

IMPACTS FOR D7 (through next 3 days)

Winds – **Moderate** (FL), **Moderate** (SC)

Storm Surge – **Low** (FL), **Moderate** (SC)

Rainfall/Flash Flooding – **Low** (FL), **Moderate** (SC)

Tornadoes – None (FL), **Low** (SC)

Waves - **High**

TROPICAL STORM ISAIAS BRIEFING



4:00 PM EDT
Sunday, August 2, 2020

Prepared by:
Chris Landsea

*Tropical Analysis and Forecast Branch
NWS National Hurricane Center*



NHC_TAFB

www.nhc.noaa.gov

Situation Overview

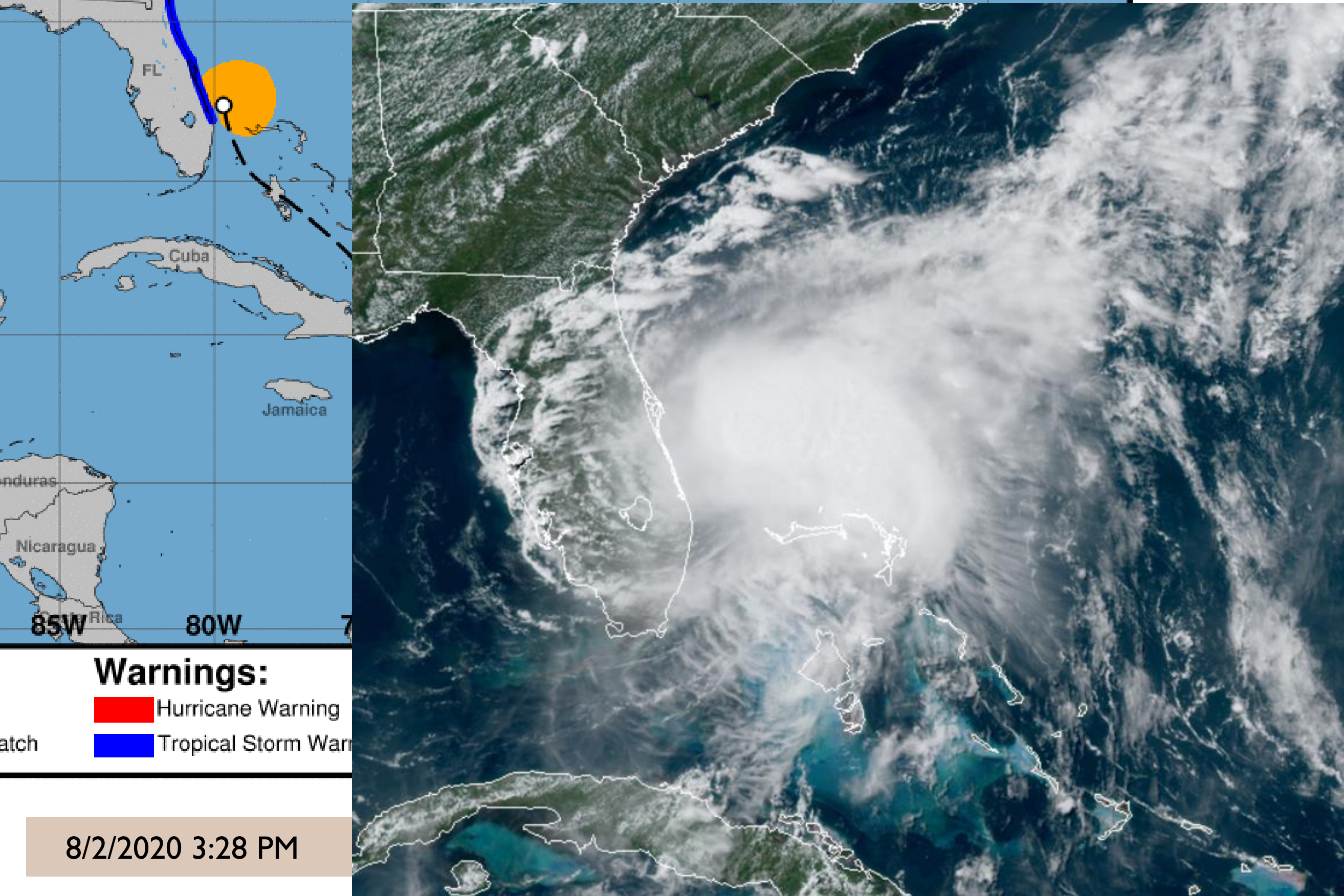
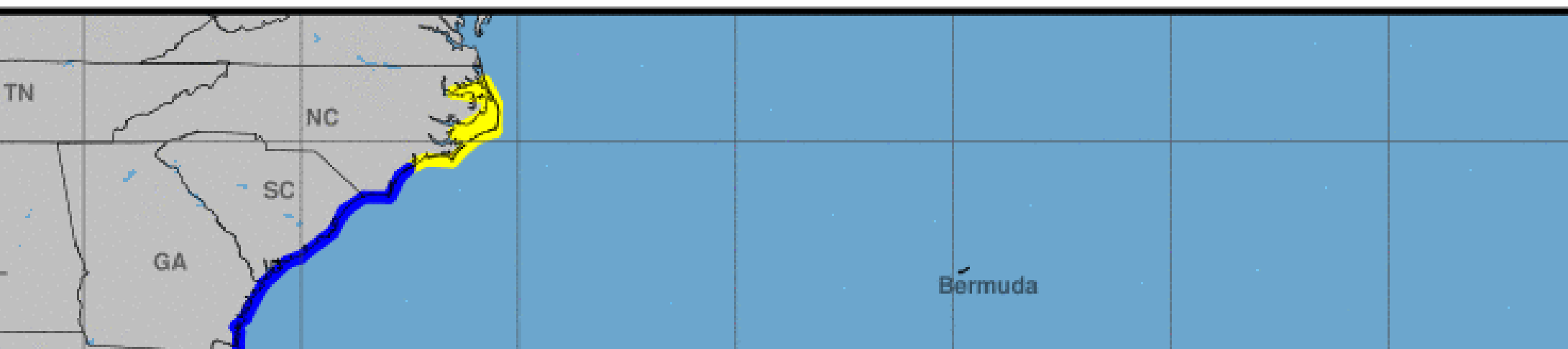
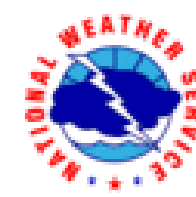
Tropical Storm Isaias



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NWS National Hurricane Center

Surface Wind Field of Tropical Storm Isaias

Estimated Winds as of 200 PM EDT Sun Aug 02, 2020 Advisory Number 22A



...ISAIAS MOVING SLOWLY NORTH-NORTHWESTWARD JUST OFFSHORE THE EAST-CENTRAL FLORIDA COAST...

