



Weather Briefing

July 1, 2024
11:00 AM

For Southeast South Carolina and Southeast Georgia

Routine Weekly Weather Briefing

→ As of 11 AM Monday, July 1, 2024

* Highlights

- **Flash Flooding:** Rainfall amounts of 2-4" with localized amounts in excess of 6" are possible this afternoon and evening. Hourly rainfall rates could exceed 3 in/hr at times.
- **Damaging Winds:** Thunderstorm wind gusts could damage trees and power lines and result in scattered power outages.
- **Excessive Heat:** Hot and humid conditions are expected late week into the weekend. Heat indices could reach or exceed 108 degrees.





Marine Highlights

- Waterspouts are possible across the nearshore waters this morning.
- Widespread showers and thunderstorms could also reduce visibilities across local waters to 1 NM or less at times and produce gusty winds, some of which could necessitate Special Marine Warnings late today.
- There will be a bit of a post-frontal surge tonight with speeds increasing to 15-20 kt over the South Santee to Edisto Beach nearshore waters and 10-15 kt elsewhere. Seas should also build upwards to 3-5 ft tonight (highest across Charleston County waters late).

Aviation Highlights

- Flight restrictions in low clouds could linger into Tuesday. Otherwise, brief flight restrictions are possible in showers and thunderstorms, mainly in the afternoon and evenings through the period.

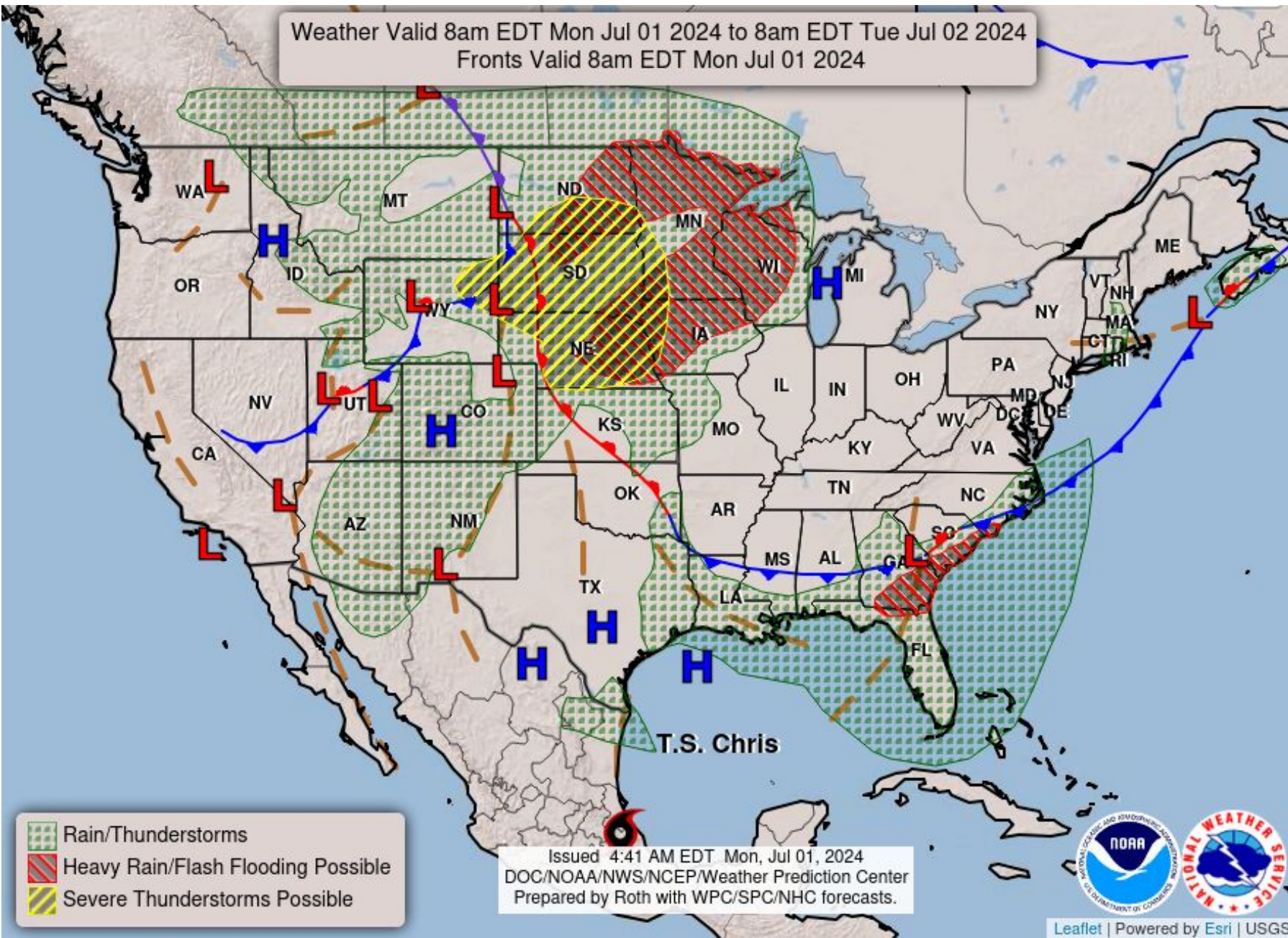
Fire Weather Highlights

- The region remains under either a moderate drought or abnormally dry. However, rainfall may improve the drought conditions.



