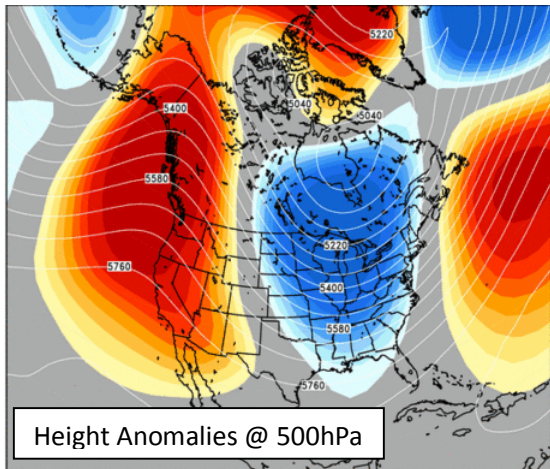


# Georgia Climate Summary for January 2014

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## Summary

The mean upper-level circulation pattern for January featured stout ridging over the eastern north Pacific and western North

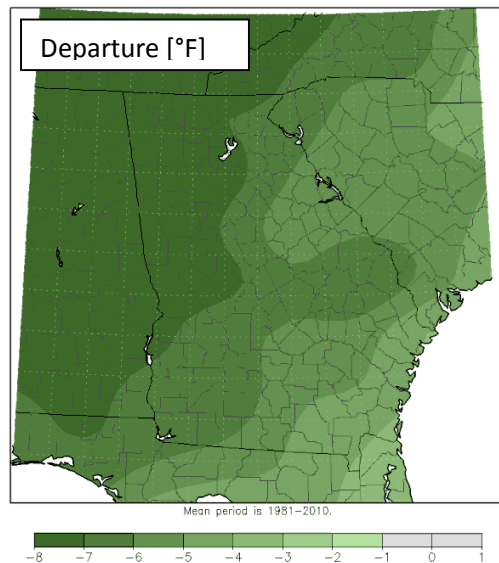


America, with deep troughing prevalent from eastern Canada into the eastern United States. A southward shift of the circumpolar vortex and subsequent amplification of the eastern trough were observed in conjunction with the anomalously strong western ridge. This pattern brought colder and drier than

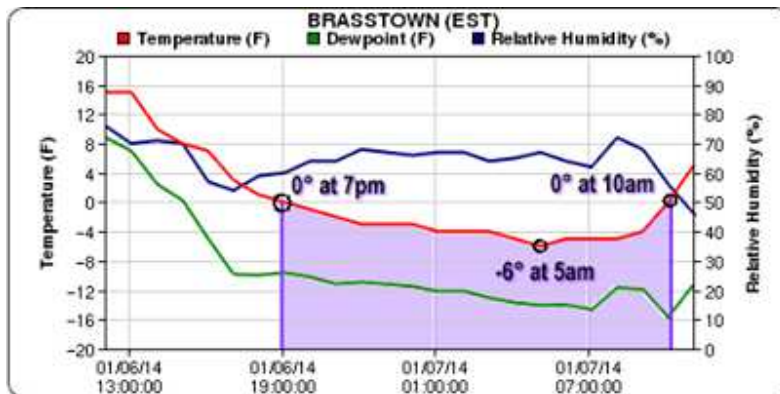
normal conditions to Georgia, with frequent cold-air outbreaks and bouts of wintry precipitation.

## Temperatures

Monthly average temperatures were well below normal statewide, with the greatest departures found across the north and west. Columbus had a mean temperature of 39.7°, which is 7.5° below normal for January. Other monthly averages include Athens and Atlanta with 37.0° (6.5° and 6.3° below normal respectively), Augusta with 39.5° (5.9° below normal), Macon with 39.1° (7.2° below normal), and Savannah with 46.4° (3.1° below normal).



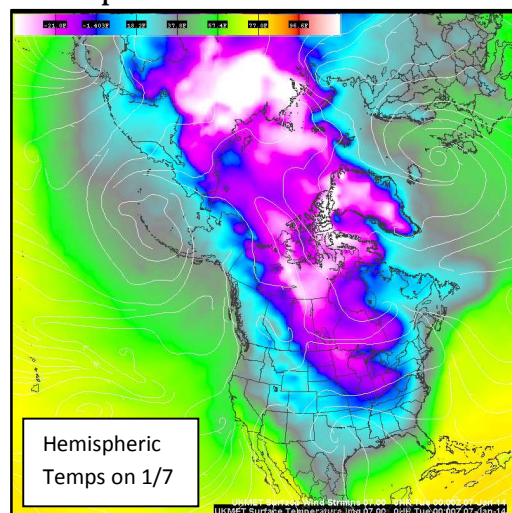
Temperatures statewide plummeted to values not seen in decades on the 6<sup>th</sup> and 7<sup>th</sup> in association with a cold-air outbreak. Daily minimums on the 7<sup>th</sup> ranged from around -5° in the northern mountains to near 20° along the immediate coast. The coldest temperature observed during this event was -6° at the United



States Forest Service Remote Automated Weather Station at Brasstown Bald. This location spent over fifteen hours at or below zero during the overnight period from the 6<sup>th</sup> into the 7<sup>th</sup>. Several daily

minimum temperature records were established on the 7<sup>th</sup> including: 6° at Atlanta, 7° at Athens, 11° at Columbus, and 12° at Augusta (all breaking records established in 1970). Additional records were set in Macon (11°; breaking the old record established in 1924) and Savannah (19°; breaking the old record established in 1959). Many climate locations also established new daily low maximum records on the 7<sup>th</sup> as well.

