



Winter Weather Briefing

January 21, 2025
5:57 AM

For Southeast South Carolina and Southeast Georgia

Decision Support Briefing #8

→ As of 6 AM, Tuesday, January 21, 2025

NEW

Important Updates

- Snowfall total forecast increased modestly overnight.
- Freezing rain amounts trending up along the GA coast.
- Uncertainty continues to be focused on mixed precip type areas.
- A **Winter Storm Warning** remains in effect for the entire area.



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

National Weather Service
Charleston, SC



Watches, Warnings and Advisories

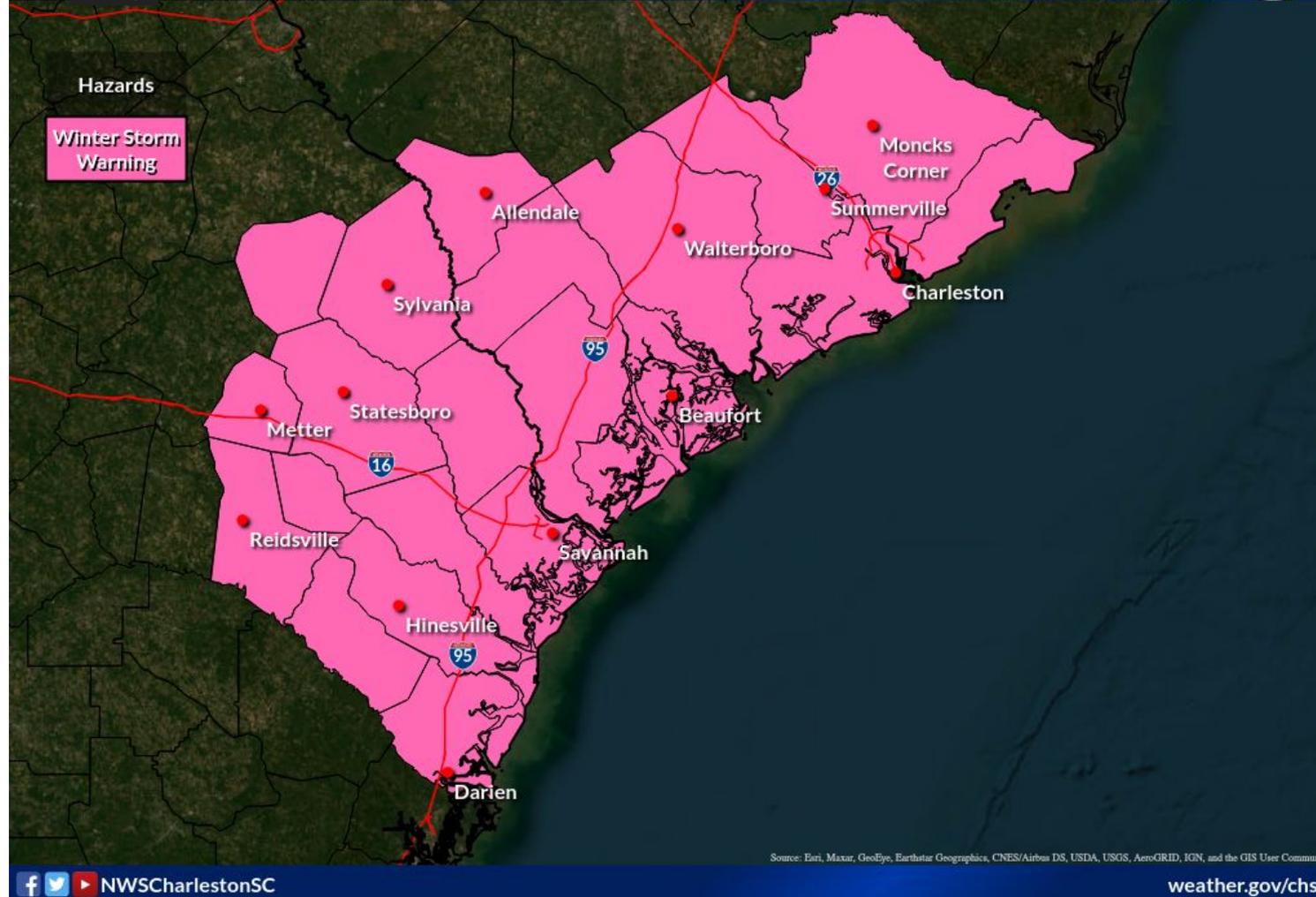
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5:57 AM