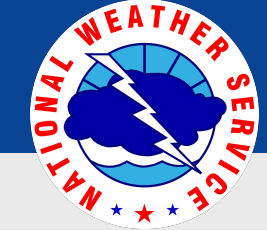
National Forecast - Today

July 1, 2024
11:00 AM



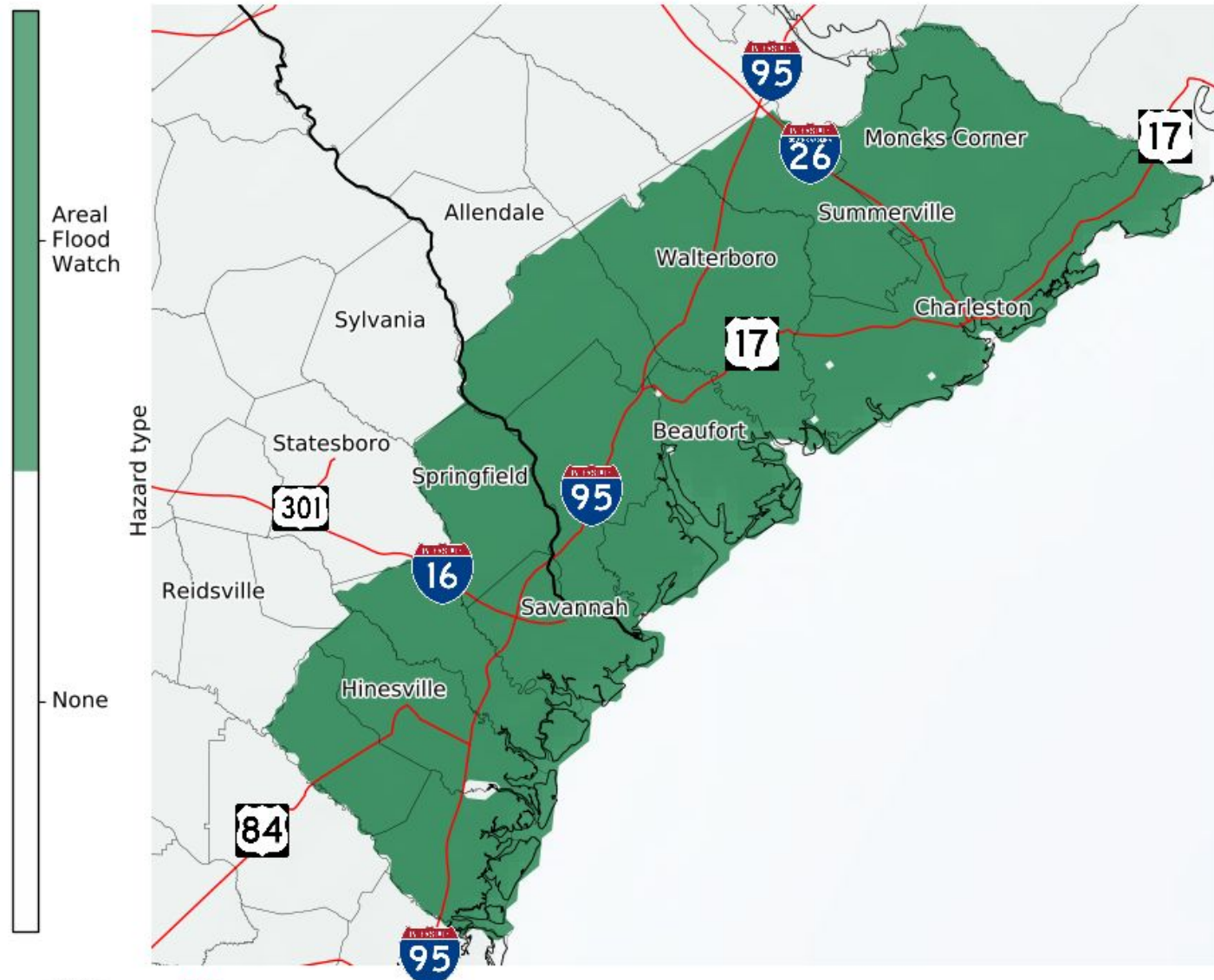
- A large area of showers and thunderstorms will develop along a southward moving cold front today.
- These storms will bring a risk for flash flooding, especially near the coast.
- A couple stronger to possibly severe thunderstorms are also possible.





Flood Watch

Valid: 07/01/2024 12:00 PM - 07/01/2024 09:00 PM EDT



Flood Watch - Noon to 9 PM

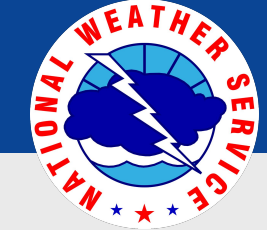
- Rainfall amounts of 2-4” with localized amounts in excess of 6” are possible this afternoon and evening. Hourly rainfall rates could exceed 3 in/hr at times.
- Despite some low-end drought conditions in place, these rainfall rates could be sufficient to produce pockets of flash flooding, especially for the more urbanized areas in and around Beaufort, Charleston, and Savannah.
- Heavy rains could also fall around the afternoon high tide
 - Charleston Harbor: 5:09 PM Monday (6.2 ft MLLW)
 - Fort Pulaski: 5:11 PM Monday (8.1 ft MLLW)