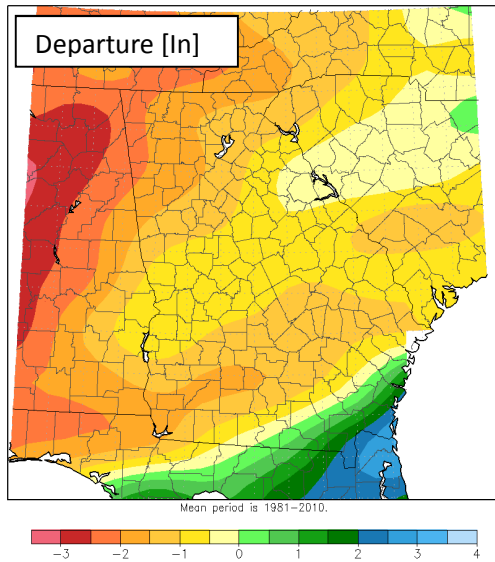
After a brief mid-month warm-up, cold temperatures returned on the 21<sup>st</sup> and continued for the remainder of the month. Brasstown Bald again dropped below zero on the 24<sup>th</sup> with a low of -1°, while Macon established a new record low of 13° on the 25<sup>th</sup> (breaking the old record of 16° set in 1963). Additional temperature records were set through the remainder of the month, including a low of -1° at Rome on the 30<sup>th</sup> (the coldest there since January of 1977).



Statewide the monthly mean temperature was 40.1° which is 6.8° below the average of 46.9°. ***This ranks as the 6<sup>th</sup> coldest January***

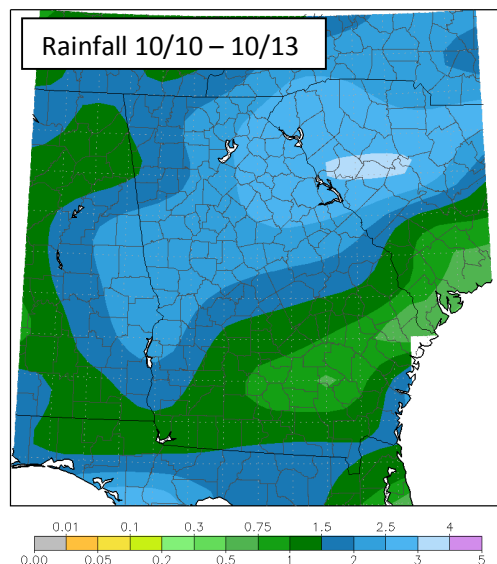
***for the state since records have been maintained starting in 1895.*** This is also the coldest January statewide since 1978.

## Precipitation

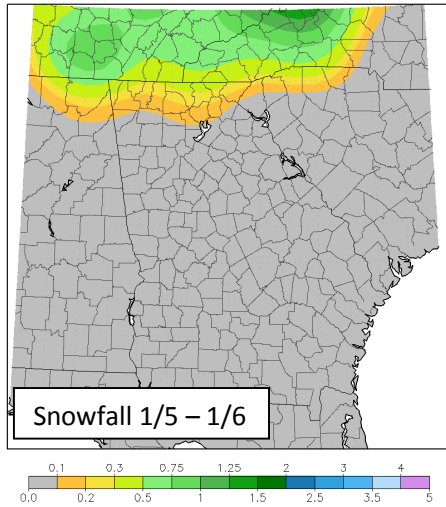


Precipitation was below average across the state in January. The lone exception was along the southeastern coast, where departures were two to three inches above normal. Other portions of the state were one to two inches below normal, with some isolated two to four inch deficits in the extreme north. Athens received 4.68" for the month (0.63" above normal), Atlanta had 3.35" (0.85" below normal), Augusta had 2.48"

(1.43" below normal), Macon had 3.23" (1.01" below normal), and Savannah had 2.41" (1.28" below normal). The greatest monthly rainfall amounts were in and around Sapelo Island, where the CoCoRaHS and NWS cooperative observers reported 8.09" and 7.69" respectively. Over 2" of this rainfall occurred during the 24 hour period ending on the 11<sup>th</sup>. The greatest one day rainfall total across the state was reported by the NWS cooperative observer in Ellijay on the 12<sup>th</sup> with 3.54".



