

Global Disaster Weather Monitoring and Forecast News

No. 3 (experimental)

Central Meteorological Observatory

December 18, 2023

North America is expected to experience widespread rain and snow with cooling temperatures.

I. Real-time Monitoring

From December 15th to 18th (UTC), the eastern United States experienced moderate to heavy rain, with torrential rains in Florida, Georgia, South Carolina, North Carolina, and other areas.

Meanwhile, the Alaska region and the central-eastern part of Canada saw moderate to heavy snowfall.

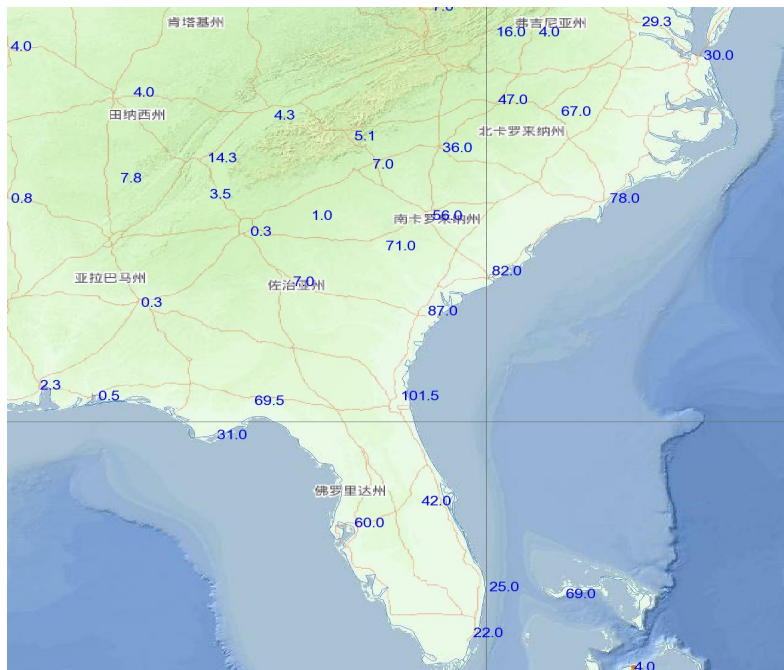


Figure 1. Rainfall in the Southeastern United States from 00:00 on December 17th to 00:00 on December 18th, 2023 (UTC) (Unit: mm)

II. Future Forecast:

In the coming days, influenced by the eastward movement of the upper-level trough and the intrusion of cold air, there will be significant rain, snow, and cooling temperatures in the northern and central-eastern regions of North America. Specifically, Alaska, the Great Lakes region, the Northeastern United States, southwestern and eastern Canada, among other areas, will experience heavy to blizzard conditions, with locally intense blizzards. The Eastern United States is expected to have heavy to torrential rainfall, with locally intense downpours.

Central and eastern Canada, as well as the central-eastern United States, will witness temperature drops ranging from 8 to 14°C, with temperature reductions exceeding 18°C in certain areas such as central Canada, the Labrador Peninsula, and the Northeastern United States.

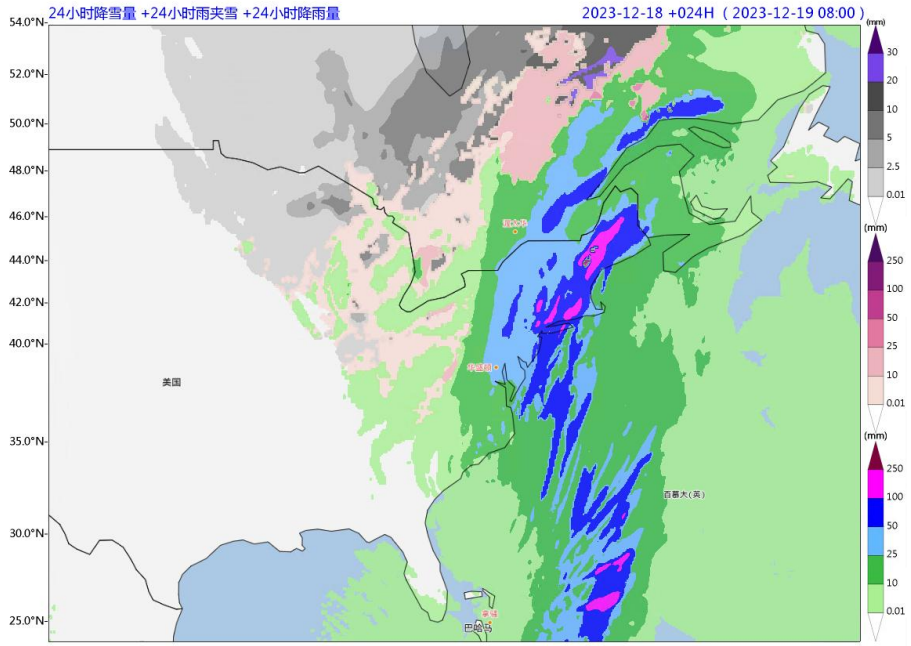


Figure 2. North American Rain and Snow Forecast from 00:00 on December 18th to 00:00 on December 19th, 2023 (UTC)

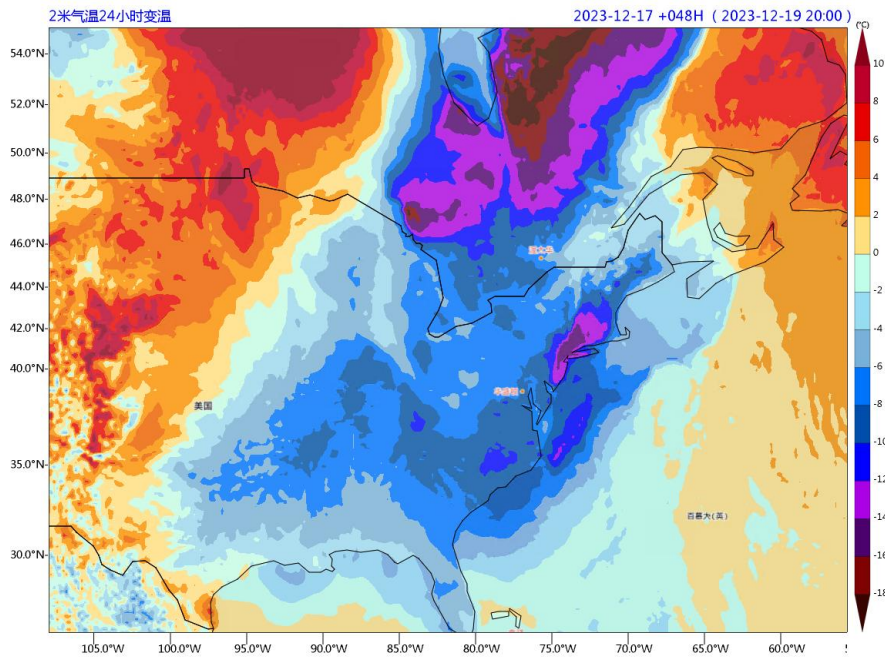


Figure 3. 24-Hour Temperature Change in the 2m Atmosphere over Eastern North America from 12:00 on December 18th to 12:00 on December 19th, 2023 (UTC)

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