National Weather Service
Charleston, SC
07/01/2024 01:41 PM GMT

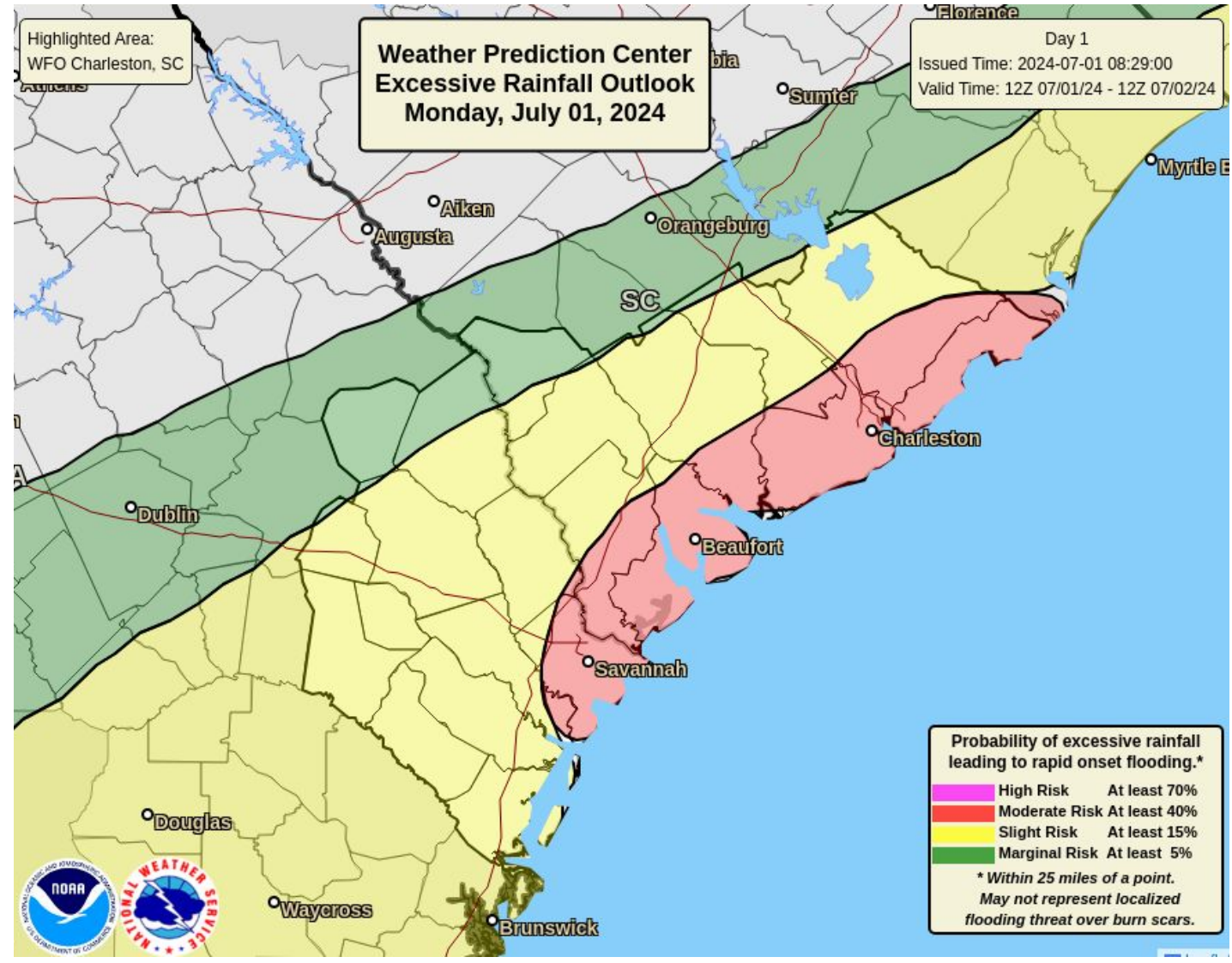
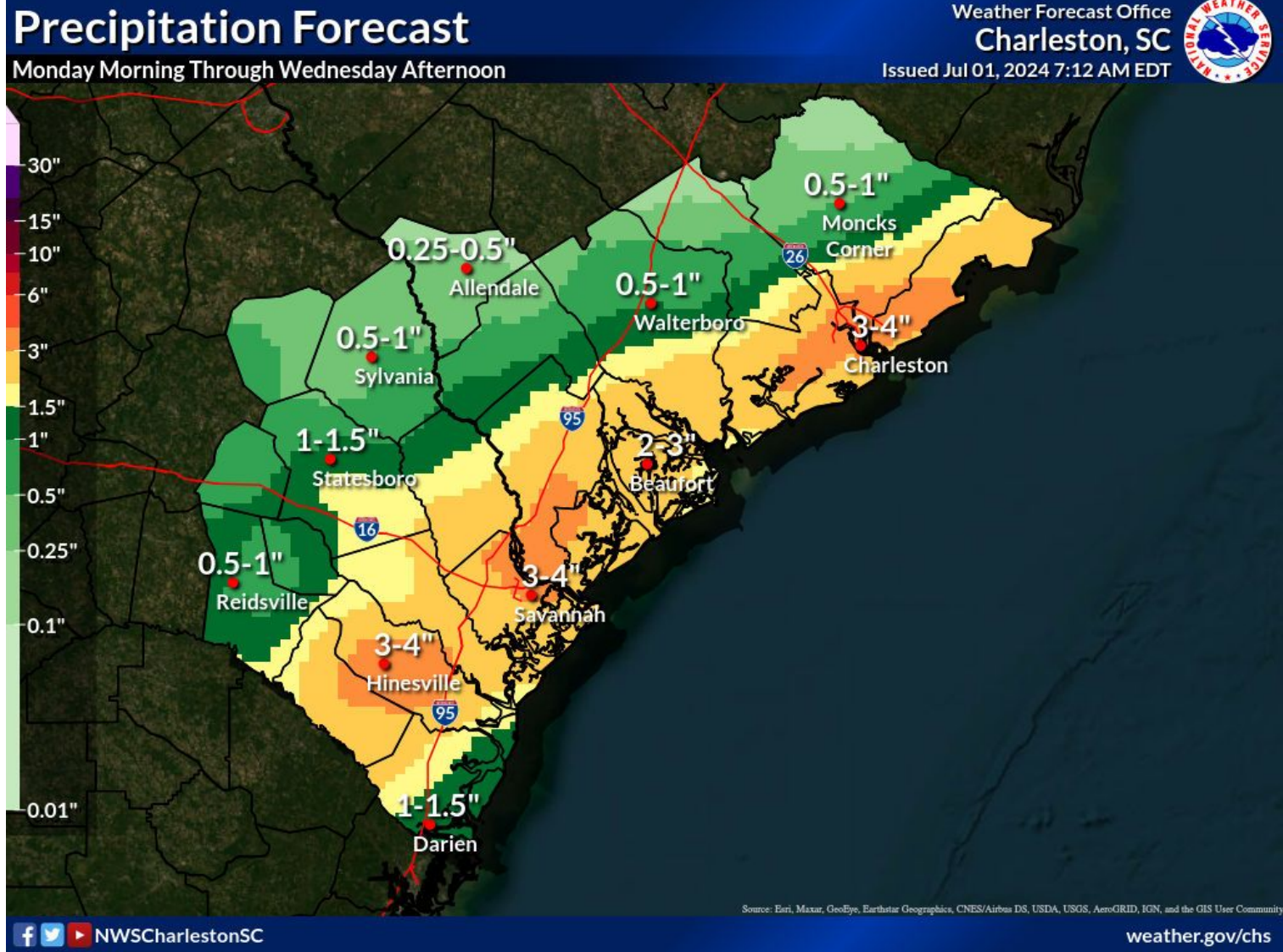
Follow Us:
weather.gov/chs





Rainfall Forecast - Today

July 1, 2024
11:00 AM



➔ Conditions look favorable for widespread showers and thunderstorms. Locally heavy rainfall with hourly rainfall rates in excess of 3 in/hr will be possible, resulting in an increased risk for flooding.





Severe Weather Outlook - Today

July 1, 2024
11:00 AM

Timing



Noon to 9 PM

Location



Southeast South Carolina and Southeast Georgia

Main Threats



Damaging Winds

Wind gusts in excess of 58 mph could damage trees and power lines and result in scattered power outages.



