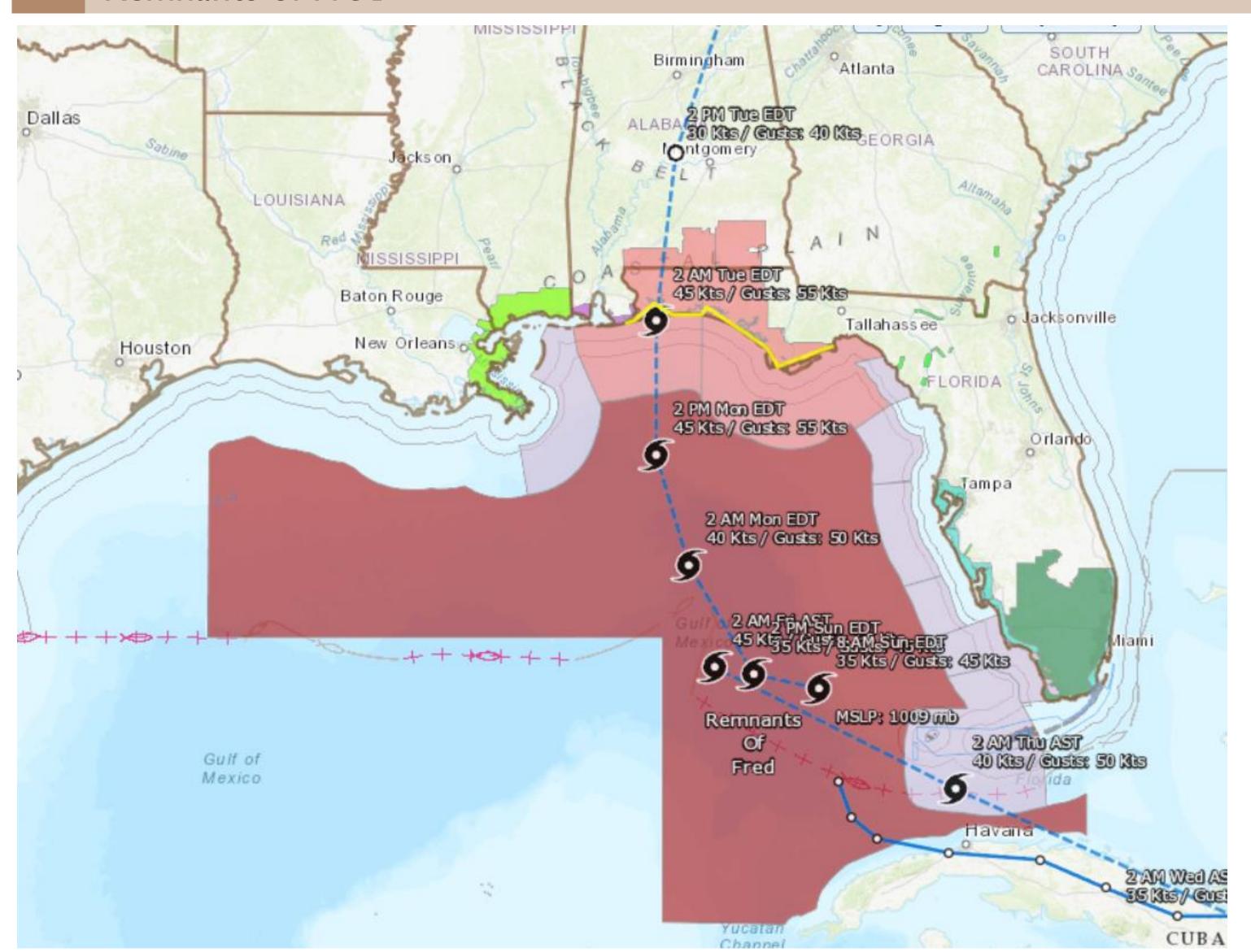
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.

- Fred is forecast to turn and accelerate toward the N by Monday
- Fred is expected to become a tropical storm later today, but not reach hurricane force
- Tropical Storm landfall along the Florida Panhandle/Alabama coast Monday night
- Current center forecast positions through the next 3 days illustrated by dots
- White swath of potential track error added to each side of the forecast track through day 3

** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Remnants of Fred



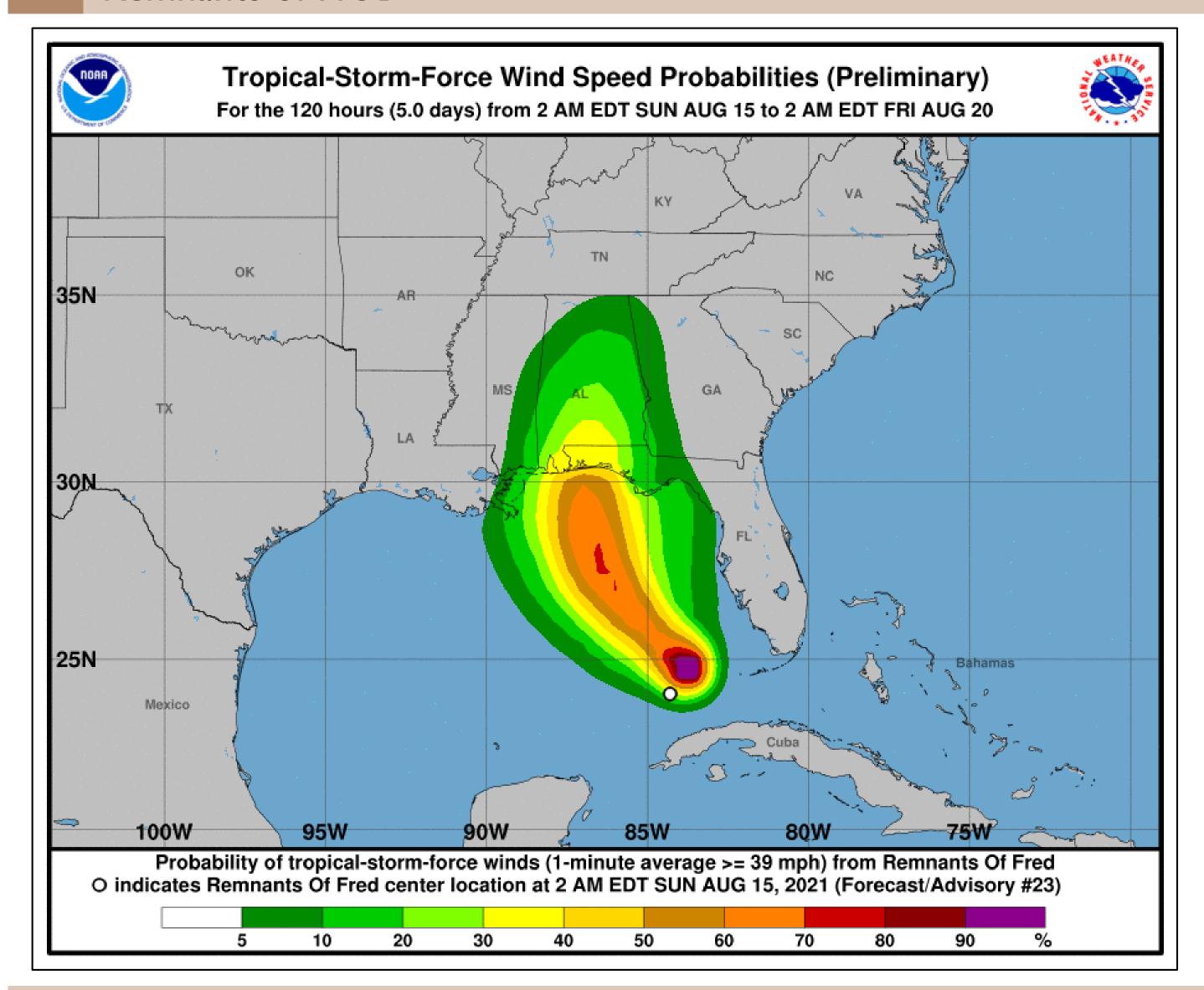


https://nowcoast.noaa.gov/

T.S. Wind Speed Probabilities

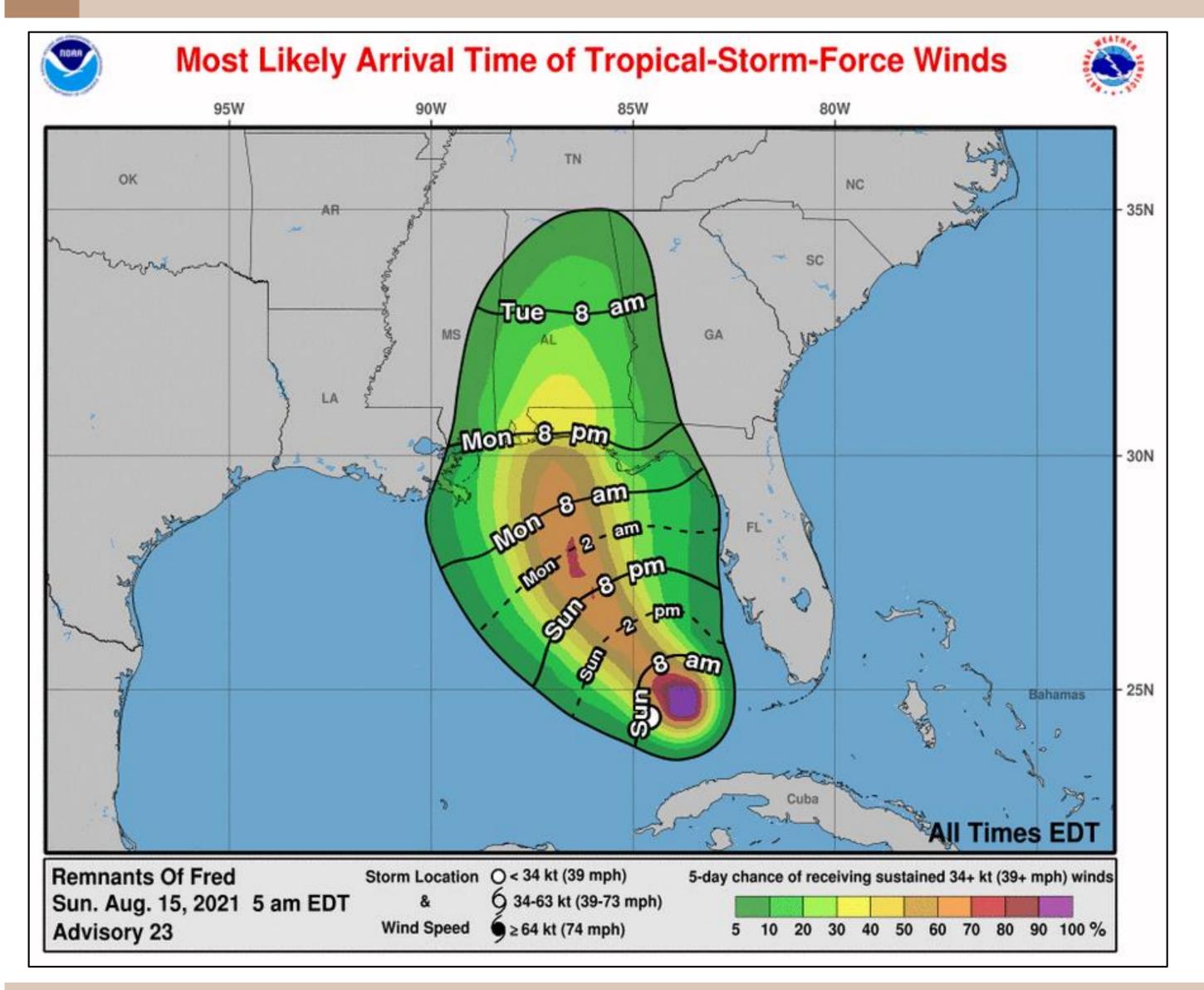
Remnants of Fred





- Apalachicola, FL 25%
- Panama City, FL 35%
- Pensacola, FL 35%
- Mobile, AL 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.

