IMPACTS FOR D7 FROM TROPICAL STORM GRACE

Winds – Low (Haiti)

Storm Surge – None

Rainfall/Flash Flooding - Moderate (Haiti)

Tornadoes – None

Waves - Low

TROPICAL STORM GRACE, TROPICAL STORM HENRI, TROPICAL DEPRESSION FRED BRIEFING



9:00 AM EDT

Tuesday, August 17, 2021

Prepared by:

Andrew Hagen

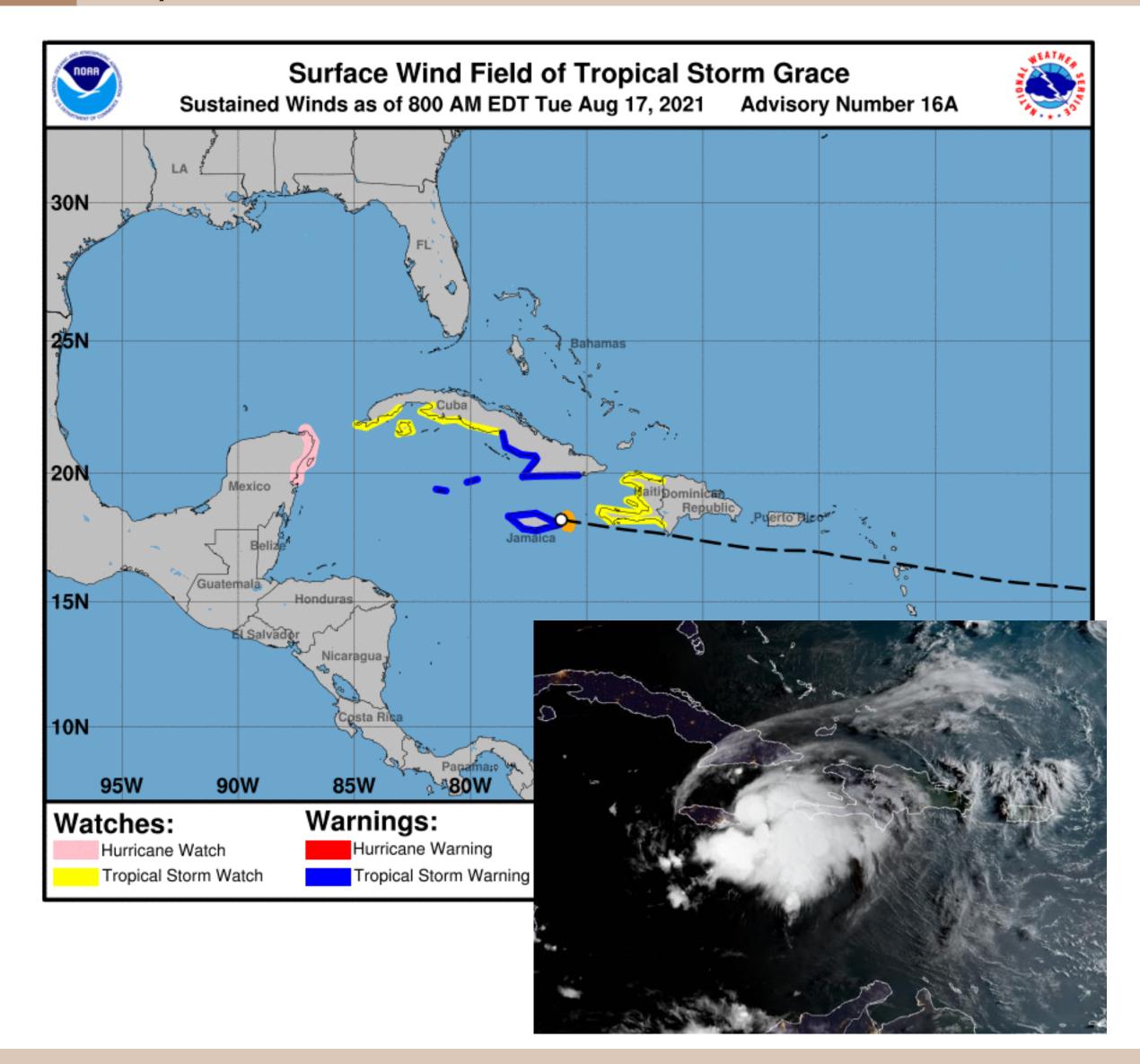
Tropical Analysis and Forecast Branch

NWS National Hurricane Center



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



...GRACE NEARING JAMAICA... ...HEAVY RAINS CAUSING FLOODING ACROSS PORTIONS OF HISPANIOLA...

Summary of 800 AM EDT... I 200 UTC...Information

Location... 18.2N 76.1W
About 105 nm E of Montego Bay, Jamaica About
Maximum Sustained Winds... 40 kt
Present Movement... W or 280 degrees at 14 kt