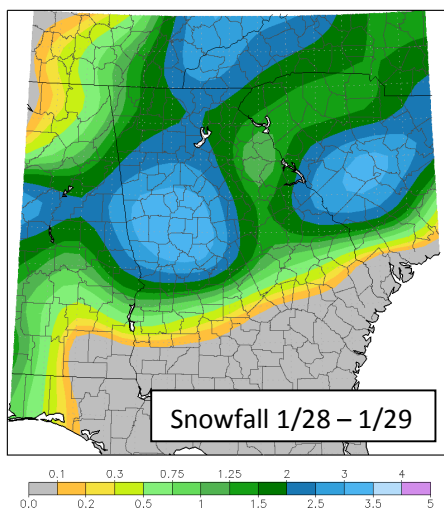
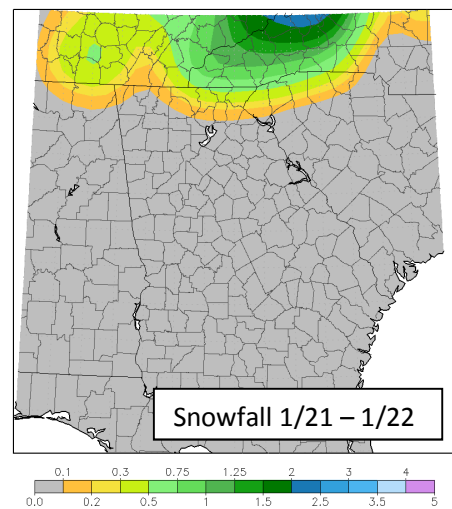
Accumulating snowfall occurred in the far northern portions of the state on the 5<sup>th</sup> and 6<sup>th</sup> and again on the 21<sup>st</sup> and 22<sup>nd</sup>. Trace amounts were reported as far south as Atlanta in both cases. The



CoCoRaHS observers in Blue Ridge and Morganton each reported one half inch of accumulation on the 6<sup>th</sup>, with 0.6” falling in Blue Ridge on the 21<sup>st</sup>. The greatest snowfall total from the second event was 1.0” reported by the CoCoRaHS observer near Rabun Gap.

A significant winter storm affected much of the state on the 28<sup>th</sup>

and 29<sup>th</sup> with accumulating snow and freezing rain. Snowfall totals exceeded 2” in northern and central parts of the state, with Dallas reporting 3.5” of accumulation. Ice accretions exceeding one half inch were reported northwest of Savannah, with numerous trees and power lines down. The combination of very cold temperatures (dropping from