Remnants of Fred

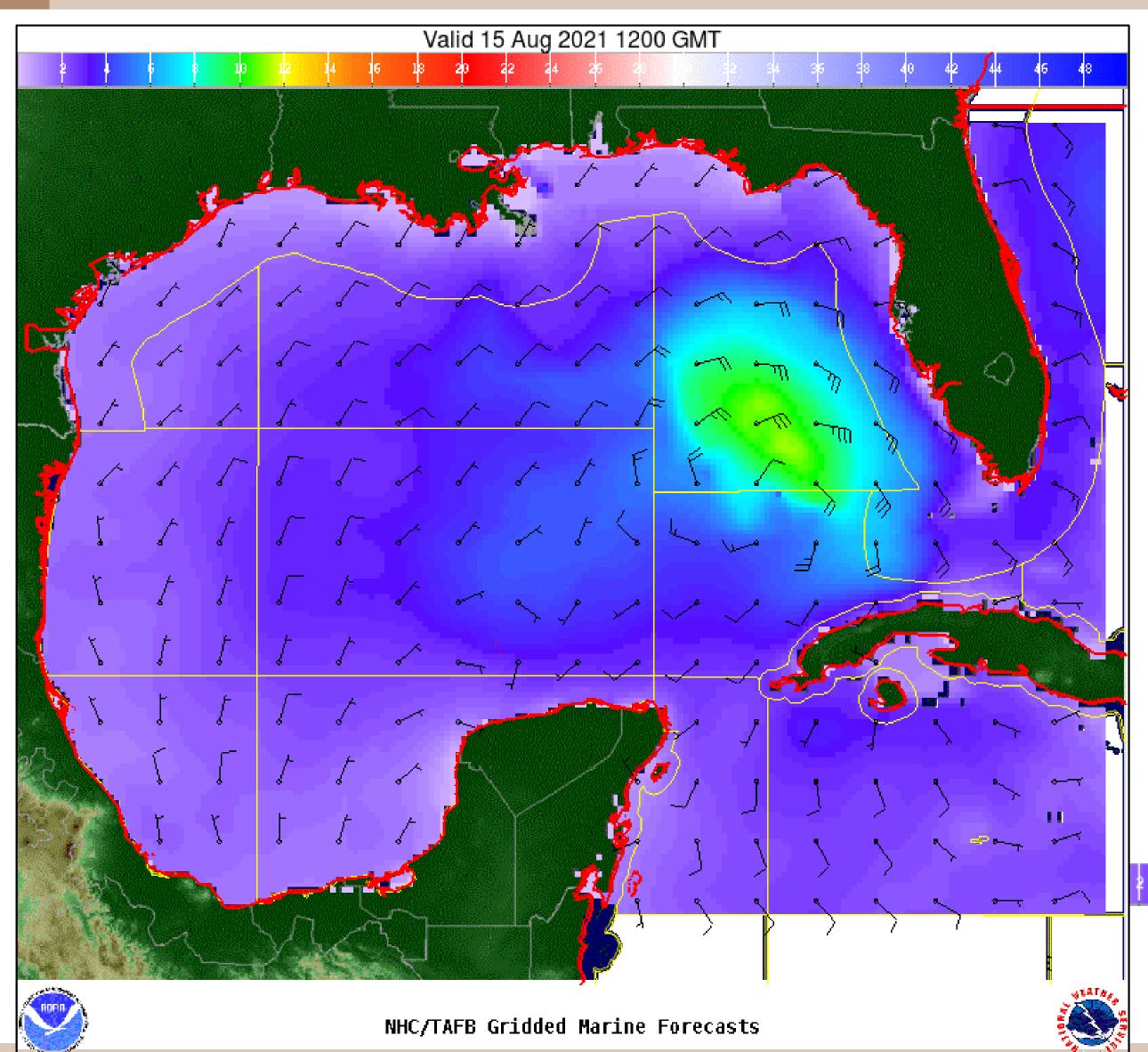


- FL Panhandle/AL Mon evening
- The most likely time of arrival of Tropical Storm Force Winds (34kt to 63 kt) for this cyclone based off the current track and wind radii.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities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

Remnants of Fred



Tropical Analysis and Forecast Branch NWS National Hurricane Center



Current Conditions

8am EDT, Sunday, August 15th

Peak Winds: 30 kt

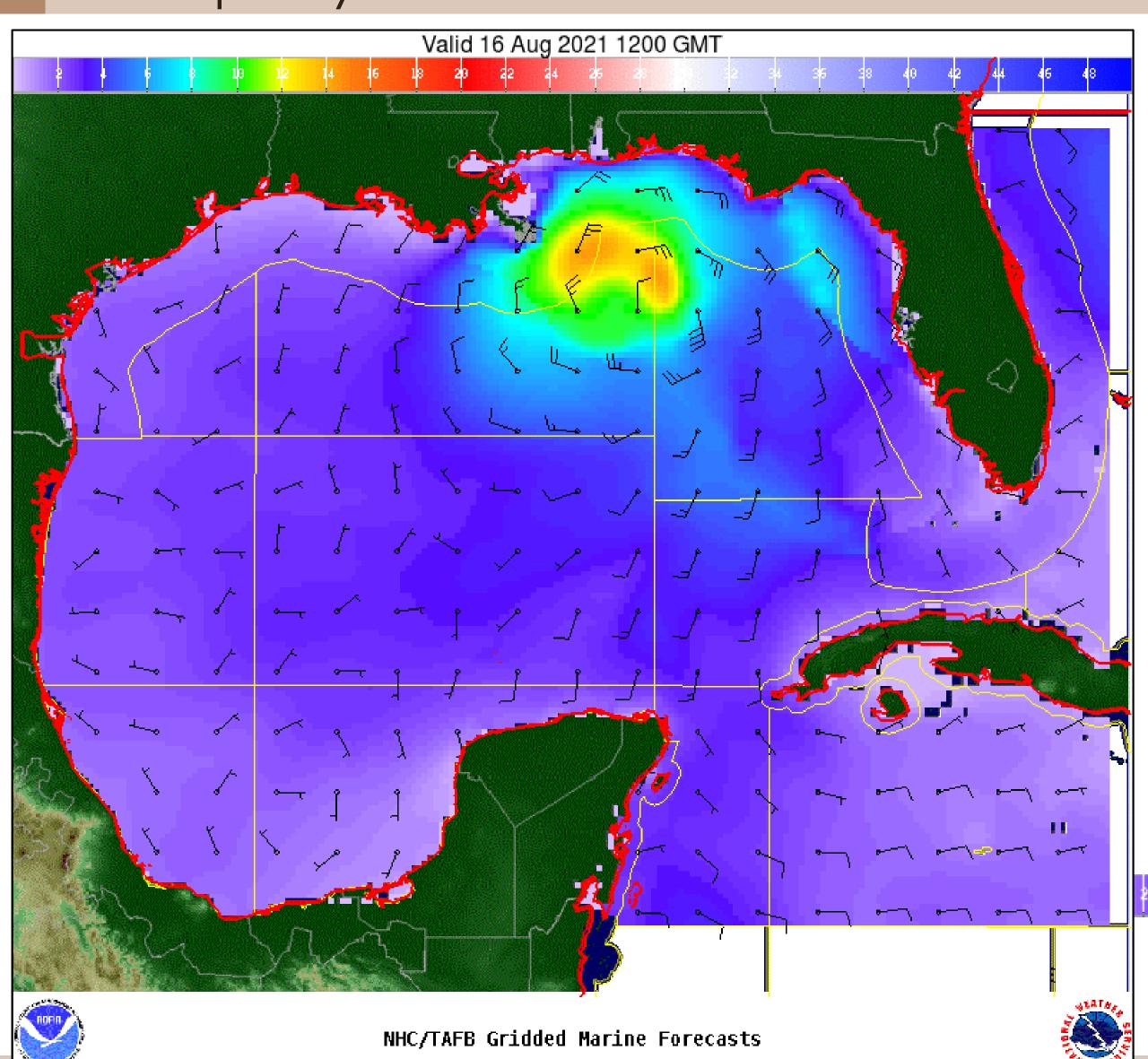
Peak Seas: 10 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Post-Tropical Cyclone Fred



