

ProbSevere

Severe weather and lightning prediction



On June 19, 2024, severe weather formed over parts of New Mexico and Utah resulting in storms that caused flash flooding with several people being rescued. ProbSevere alerted National Weather Service forecasters to the developing storm 2-hours before dangerous conditions hit. The advanced warnings gave residents valuable time to secure their property and take shelter.



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ProbSevere is an AI-driven tool developed by NOAA's Cooperative Institute for Meteorological Satellite Studies that provides timely predictions of severe weather, resulting in more lead-time and accurate forecasts.

- ProbSevere is used nationwide by weather forecasters to help predict severe weather like lightning, heavy rain, hail, winds, and tornadoes
- Helps keep people safe during large events like state fairs, festivals, concerts, tournaments, sporting events, NFL games, and national conventions.
- Used by aviation industry to provide early warning for potential lightning strikes

Innovative research and development at the Cooperative Institute for Meteorological Satellite Studies supports NOAA's mission to save lives and protect property