SUMMARY OF 200 PM EDT INFORMATION

LOCATION...27.4N 79.7W
ABOUT 45 MI ESE OF VERO BEACH FL
ABOUT 90 MI SE OF CAPE CANAVERAL FL
MAXIMUM SUSTAINED WINDS...55 KT
PRESENT MOVEMENT...NNW AT 8 KT

SIZE (in nautical miles)
50 KT..... 60NE 30SE 0SW 0NW.
34 KT..... 100NE 80SE 0SW 60NW.
12 FT SEAS.. 150NE 90SE 30SW 75NW.
PEAK SEAS 22 FT

Warnings:

■ Hurricane Warning
■ Tropical Storm Warning

8/2/2020 3:28 PM

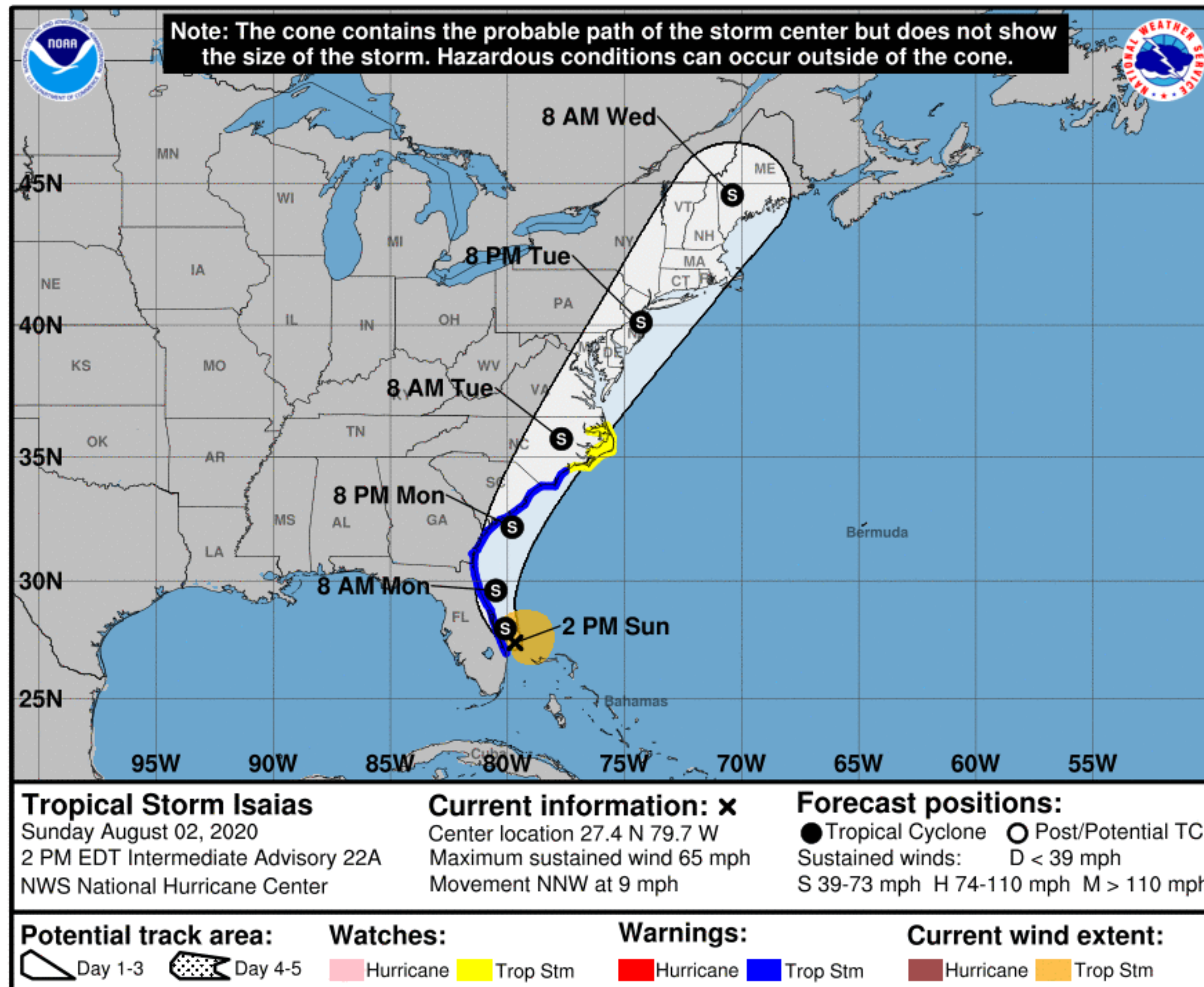
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Forecast Information

Tropical Storm Isaias



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

- Isaias is expected to turn toward the north by tonight, then accelerate toward the north-northeast Monday and Tuesday
- The tropical storm will move close to or over the east central Florida coast for remainder of today and tonight
- After recurvature, Isaias will impact South Carolina and farther north along the U.S. mid-Atlantic and New England coasts
- Isaias should weaken slowly over the next three days
- Current center forecast positions through the next 5 days illustrated by dots
- White swath of potential track is average track error added to each side of the forecast track through day 3