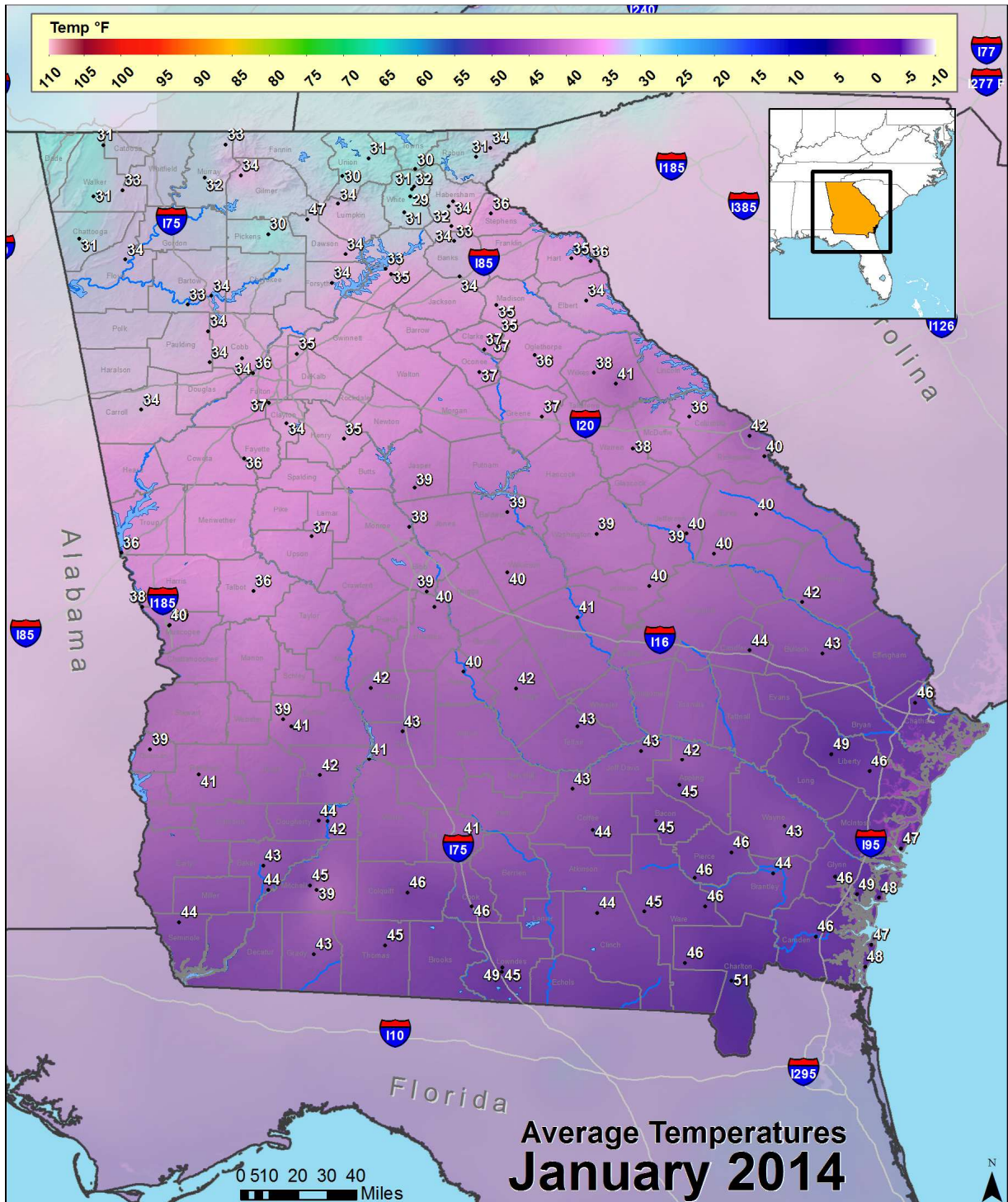


27° when snow began at 11am on the 28<sup>th</sup> to 12° at 8am on the 29<sup>th</sup> in Atlanta), accumulating snowfall, and workday-hours onset resulted in abysmal travel conditions in and around Atlanta, where some commuters were stuck in their vehicles on icy roadways for over 24 hours. Many people abandoned their cars and traveled on foot to seek shelter from the cold. This event paralleled a similar one from

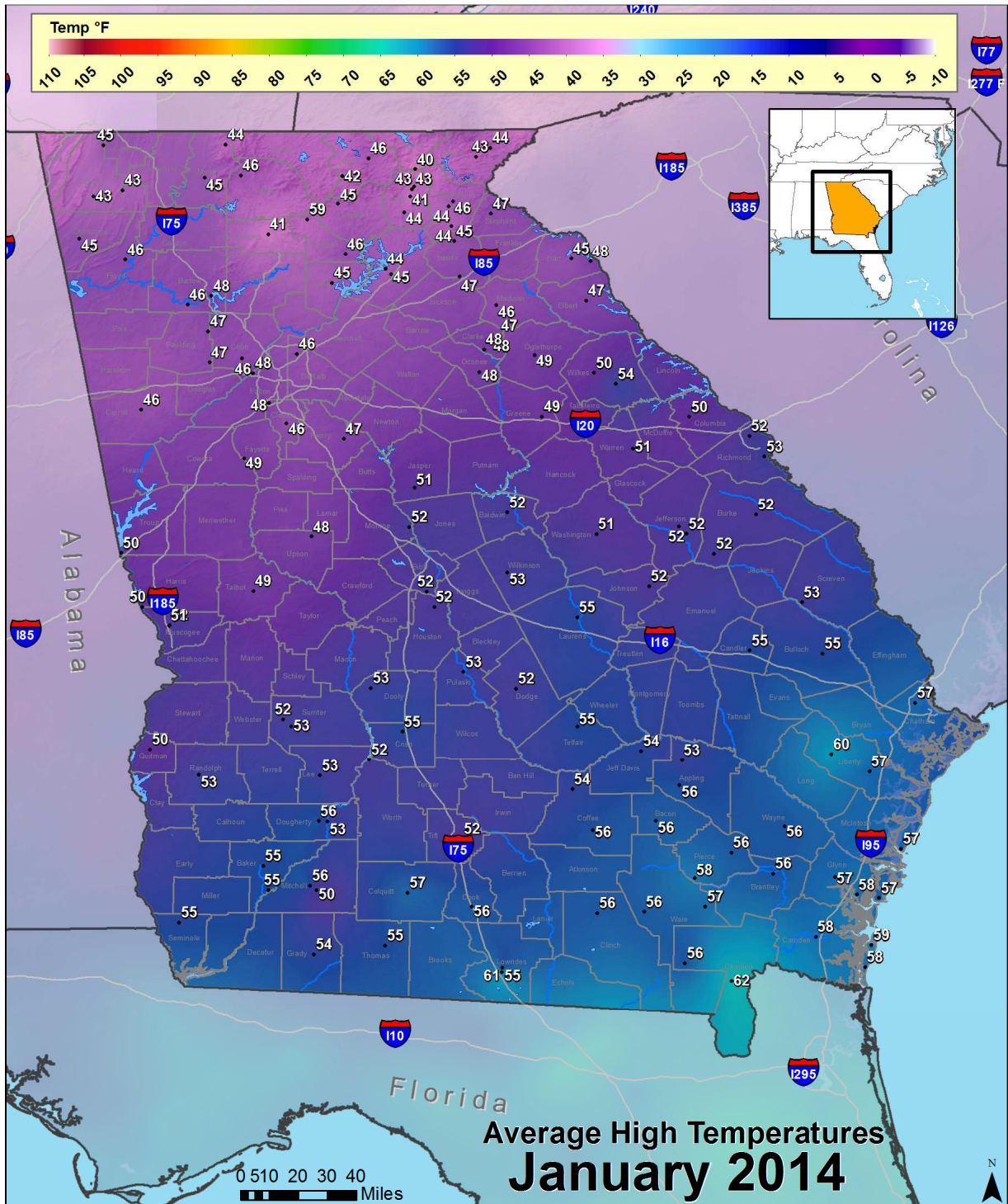
January 12, 1982 (referred to locally as Snow Jam '82) during which travel around metropolitan Atlanta became virtually impossible.

