



Winter Weather Briefing

January 20, 2025
6:00 AM

For Southeast South Carolina and Southeast Georgia

Decision Support Briefing #6

→ As of 6 AM, Monday, January 20, 2025

NEW

Important Updates

- A Winter Storm Watch and Cold Weather Advisory remain in effect.
- The risk for accumulating snow and freezing rain bringing impacts to the area persists.
- Time period of greatest impacts remains late Tuesday afternoon through early Wednesday morning.
- An extended period of bitterly cold temperatures will occur.
- There is a low-end risk for some freezing rain along the immediate coast Thursday evening. Minor accumulations are possible.





Watches, Warnings and Advisories

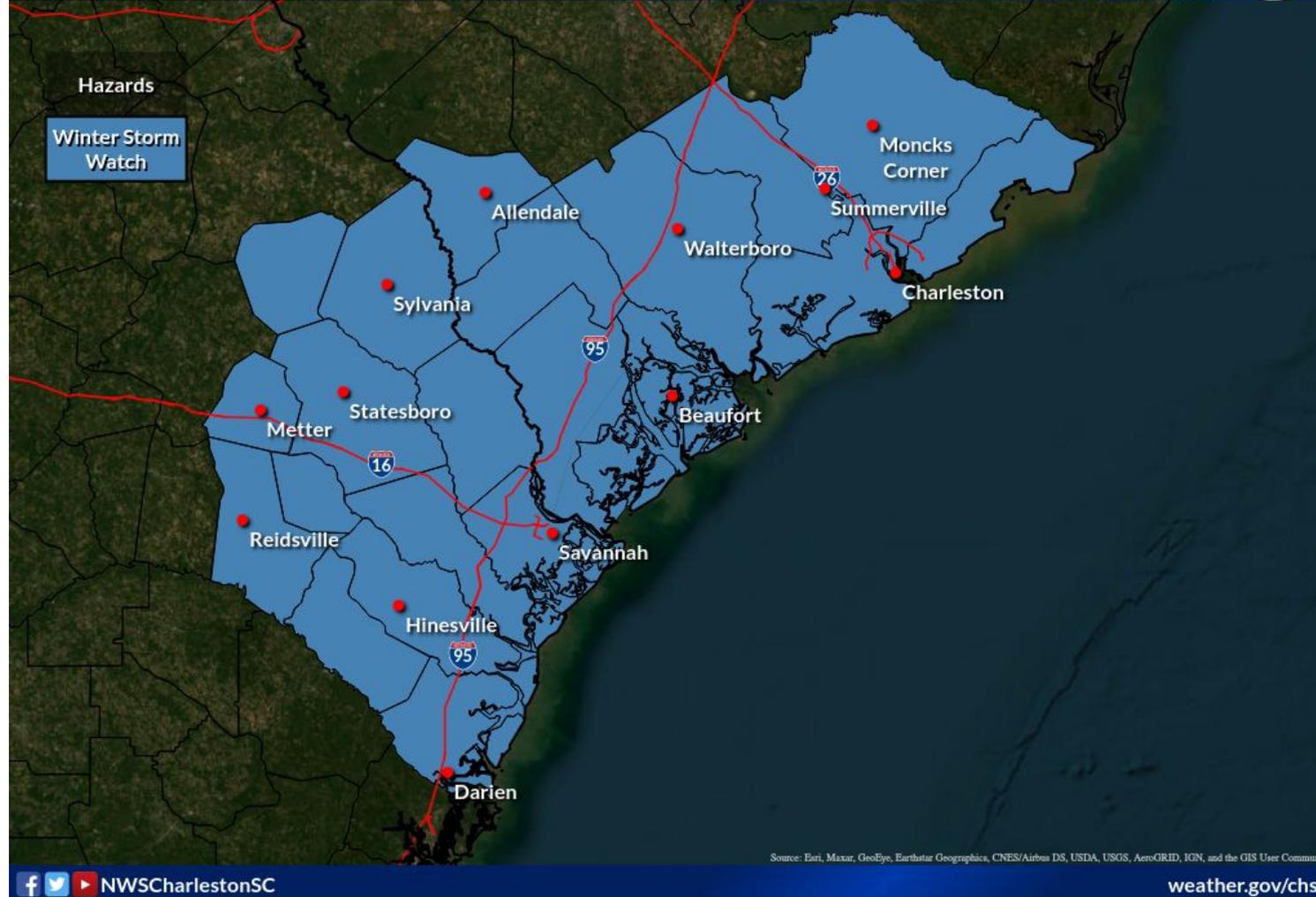
January 20, 2025
6:00 AM

Winter Storm Watch

Tuesday afternoon through Wednesday morning

Weather Forecast Office
Charleston, SC

Issued Jan 20, 2025 5:34 AM EST

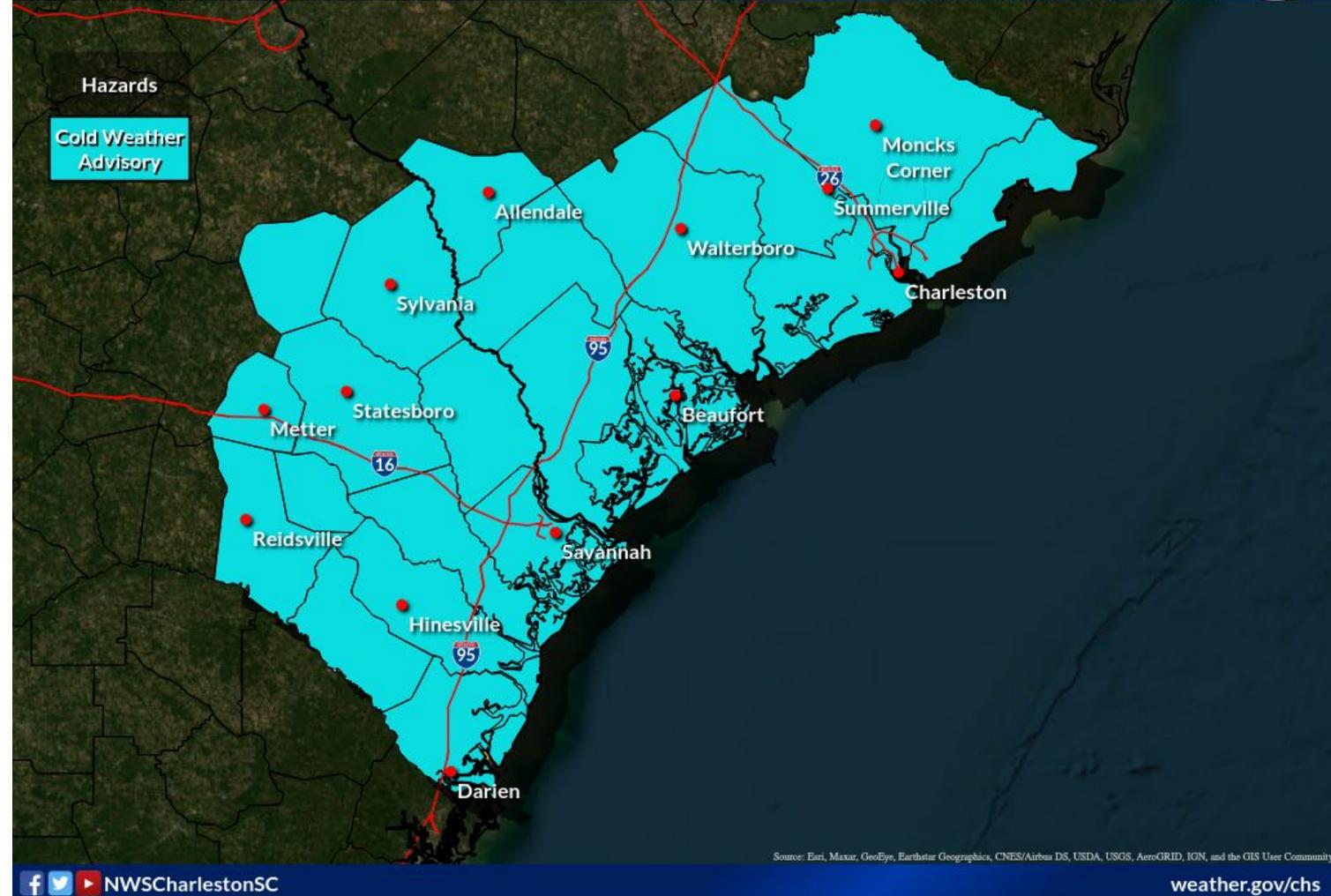


Cold Weather Advisory

Monday through Wednesday morning

Weather Forecast Office
Charleston, SC

Issued Jan 20, 2025 5:23 AM EST



National Oceanic and
Atmospheric Administration

U.S. Department of Commerce

National Weather Service
Charleston, SC

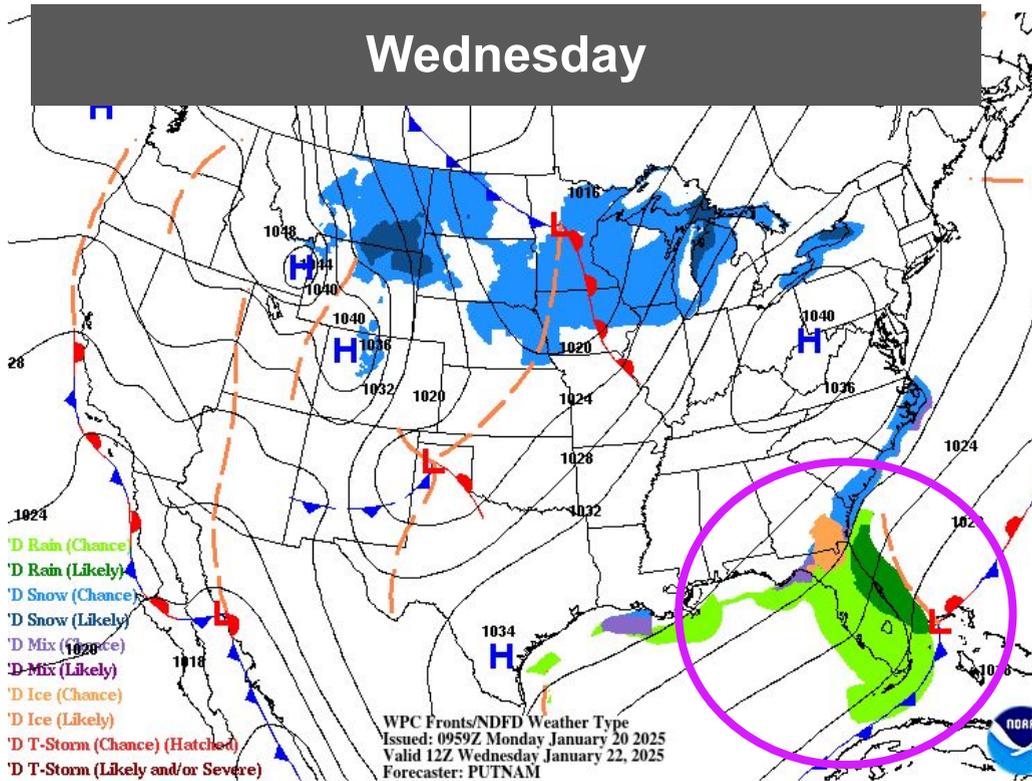
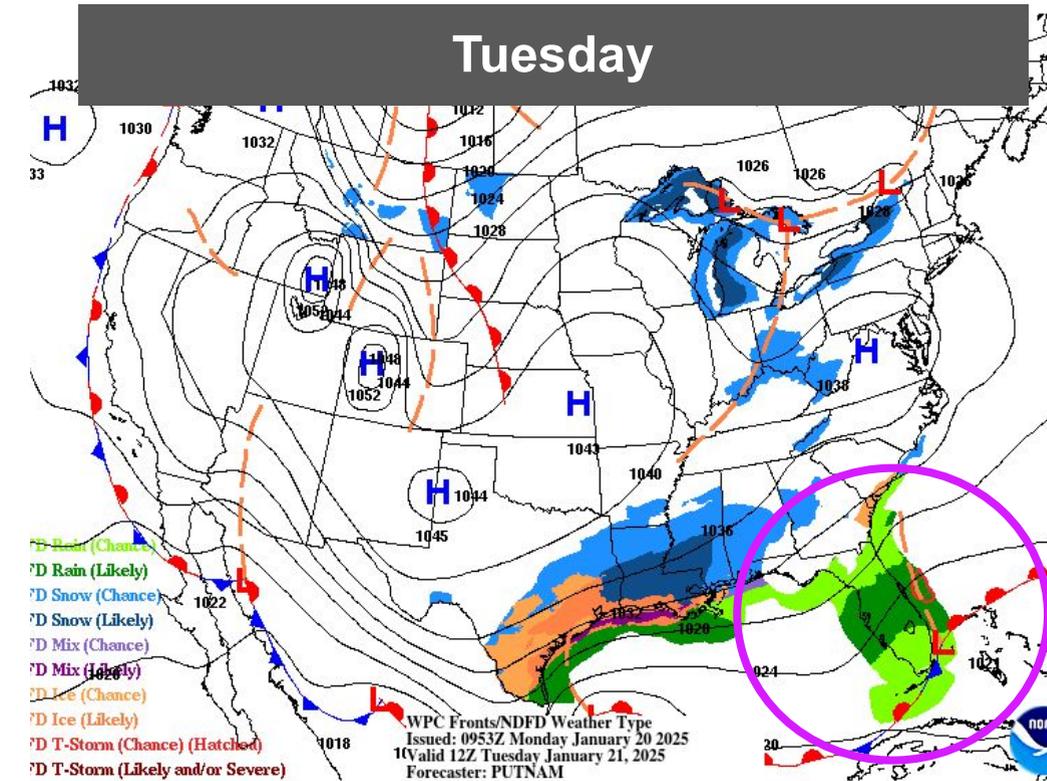