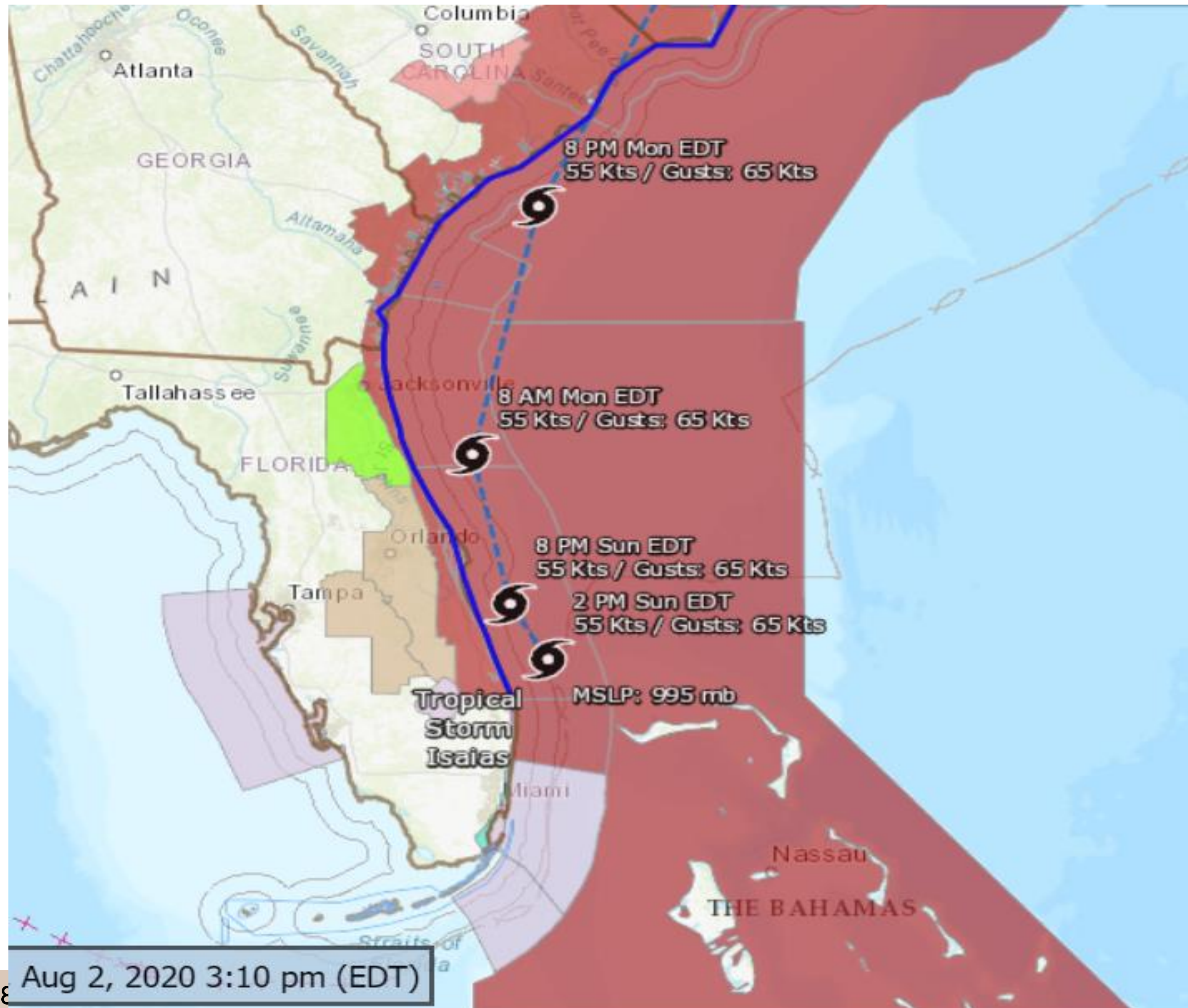
** Swaths are calculated using average track errors and actual track may be well inside, or possibly outside the potential track areas indicated.

Hazards Map

Tropical Storm Isaias



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■ <https://nowcoast.noaa.gov/>

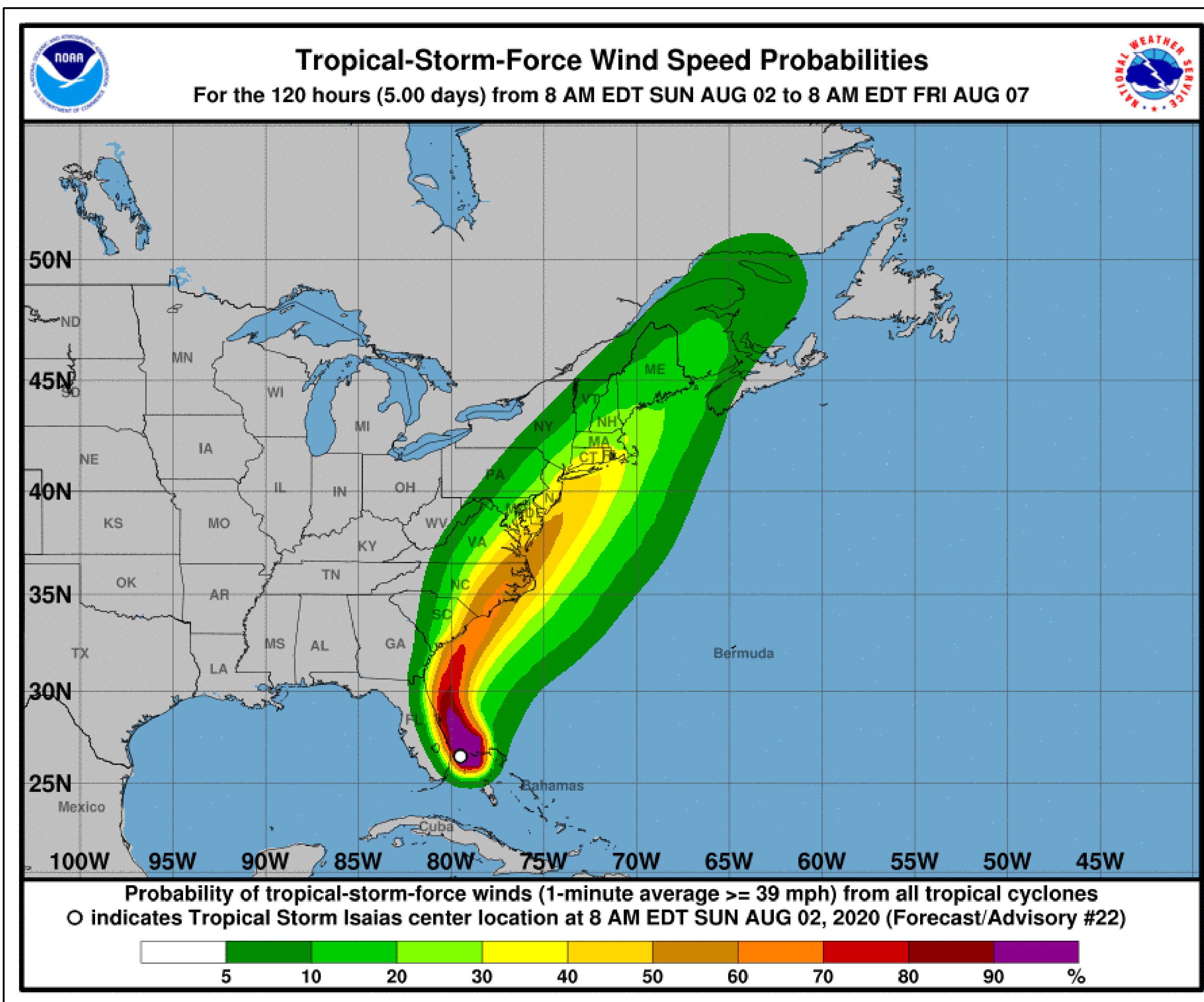
- Tropical Storm Warning
- Tropical Storm Watch
- Small Craft Advisory

T.S. Wind Speed Probabilities

Tropical Storm Isaias



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- Palm Beach – 100%, Cape Canaveral – 65%, Jacksonville – 5%, Savannah – 10%, Charleston – 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.