24 Hour Forecast 8am EDT, Monday, August 16th

Peak Winds: 40 kt

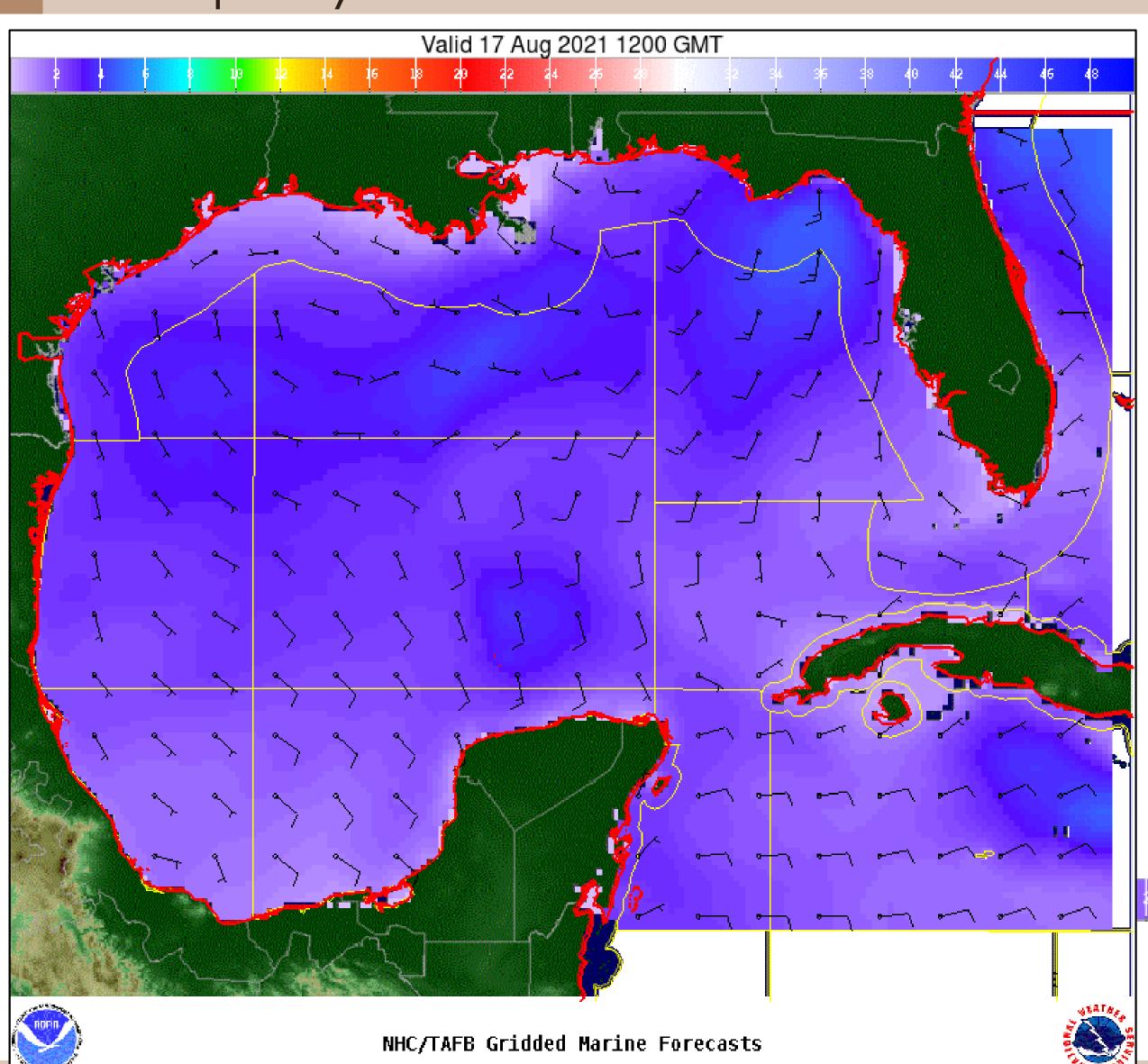
Peak Seas: 14 ft





Tropical Analysis and Forecast Branch NWS National Hurricane Center

Post-Tropical Cyclone Fred



48 Hour Forecast 8am EDT, Tuesday, August 17th

Peak Winds: 35 kt (inland)

Peak Seas: 6 ft

Wave heights are in feet

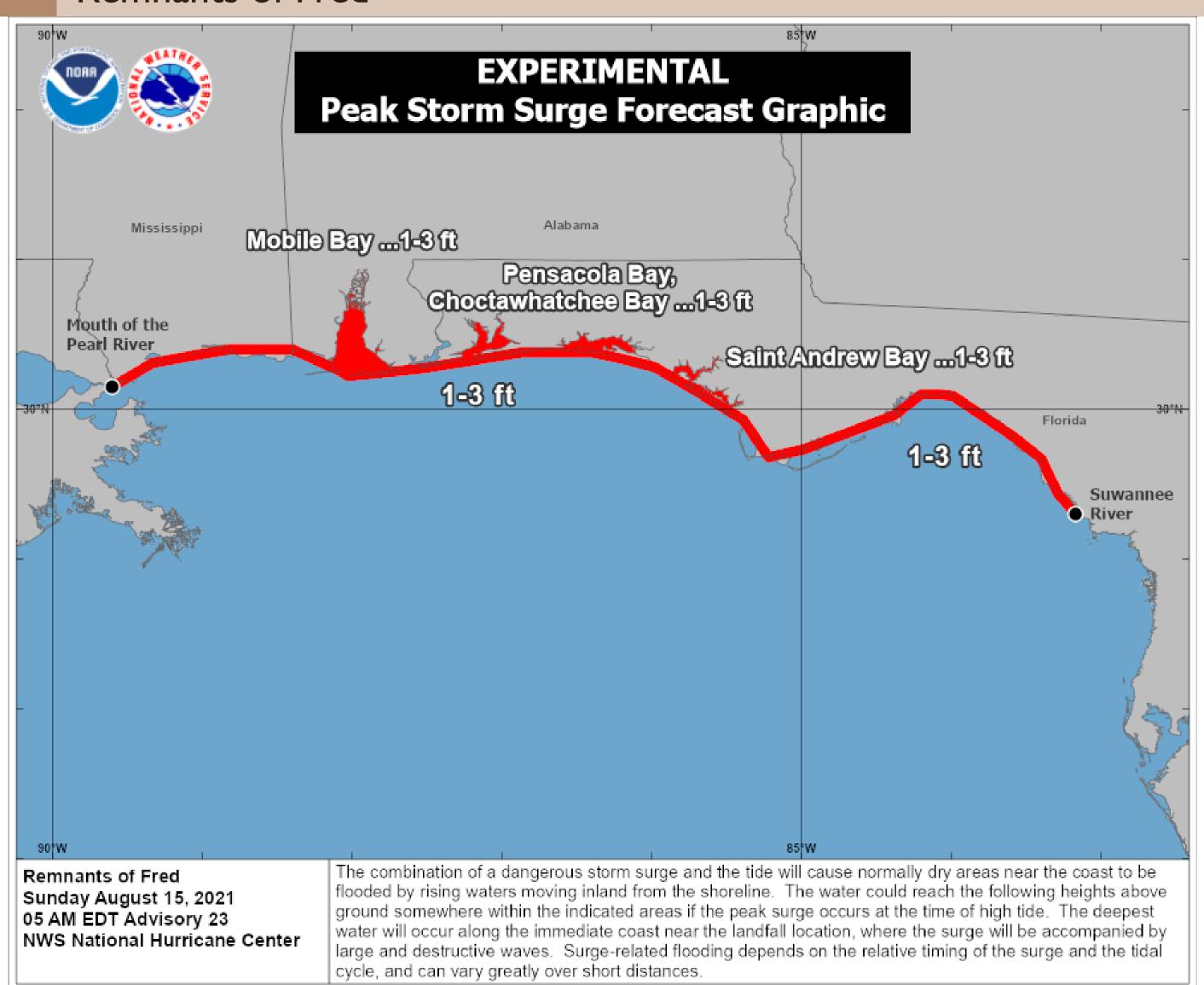


8/15/2021 8:51 AM

www.nhc.noaa.gov

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Remnants of Fred



 Potential storm surge is represented in feet above the ground at any given point.

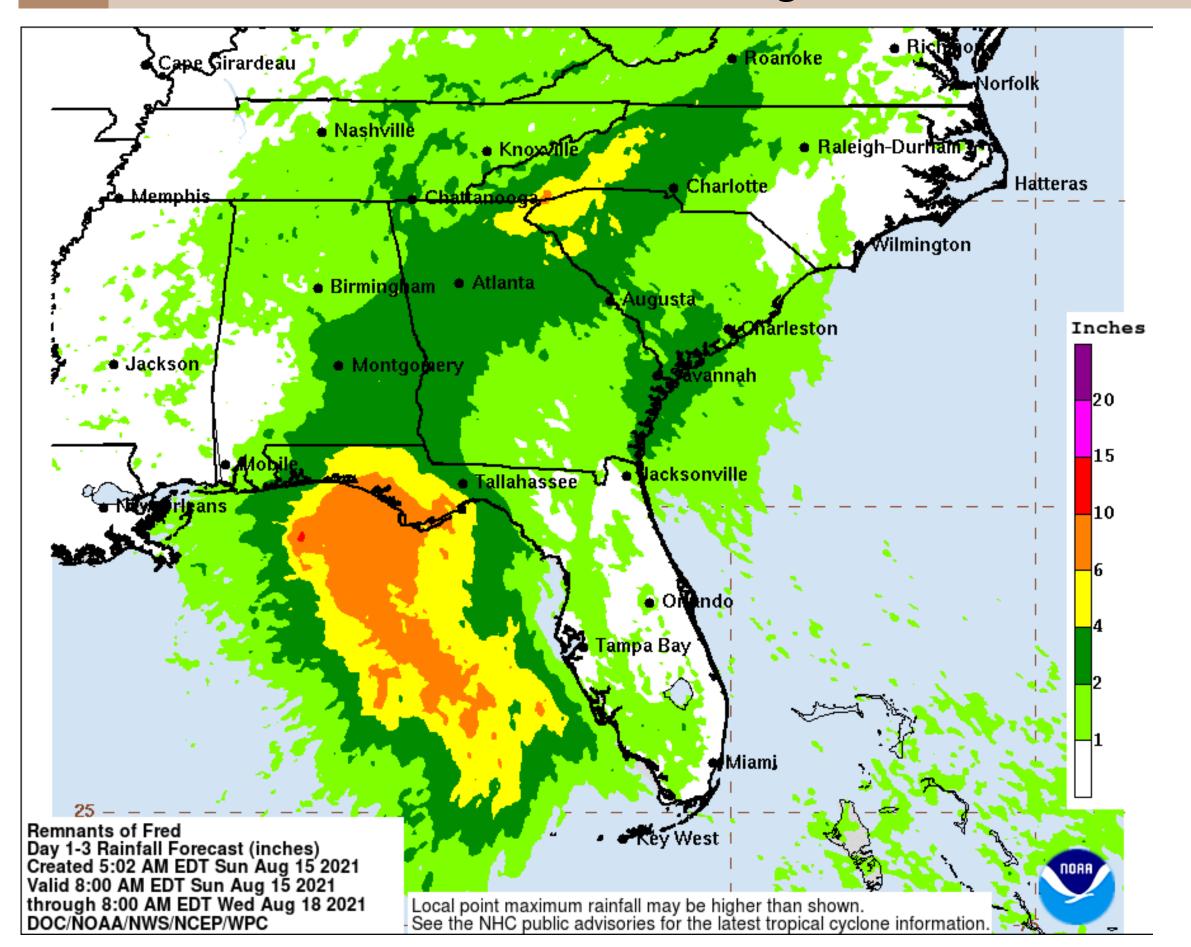
Expected Storm Total Rainfall and Chance of Rainfall Flooding