Surface Map Tuesday and Wednesday

January 20, 2025
6:00 AM

Tuesday

Wednesday



→ Arctic high pressure will build into the region Monday, setting the stage for very cold weather to impact the area this week.

→ Low pressure will pass to the south and offshore by mid-week spreading light to moderate precipitation into the region.

→ The track of the low will be key to how much and what types of precipitation will fall.



Confidence is high (80%) that accumulating snow and/or freezing rain will impact much of Southeast South Carolina and Southeast Georgia



Impact Threat Matrix

January 20, 2025
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Day: 6 am-6 pm Night: 6 pm-6 am

	Mon, Jan 20 - Day	Mon, Jan 20 - Night	Tue, Jan 21 - Day	Tue, Jan 21 Night	Wed, Jan 22 - Day	Wed, Jan 22 - Night	Thu, Jan 23 - Day	Thu, Jan 23 - Night
Cold	Orange	Red	Orange	Red	Orange	Red	Orange	Red
Snow/Freezing Rain	Green	Green	Yellow	Red	Yellow	Green	Green	Yellow
Refreeze/Black Ice	Green	Green	Green	Yellow	Yellow	Orange	Yellow	Orange

Cold

The coldest period will occur Tuesday through Thursday night.

- Tuesday: Highs in the upper 30s with temperatures falling into the lower 20s
- Wednesday: Highs in the mid-30s, with temperatures dropping into the teens overnight. Minimum wind chill values as cold as 8-15°F above zero
- Thursday: Highs near 40°F, with temperatures again falling into the lower 20s Thursday night.

Snow/Freezing Rain

The risk for accumulating snow and freezing rain persists

- Most likely start time: **4 - 7 PM Tuesday.**
- Greatest Impact: **8 PM Tuesday to 6 AM Wednesday.**
- Precipitation ends: **6 - 11 AM Wednesday.**

Refreeze/Black Ice

Melted snow and ice may refreeze Wednesday night and Thursday night, increasing the risk of black ice

- Hazards include slippery roads and surfaces
- Suspension bridge cables may accumulate ice, leading to the potential for falling ice

Additionally, a **low-end risk** of freezing rain exists along the immediate coast Thursday evening, with minor accumulations of freezing rain possible. This could prolong hazardous conditions.