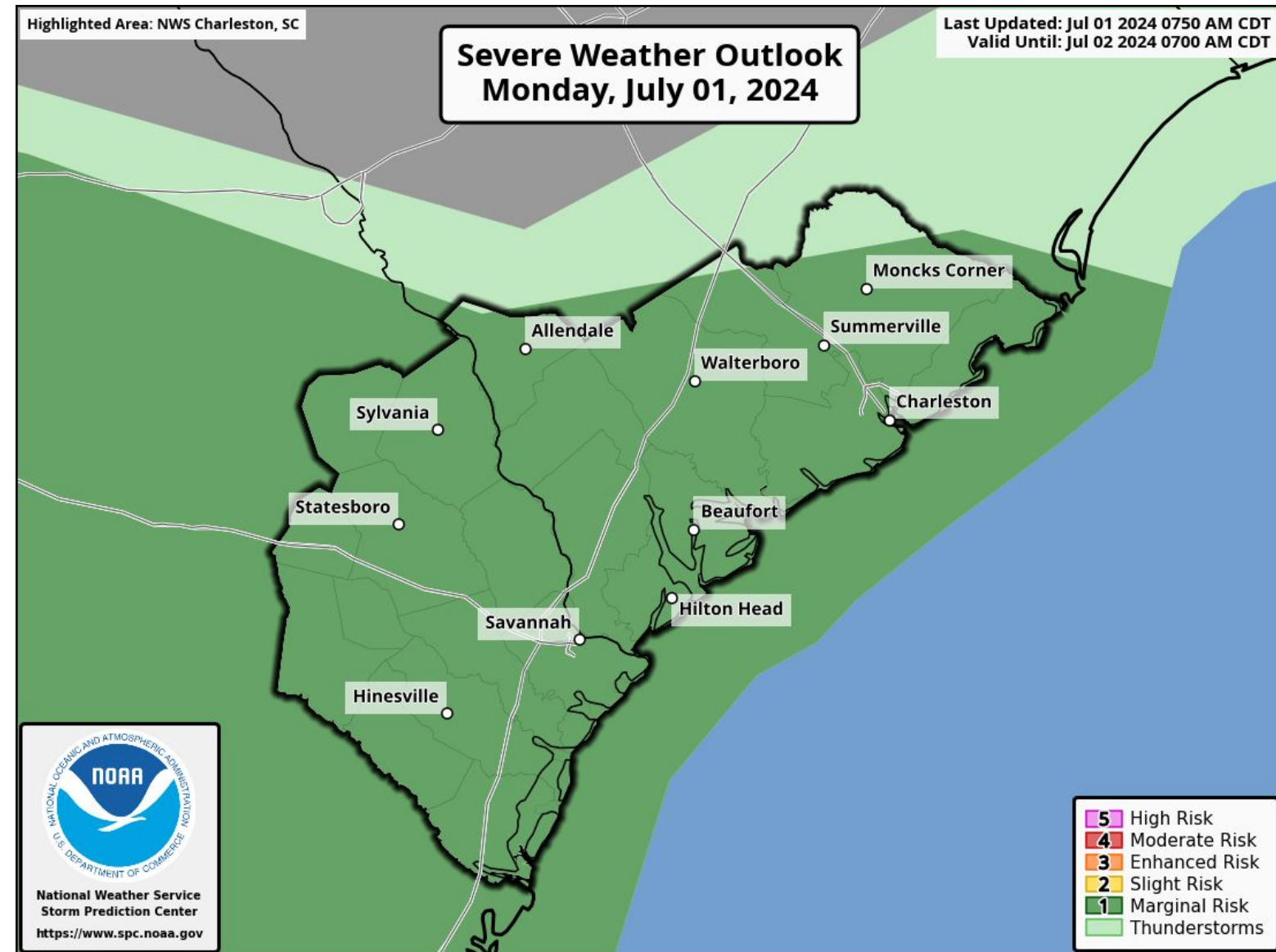
Large Hail

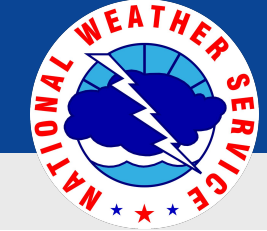
No large hail expected



Tornadoes

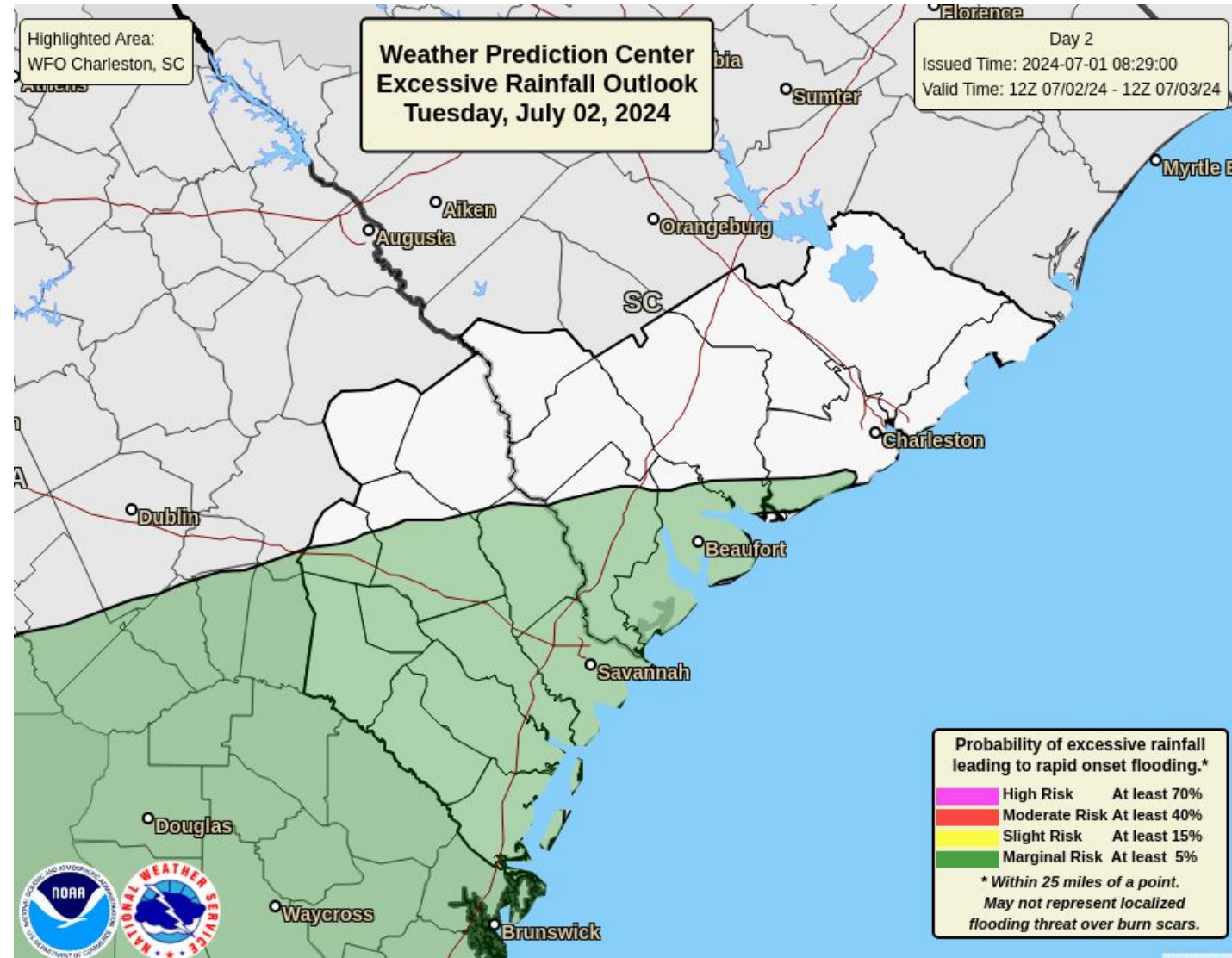
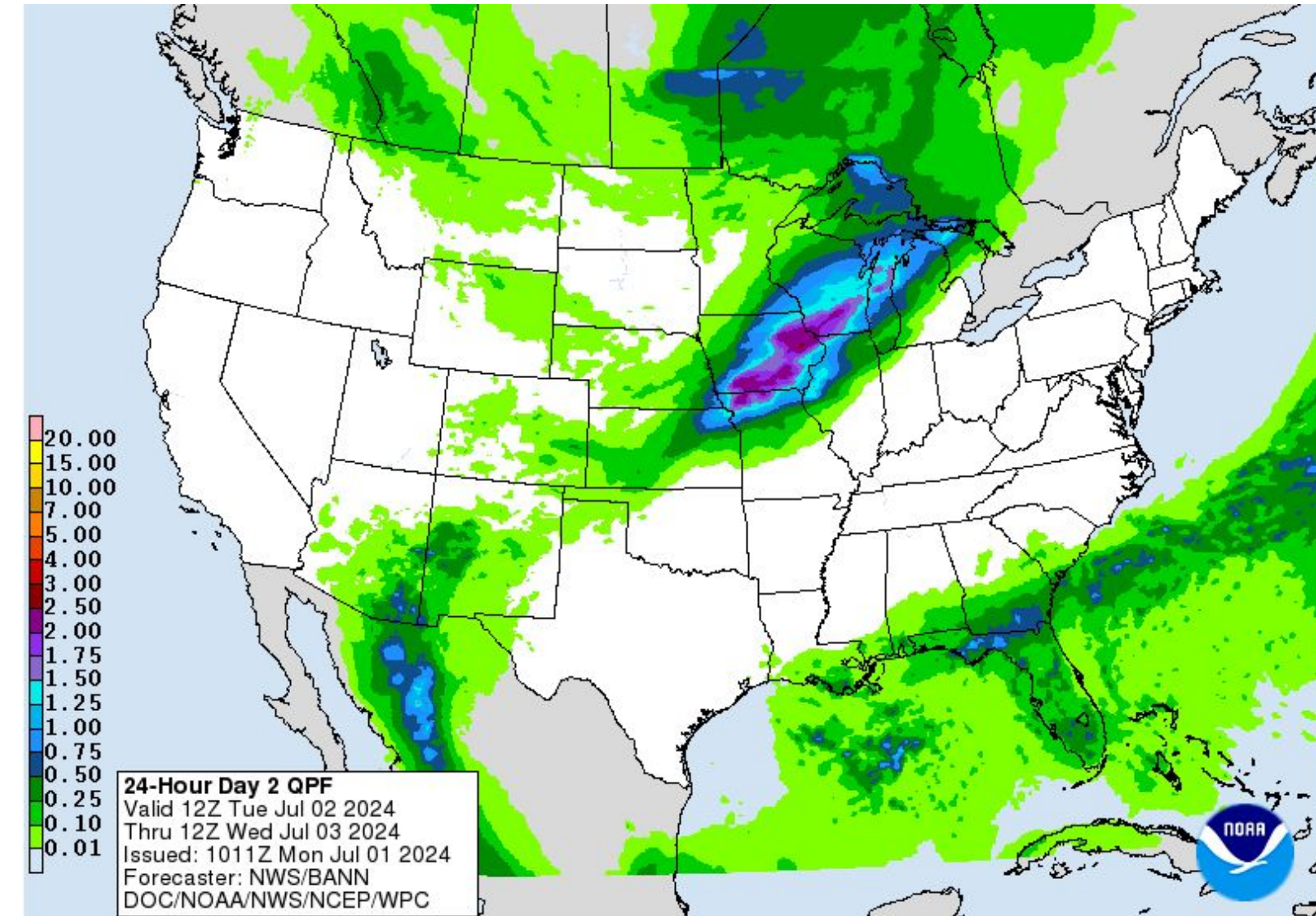
No Tornadoes. However, waterspouts over the coastal waters possible through the rest of this morning





