**Assimilation of GOES-R Atmospheric Motion Vectors (AMVs) in the NCEP GLOBal forecast system**

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Abstract

In preparation for GOES-R launch, proxy AMV data created using imagery from Meteosat-9 & 10 Spinning Enhanced Visible Infra-Red Imager (SEVIRI) and the new nested tracking algorithm has been assimilated in the NCEP Global Forecast System (GFS). Results from two seasons will be presented to show impact on the assimilation state and forecast skill from this new wind data. Discussion will also include quality control, observation error and other modifications to the Gridpoint Statistical Interpolation (GSI) software enacted to promote a positive GOES-R AMV data impact on the GFS.