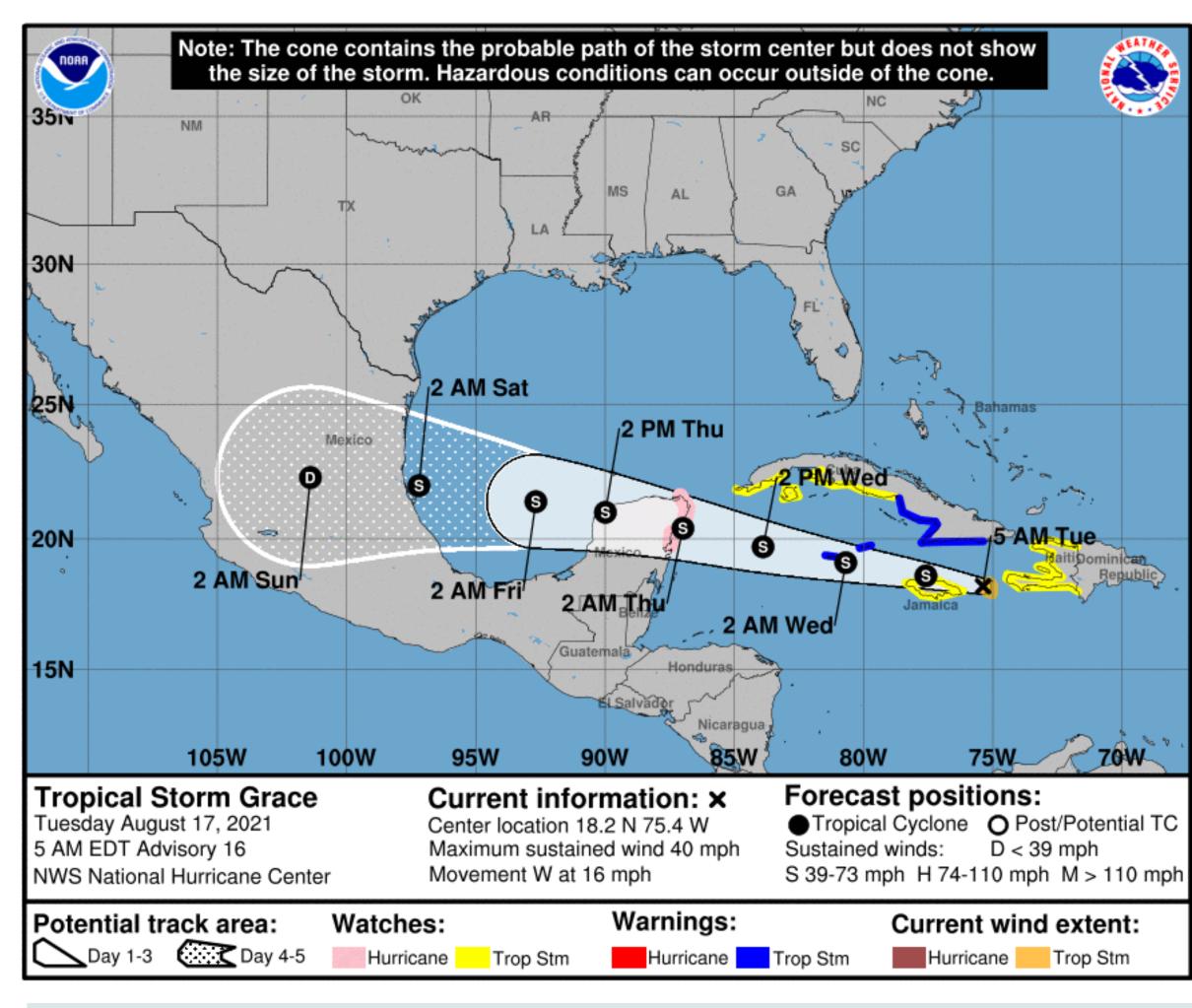
PEAK SEAS: 11 FT

SIZE 34 KT: 30 NE, 40 SE, 0 SW, 0 NW

Forecast Information

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



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

- Grace will pull away from Haiti late today. Winds will diminish from the SW peninsula of Haiti during the afternoon, but seas near the coast may not subside until this evening. Rainfall may not end until late afternoon or evening.
- Grace expected to strengthen and move westward
- 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

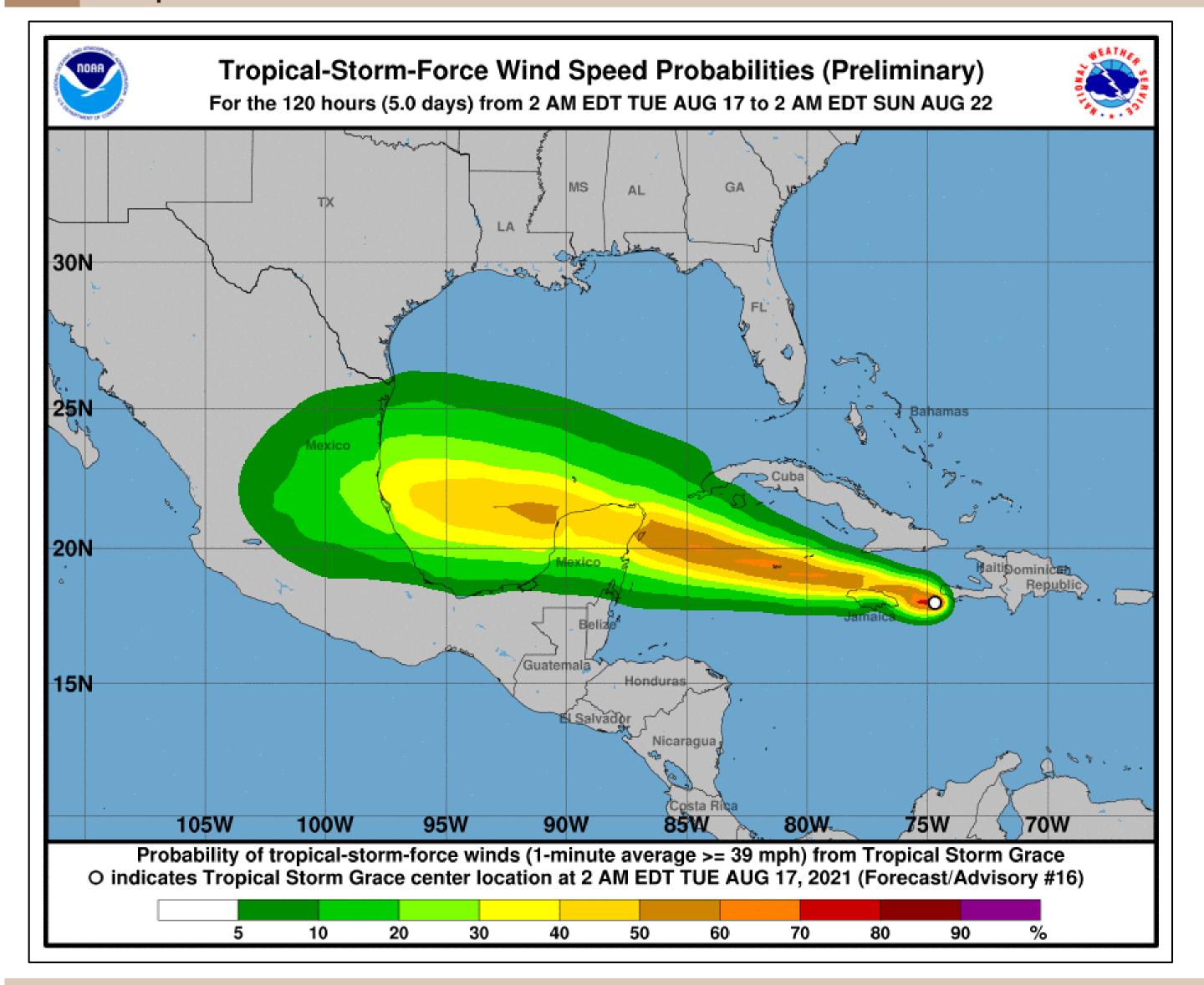
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