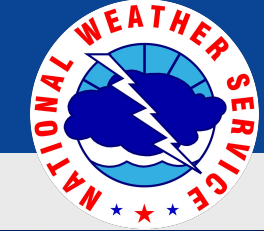
Rainfall Forecast - Tuesday

July 1, 2024
11:00 AM



➔ The front will slow overnight. Conditions may lead to a few thunderstorms with heavy downpours on Tuesday, especially south of the Savannah River.



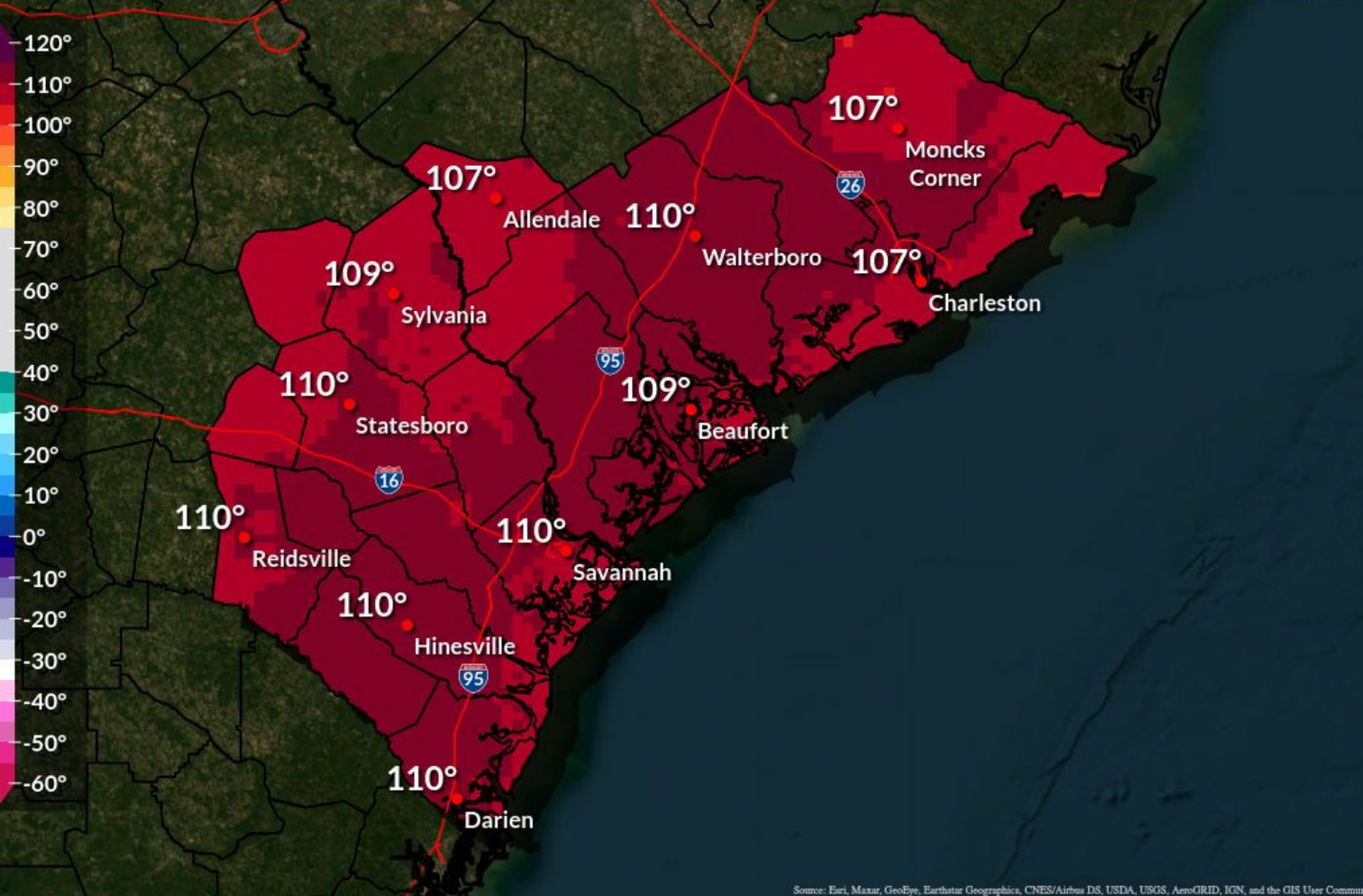


July 1, 2024
11:00 AM

Max Heat Index

Valid 9 AM Sat Jul 06 to 9 PM Sat Jul 06, 2024

Weather Forecast Office
Charleston, SC
Issued Jul 01, 2024 9:42 AM EDT



Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

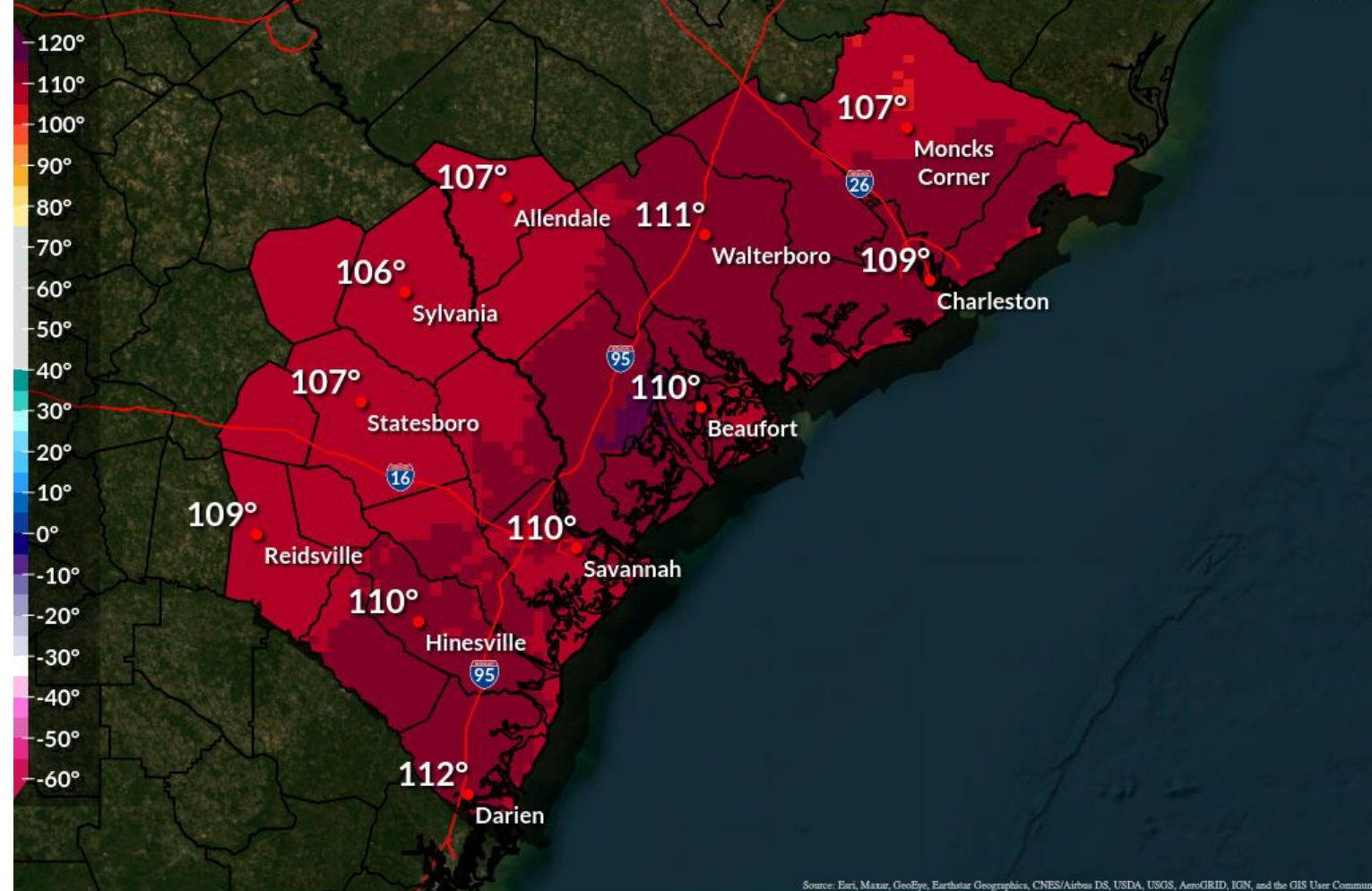
NWSCharlestonSC

weather.gov/chs

Max Heat Index

Valid 9 AM Sun Jul 07 to 9 PM Sun Jul 07, 2024