WEATHER SERVICE

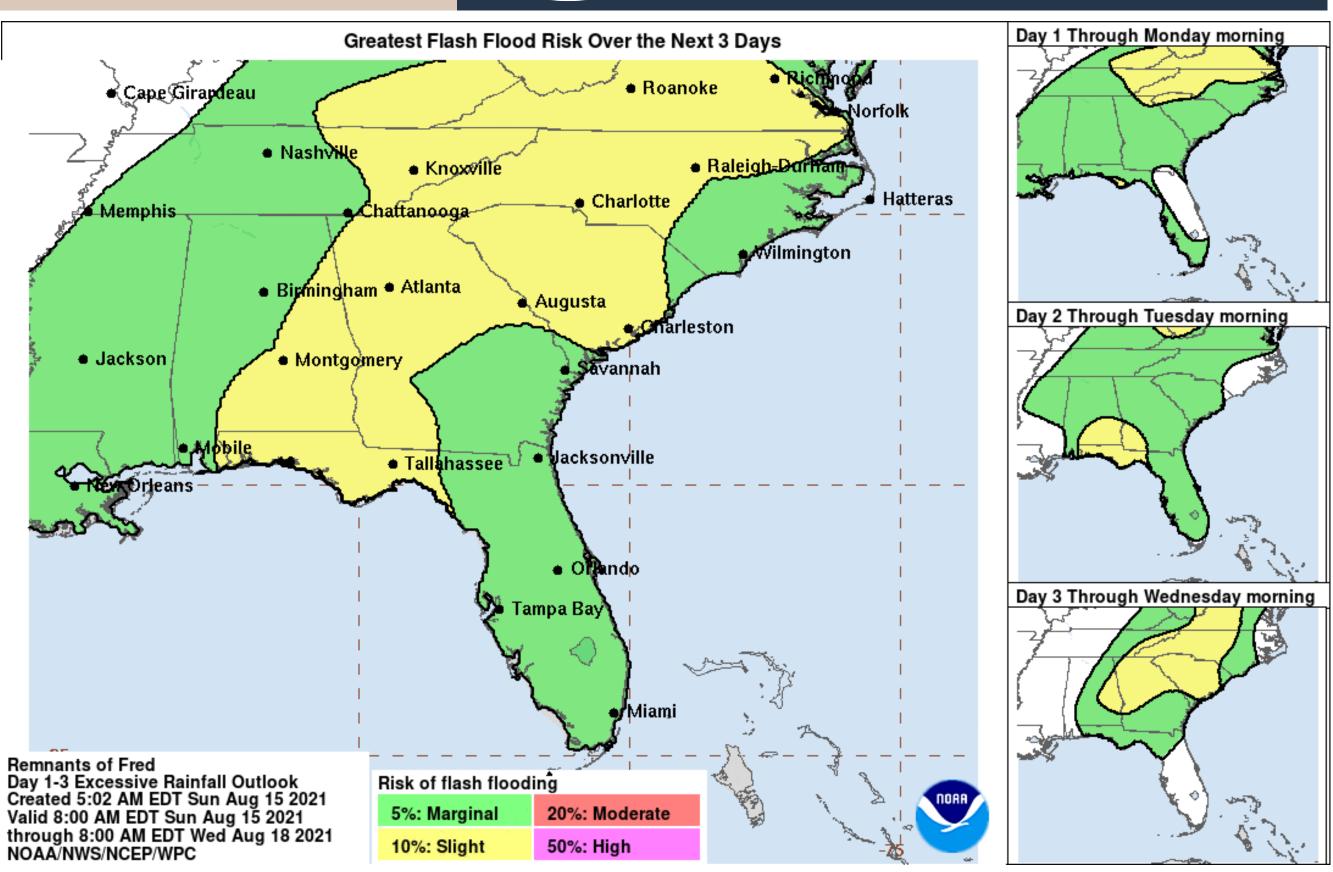
Tropical Analysis and Forecast Branch NWS National Hurricane Center

Remnants of Fred

Images from NWS Weather Predication Center



 Total rainfall in inches through Wednesday morning.



Risk of rainfall exceeding flash flood guidance within 25 miles of a point

HIGH: > 50% SLGT: 10%-20%

MDT: 20%-50% MRGL: 5%-10%

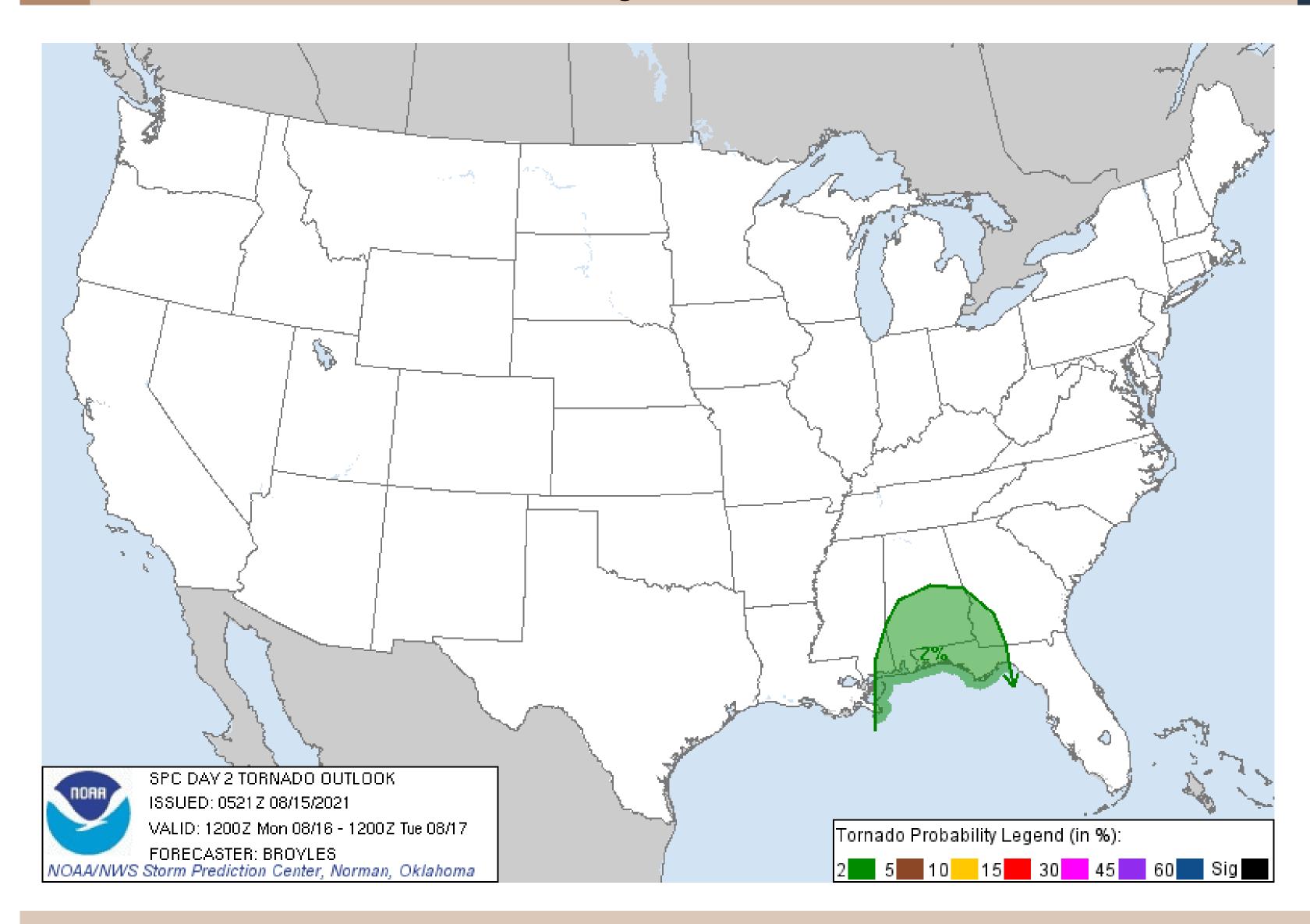
Valid through Wednesday morning

Tornado Outlook – Day 2

Remnants of Fred

Image from NWS Storm Prediction Center





Isolated, weak tornadoes are possible through Tuesday morning

Remnants of Fred





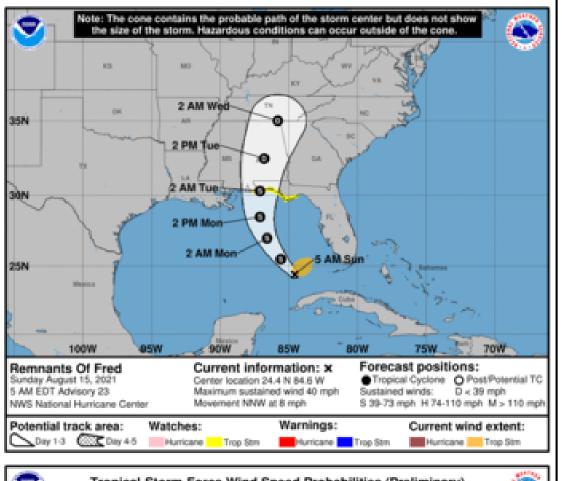


in the area.

Key Messages for Remnants Of FredAdvisory 23: 5:00 AM EDT Sun Aug 15, 2021

1. Today through Monday, heavy rainfall could lead to areal, urban, and small stream flooding impacts, and cause new and renewed river flooding across southern Florida, the Big Bend, and Panhandle. From Monday onward, heavy rain and flood impacts could extend into other portions of the Southeast and into the southern and central Appalachians and Piedmont as Fred interacts with a front

2. Fred is forecast to regenerate as a tropical cyclone over the Gulf of Mexico later today, and bring a risk of tropical storm conditions to portions of the northern Gulf coast, especially from coastal Mississippi to the Florida Panhandle beginning Monday night. A Tropical Storm Warning will likely be required for a portion of this area later this morning.





For more information go to hurricanes.gov

IMPACTS FOR D7 for Fred (through next 5 days)