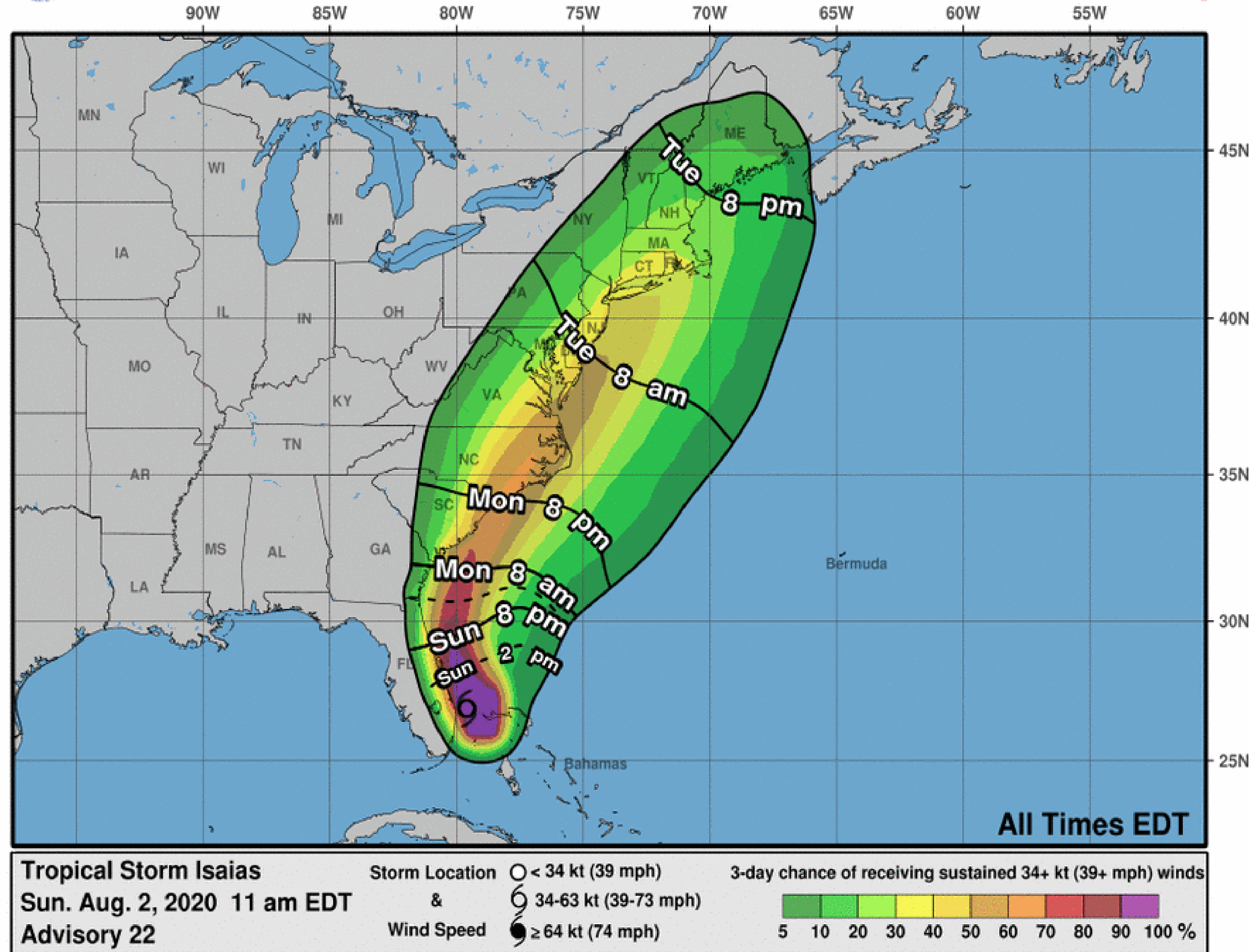
Earliest Reasonable Time of Arrival

Tropical Storm Isaias



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0-3 Day Earliest Reasonable Arrival Time of Tropical-Storm-Force Winds



- Cape Canaveral – This evening
- Georgia – Early morning Monday
- South Carolina – Monday noon
- The earliest reasonable 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 Isaias



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Tonight's Conditions
8pm EDT, Sunday, August 2nd, 2020

Peak Winds: 55 kt

Peak Seas: 25 ft

- Wave heights are in feet



Wind And Waves

Tropical Storm Isaias



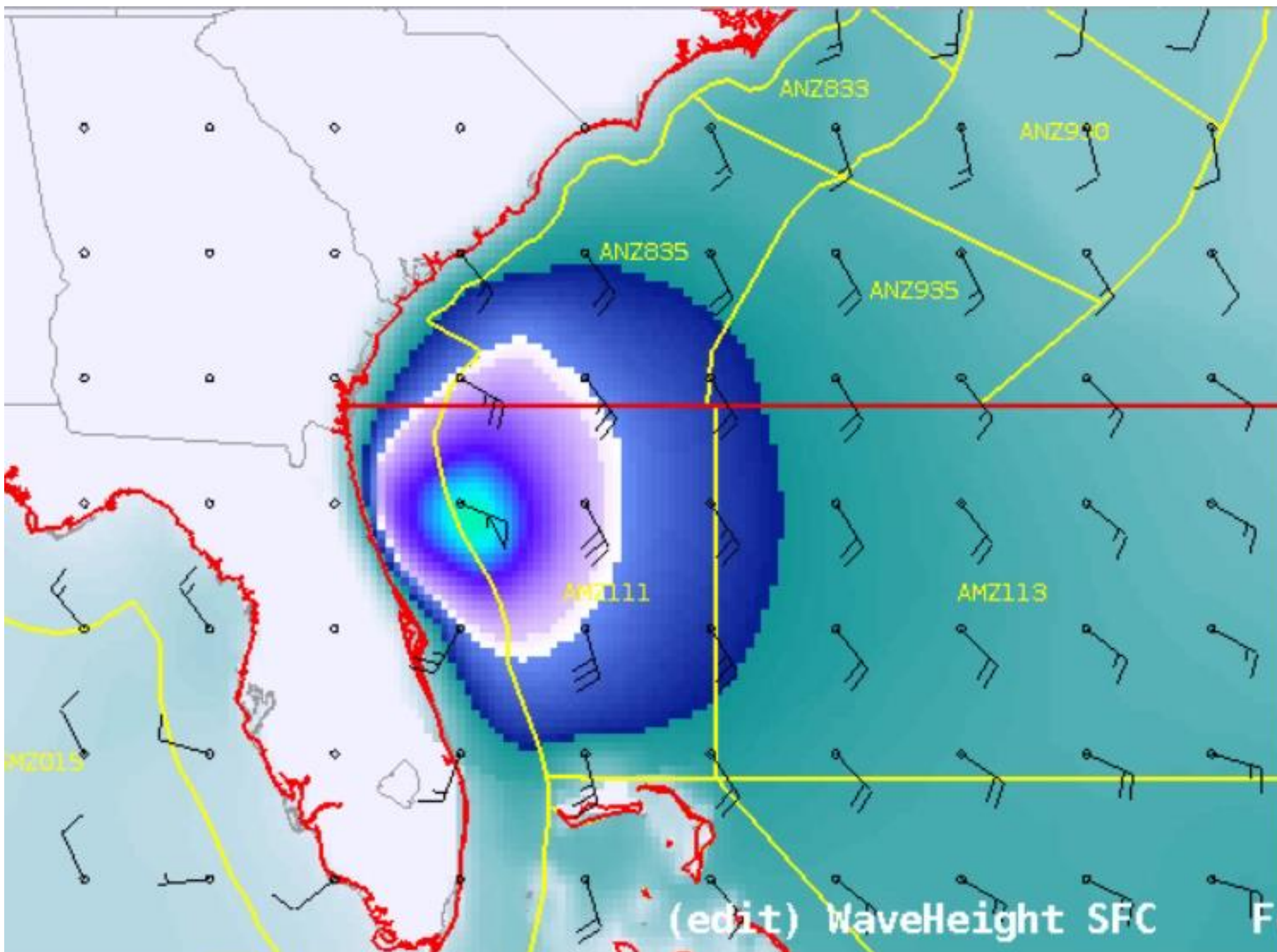
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18 Hour Forecast 8am EDT, Monday, August 3rd, 2020