Weather Forecast Office
Charleston, SC
Issued Jul 01, 2024 9:42 AM EDT



Source: Eri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

NWSCharlestonSC

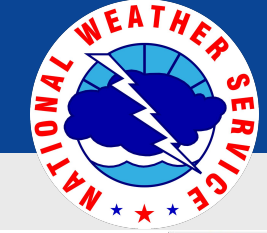
weather.gov/chs

Hot and humid conditions are expected late week into this weekend. Heat indices could reach or exceed 108 degrees.



National Oceanic and
Atmospheric Administration
U.S. Department of Commerce

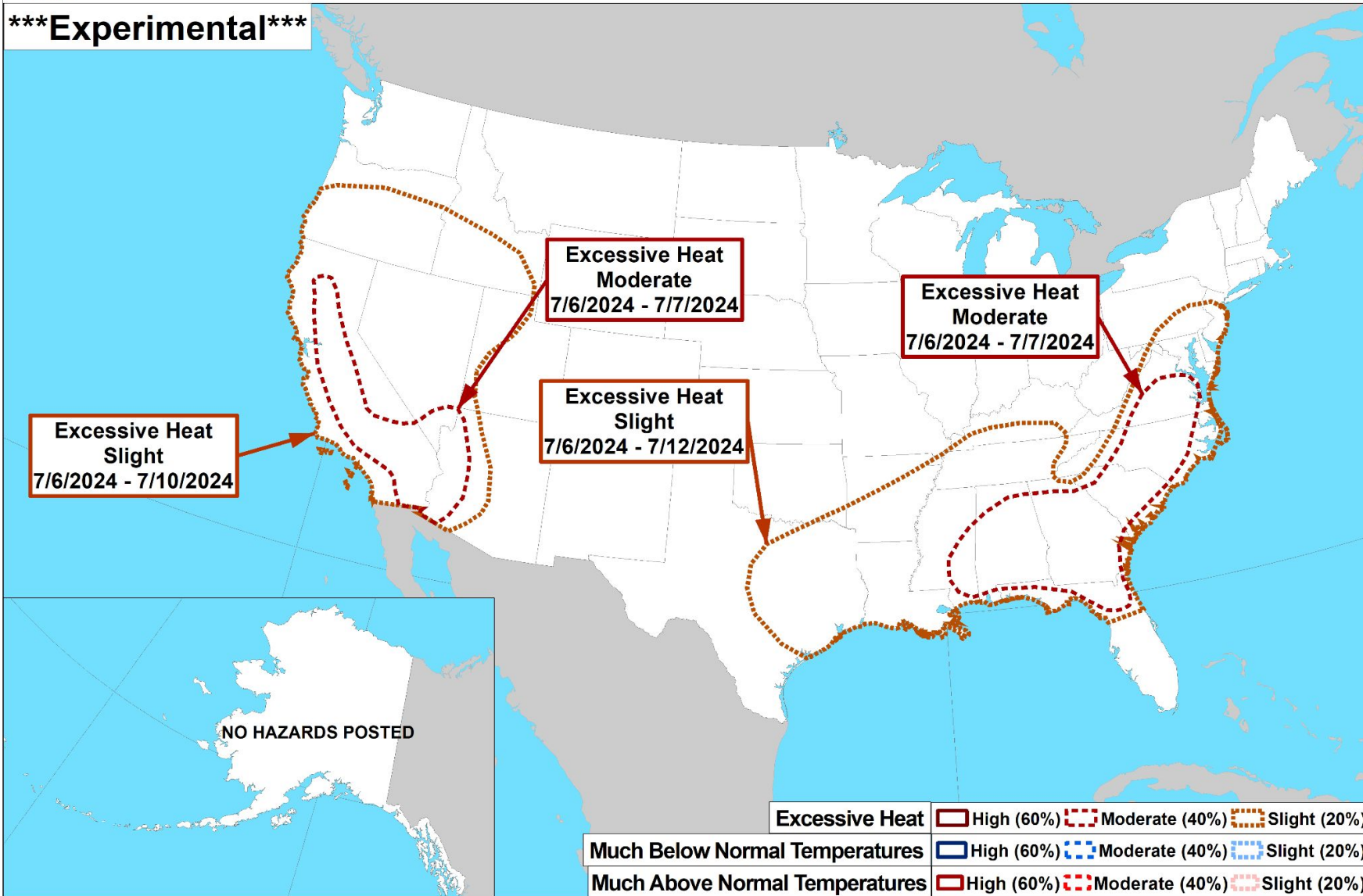
National Weather Service
Charleston, SC



Risk of Hazardous Temperatures Valid: 07/06/2024-07/12/2024



Experimental



Elevated heat index values across the region may remain a concern into most of next week