T.S. Wind Speed Probabilities

Tropical Storm Grace



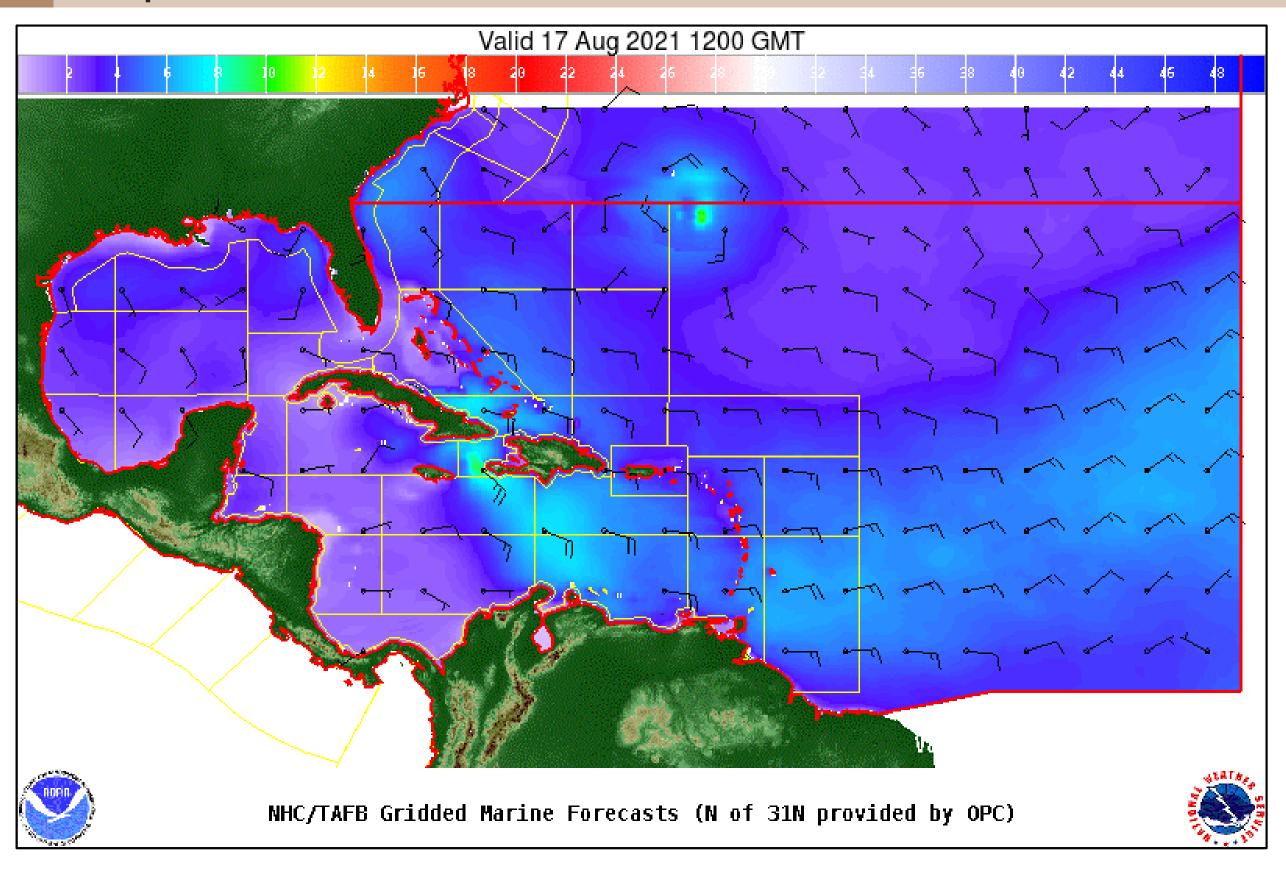
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- Grand Cayman: 60%
- Montego Bay, Jamaica: 45%
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow 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 Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



Current Conditions

Tue 8/17 8am EDT

Peak Winds: 40 kt

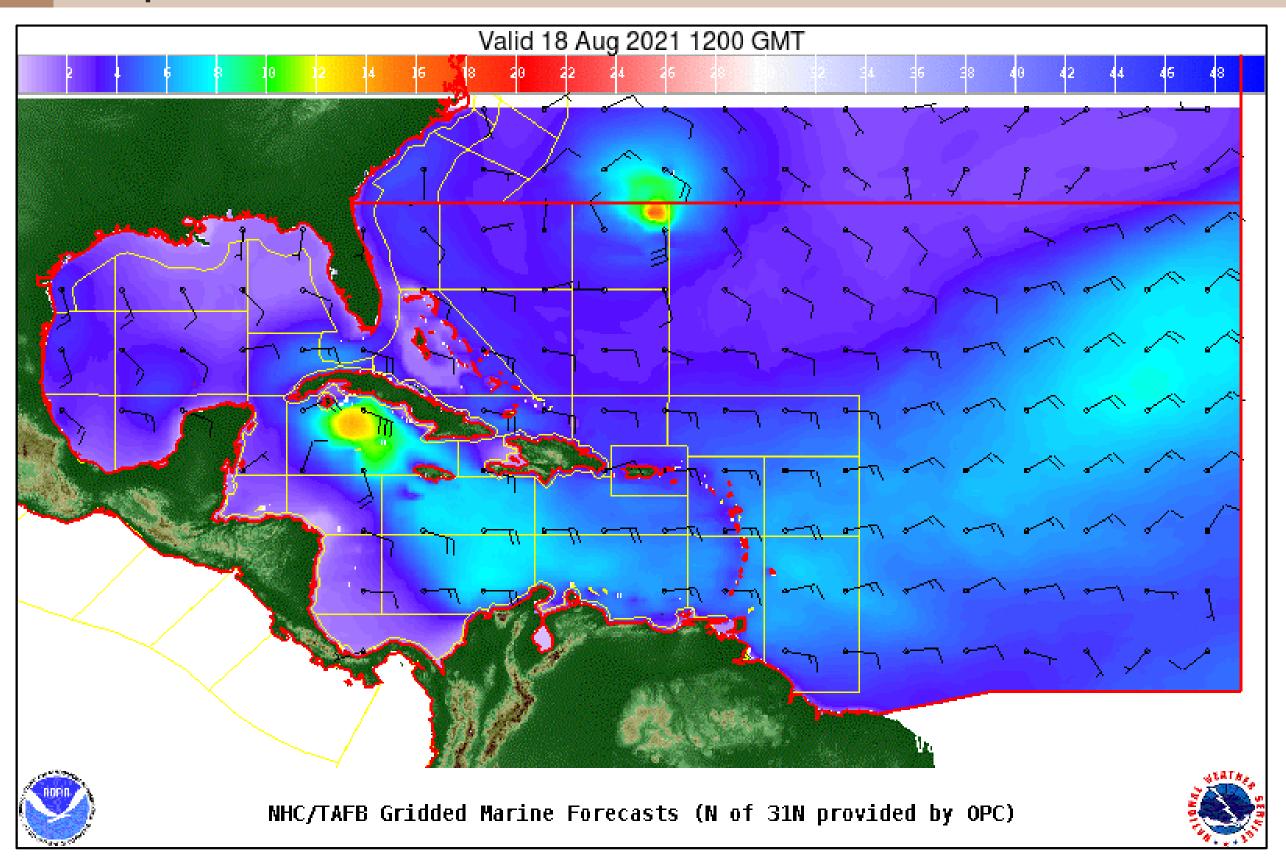
Peak Seas: 11 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace

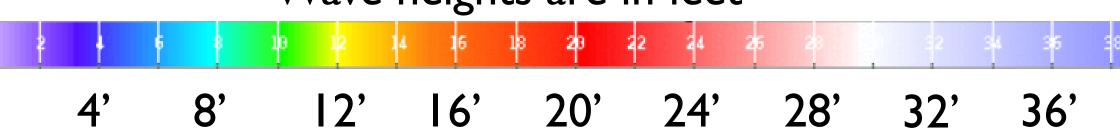


24 Hour Forecast
Wed 8/18 8am EDT

Peak Winds: 45 kt

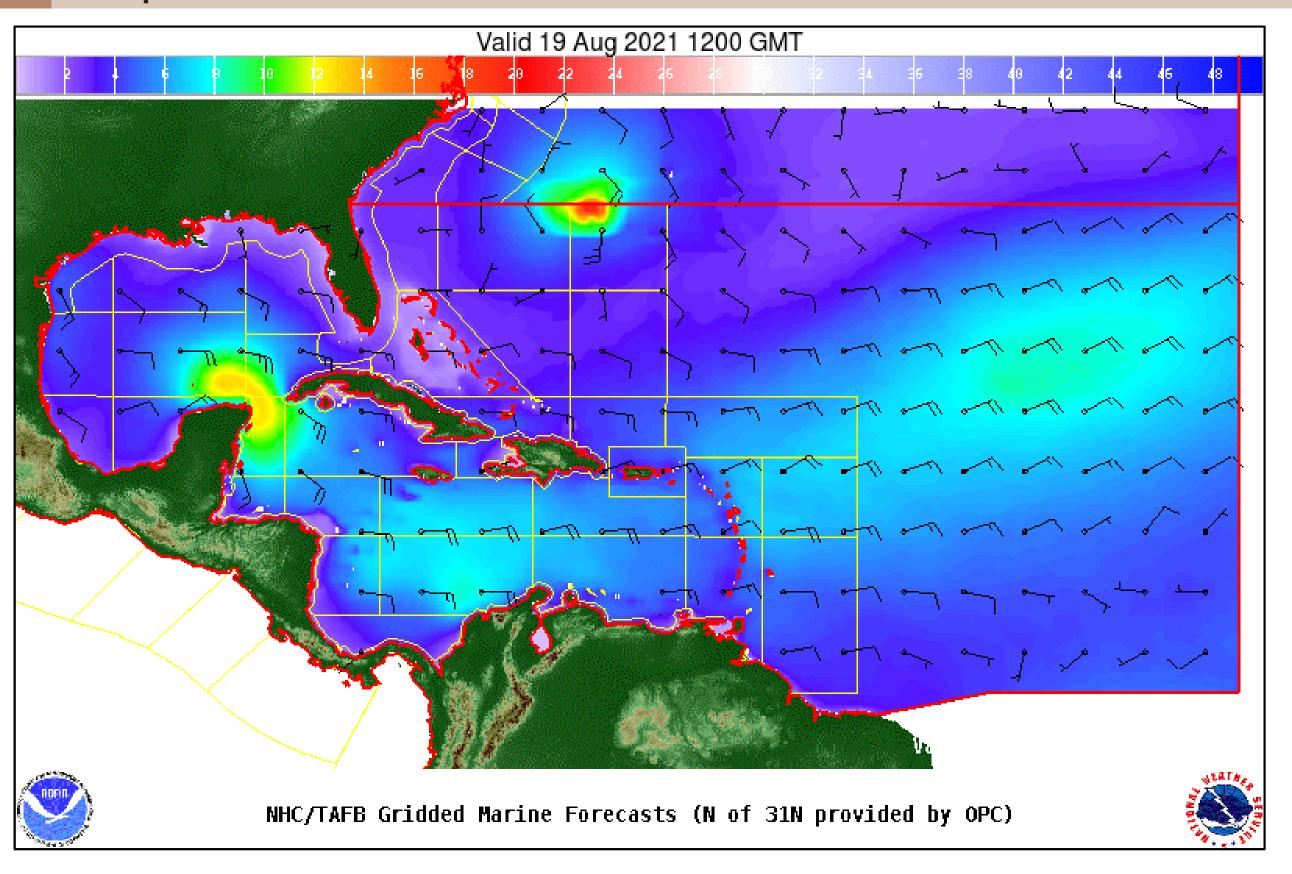
Peak Seas: 14 ft

Wave heights are in feet



Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Grace



48 Hour Forecast

Thu 8/19 8am EDT

(Center Inland over Yucatan Peninsula)

