

**From:** Duke Meteorology  
**Sent:** Friday, December 23, 2022 3:56 PM  
**To:** Weather-CAR-Discussion  
**Subject:** RE: Carolinas Weather Update for Friday - Tuesday

**Friday Afternoon Weather Update:**

- Cold air hasn't pushed into the region as rapidly this afternoon as the model guidance suggested this morning. At 3pm, the DEC sys avg is 27 degrees while the DEP sys avg is 32 degrees.
- With sustained wind speeds at 15 to 20 mph, wind chills are currently in the single digits across western NC, teens across central NC and 20s across eastern NC.
- Once the sun starts going down after 4pm, expecting temperatures to fall steadily this evening and still looking at DEC lows in the upper single digits and lower teens and DEP lows in the lower and middle teens.
- Breezy conditions will continue overnight. Wind chills across western NC will drop to -10F to -20F and across the Piedmont will be -5F to +5F.
- Saturday will be sunny but cold with daytime highs from the middle 20s northwest to lower 30s southeast.

**From:** Duke Meteorology  
**Sent:** Friday, December 23, 2022 5:06 AM  
**To:** Weather-CAR-Discussion  
**Subject:** Carolinas Weather Update for Friday - Tuesday

**Friday morning weather update:**

- A band of precipitation associated with the strong arctic cold front will sweep through the area early this morning with rain changing over to a brief period of snow across the mountains and foothills along and north of I-40. Cold arctic air will spill quickly in the area throughout the morning hours behind the front. Gusty winds will lead to dangerous wind chills across the mountains/foothills today.
- Main challenge today will be the hourly temperatures as the cold air spread west-to-east across the region. Winds 15 to 25 mph with gusts up to 45 mph will result in much colder wind chills.
- For DEC, the 4am sys avg is 45 degrees. Forecast calls for 33 degrees at 7am, 23 degrees at 1pm, 22 degrees at 4pm, and 17 degrees at 7pm. Wind chills in the single digits this afternoon, near zero this evening.
- For DEP, the 4am sys avg is 46 degrees. Forecast calls for 50 degrees at 7am, 29 degrees at 1pm, 25 degrees at 4pm and 22 degrees at 7pm. Wind chills in the upper single digits and low teens this afternoon, then single digits this evening.
- Forecast for Sat AM has trended a couple of degrees colder. Lowered DEC from 12 degrees to 10 degrees and DEP from 15 degrees to 13 degrees.
- Risk is a couple of degrees on either side. There is about 6 degrees of temperature spread across the models for DEC and DEP at 7am tomorrow. Leaned the forecast slightly to the colder side of the mean.
- Wind chills tonight through tomorrow morning will be -10F to -20F across the mountains/foothills and -5F to 0F elsewhere.
- No significant changes to the temperature forecasts for Sat PM – Tuesday. Sun AM in the middle teens, Mon AM in the upper teens, Tues AM in the low-mid 20s.

[REDACTED]