## **Storm Reports**

Severe weather affected portions of the state on the 11<sup>th</sup>. Storm reports include an EF-0 tornado near Waleska and 80 mile per hour straight-line winds near Cedartown. Scattered gusts of 40-60 miles per hour were reported in other portions of the state coincident with the passage of a squall line. These winds resulted in numerous reports of trees and power lines down, particularly in southeastern portions of the state. Outside of this event, by far the most significant weather impacts during the month resulted from winter weather as discussed in the previous section.

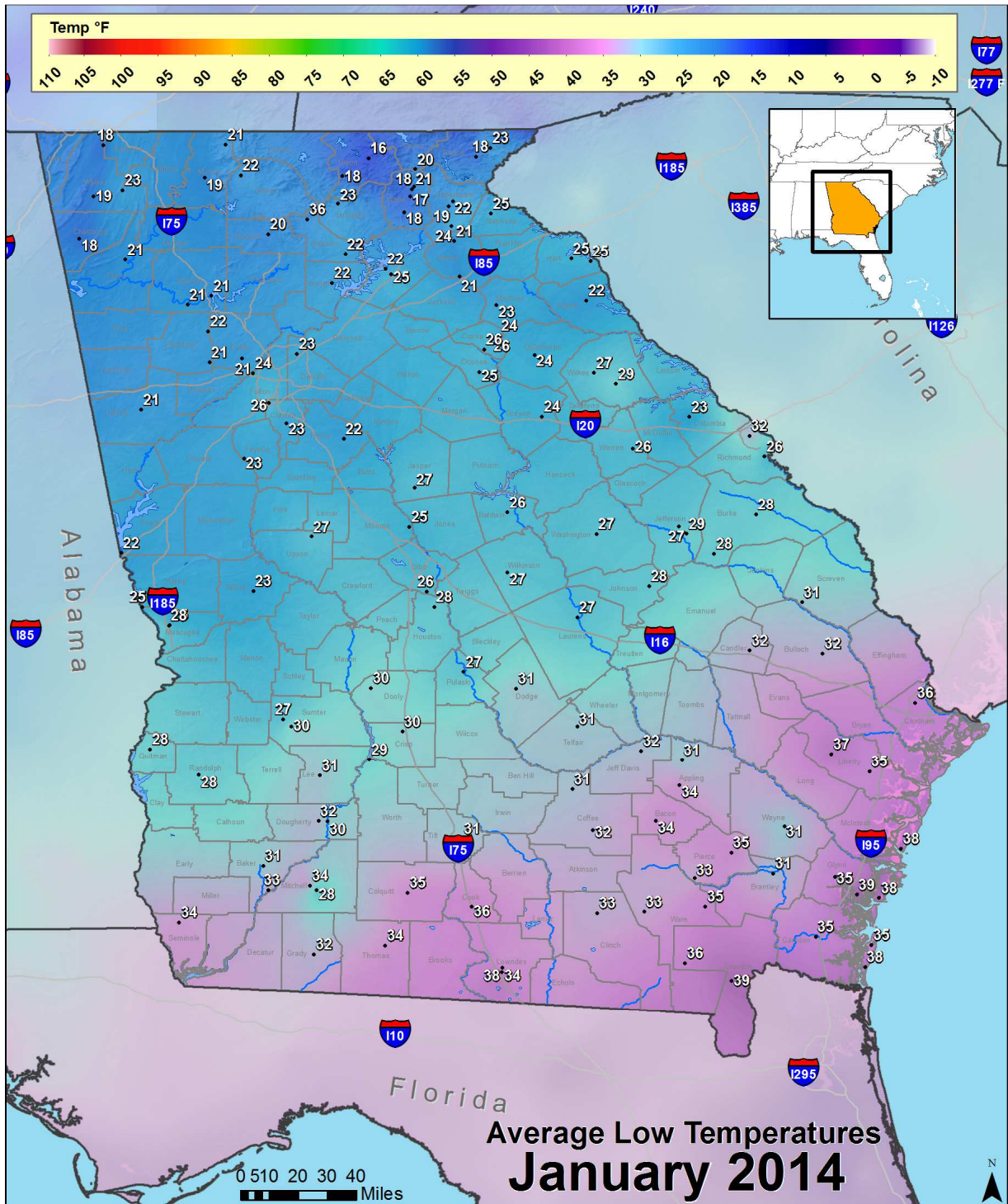


Map created using provisional data from various meteorological networks. All values are considered preliminary. State of Georgia Limited quality control has been applied. State of Georgia Climate Office