Winter Storm Warning

5 PM Today through Noon Wednesday

Weather Forecast Office
Charleston, SC

Issued Jan 20, 2025 2:51 PM EST

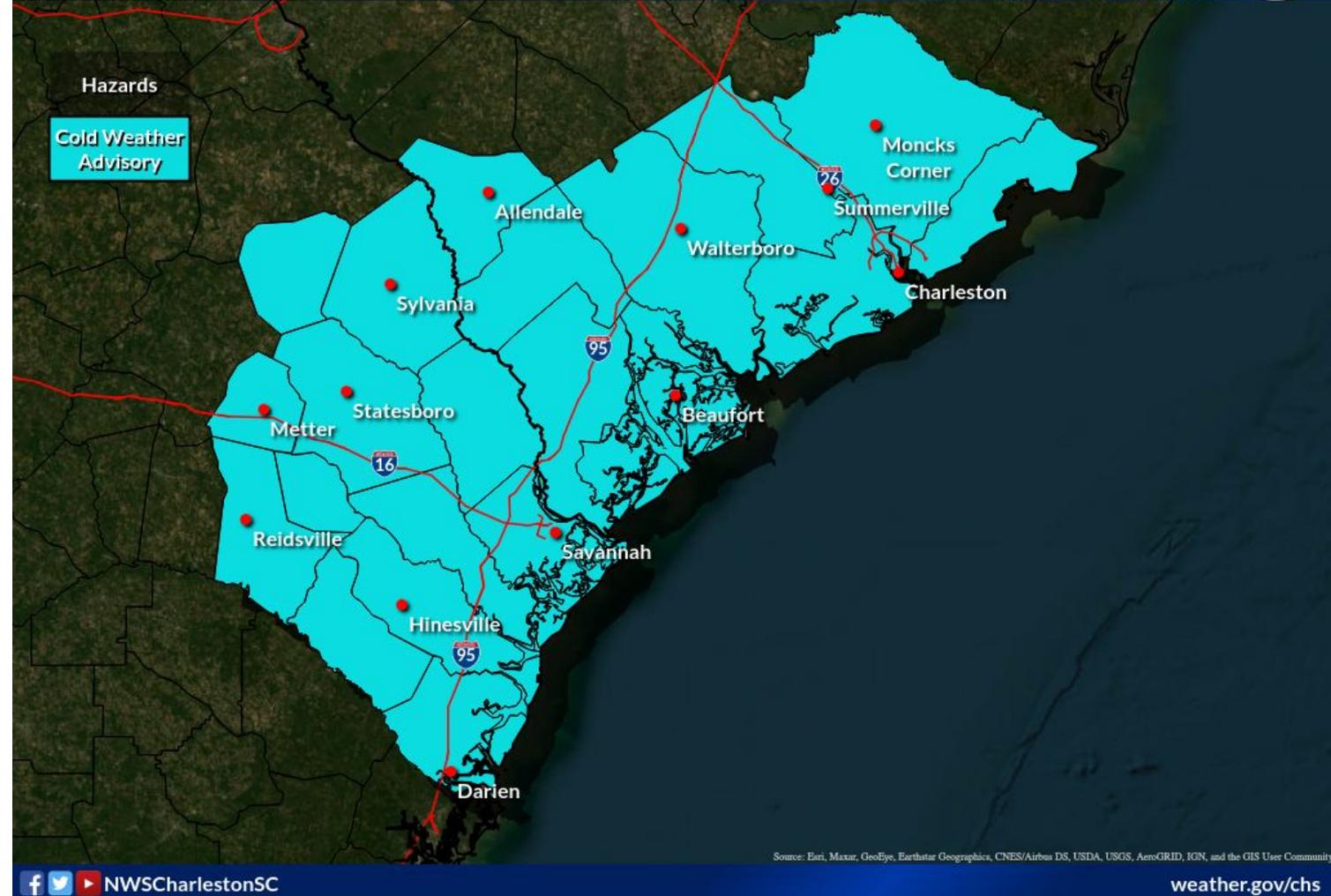


Cold Weather Advisory

Through 10 AM Thursday

Weather Forecast Office
Charleston, SC

Issued Jan 21, 2025 5:59 AM EST



National Oceanic and
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National Weather Service
Charleston, SC



Impact Threat Matrix

January 21, 2025
5:57 AM

Day: 6 am-6 pm Night: 6 pm-6 am

| | 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 | Elevated | Significant | Elevated | Significant | Elevated | Significant |
| Snow/Sleet and Freezing Rain | Limited | Significant | Limited | Elevated | Elevated | Elevated |
| Refreeze/Black Ice | Elevated | Limited | Limited | Elevated | Limited | Elevated |

Cold

The coldest period will continue through Thursday night.

- Today: Highs upper 30s/lower 40s with temps 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 10-15°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 today.**
- Greatest Impact: **8 PM Tuesday to 6 AM Wednesday.**
- Precipitation ends: **6 - 10 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

The already low risk of freezing rain Thursday night along the immediate coast has trended down further and is unlikely to bring any significant impacts.