Climate Prediction Center

Made: 06/28/2024 3PM EDT

Follow us:

www.cpc.ncep.noaa.gov





7-Day Tropical Outlook

July 1, 2024
11:00 AM

Atlantic Waters



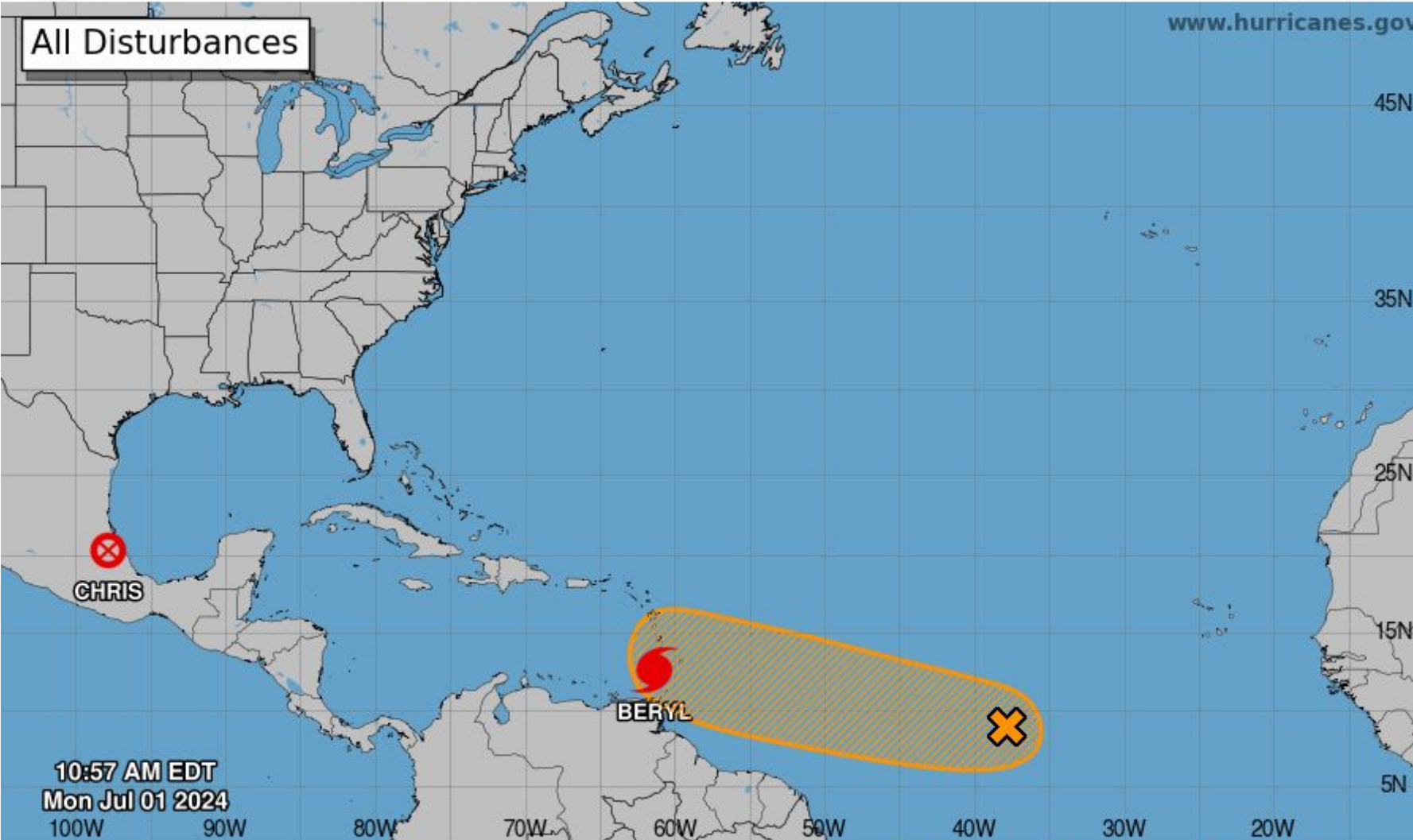
Seven-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



www.hurricanes.gov

All Disturbances



Current Disturbances and Seven-Day Cyclone Formation Chance: < 40% 40-60% > 60%

Tropical or Sub-Tropical Cyclone: Depression Storm Hurricane

Post-Tropical Cyclone or Remnants

- The National Hurricane Center is issuing advisories on Hurricane Beryl. The storm is expected to remain a powerful hurricane as it moves across the Caribbean Sea later this week.
- No direct impacts expected across our region this week.