Peak Winds: 55 kt

Peak Seas: 25 ft

- Wave heights are in feet



Wind And Waves

Tropical Storm Isaias



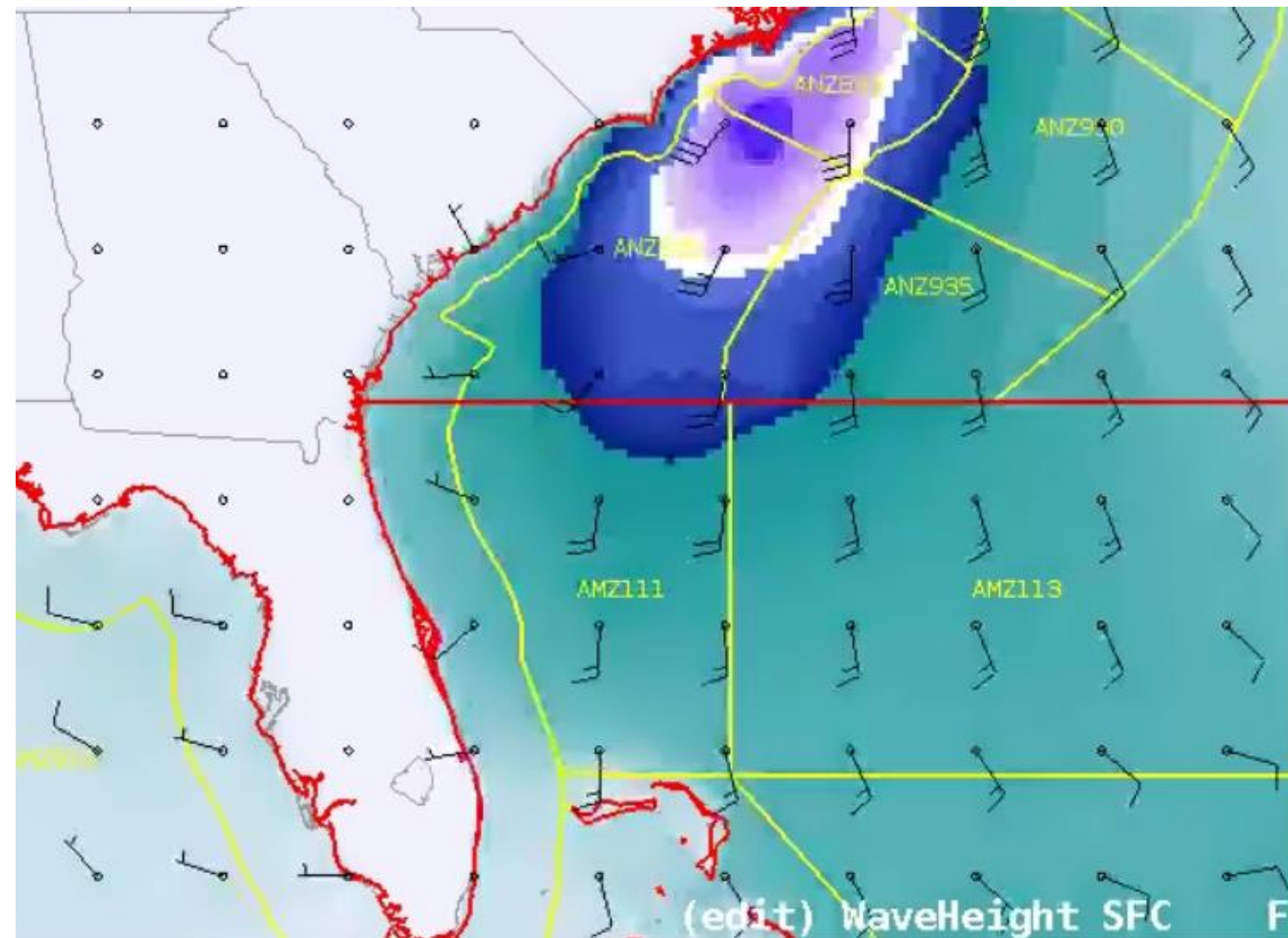
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NWS National Hurricane Center

42 Hour Forecast

8am EDT, Tuesday, August 4th, 2020

Peak Winds: 35 kt (in D7 SRR)

Peak Seas: 15 ft (in D7 SRR)