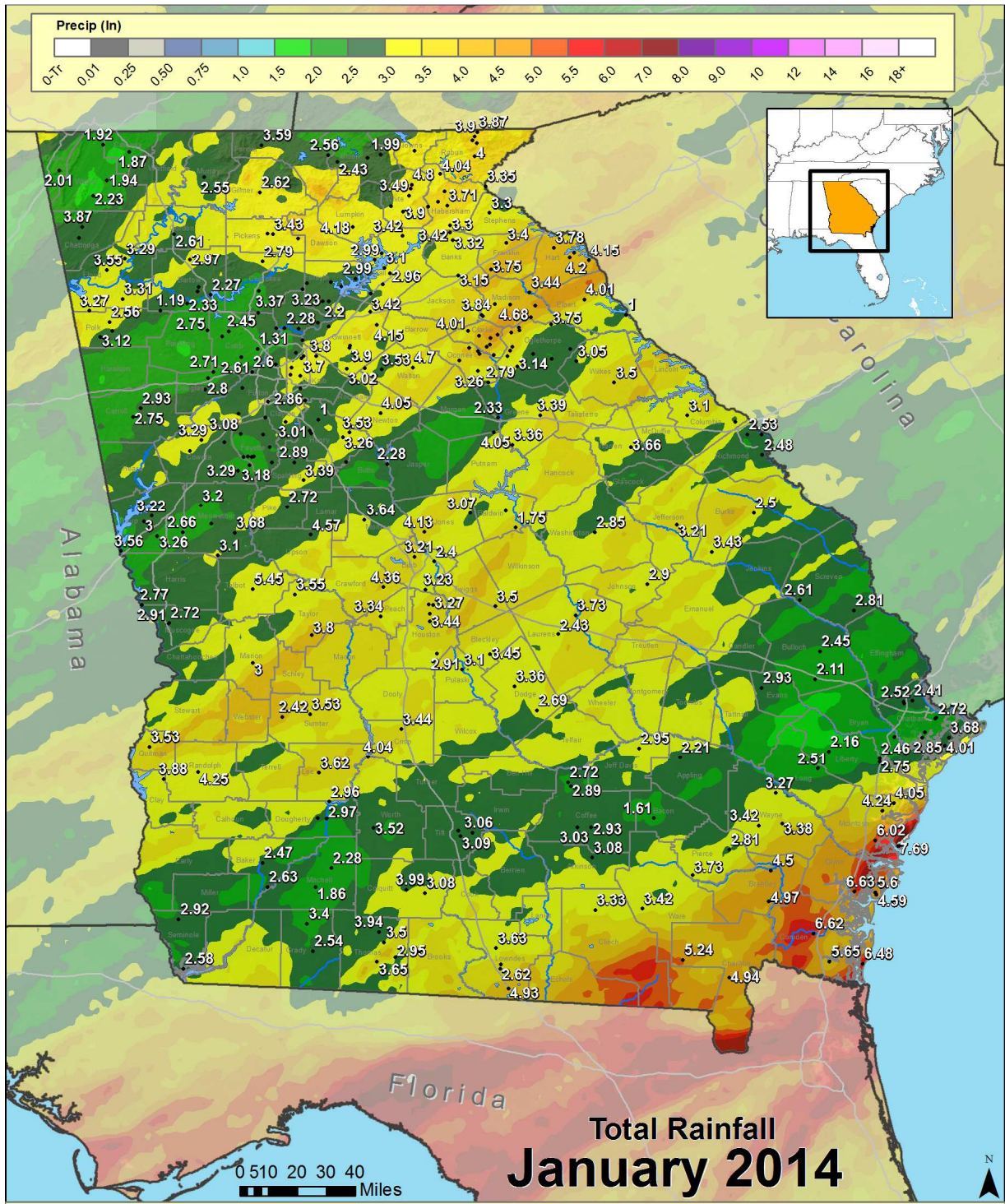
## Average High Temperatures January 2014

Map created using provisional data from various meteorological networks. All values are considered preliminary. State of Georgia Limited quality control has been applied. State of Georgia Climate Office