Peak Winds (over water): 50 kt

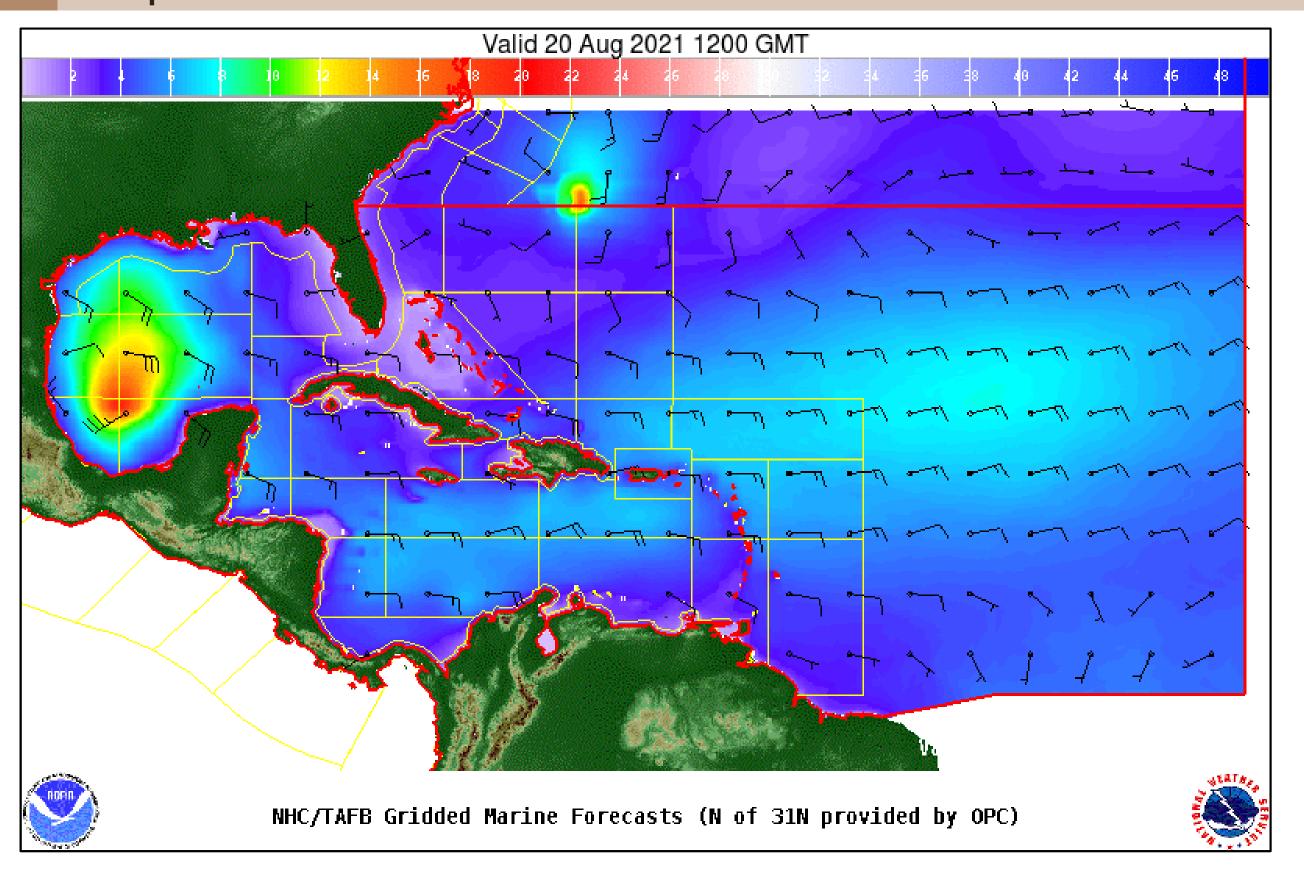
Peak Seas: 13 ft (in Yucatan Channel)

Wave heights are in feet



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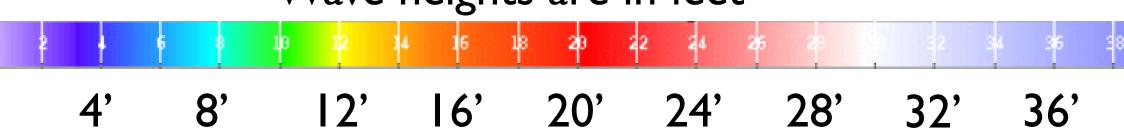
Tropical Storm Grace