Winds – **Moderate**

Storm Surge - Low

Rainfall/Flash Flooding – Moderate

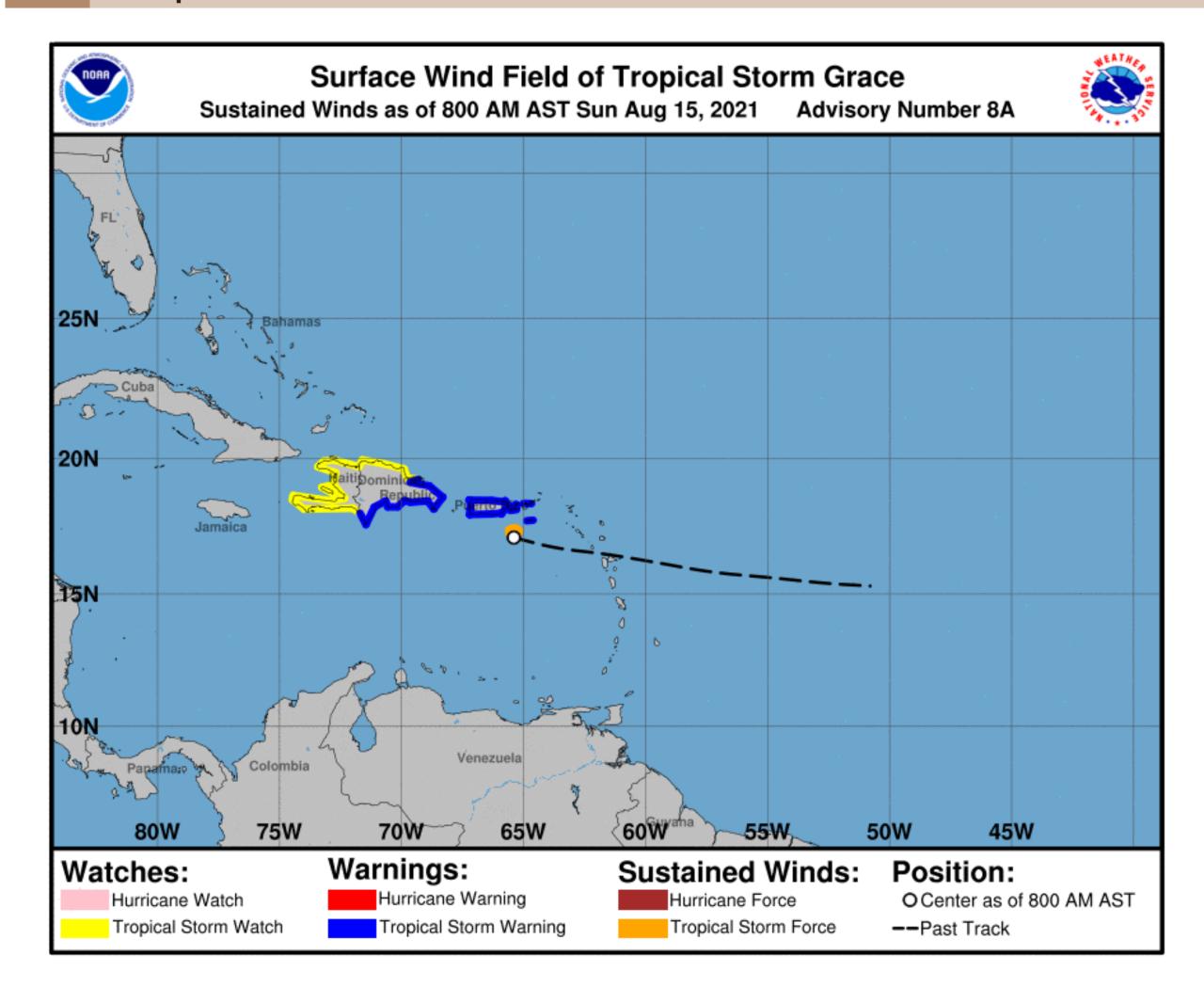
Tornadoes – Low

Waves - Low

Situation Overview

Tropical Storm Grace





...DISORGANIZED GRACE CONTINUES MOVING WEST-NORTHWESTWARD OVER THE NORTHEASTERN CARIBBEAN SEA...

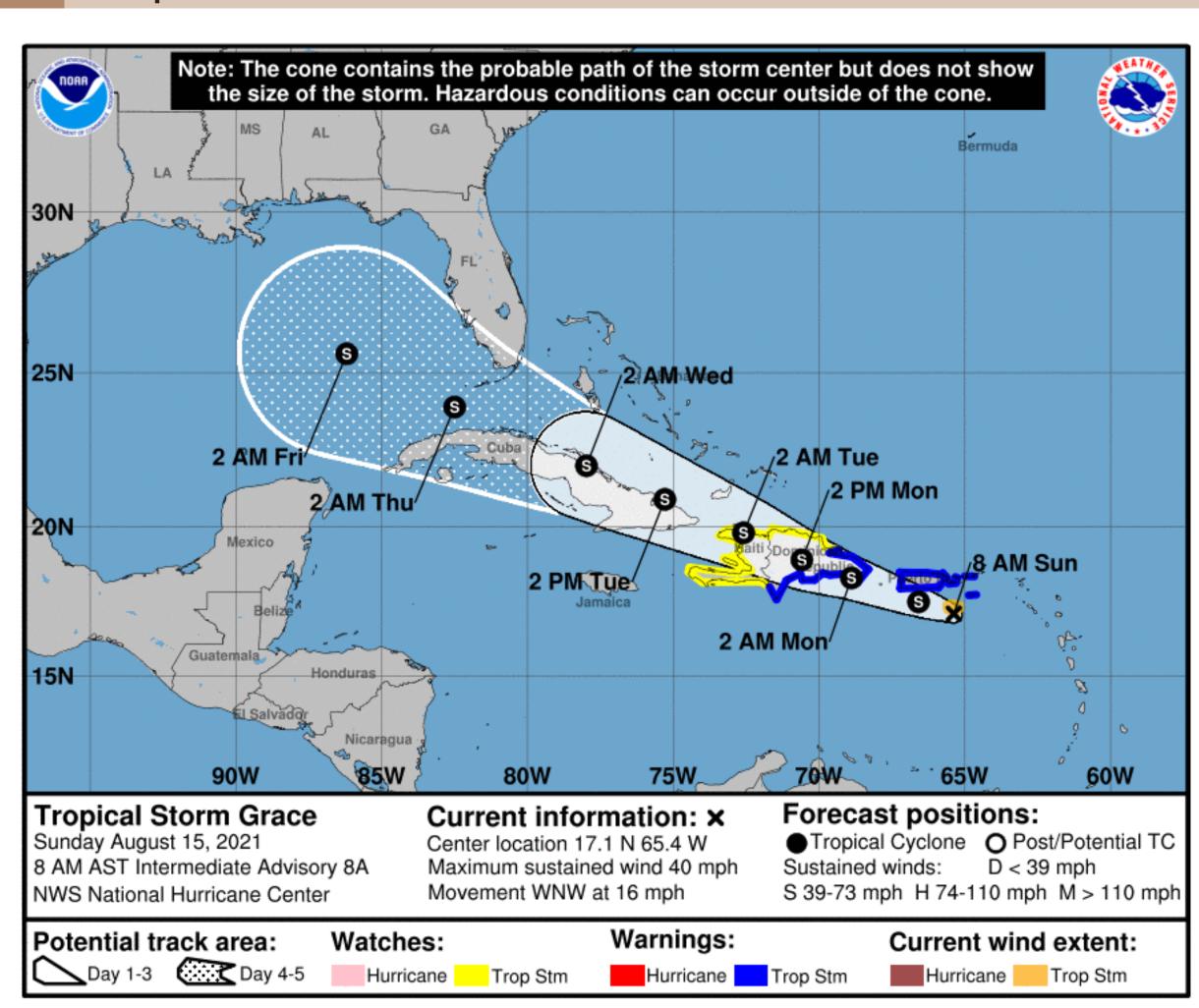
SUMMARY OF 800 AM AST INFORMATION

LOCATION...17. IN 65.4W
ABOUT 45 NM SW OF ST. CROIX
ABOUT 85 NM SSE OF SAN JUAN PR
MAXIMUM SUSTAINED WINDS...35 KT
PRESENT MOVEMENT...WNW AT 14 KT
PEAK SEAS 11 FT
SIZE

34 KT..... 30NE OSE OSW 30NW.

Forecast Information

Tropical Storm Grace



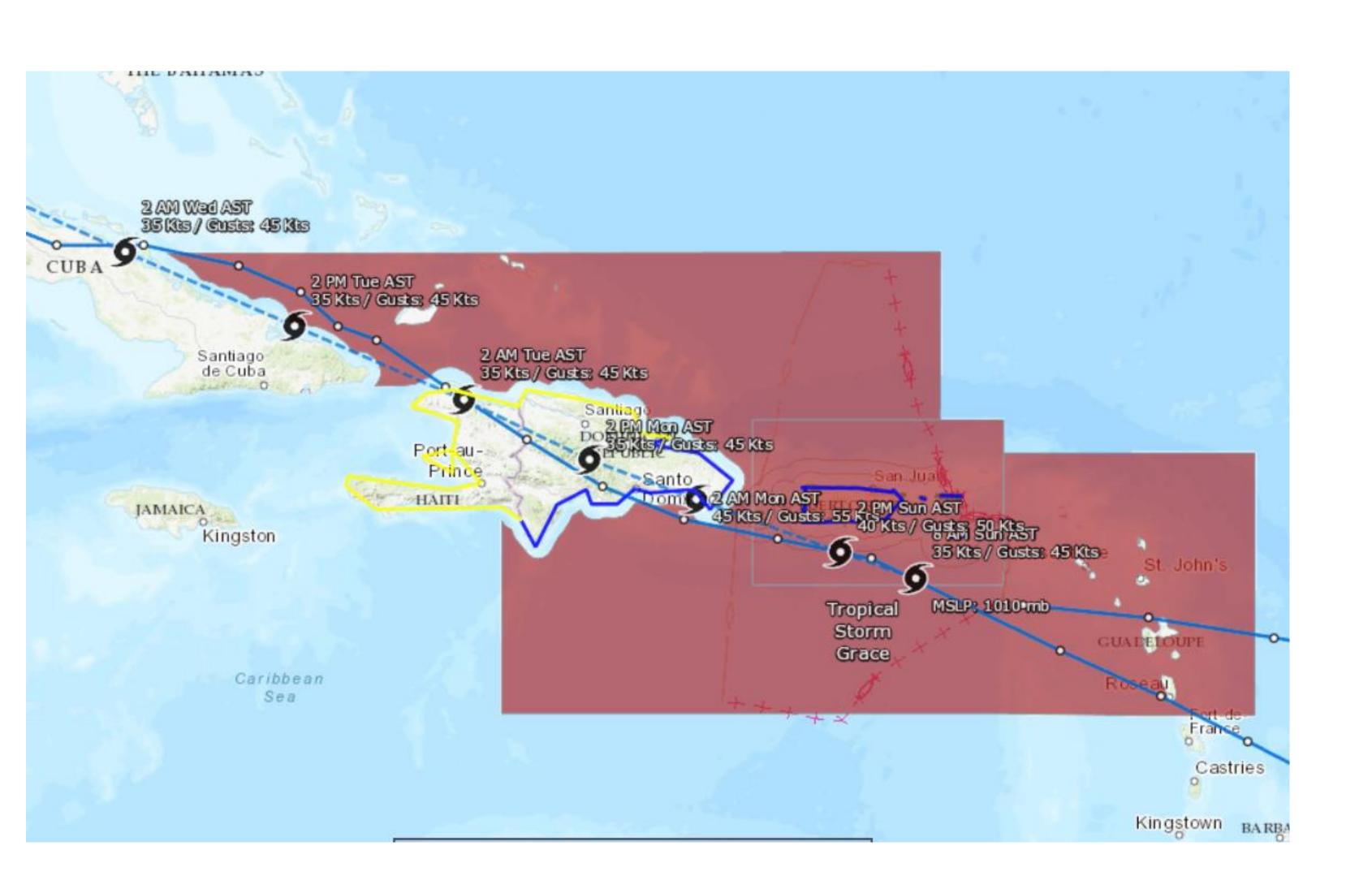
NOTE: Do not focus on the exact track. Impacts can occur well outside the area enclosed by the cone.



- Grace should track WNW at about the same forward speed for the next five days
- System expected to intensify some, but remain below hurricane intensity
- Impacting US Virgin Islands and Puerto Rico as a Tropical Storm currently
- South Florida potentially at risk Wednesday/Thursday
- 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.

