

JPSS PROVING GROUND SEMINAR

TITLE	CIMSS Near-Real-Time Satellite Data Assimilation and Forecast System for Improving JPSS and GOES-R Applications
SPEAKER	Jun Li Cooperative Institute for Meteorological Satellite Studies University of Wisconsin-Madison
DATE & TIME	Monday, June 20, 2016 12:00 pm, Eastern Standard Time (New York)
LOCATION	Aerospace Building 8th Floor Conference Room 10210 Greenbelt Rd Lanham, MD 20706 and Via Webinar (See below)
ABSTRACT	Under the NOAA JPSS and GOES-R program support, scientists from Cooperative Institute of Meteorological Satellite Studies (CIMSS) at University of Wisconsin-Madison have recently developed a near realtime regional Satellite Data Assimilation system for Tropical storm forecasts (SDAT). With its core system built with GSI/WRF, SDAT can assimilate GOES, AMSUA/AMSUB, HIRS, MHS, ATMS, AIRS and IASI radiances. In addition, SDAT is able to assimilate satellite-derived total precipitable water (TPW), the layered precipitable water (LPW) and atmospheric motion vector (AMV) products into the system. Using SDAT as a research testbed, studies have been conducted on improving the use of JPSS/GOES-R satellite data in NWP models, for example, how to better perform cloud detection for hyperspectral IR sounder radiance assimilation and assimilate CrIS radiances in cloudy skies, how to better use the high temporal resolution moisture in NWP for local storm forecasts. Since the fall of 2013, the SDAT system has been running in near real time. The 2015 hurricane forecasts in the Northern Atlantic Ocean are analysed for the whole season and compared with other operational models.
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FILES	Available upon request