- Wave heights are in feet

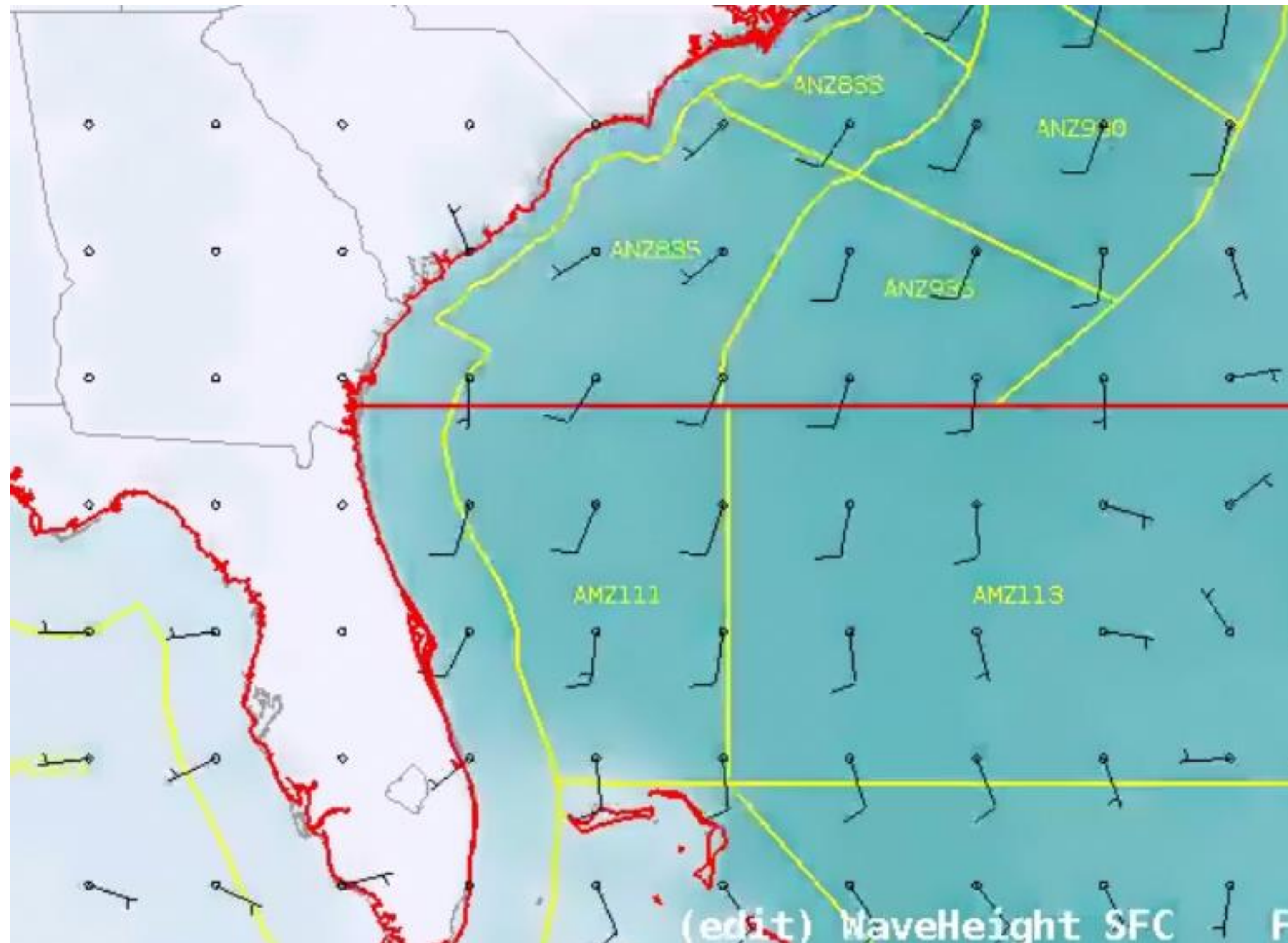


Wind And Waves

Tropical Storm Isaias



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66 Hour Forecast

8am EDT, Wednesday, August 5th, 2020

Peak Winds: 10 kt (in D7 SRR)

Peak Seas: 6 ft

- Wave heights are in feet

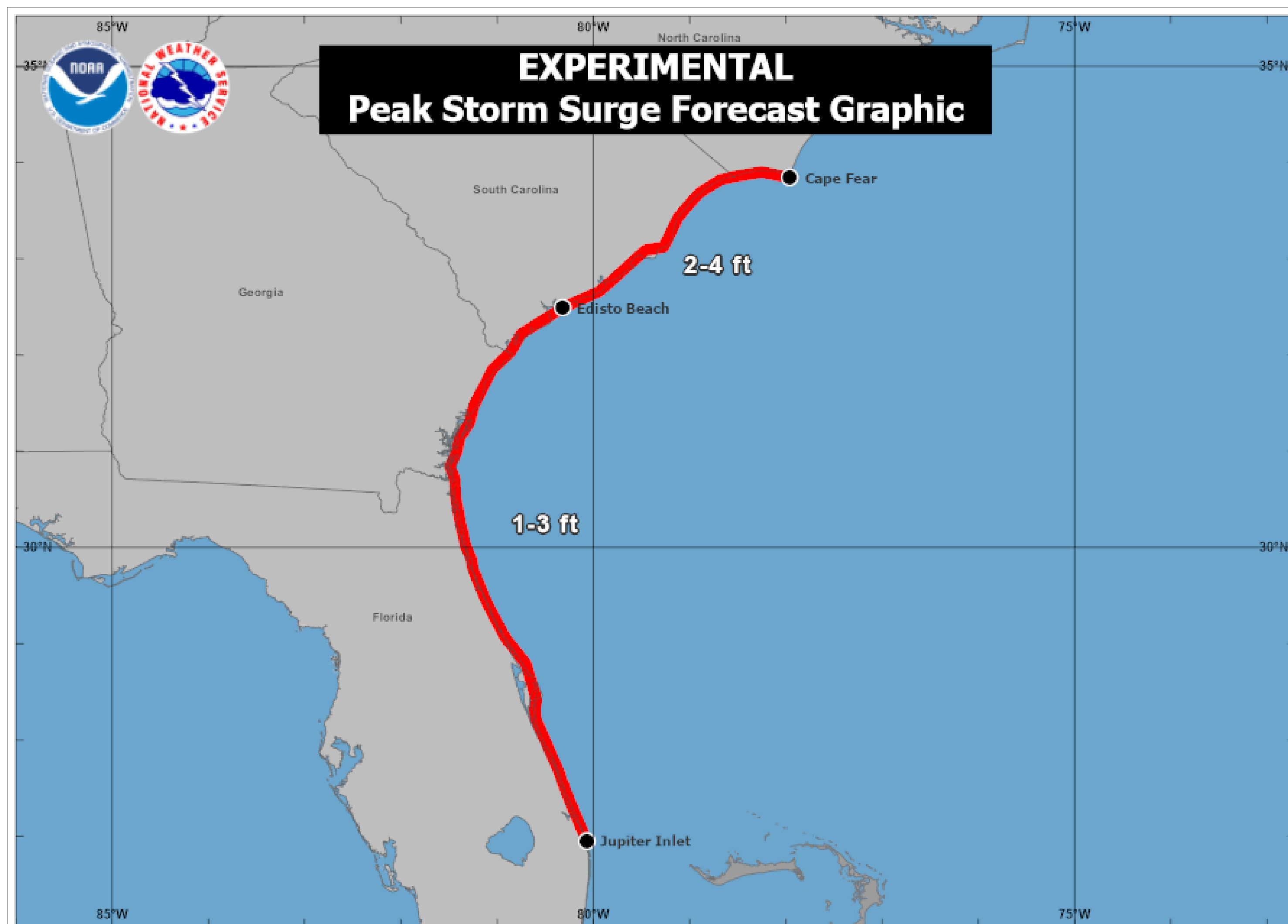


Potential Peak Storm Surge

Tropical Storm Isaias



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EXPERIMENTAL Peak Storm Surge Forecast Graphic

- Potential storm surge is represented in feet above the ground at any given point.
- A **Storm Surge Watch** is in effect for...
- Edisto Beach South Carolina to Cape Fear North Carolina

Tropical Storm Isaias
Sunday August 02, 2020
11 AM EDT Advisory 22
NWS National Hurricane Center