Tropical Storm Grace

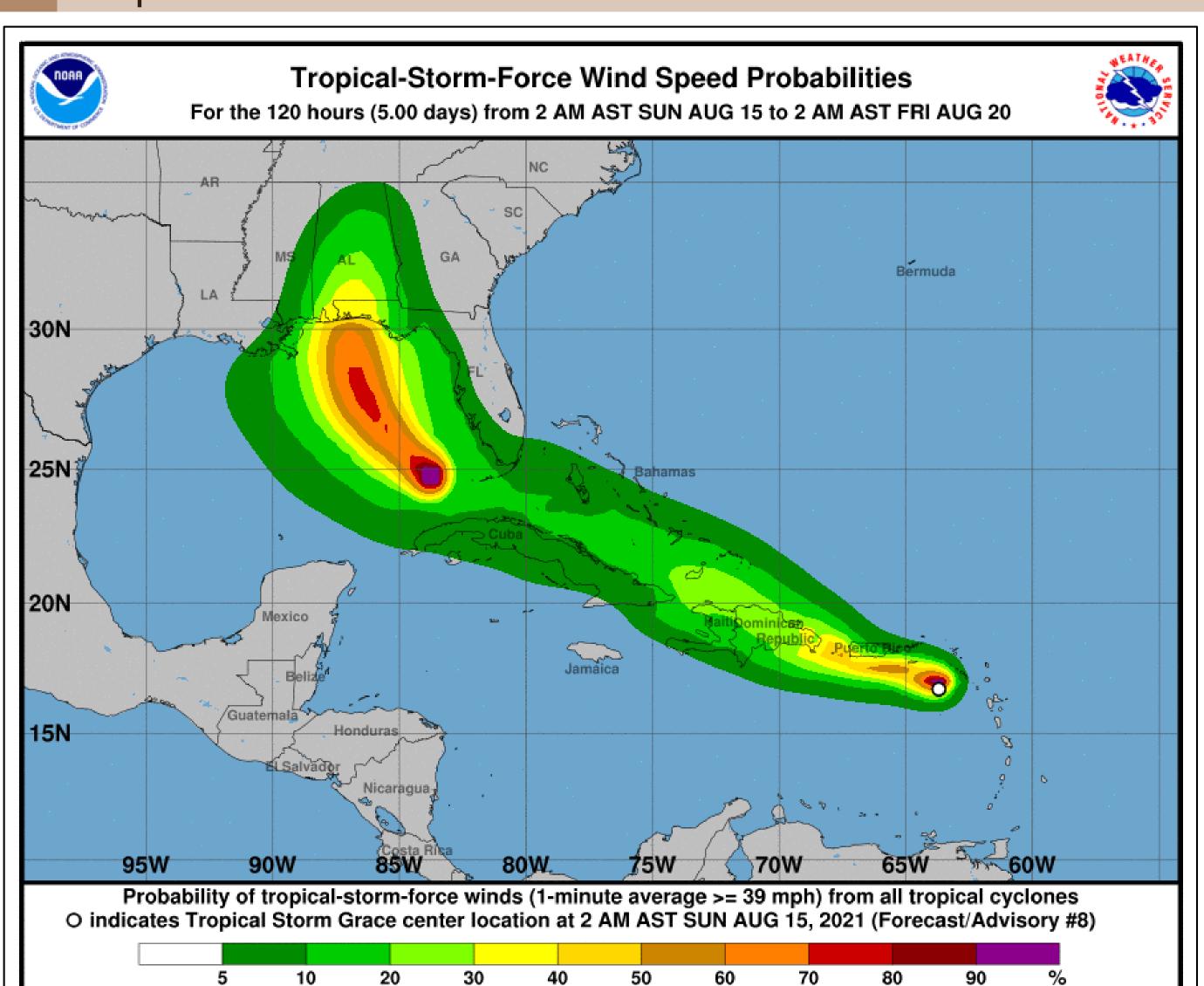




https://nowcoast.noaa.gov/

T.S. Wind Speed Probabilities

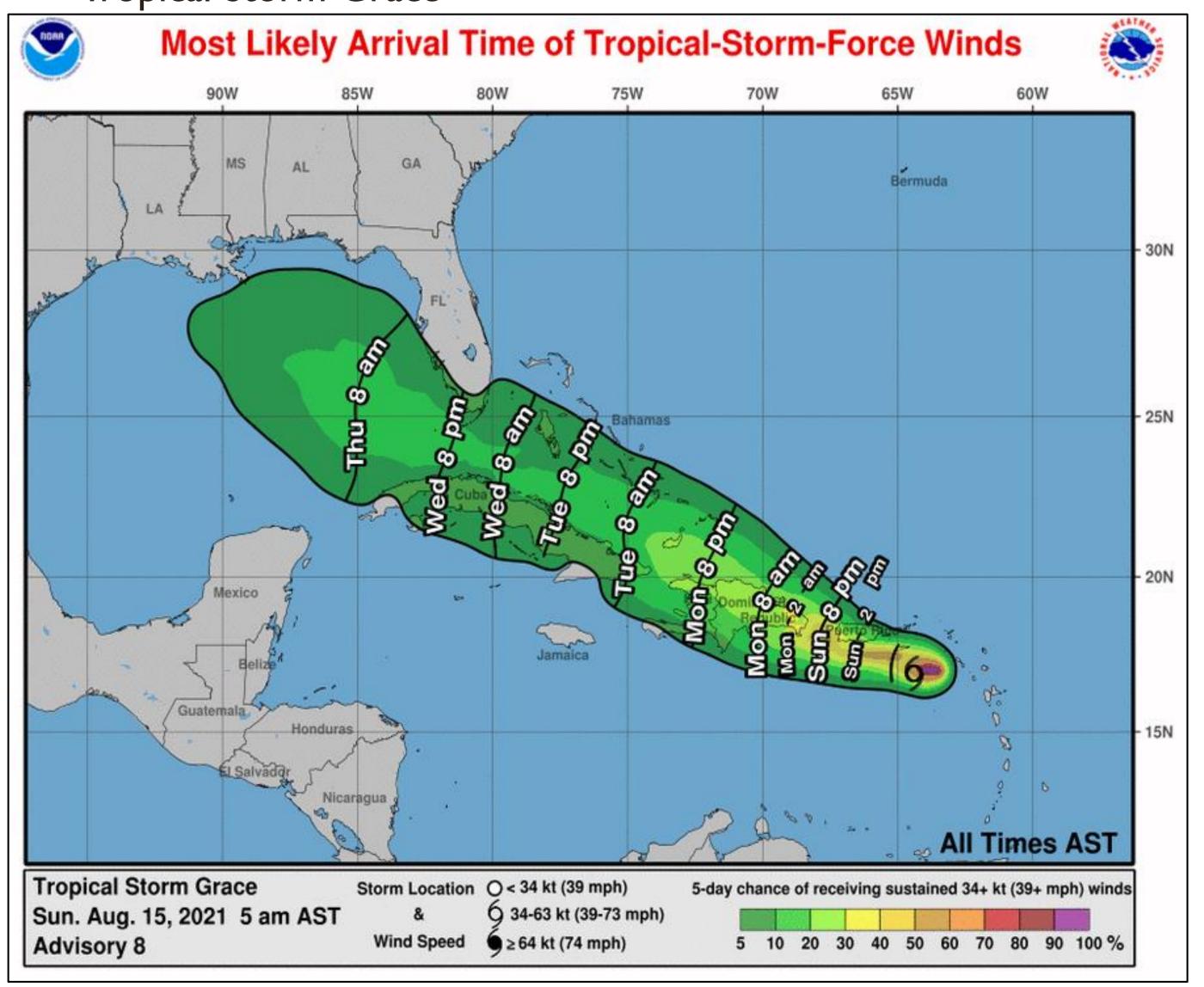
Tropical Storm Grace





- Ponce, PR 30%
- Aguadilla, PR 30%
- San Juan, PR 5%
- Vieques, PR 5%
- Saint Croix, VI 10%
- Key West, FL − 10%
- Marathon, FL 10%
- Naples, FL 10%
- 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.

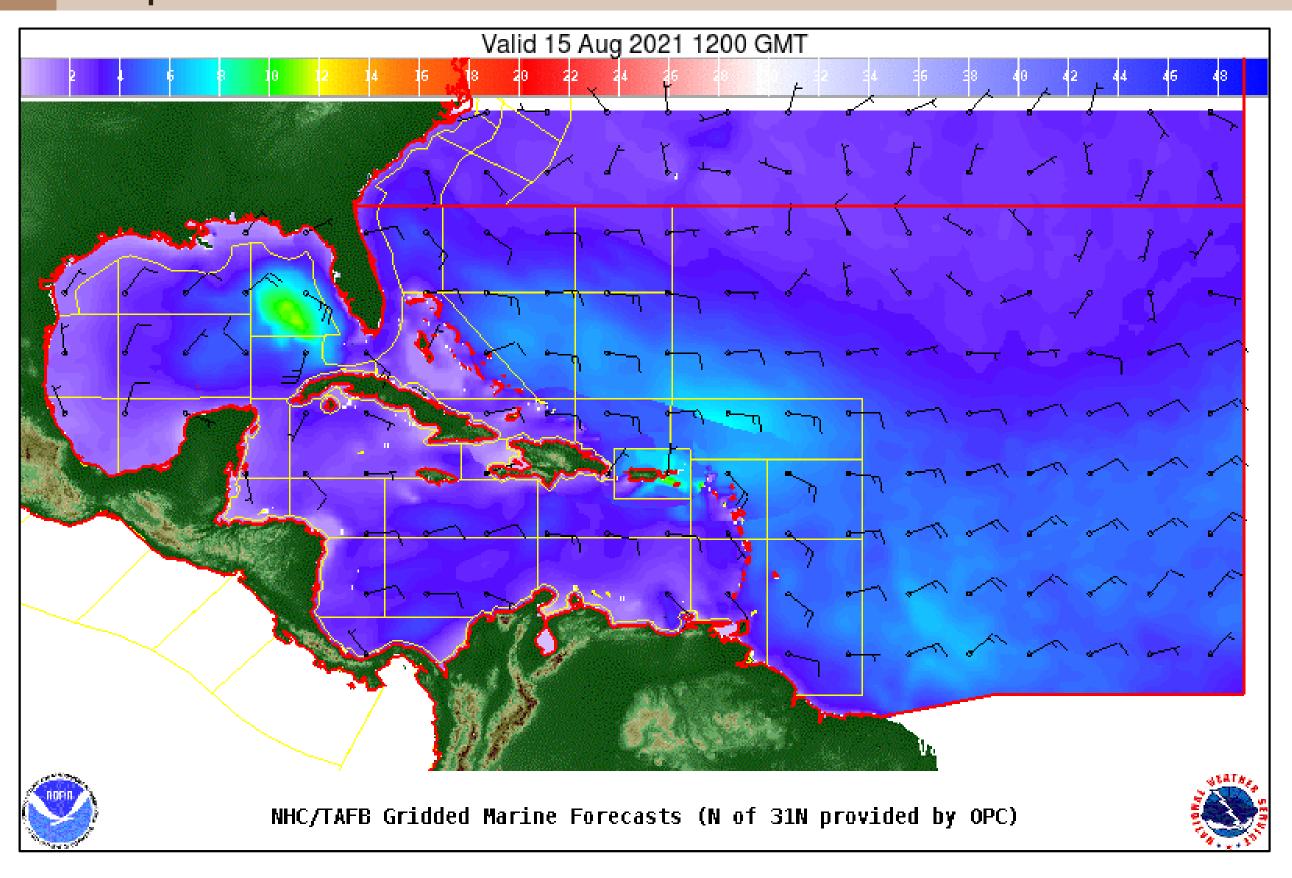
Tropical Storm Grace



- South Florida Wednesday afternoon
- 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.

