

Utility of GOES-R GLM Observations Using Hybrid Variational-Ensemble Data Assimilation in Regional Applications

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A method for assimilating GOES-R GLM observations is described. The system employs a prototype hybrid variational-ensemble data assimilation system with WRF-NMM model. The assimilated proxy observations are the WWLLN lightning flash rates. The system is applied to the April 2010 tornado outbreak over the Southern United States.