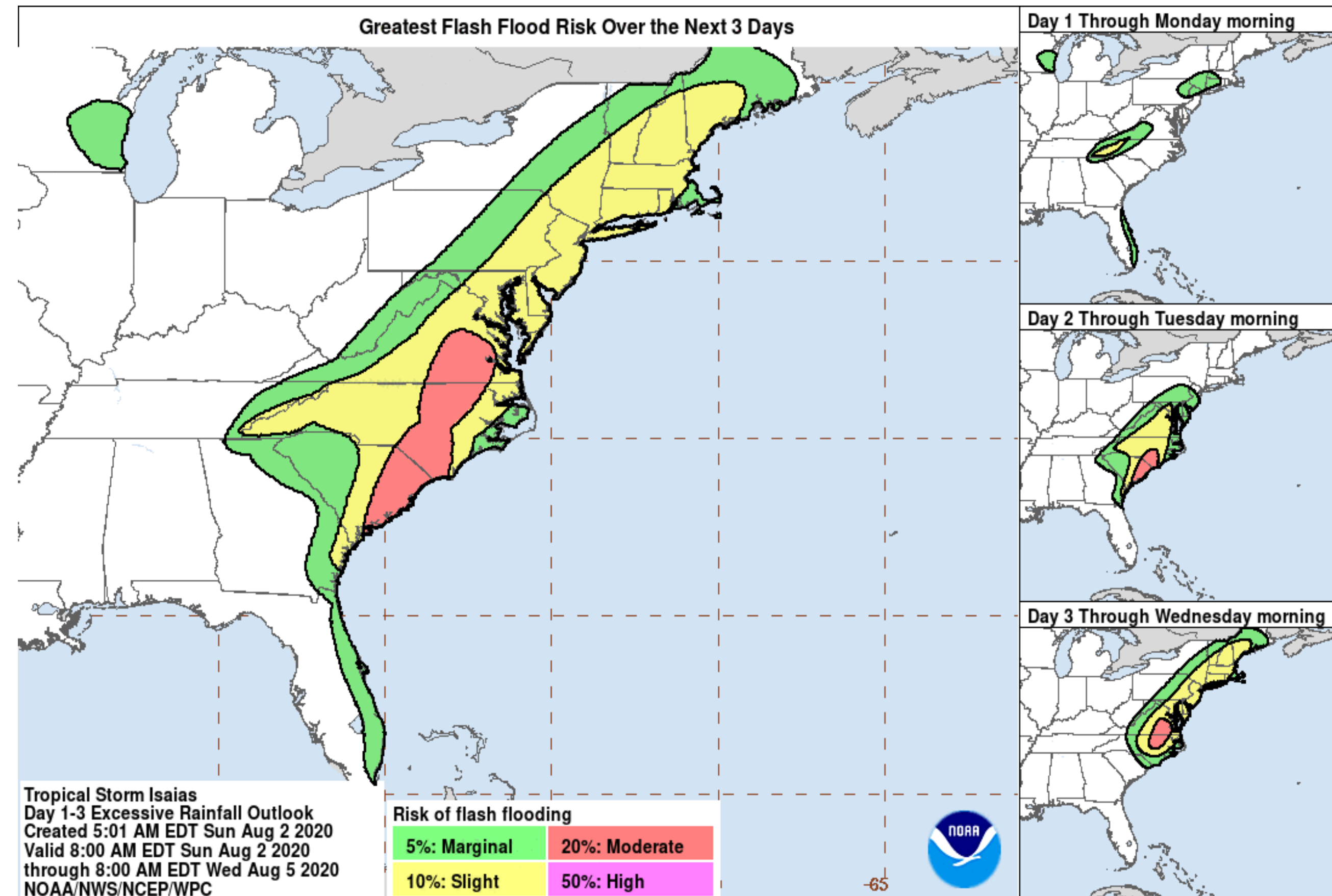
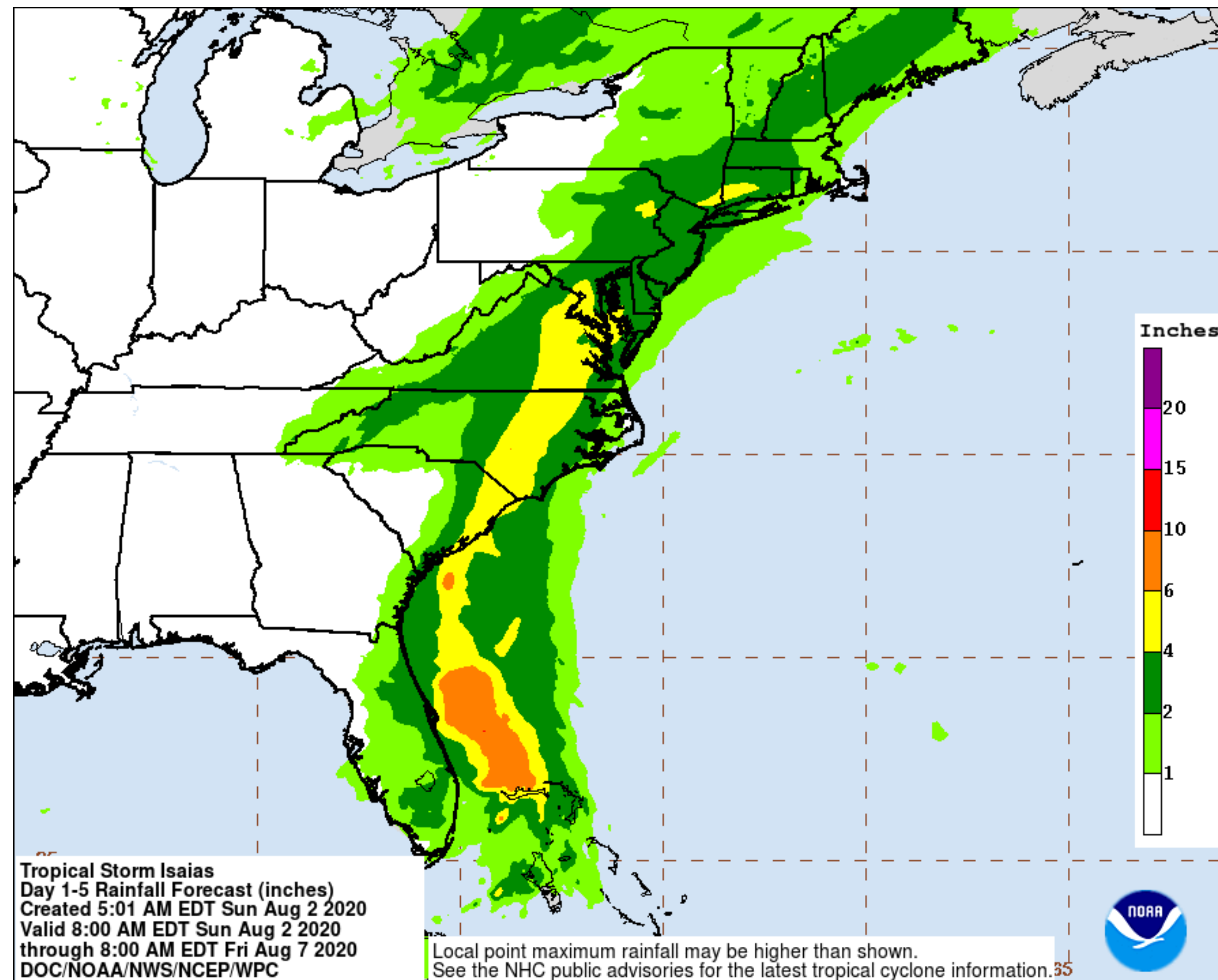
The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water could reach the following heights above ground somewhere within the indicated areas if the peak surge occurs at the time of high tide. The deepest water will occur along the immediate coast near the landfall location, where the surge will be accompanied by large and destructive waves. Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances.