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



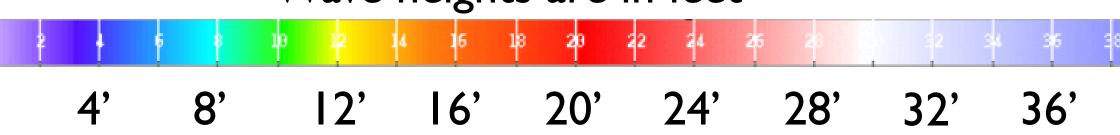
Current Conditions

8am EDT, Sunday, August 15

Peak Winds: 35 kt

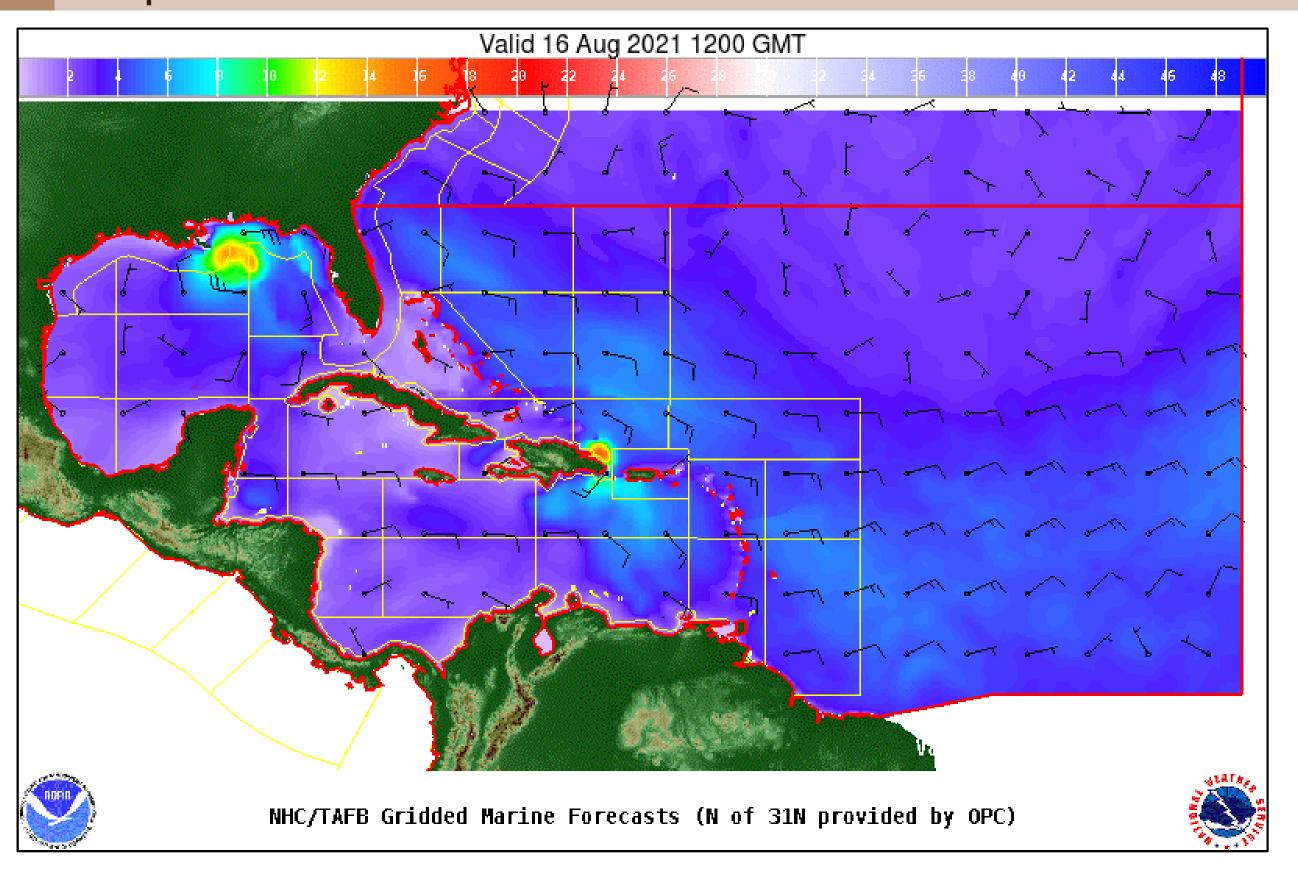
Peak Seas: 11 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



24 Hour Forecast

8am EDT, Monday, August 16th

Peak Winds: 45 kt

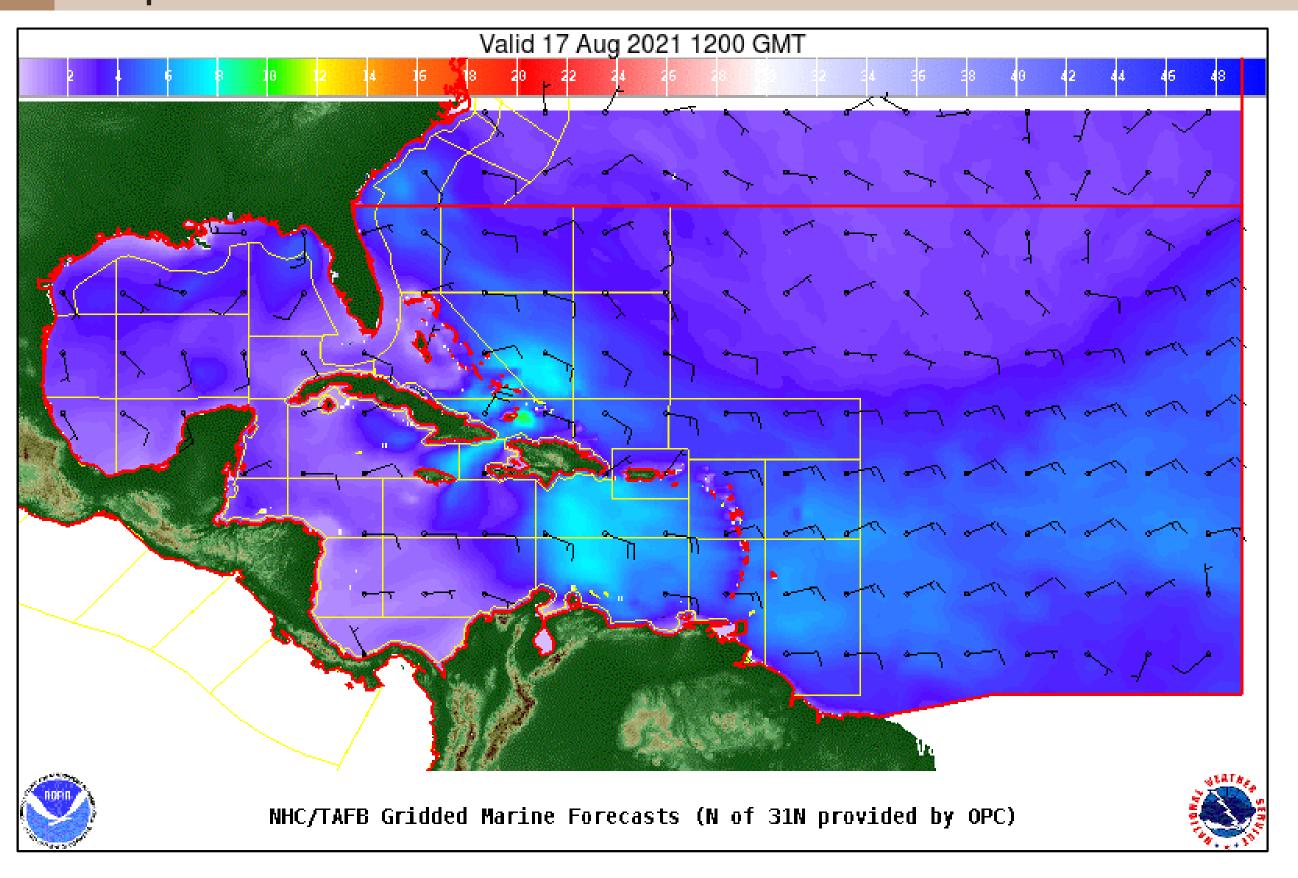
Peak Seas: 17 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



48 Hour Forecast

8am EDT, Tuesday, August 17th

Peak Winds: 35 kt

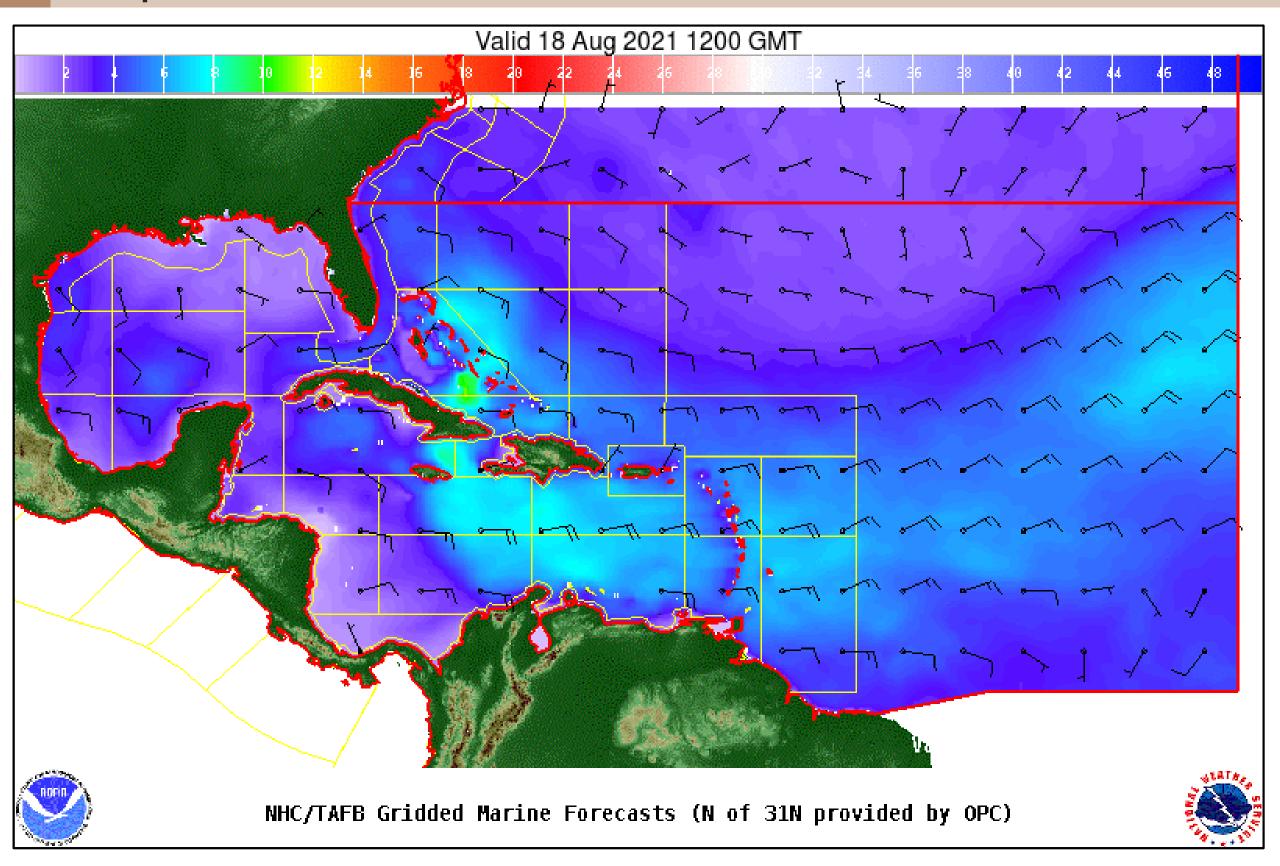
Peak Seas: 10 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