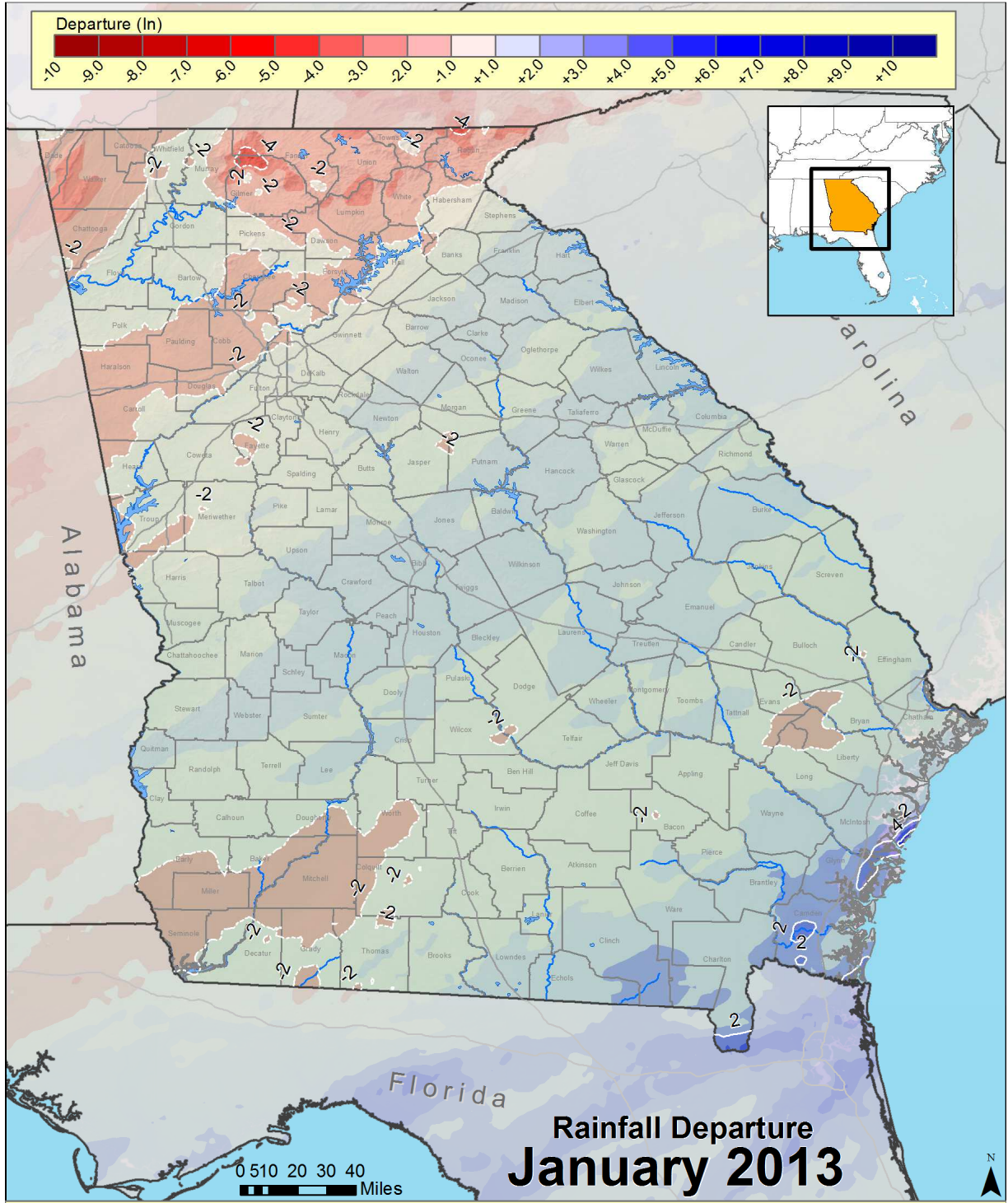


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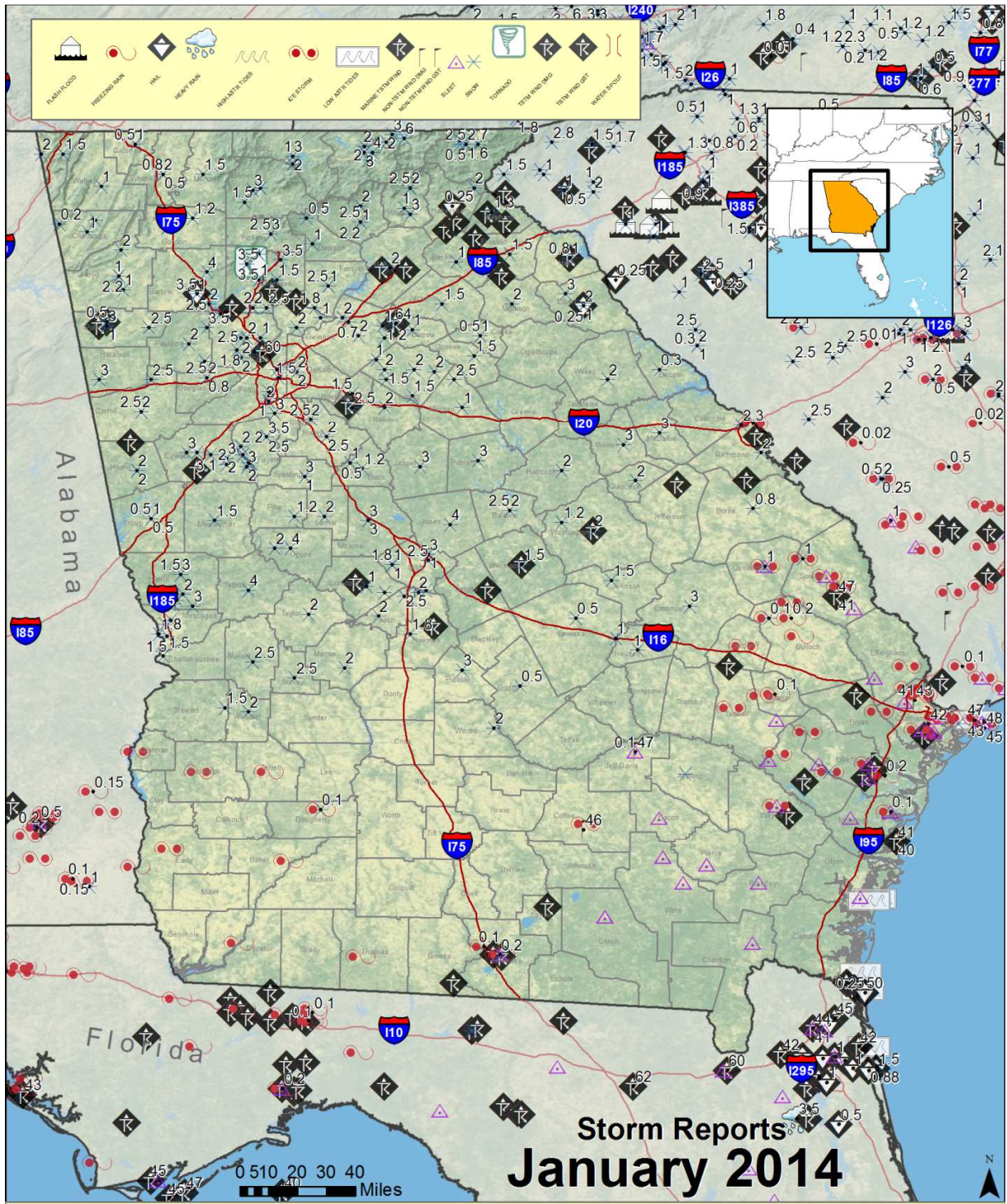