72 Hour Forecast Fri 8/20 8am EDT

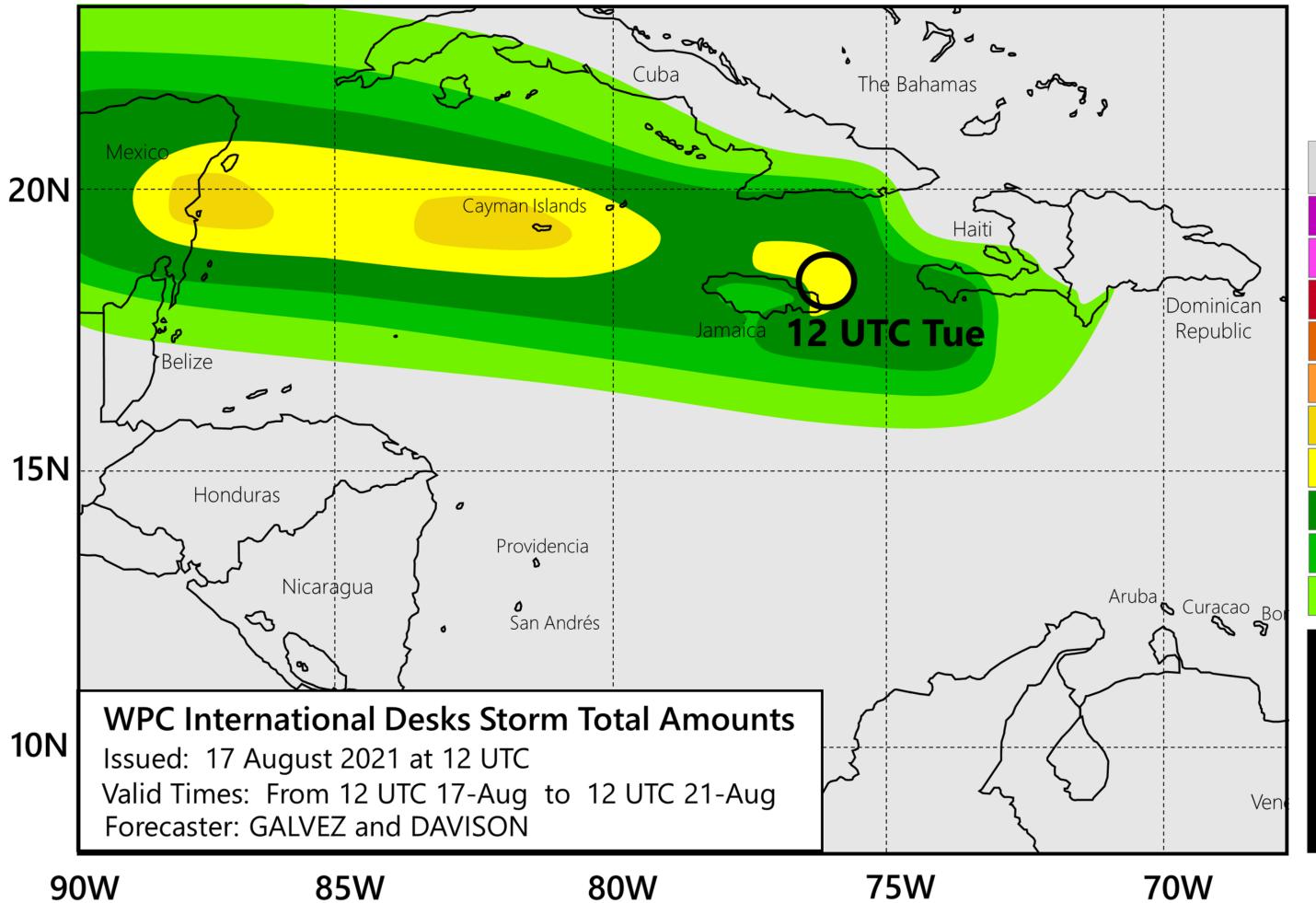
Grace over the SW Gulf of Mexico

Wave heights are in feet



Tropical Storm Grace

Tropical Storm Grace 4-Day Rainfall





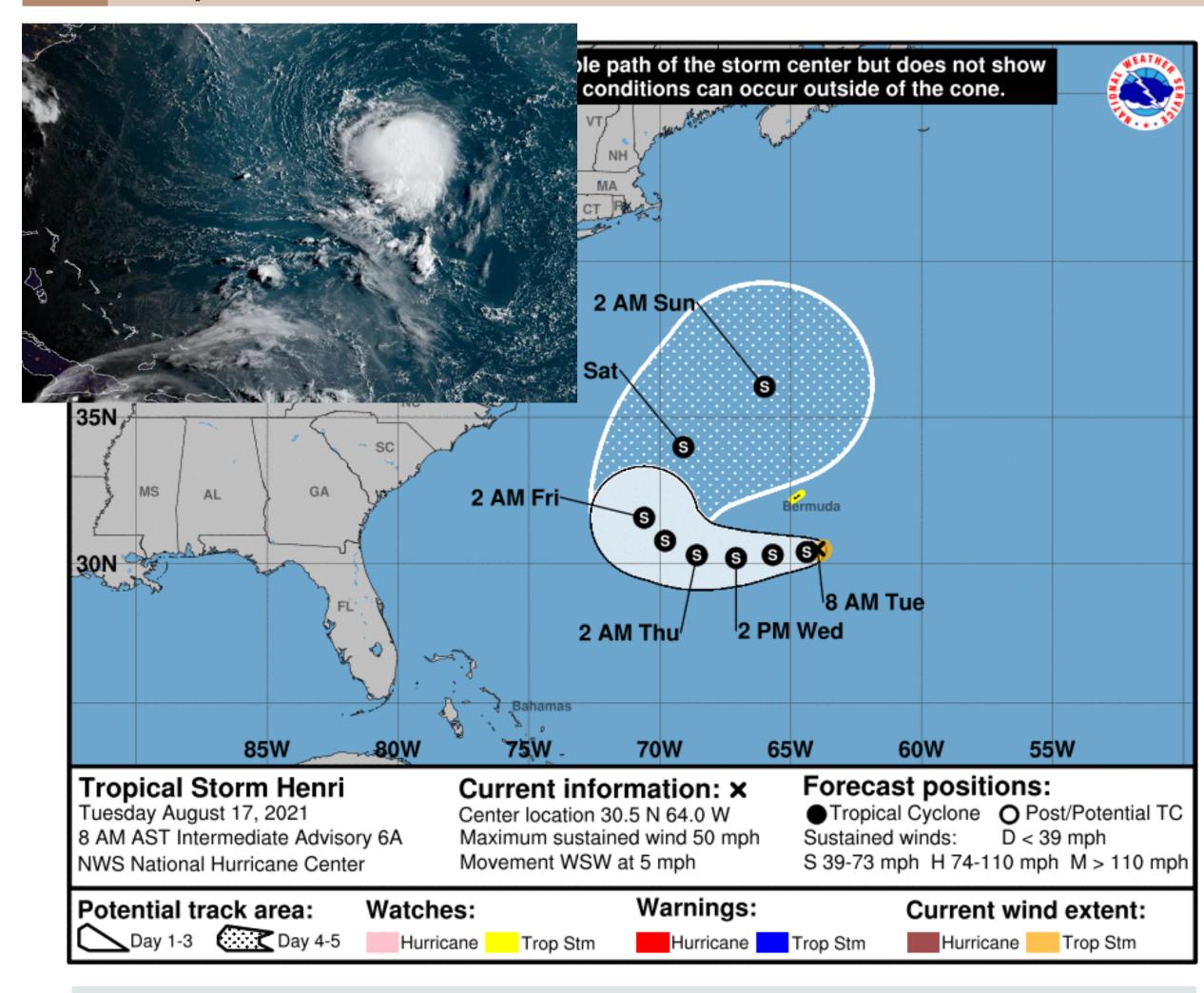
Rainfall (in)	Rainfall (mm)
30+	750+
20-30	500-750
15-20	375-500
10-15	250-375
8-10	200-250
6-8	150-200
4-6	100-150
3-4	75-100
2-3	50-75
1-2	25-50

NOTE This forecast is for planning purposes. A detailed official forecast will be issued by the respective National Hydro Meteorological Service.