72 Hour Forecast

8am EDT, Wednsday, August 18th

Peak Winds: 35 kt

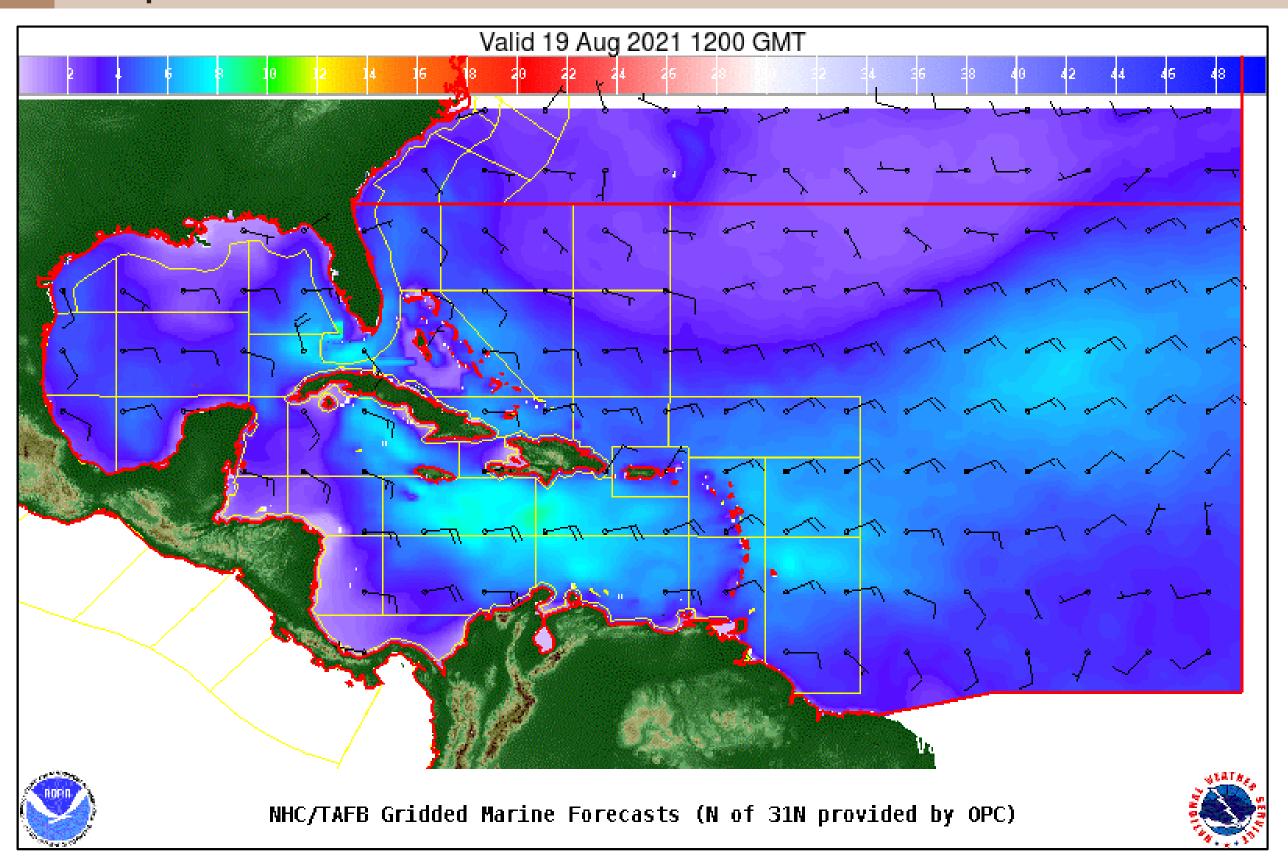
Peak Seas: 11 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



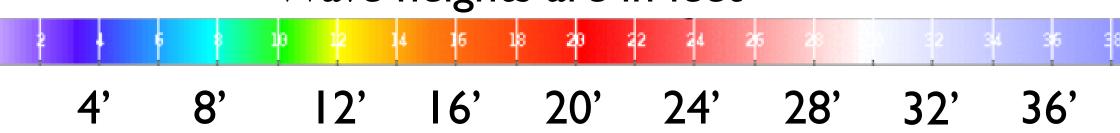
96 Hour Forecast

8am EDT, Thursday, August 19th

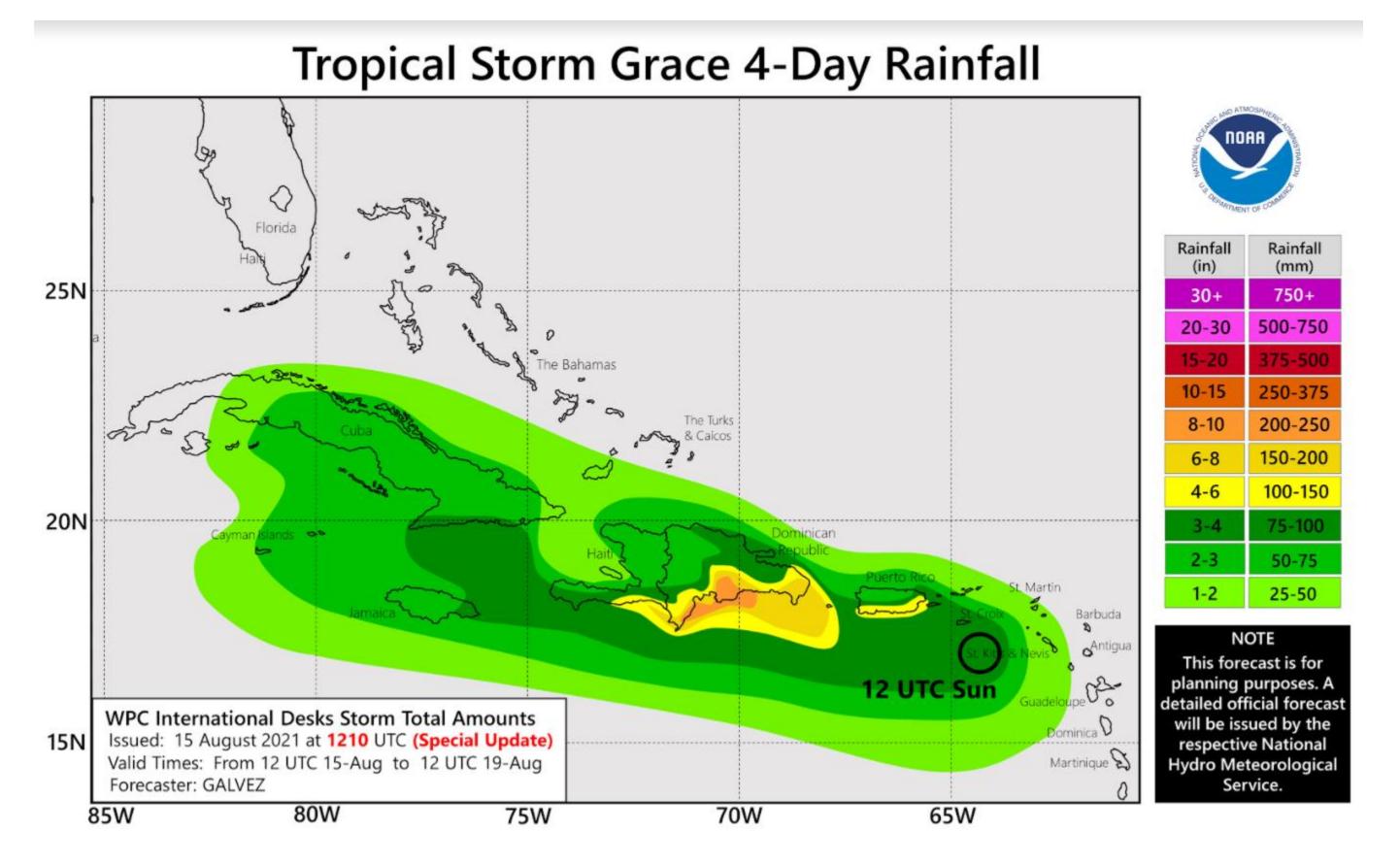
Peak Winds: 40 kt

Peak Seas: 9 ft

Wave heights are in feet



Images from NWS Weather Predication Center



 Total rainfall in inches through Thursday morning.

Tropical Storm Grace





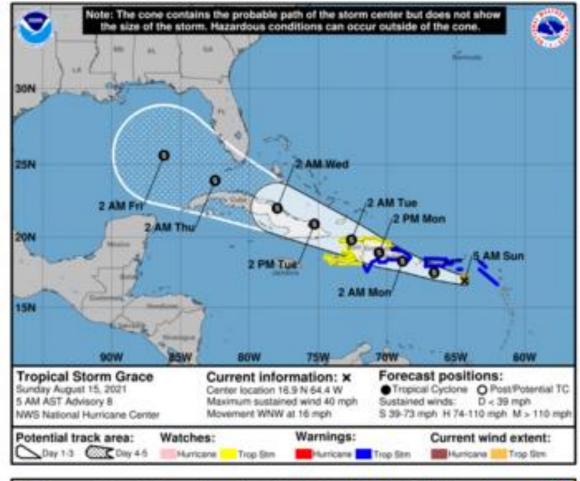




Key Messages for Tropical Storm Grace

Advisory 8: 5:00 AM AST Sun Aug 15, 2021

- Tropical storm conditions are expected over portions of the Leewards Islands this morning and the Virgin Islands and Puerto Rico today. Tropical storm conditions are expected over eastern parts of the Dominican Republic tonight and Monday. Tropical storm conditions are possible over western portions of the Dominican Republic and Haiti Monday and Monday night.
- 2. Heavy rainfall could lead to flash and urban flooding over the Leeward and Virgin Islands, Haiti and the Dominican Republic. Across Puerto Rico, heavy rainfall may lead to flash, urban and small stream flooding, along with the potential for mudslides.
- 3. There is a risk of wind and rainfall impacts across the rest of the Dominican Republic, Haiti, the Turks and Caicos Islands, the Bahamas, Cuba, and Florida, but forecast uncertainty remains higher than usual. Interests in those areas should monitor the progress of Grace and updates to the forecast.





IMPACTS FOR D7 for Grace (through next 5 days)

Winds - Moderate

Storm Surge – None

Rainfall/Flash Flooding – Low

Tornadoes - None

Waves - Moderate

For more information go to hurricanes.gov



REMNANTS OF FRED/ TROPICAL STORM GRACE BRIEFING

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

The Next Briefing Will Be: Monday9:00 AM EDT

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