Risk Levels

No/None

Limited

Elevated

Significant

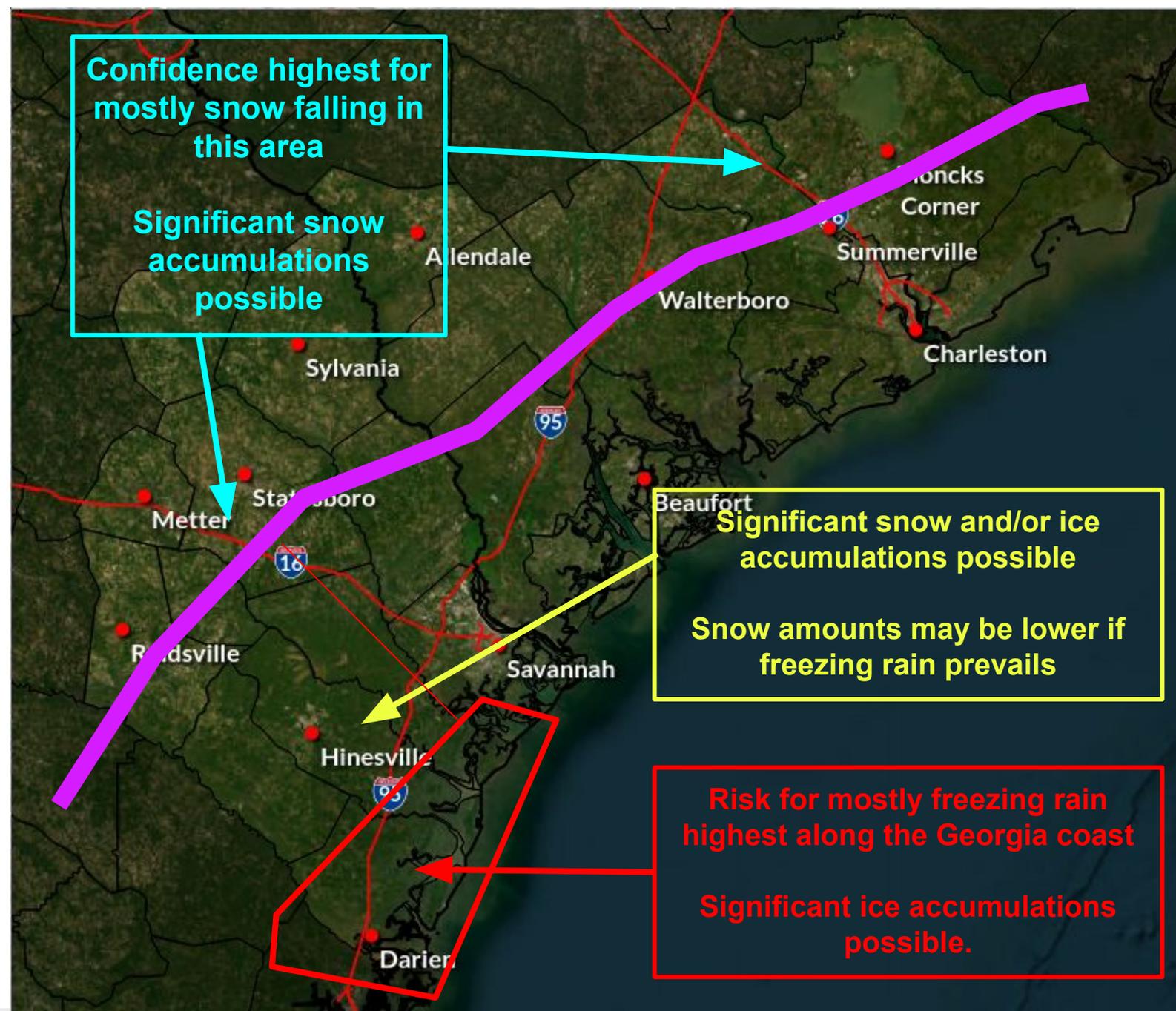
Extreme





Precipitation Type Confidence

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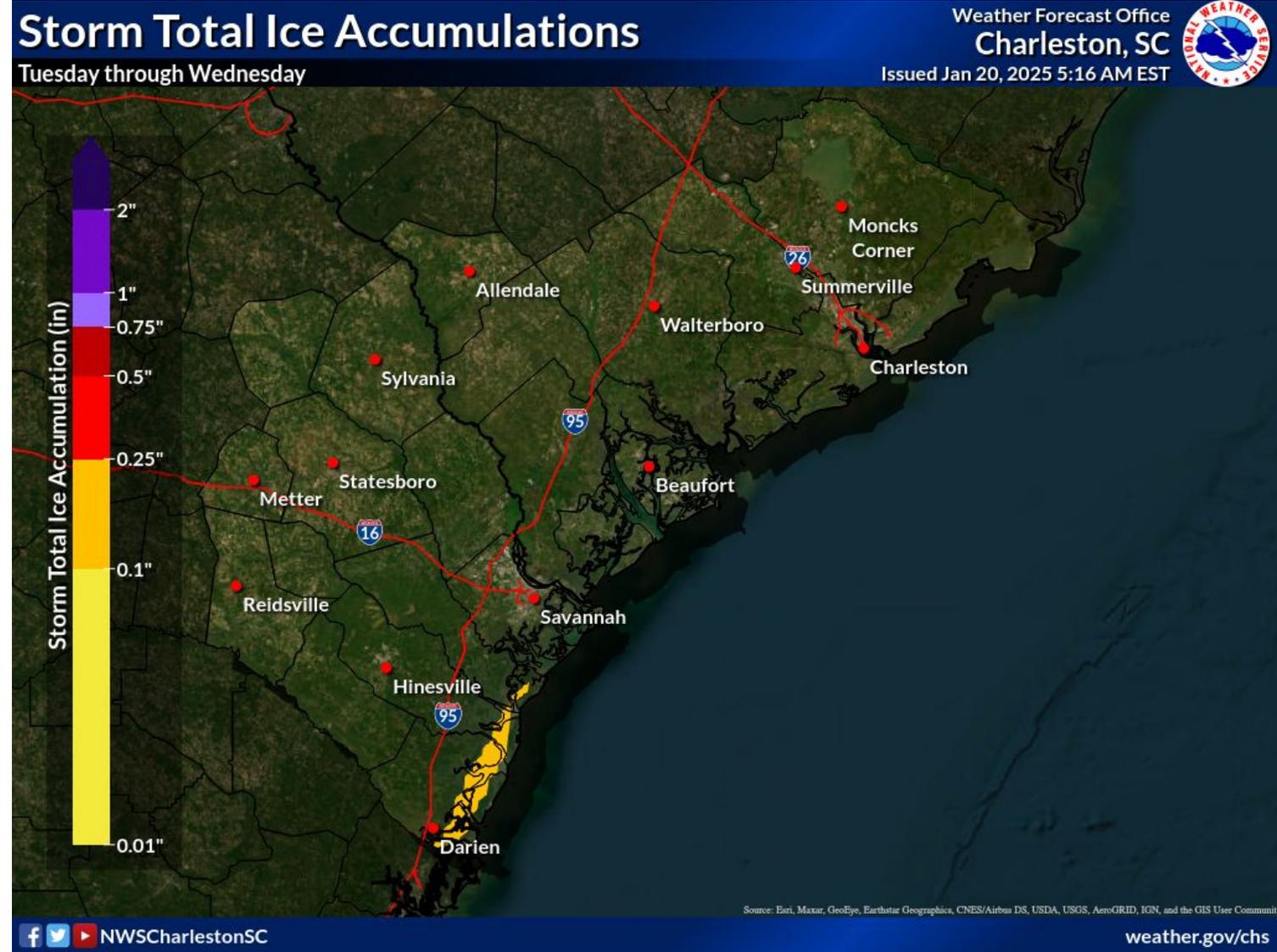
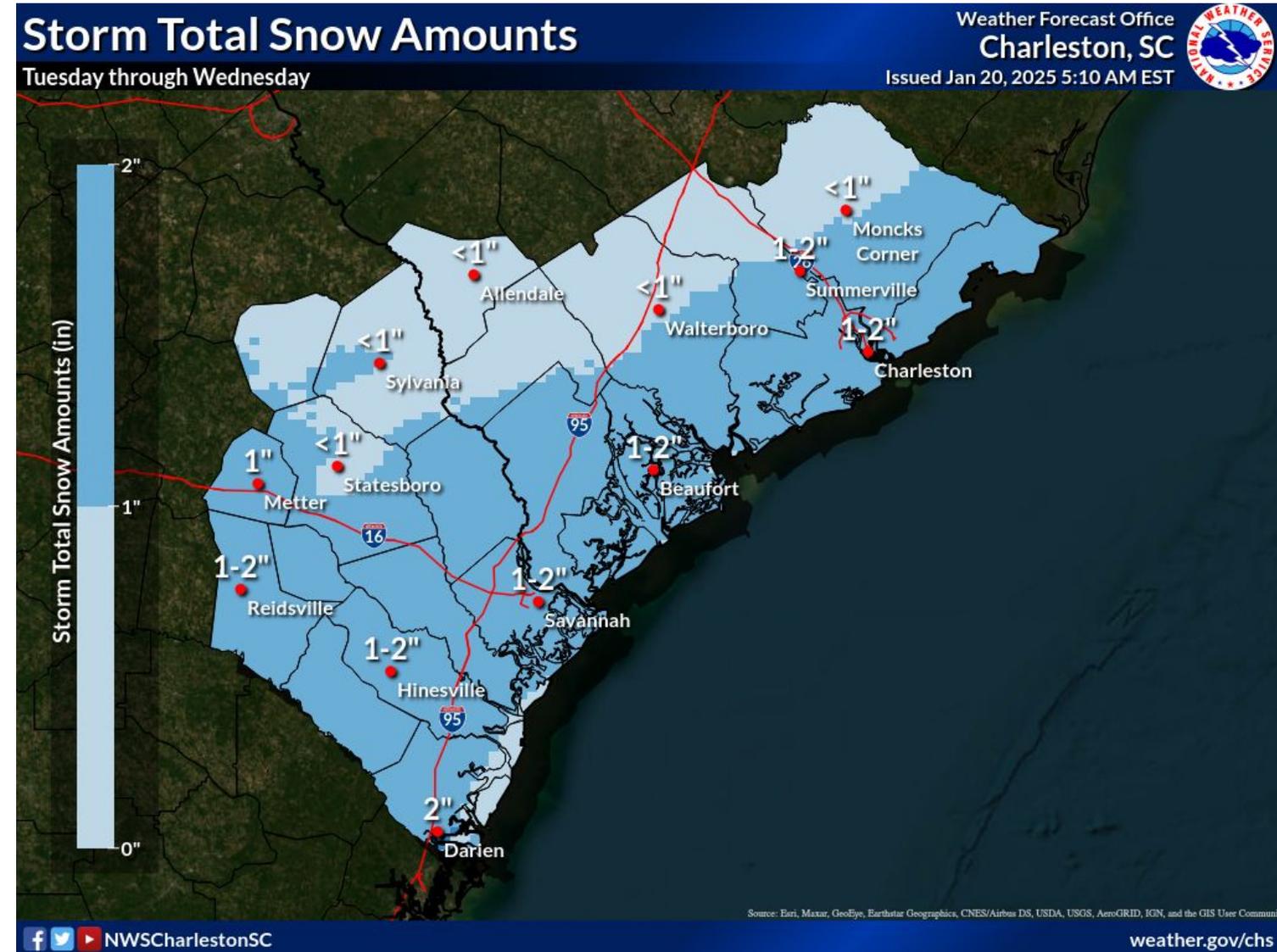
- **Inland:** Rain in the afternoon will change to a rain/snow mix in the late afternoon, then snow in the evening and continue overnight.
- **Along the SC Coast:** Rain in the afternoon will change to a sleet/snow mix in the evening, then snow overnight.
- **Along the GA Coast:** Rain in the afternoon will change to a freezing rain or sleet mix in the evening, then snow after midnight.
- 1-2" of snow will be possible everywhere with as much as 0.05-0.25" of ice along the Georgia coast.