Risk Levels

No/None

Limited

Elevated

Significant

Extreme





Winter Precipitation Type

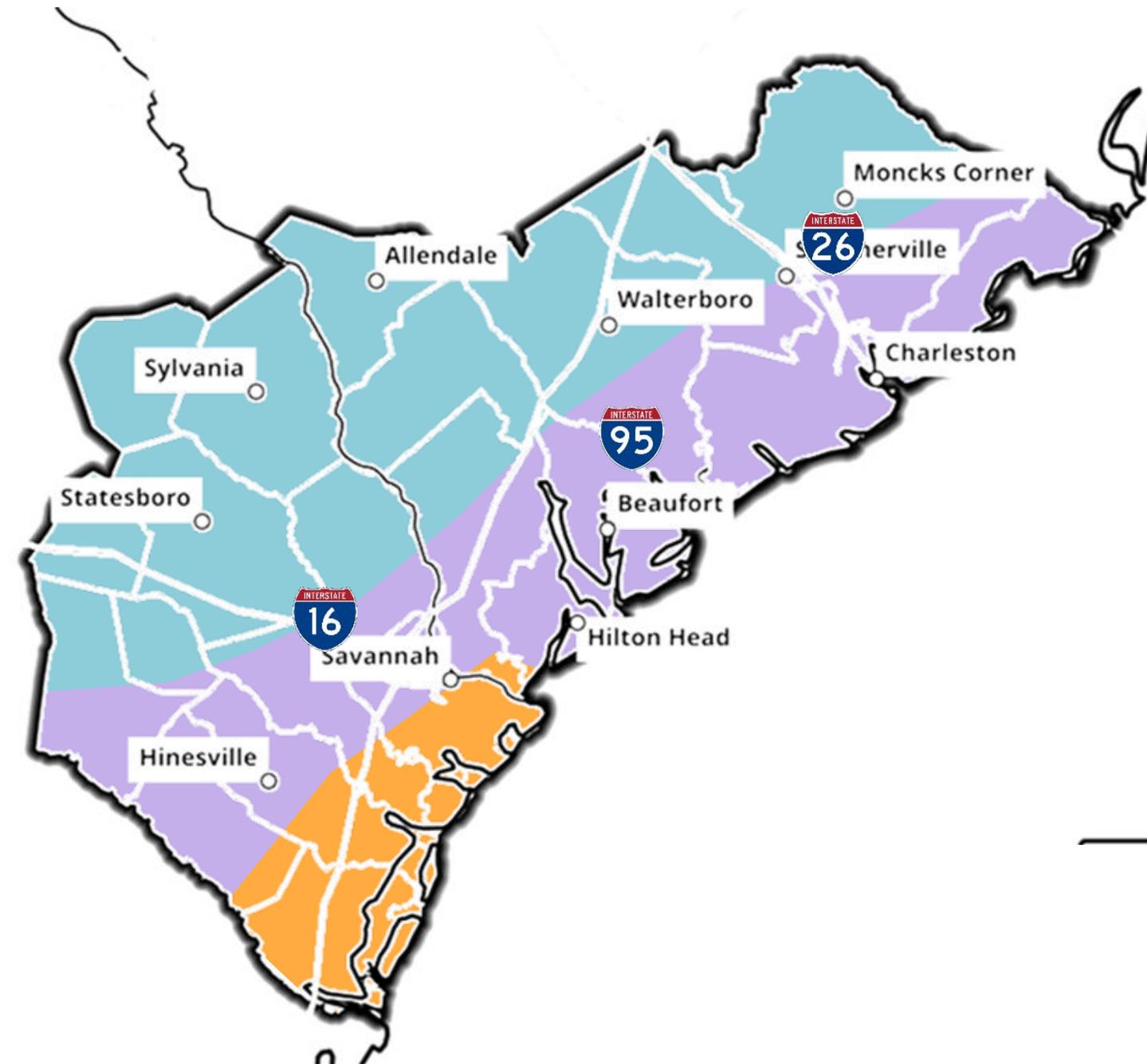
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Snow/ Sleet mix