These are additional rainfall amounts from Tropical Storm Grace, beginning at 8am EDT Tue 8/17

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Storm Henri



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

- Tropical Storm Henri forecast to remain well east of the U.S. east coast
- Some slight strengthening is forecast during the next 24 hr, with little change in strength thereafter
- 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

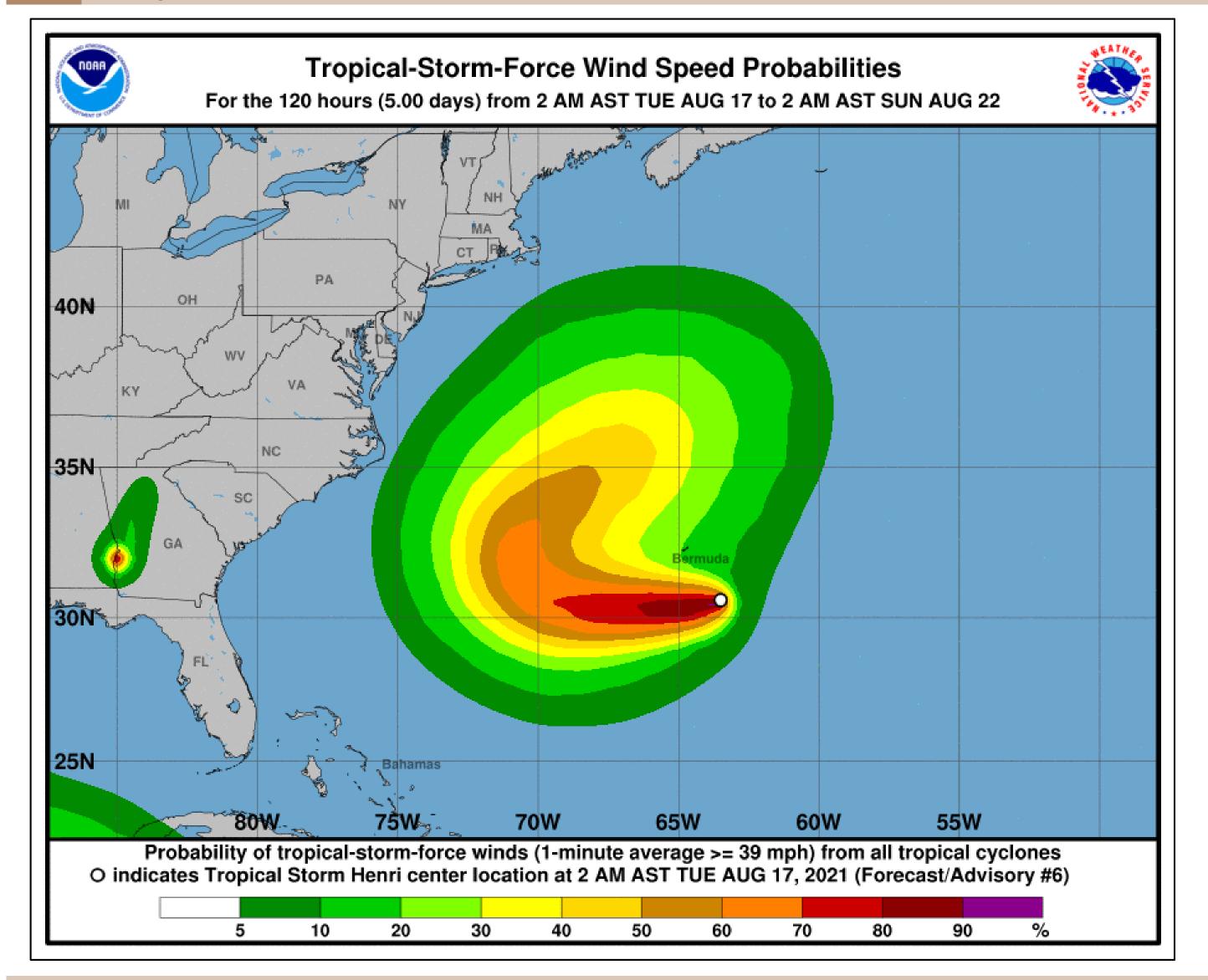
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

T.S. Wind Speed Probabilities

Tropical Storm Henri



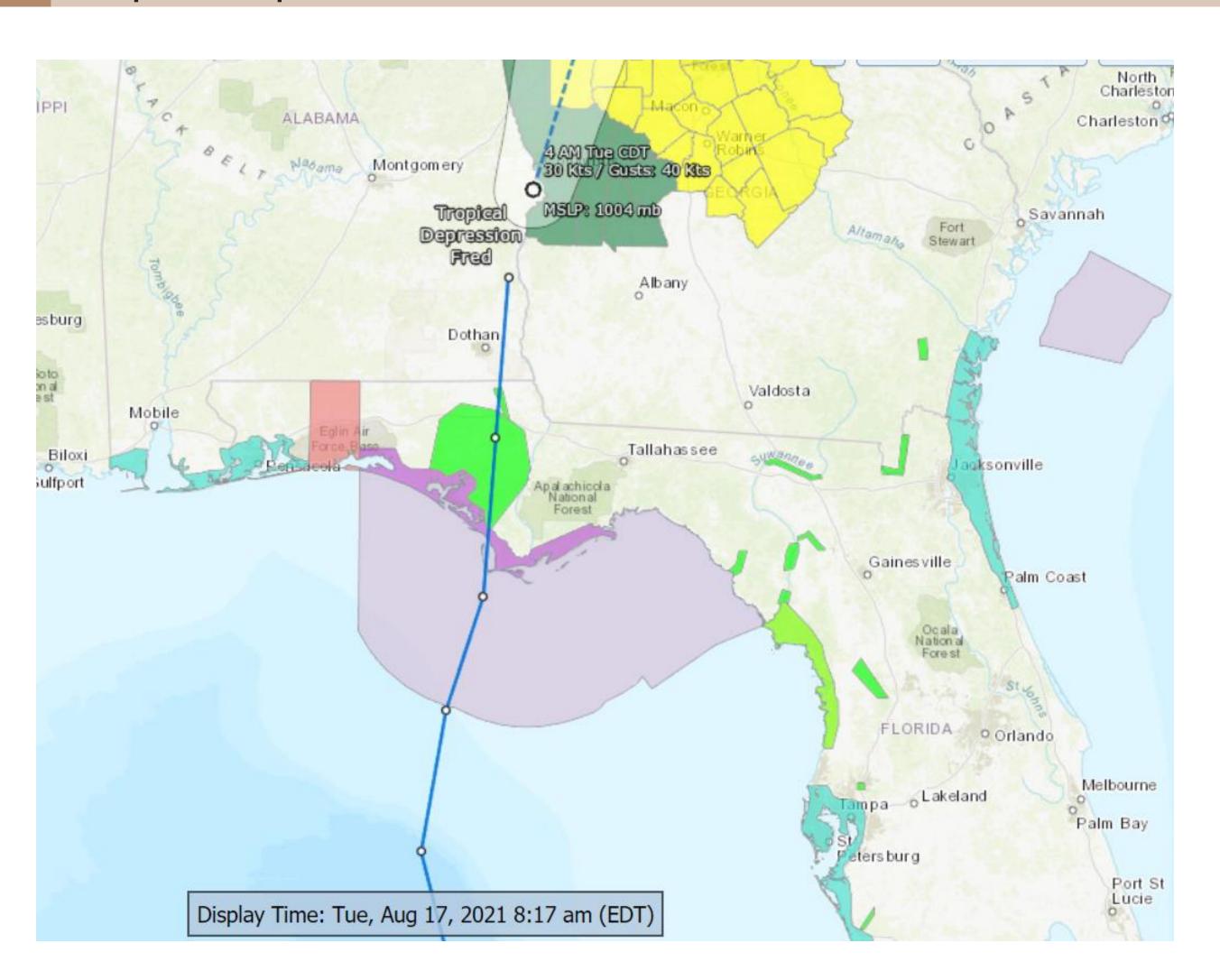
Tropical Analysis and Forecast Branch NWS National Hurricane Center