Storm Total Snow and Ice

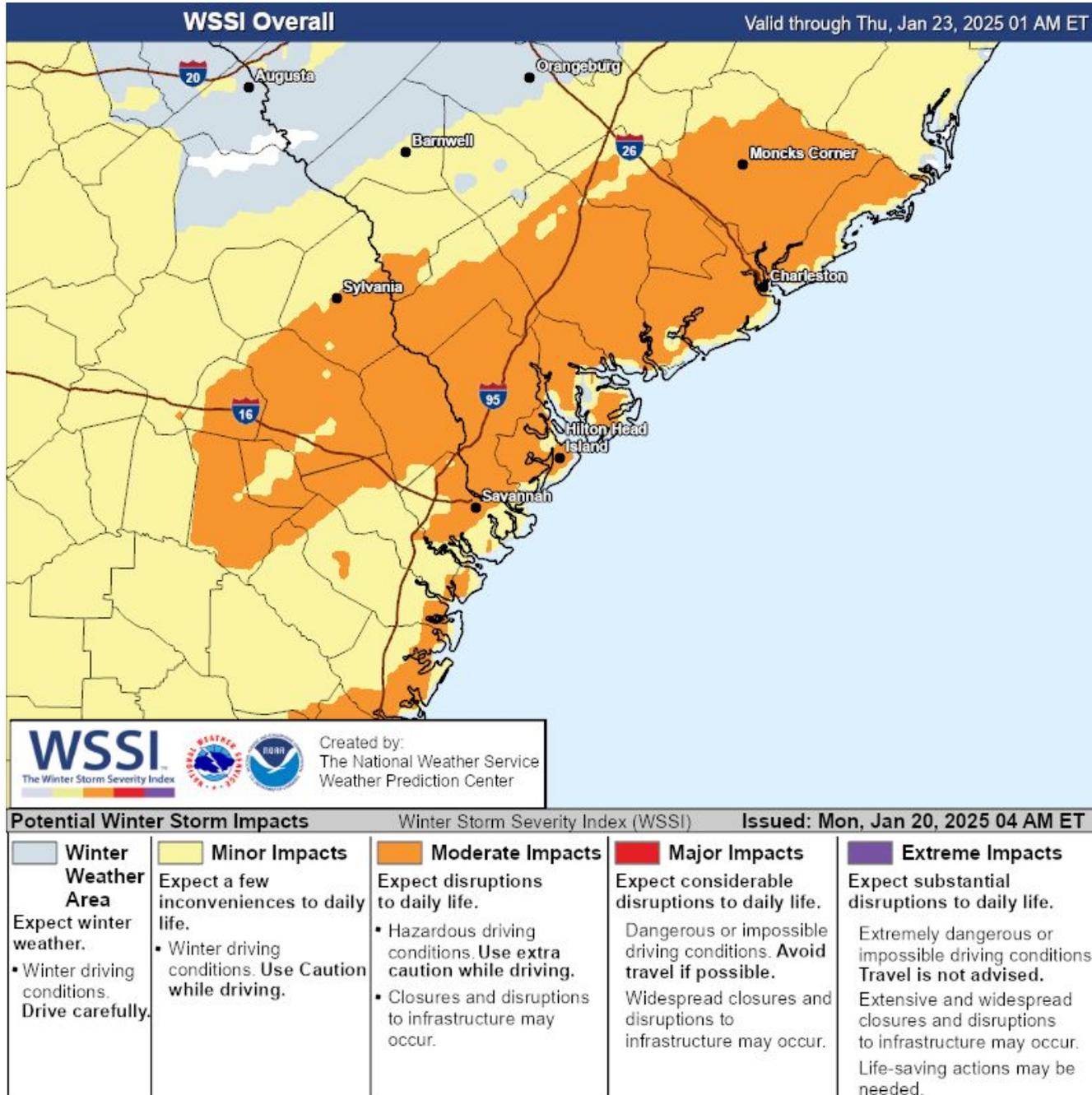
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Winter Storm Severity Index (WSSI)

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- Minor to moderate impacts from snow and ice expected, greatest in the Metro Corridors from Savannah to Charleston.
- Impacts to travel likely. Some closures possible due to impacts on infrastructure (i.e. power outages).
- ◆ Minor impacts = accumulations of snow/ice are enough to produce travel issues.
- ◆ Moderate impacts = accumulations of snow/ice are enough to pose a risk to life and property.





