

From: Duke Meteorology
Sent: Tuesday, December 20, 2022 5:55 AM
To: Weather-CAR-Discussion
Subject: Carolinas Weather Forecast Discussion - 12/20/2022

Tuesday – Thursday:

- Chilly high pressure will build across the Mid-Atlantic and Carolinas today and linger through Wednesday. A storm system will track along the Gulf Coast today, spreading clouds into the Carolinas but any precipitation will remain south of the area. This storm system will re-organize/strengthen near the Southeast US coast late Wednesday and tracks northward through the eastern Carolinas on Thursday.
- Considerable cloudiness today. Highs in the low-mid 40s west, mid-upper 40s east.
- Mostly cloudy tonight. Lows in the upper 20s north, lower 20s elsewhere.
- Wednesday looks like it will start out mostly sunny but then turn partly sunny in the afternoon. Highs in the middle 40s west, upper 40s and lower 50s east.
- Rain spreads into the region on Wednesday night, mainly after midnight, and continues through Thursday.
- Tricky temperature forecast on Thursday and will largely depend on the exact track of the storm system.
- Current thinking is that DEC starts out in the middle 30s and warm to the mid-upper 40s. For DEP, temps start out in the lower 40s and warm to the mid-upper 50s.
- Rain ends Thursday evening and then temperatures nearly steady overnight, from the middle 40s west to lower 50s east.

Extended Range:

- An arctic cold front will cross the Carolinas on Friday morning with temperatures falling throughout the day. Looks like the front will enter the NW Piedmont around daybreak.
- **Friday's forecast has trended much colder during the daytime hours based on the overnight model guidance.** The hourly temperatures on Friday will be a challenge; went slightly colder than the model blend to try to get ahead of the colder models trends that may continue.
- For DEC, have a system avg in the upper 30s at daybreak, upper 20s early afternoon and lower 20s early evening.
- For DEP, have a system avg in the lower 50s at daybreak, upper 30s early afternoon and upper 20s early evening.
- In addition to the cold, it will be very windy/gusty. Wind gusts generally 40-45 mph with some gusts up to 50 mph.
- Clear skies and very cold through the holiday weekend.
- Sunny on Saturday. Lows in the mid-upper teens. Highs in the upper 20s and lower 40s west, low-mid 30s east.
- Sunny on Sunday. Lows in the upper teens. Highs in the lower 30s west, middle 30s east.
- Sunny on Monday. Lows in the upper teens. Highs in the mid-upper 30s west, lower 40s east.
- Not quiet as cold midweek. Lows in the low-mid 20s on Tues AM and mid-upper 20s Wed AM. Highs in the 40s.