Primarily Snow

Freezing Rain

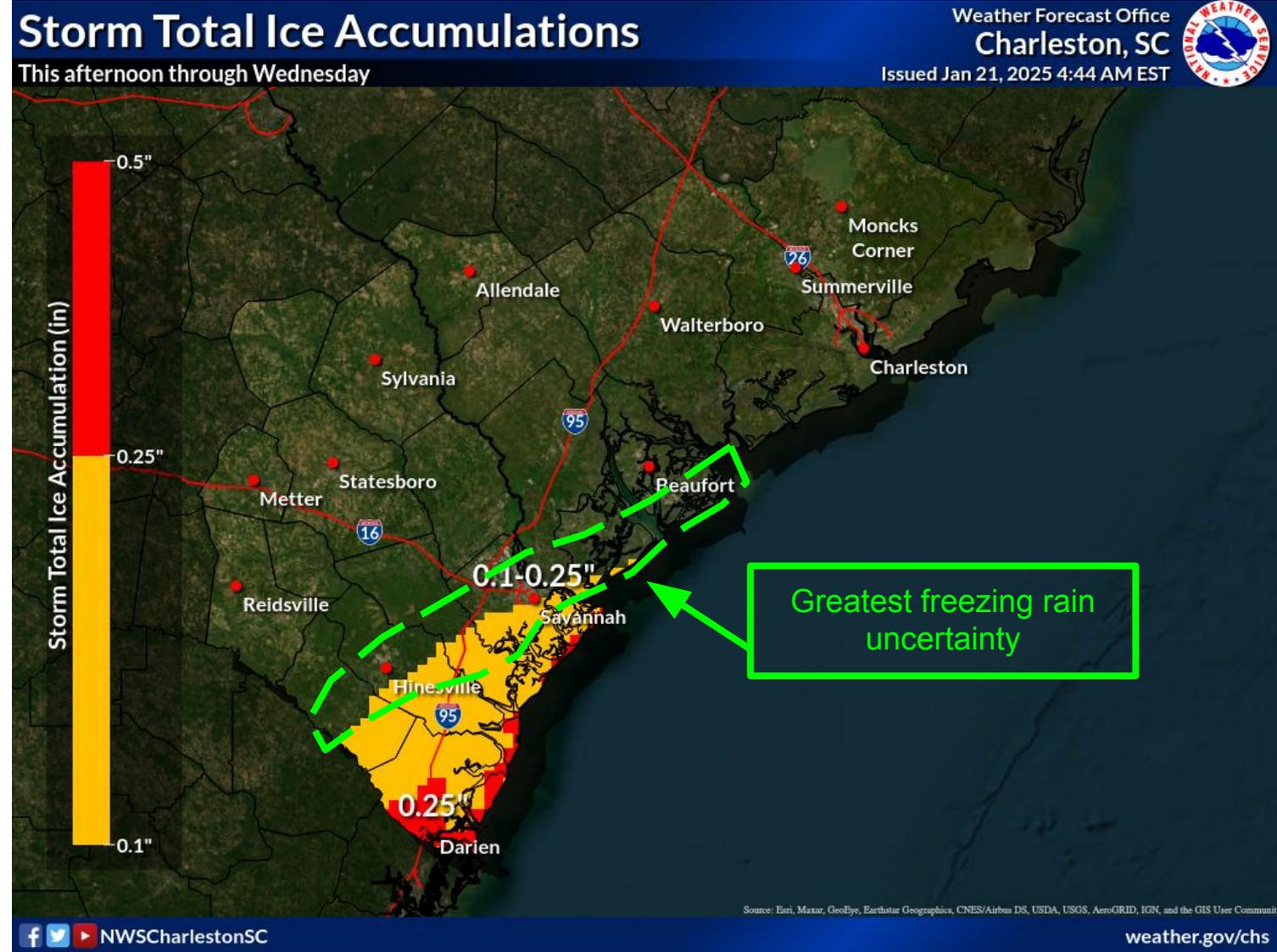
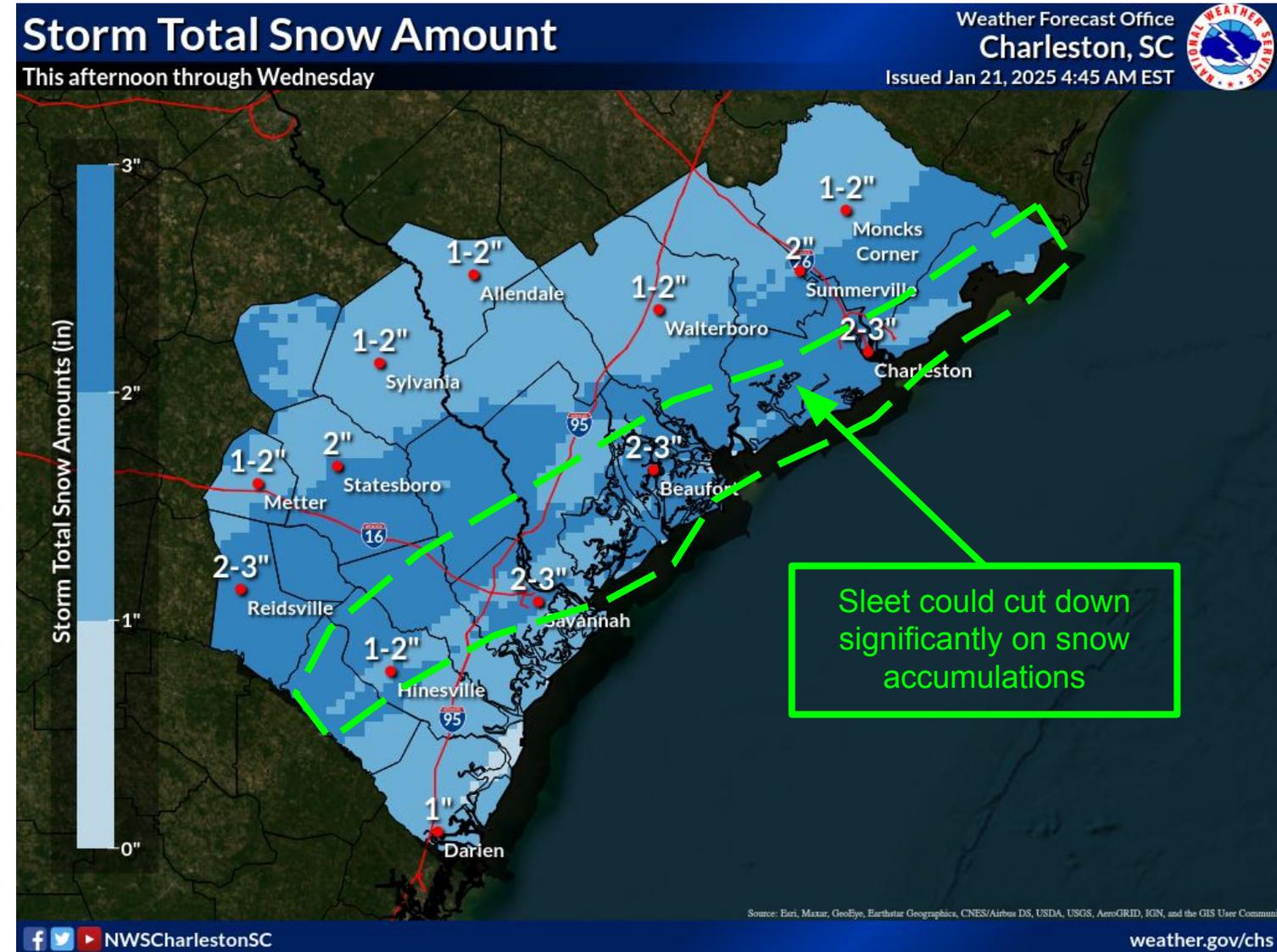
- **Inland:** Rain in the afternoon will change to a sleet/snow mix in the late afternoon, then snow in the evening and continue overnight.
- **Along the SC Coast:** Rain in the afternoon will change to a sleet/snow mix in the evening, then snow overnight.
- **Along the GA Coast:** Rain in the afternoon will change to a freezing rain or sleet mix in the evening.
- 1-2.5" of snow expected for most regions with locally higher amounts possible. As much as 0.25" of ice along the Georgia coast.