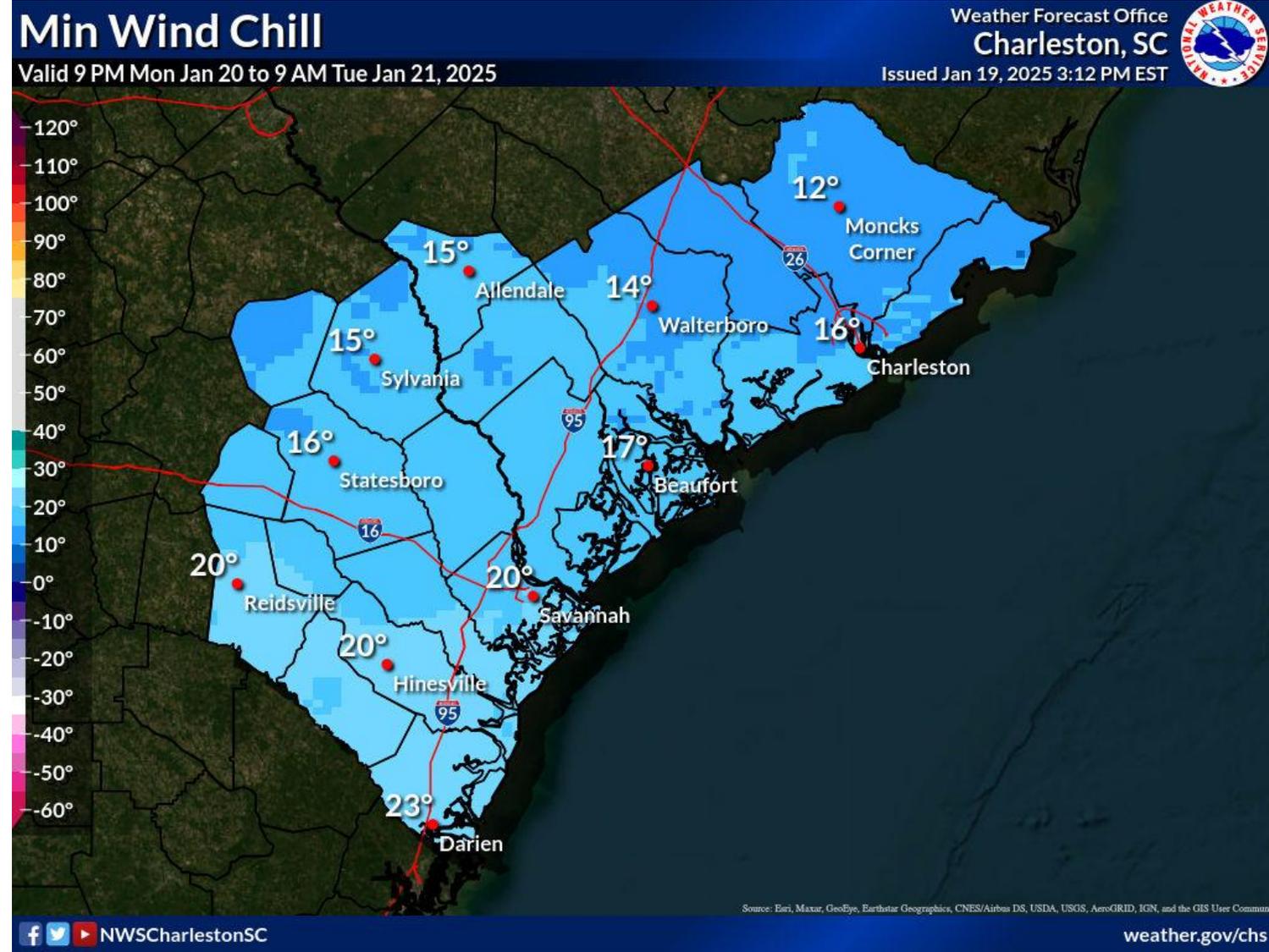
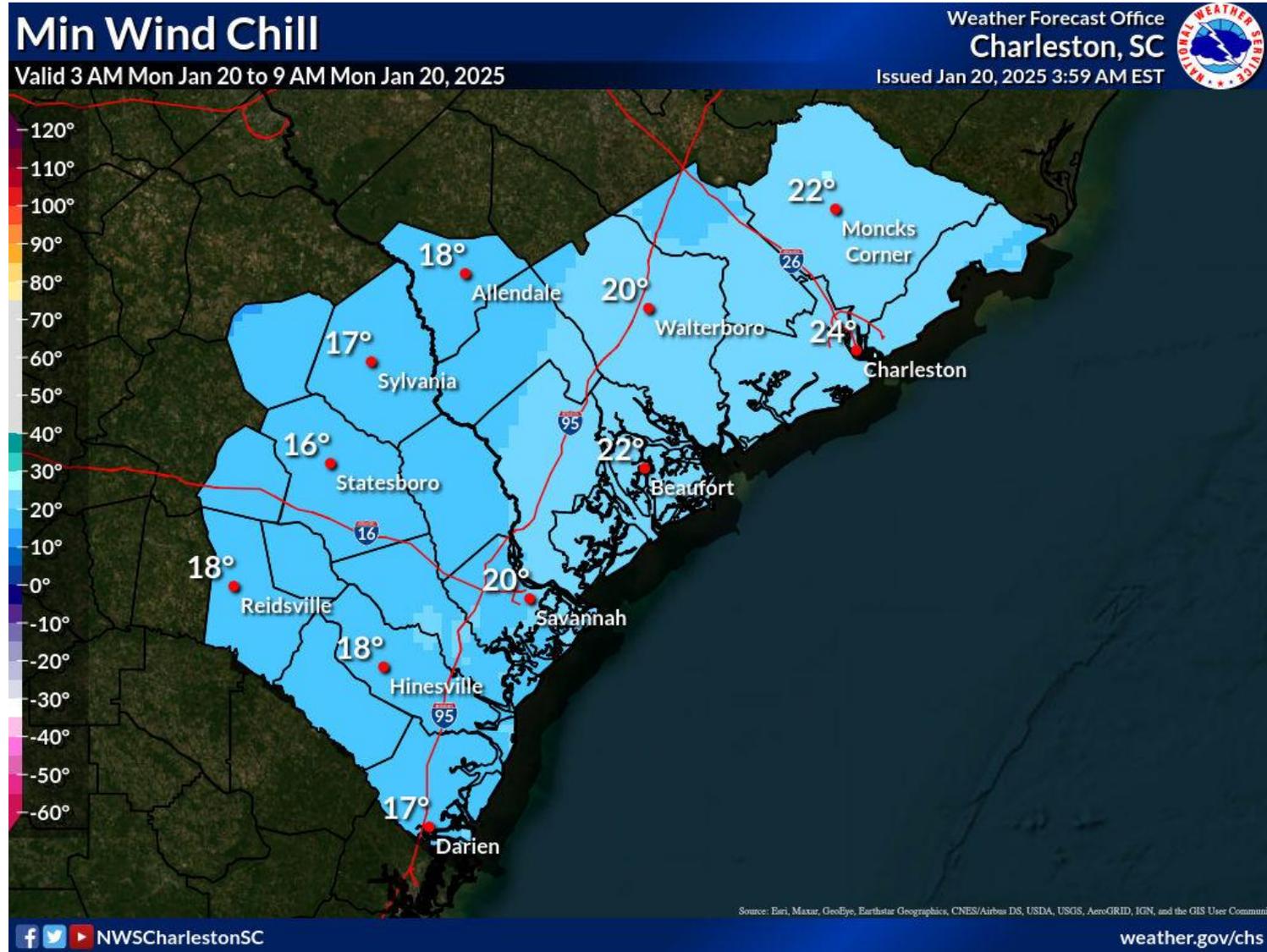
Minimum Wind Chill Forecast

