



Severe storm moving through Coles County, Illinois. Photo: Mellinda Swinford. (CC BY-NC-ND 2.0)

July 2016

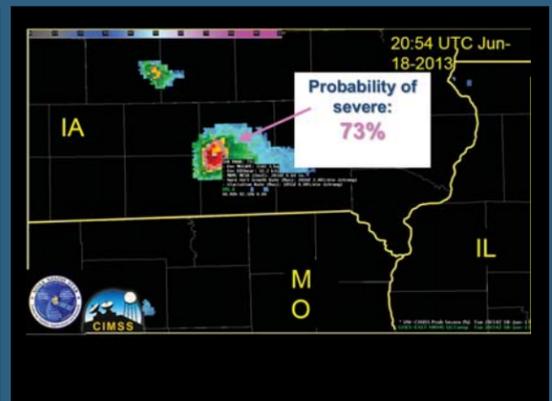


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Improving severe weather forecasting

New products and tools for forecasting severe weather are being tested through the GOES-R Proving Ground. The ProbSevere tool integrates geostationary satellite data, radar, and weather prediction models to predict the probability that a storm will produce severe weather. The Convective Initiation product detects rapidly forming cumulus clouds in a pre-convective state and can determine where significant convection will develop. The more frequent images, improved spatial resolution, and increase in spectral bands for inferring cloud properties that will be available from the Advanced Baseline Imager will improve upon these products in the GOES-R era. These advanced observations will give forecasters more confidence during their warning decision-making and increase lead time for severe storm warnings.

The ProbSevere tool shown during a severe storm on June 18, 2015. This data showed a high probability of severe weather prior to the first severe weather reports and National Weather Service warning.



Credit: NOAA/ Cooperative Institute for Meteorological Satellite Studies