

The 10th Anniversary of the Valentine's Day Storm of 2007

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The Valentine's Day storm of 2007 was one of the heaviest snowfalls to have ever occurred across the Mohawk Valley and Adirondacks of New York State. This storm was even featured in the December 2010 issue of Adirondack Life Magazine as one of the 10 greatest North Country weather disasters. What separated this storm from many other snowstorms that impacted the region over the years was the very intense band of heavy snow which yielded snowfall rates of 4 to 6 inches per hour and lasted for up to 6 hours. The entire snowstorm in most areas was over in 18 hours.

This presentation will focus on the forecast leading up to the storm including a discussion of SREF and MREF model data, a look at some of the key parameters which contributed to producing the heavy snowfall, the radar data including the intense band which formed as well as output from the snow accumulation algorithm, and a GIS analysis of the snowfall, snow water equivalent and snow to liquid ratio from the storm. Some pictures of the snowfall will be presented including a time lapse video of 6 inch per hour snowfall at North River, NY as well as photos showing snow drifts to 14 feet. In total there were 6 locations in the Albany Forecast area which received 40 inches or more of snowfall.