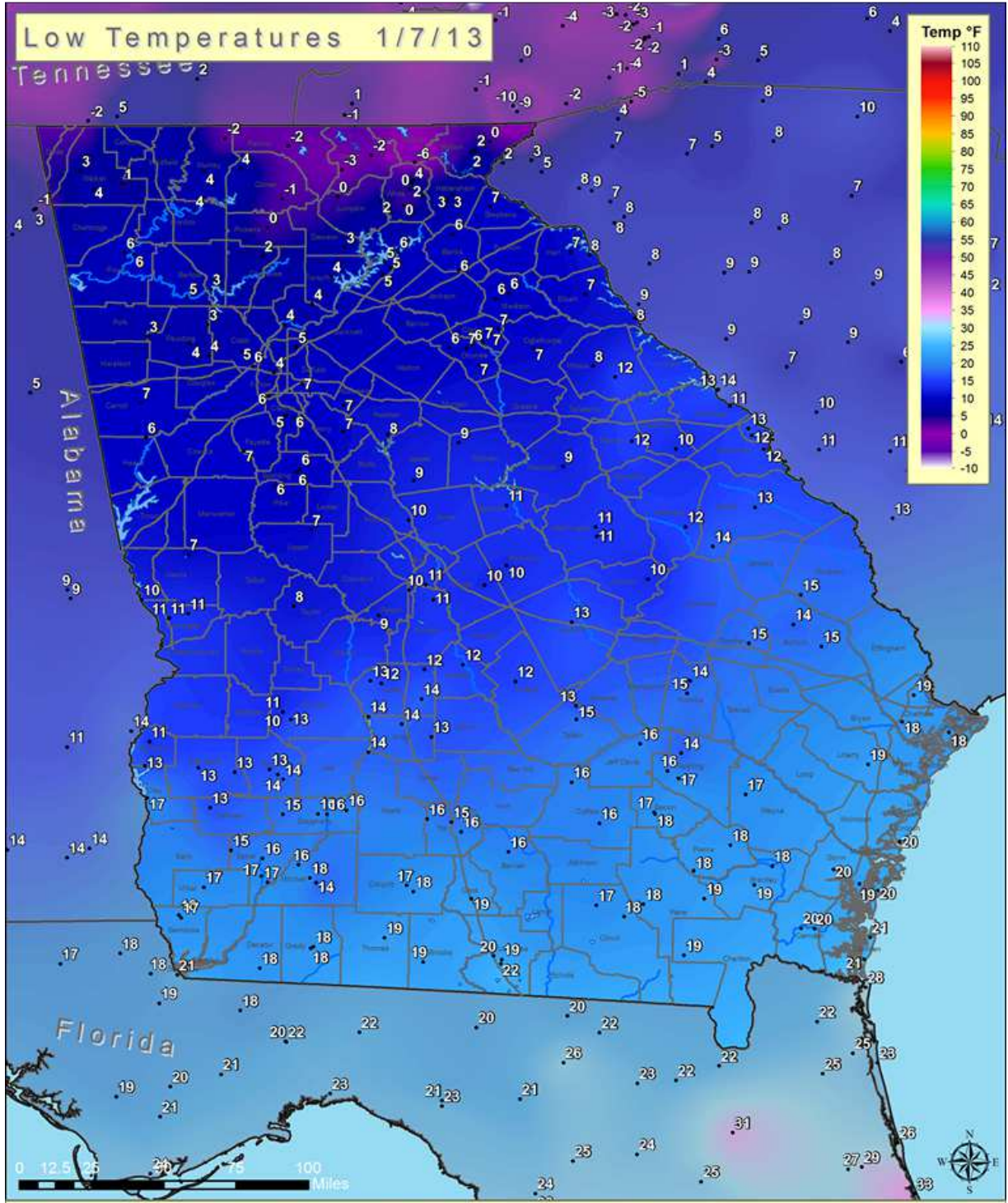
Map created using provisional data from various meteorological networks. All values are considered preliminary. State of Georgia Limited quality control has been applied. State of Georgia Climate Office



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Map created using provisional data from various meteorological networks. All values are considered preliminary. State of Georgia Limited quality control has been applied. Plot is for the 24 hour period ending at 7am on the indicated day. State of Georgia Climate Office