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Cold Weather Advisory In Effect

Early Monday Morning

Monday Night/Tuesday Morning



National Oceanic and Atmospheric Administration
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Charleston, SC



Minimum Wind Chill Forecast

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Cold Weather Advisory In Effect Tuesday Night. Extreme Cold Warning Possible Wednesday Night.

Tuesday Night/Wednesday Morning

Wednesday Night/Thursday Morning

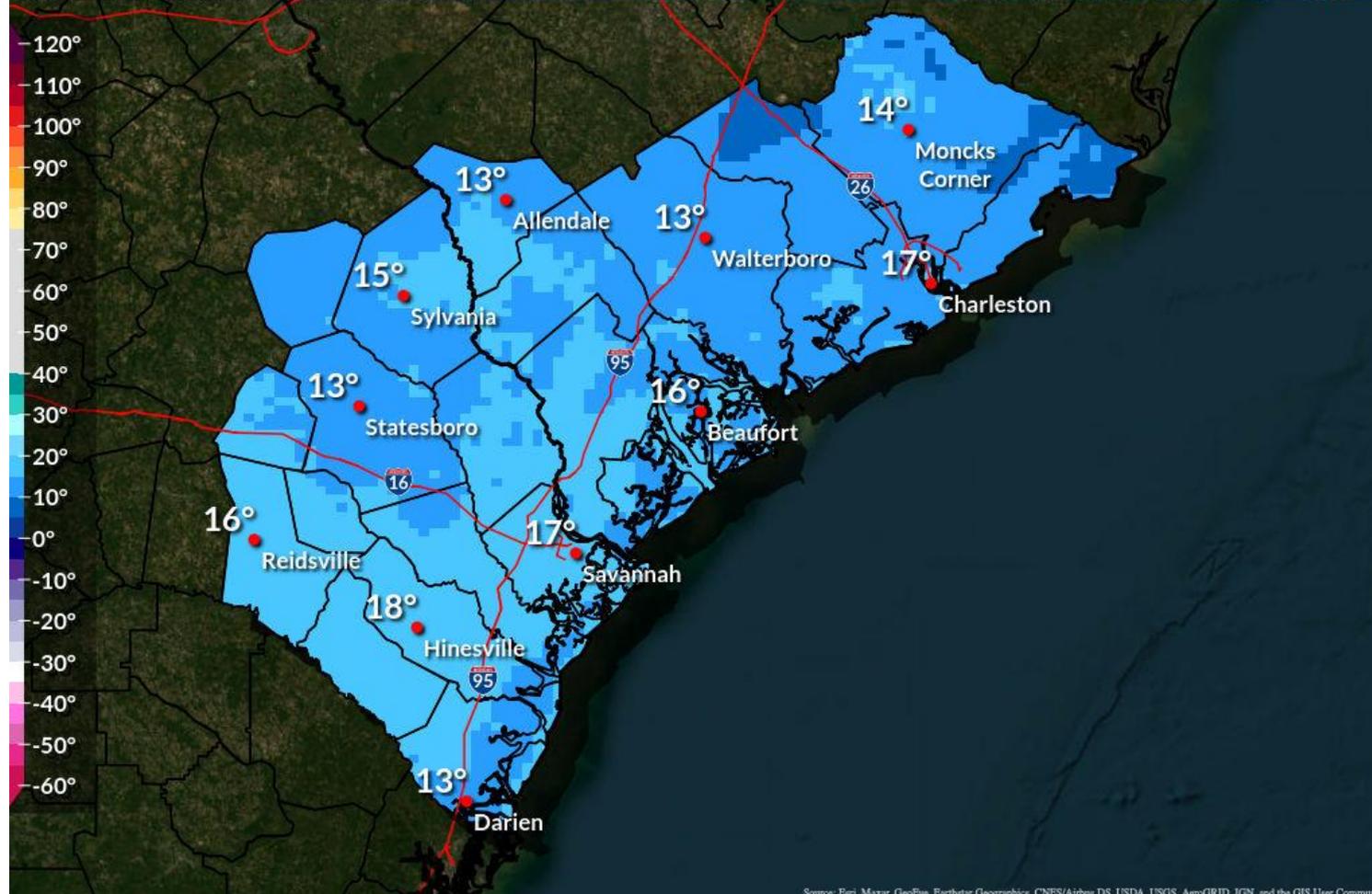
Min Wind Chill

Weather Forecast Office
Charleston, SC



Valid 9 PM Tue Jan 21 to 9 AM Wed Jan 22, 2025

Issued Jan 20, 2025 3:59 AM EST



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

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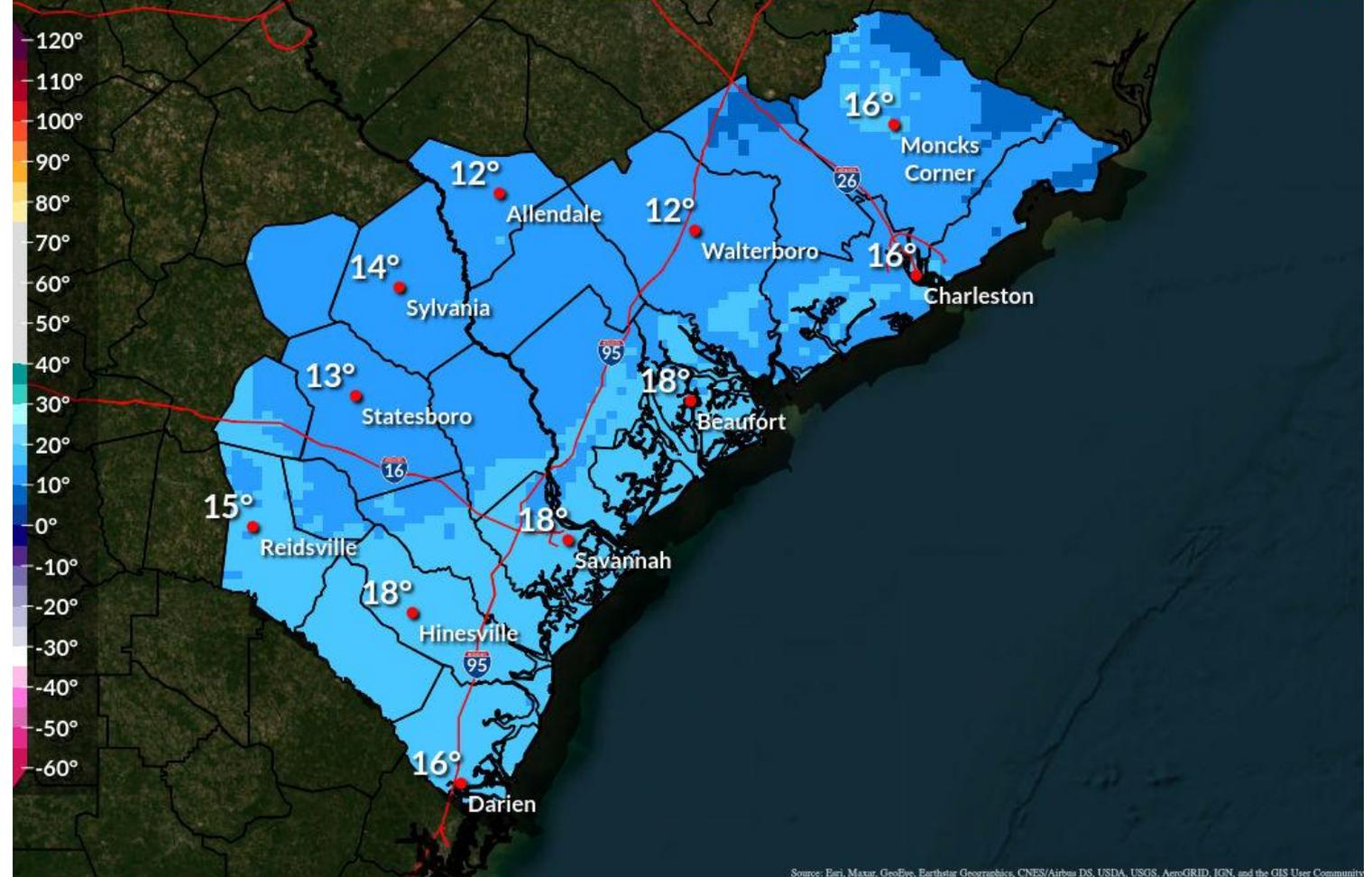
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Key Messages

Cold Temperatures:

- ◆ **High confidence** remains that bitterly cold temperatures will impact southeast South Carolina and southeast Georgia this week.
- ◆ **Near-record low temperatures** are possible Wednesday night.
- ◆ **Dangerous wind chills** are possible, especially Wednesday night, with values as low as 8-15°F

Winter Precipitation Potential:

- ◆ An area of low pressure will pass to the south and offshore by the middle of this week and will bring winter precipitation to the region.
- ◆ The track of the low-pressure system will be key to precipitation types and amounts.
- ◆ Accumulating snow and freezing rain remains likely in some areas
 - **Snow Amounts:** 1 to 2 inches of snow possible (most areas)
 - **Ice Amounts:** 0.05-0.25" ice (mainly Georgia coastal counties).
- ◆ Precipitation type for coastal counties (freezing rain, sleet, or snow) still remains uncertain, particularly for Beaufort, SC and south into coastal Georgia. The risk for all snow is highest away from the coast.
- ◆ **Greatest impact window:** Tuesday evening into Wednesday morning.
- ◆ There is a low end risk that freezing rain will occur late Thursday evening.

Travel:

- ◆ Some travel issues could continue into Wednesday night and Thursday as wet roads could refreeze.





Be Prepared!

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Getting Traction

Tips for Traveling in Winter Weather

- Check the NWS forecast
- Check road conditions
- Stay mobile
- Winterize your vehicle
- Pack an emergency supply kit

weather.gov/winter

WINTER STORM WATCH

A Winter Storm Watch is issued when **heavy snow, sleet, or freezing rain is possible**.

Be prepared to adjust travel plans in case a Warning is issued.

Be Prepared.

WINTER STORM WARNING

A Winter Storm Warning is issued when **heavy snow, sleet, or freezing rain is expected**.

Travel will become dangerous. Delay or adjust travel plans until conditions improve.

Take Action!

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Warning Signs of Hypothermia

- Confusion
- Shivering
- Difficulty Speaking
- Sleepiness
- Stiff Muscles

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WINTERIZE Your Home

- Inspect your chimney
- Insulate your attic
- Clean out gutters
- Caulk and weather strip doors/windows
- Insulate exposed pipes
- Install & test smoke alarms and carbon monoxide detectors (with battery backups)
- Gather supplies

Your home isn't the only one that can be winterized. Your neighbors and those most vulnerable might need your help too!

weather.gov



Contact and Next Briefing Info

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Briefing Webpage

→ weather.gov/chs/briefing



Webinar and Slide Deck

- By 5 PM, Monday, January 20, 2025
- Method: Google Meet and email



Disclaimer

- Information contained in this briefing is time-sensitive



Contact Information

- 843-747-5860 (Public)
- nws.charlestonsc@noaa.gov

Web

- weather.gov/chs

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