National Oceanic and Atmospheric Administration

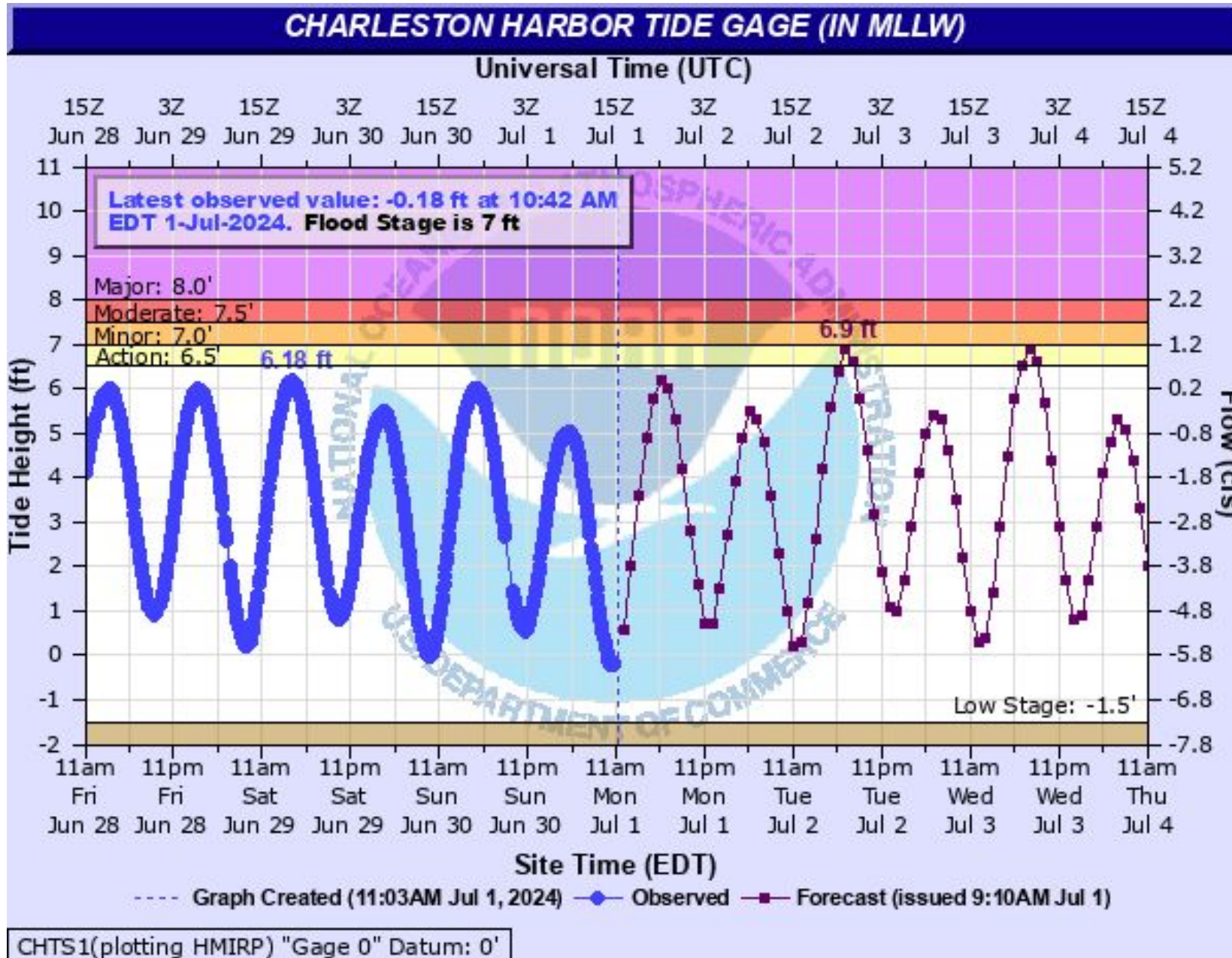
U.S. Department of Commerce

National Weather Service
Charleston, SC



Charleston, SC - Tide Forecast

July 1, 2024
11:00 AM



- Charleston Harbor: 5:09 PM Monday (6.2 ft MLLW)
- Tuesday and Wednesday evening high tides are forecast to peak around 6.9 ft MLLW.



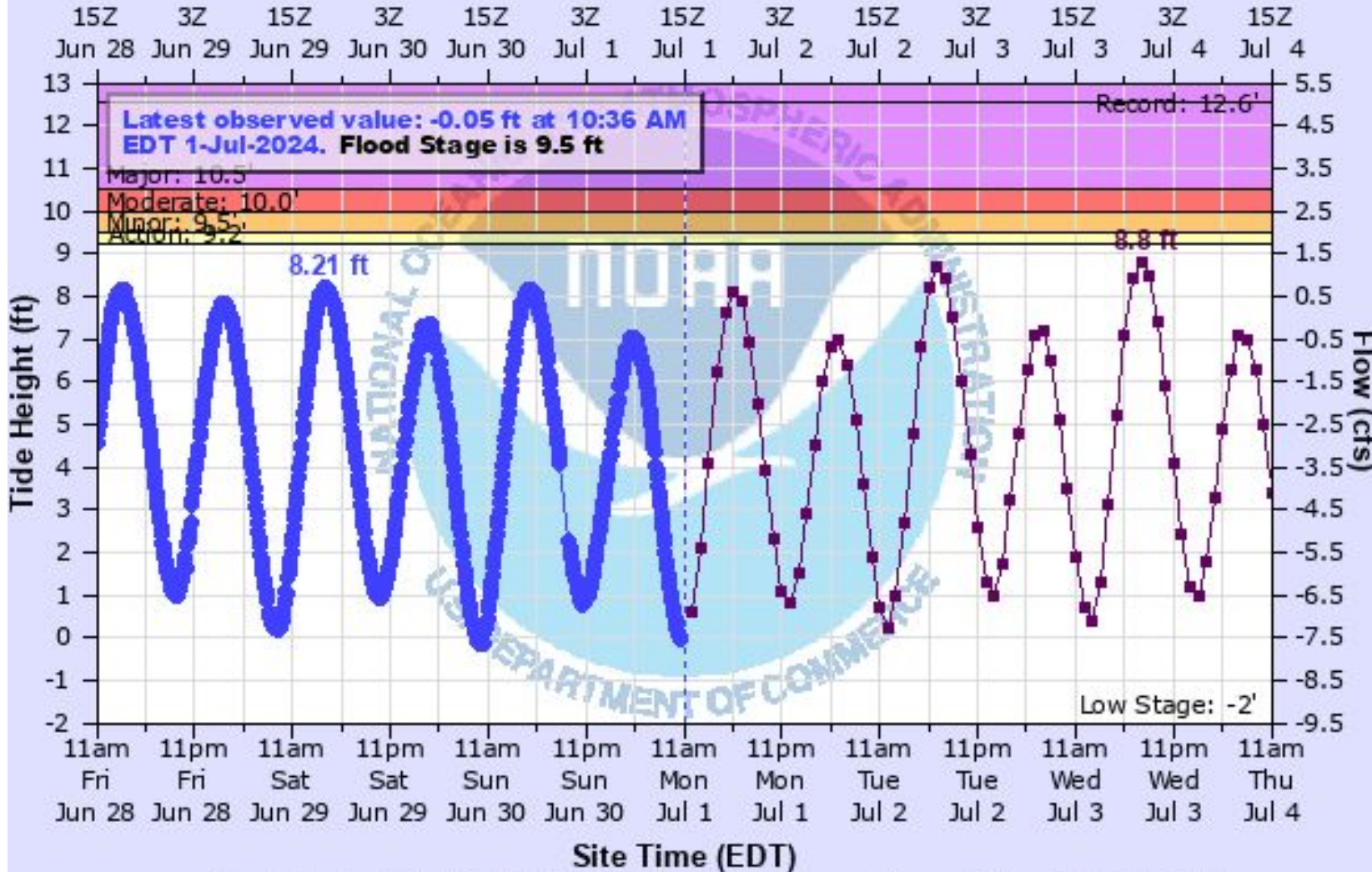


Fort Pulaski, GA - Tide Forecast

July 1, 2024
11:00 AM

FORT PULASKI TIDE GAGE (IN MLLW)

Universal Time (UTC)



FPKG1(plotting HMIRG) "Gage 0" Datum: 0'

→ No coastal flooding expected



Key Messages

- **Flash Flooding:** Rainfall amounts of 2-4" with localized amounts in excess of 6" are possible this afternoon and evening. Hourly rainfall rates could exceed 3 in/hr at times.
- **Damaging Winds:** Thunderstorm wind gusts could damage trees and power lines and result in scattered power outages.
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Contact and Next Briefing Info

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Briefing Webpage

→ weather.gov/chs/briefing



Next Briefing

→ 11 AM Friday, July 5, 2024
→ Method: Webinar



Disclaimer

→ Information contained in this briefing is time-sensitive



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