Expected Storm Total Rainfall and Chance of Flooding Rain



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Tropical Storm Isaias



- Total rainfall in inches through Friday 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

Key Messages

Tropical Storm Isaias



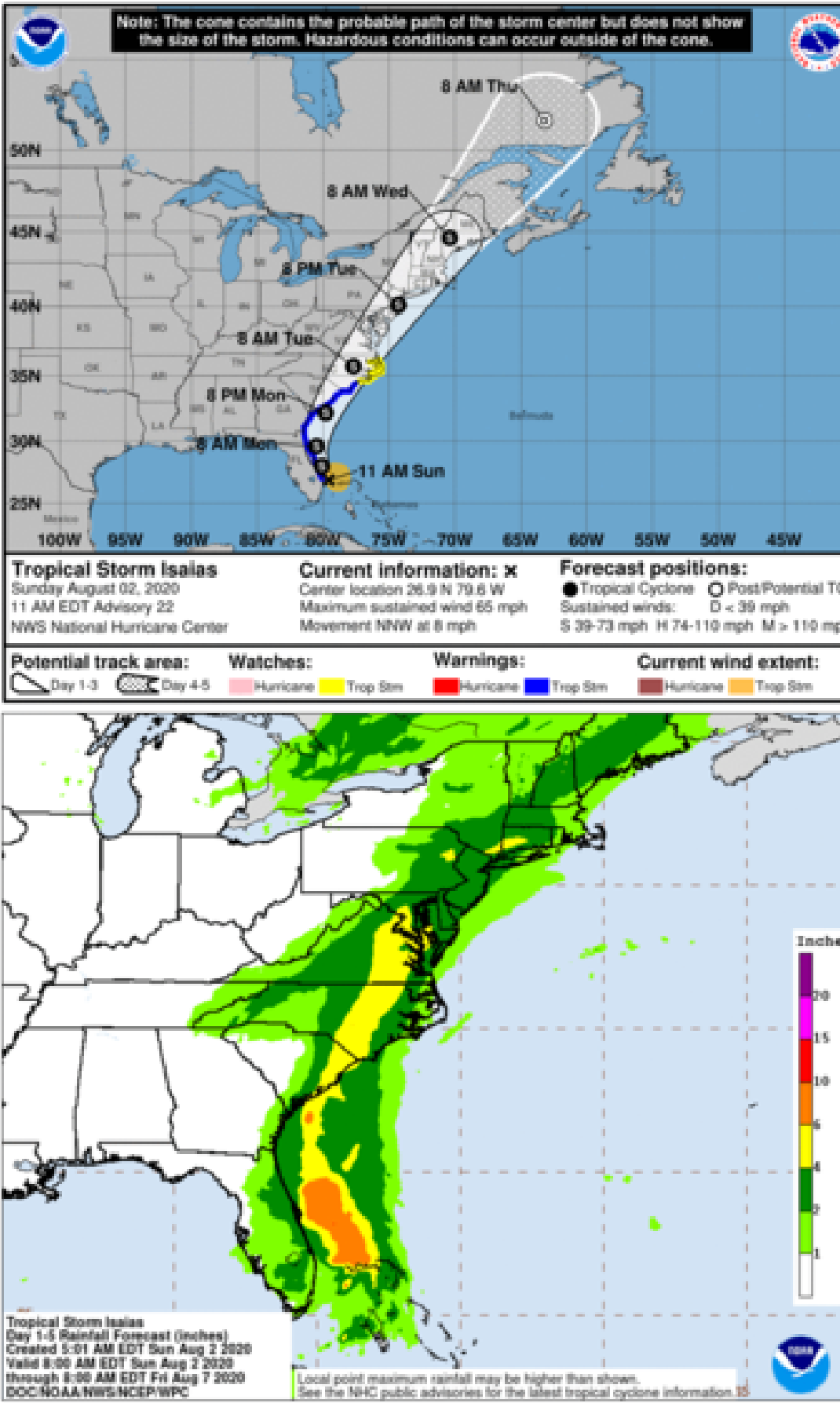
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Key Messages for Tropical Storm Isaias

Advisory 22: 11:00 AM EDT Sun Aug 02, 2020

1. Tropical storm conditions will spread northward along the east coast of Florida within the warning area through early Monday and will reach the coasts of Georgia, South Carolina, and southern North Carolina within the warning area Monday and early Tuesday.
2. Dangerous storm surge is possible from Edisto Beach South Carolina to Cape Fear North Carolina where water rises of 2 to 4 feet above ground level are possible along the immediate coastline and adjacent waterways. A Storm Surge Warning may be needed for a portion of this area later today, and residents there should follow advice given by local emergency officials.
3. Heavy rainfall from Isaias will continue to result in potentially life-threatening flash flooding in the Northwest Bahamas through tonight. Flash and urban flooding, some of which may be significant in the coastal Carolinas and Virginia, is expected through midweek along and near the path of Isaias along the U.S. East Coast. Widespread minor to isolated moderate river flooding is possible across portions of the Carolinas and Mid-Atlantic.
4. A Tropical Storm Watch is in effect for portions of the North Carolina coast, where tropical storm conditions are possible on Tuesday. Additional watches and warnings will likely be issued later today as Isaias is expected to move northward near or over the mid-Atlantic and northeast coasts Tuesday and Wednesday.



Note: The cone contains the probable path of the storm center but does not show the size of the storm. Hazardous conditions can occur outside of the cone.

Tropical Storm Isaias
Sunday August 02, 2020
11 AM EDT Advisory 22
NWS National Hurricane Center

Current information: x
Center location 26.9 N 79.6 W
Maximum sustained wind 65 mph
Movement NNW at 6 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 Tropical Storm
Warnings: Hurricane Tropical Storm
Current wind extent: Hurricane Tropical Storm

Tropical Storm Isaias
Day 1-5 Rainfall Forecast (inches)
Created 5:01 AM EDT Sun Aug 2 2020
Valid 8:00 AM EDT Sun Aug 2 2020 through 8:00 AM EDT Fri Aug 7 2020
DOC: NOAA/NWS/NCEP/WWPC

Local point maximum rainfall may be higher than shown.
See the NHC public advisories for the latest tropical cyclone information.

For more information go to hurricanes.gov

- **Marine Key Messages:**
- Peak seas near 25 ft just offshore of central Florida
- Large area of seas 12' or greater will move with Isaias just east of NE Florida, Georgia, and South Carolina tonight and Monday
- Seas will subside in D7 SRR by Tuesday



TROPICAL STORM ISAIAS BRIEFING

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

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

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



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