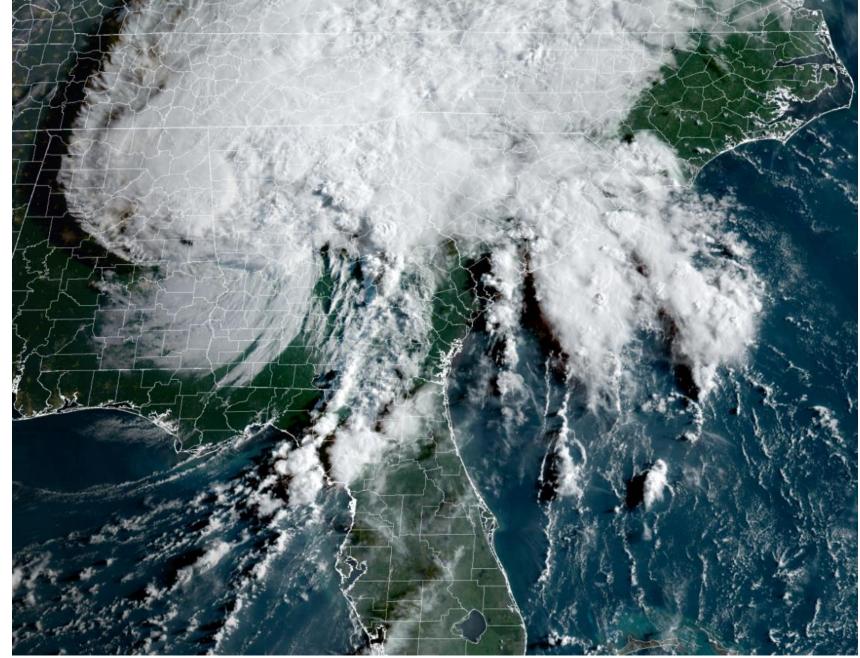
- Probabilities of sustained tropical storm force winds (34 kt to 63 kt) over the next 5 days, based off this cyclone's wind radii and track.
- Clear or dark green are the lowest chances of 0-30%.
- Yellow to orange is 31-70%
- Red through purple are the highest probabilities of 71%-100%
- See the color bar below the image for more details.

SERVIN

Tropical Depression Fred







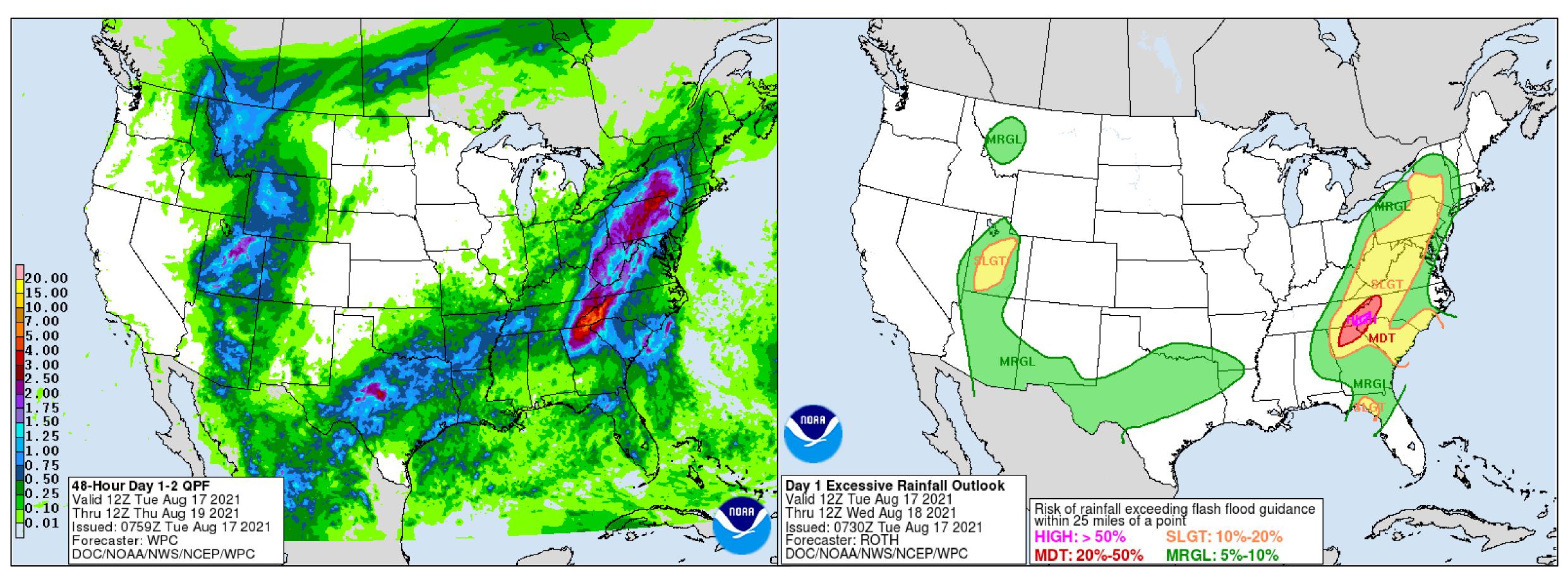
Expected Storm Total Rainfall and Chance of Rainfall Flooding

EATHER SERVICE

Tropical Analysis and Forecast Branch NWS National Hurricane Center

Tropical Depression Fred

Images from NWS Weather Predication Center



48-hr rainfall forecast:

8/17 8am EDT — 8/19 8am EDT

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

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

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

Flood Risk (through Wednesday morning)



TROPICAL STORM GRACE, TROPICAL STORM HENRI, TROPICAL DEPRESSION FRED 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