Storm Total Snow and Ice

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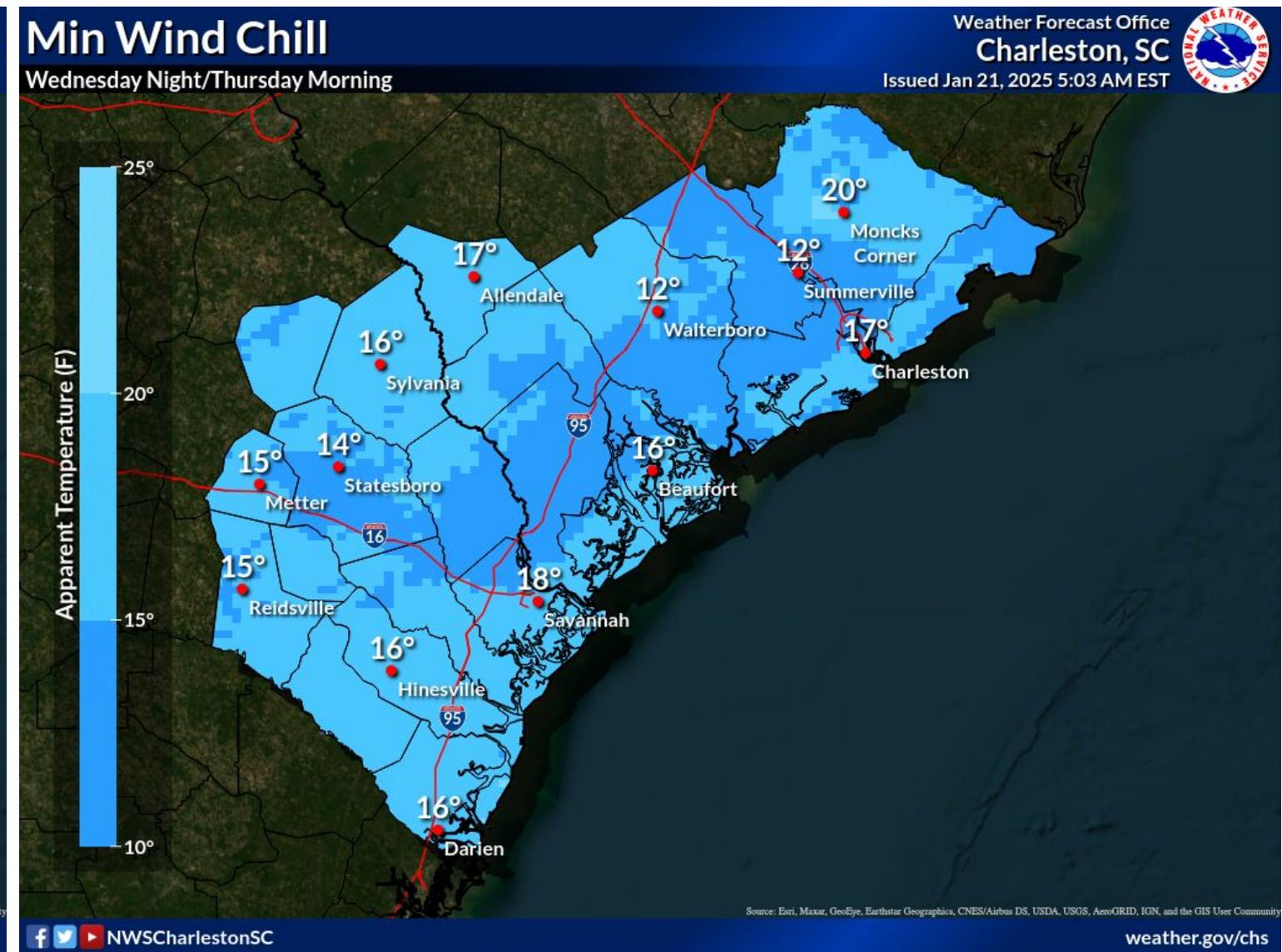
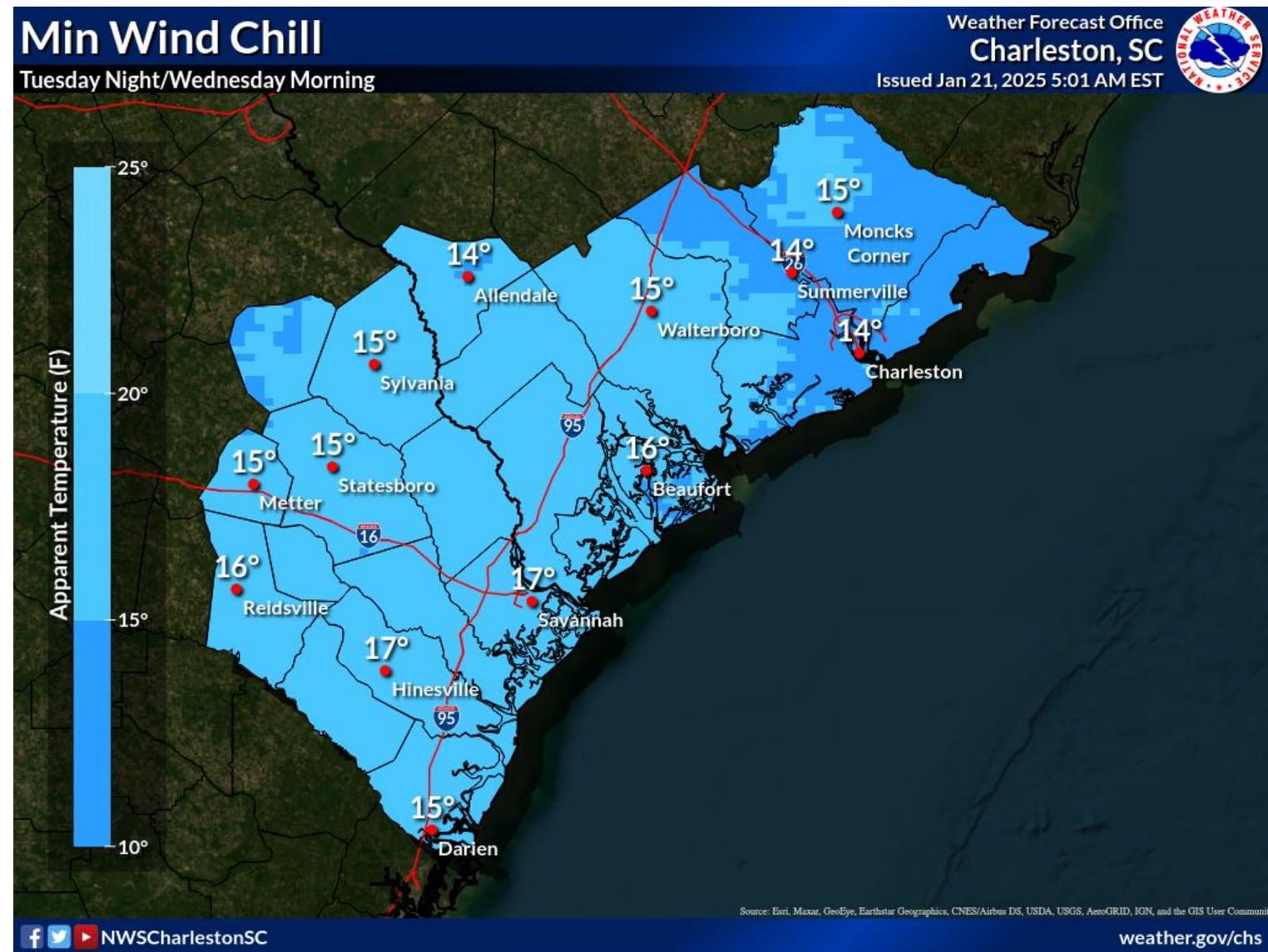
Minimum Wind Chill Forecast

January 21, 2025
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Cold Weather Advisory In Effect Tuesday Night.

Tuesday Night/Wednesday Morning

Wednesday Night/Thursday Morning



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U.S. Department of Commerce

National Weather Service
Charleston, SC



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:

- ◆ Precipitation arrives this afternoon/early evening.
- ◆ Accumulating snow and freezing rain is expected
 - **Snow Amounts:** 1 to 2.5 inches of snow expected (most areas) with locally higher amounts possible.
 - **Ice Amounts:** Accumulation to near 0.25" of ice mainly Georgia coastal counties.
- ◆ **Greatest impact window:** This evening into Wednesday morning.
- ◆ The risk of additional freezing rain along the immediate coast Thursday night is now very low.

Travel:

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



Be Prepared!

January 21, 2025
5:57 AM

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!

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Contact and Next Briefing Info

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Briefing Webpage

→ weather.gov/chs/briefing



Slide Deck

→ By 5 PM, Tuesday, January 21, 2025
→ Method: 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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