

16th JCSDA Science and Technical Workshop | May 30-31, June 1, 2018

Day 1: Wednesday, May 30, 2018

8:00 AM – 9:00 AM	REGISTRATION AND CONTINENTAL BREAKFAST
9:00 AM – 9:20 AM	Welcome from the Management Oversight Board – Robert Atlas
9:20 AM – 10:00 AM	Joint Center for Satellite Data Assimilation: Overview – Thomas Auligne
10:00 AM – 10:30 AM	Agency Partner Perspectives – NOAA/NESDIS, NOAA/NWS, NOAA/OAR, USAF 557th, NASA/GMAO, NRL (Timing TBD)
10:30 AM – 11:00 AM	COFFEE BREAK
11:00 AM – 12:00 PM	Agency Partner Perspectives – NOAA/NESDIS, NOAA/NWS, NOAA/OAR, USAF 557th, NASA/GMAO, NRL (Timing TBD)
12:00 PM – 13:00 PM	WORKING LUNCH
	SESSION 1: CLOUDS AND AEROSOLS
13:00 PM – 13:25 PM	The Use of Sky Cameras to Validate and Augment Satellite / Radar based Cloud Assimilation – Steve Albers, CIRA, NOAA/ESRL
13:25 PM – 13:50 PM	Overall Use of Satellite Data in the RAP / HRRR Models, including Cloud Products, Convective Initiation Indicators, Lightning Data – Steve Weygandt, NOAA ESRL/GSD
13:50 PM – 14:15 PM	Using Multi-Sensor Aerosol Optical Depth Retrievals to Improve Infrared Radiance Assimilation / Assimilation – Aaron Naeger, University of Alabama, Huntsville
14:15 PM – 14:45 PM	COFFEE BREAK
	SESSION 2: DIAGNOSTICS
14:45 PM – 15:10 PM	Impact of Observing Systems Project Overview – Francois Vandenberghe, JCSDA
15:10 PM – 15:35 PM	Efficient Data Selection Method for NWP Using Ensemble Forecast Sensitivity to Observations – Tse-Chun Chen, University of Maryland
15:35 PM – 16:00 PM	Estimation and Online Correction of Systematic Errors in the GFS Using Analysis Increments – Kriti Bhargava, University of Maryland
16:00 PM – 17:30 PM	POSTER SESSION
19:00 PM	Group Evening Activity (optional) – Details to be Provided

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Day 2: Thursday, May 31, 2018

8:30 AM – 9:00 AM	CONTINENTAL BREAKFAST
	SESSION 3: ADVANCES IN DATA ASSIMILATION METHODOLOGIES
9:00 AM – 9:25 AM	JEDI Project Overview – Yannick Tremolet, JCSDA
9:25 AM – 9:50 AM	FV3-JEDI: Progress Report and Future Plans – Daniel Holdaway, JCSDA
9:50 AM – 10:15 AM	SOCA-JEDI: Progress Report and Future Plan – Guillaume Vernieres, JCSDA
10:15 AM – 10:40 AM	Covariance Localization in Strongly Coupled Data Assimilation – Takuma Yoshida, University of Maryland
10:40 AM – 11:10 AM	COFFEE BREAK
	SESSION 4: NEW AND IMPROVED OBSERVATIONS
11:10 AM – 11:25 AM	New and Improved Observations (NIO) Project Overview – Hui Shao, JCSDA
11:25 AM – 11:50 AM	Assimilation of Himawari-8 AHI into NCEP GSI – Ling Liu, NESDIS/STAR/JCSDA
11:50 AM – 12:15 PM	Observation Capabilities - Vertically Resolved Wind Profiles from Space-Based Doppler Wind Lidar: Plans and Current Capabilities – Sara Tucker, Ball Aerospace
12:15 PM – 13:15 PM	WORKING LUNCH
	SESSION 4: (CONTINUED)
13:15 PM – 13:40 PM	Assimilation of CYGNSS and GPM Satellite Data in Improving Hurricane Forecasting – Zhaoxia Pu, University of Utah
13:40 PM – 14:05 PM	Assimilation of Clear -/ All-Sky Himawari-AHI Radiances for Convective-Scale Forecasting – Zhiqian Liu, NCAR
	SESSION 5: ALL-SKY AND ALL-SURFACE RADIANCE ASSIMILATION
14:05 PM – 14:30 PM	Assimilation of Clear-Sky Water Vapor Radiances into a Warn-on-Forecast System – Thomas Jones, CIMMS/NSSL
14:30 PM – 15:25 PM	Satellite Radiance Assimilation in the Rapid Refresh Model System, Overall Impacts and Use of Direct Broadcast and ABI Data – Haidao Lin, CIRA/CSU, NOAA/ESRL/GSD

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15:25 PM – 15:40 PM	COFFEE BREAK
	SESSION 5: (CONTINUED)
15:40 PM – 16:05 PM	Assimilation and Evaluation of the AFWA SNODEP Product in NCEP Operational FV3GFS Systems – Jiarui Dong, IMSG at NOAA/NCEP/EMC
16:05 PM – 16:30 PM	Assimilation of Radiance Data Over Land with Addition of Emissivity as Analysis Variable into GSI – Biljana Orescanin, NOAA/NESDIS/STAR/JCSDA
16:30 PM – 17:30 PM	PANEL DISCUSSION
19:00 PM	<i>Group Evening Activity (optional) – Details to be Provided</i>

Day 3: Friday, June 1, 2018

8:30 AM – 9:00 AM	CONTINENTAL BREAKFAST
	SESSION 6: GNSS RADIO OCCULTATION
9:00 AM – 9:25 AM	Assimilation of KOMPSAT-5 GPSRO in GSI 4D-EnVar Assimilation System – Suryakanti Dutta, JCSDA/UCAR
9:25 AM – 9:50 AM	Radio Occultation Observation Operators for Data Assimilation using Spire Bending Angle Data – Razvan Stefanescu, Spire Global
9:50 AM – 10:15 AM	Error Characteristics of KOMPSAT-5 GPS RO Bending Angle Data / NIO – Hailing Zhang, UCAR/COSMIC
10:15 AM – 10:45 AM	COFFEE BREAK
	SESSION 7: COMMUNITY RADIATIVE TRANSFER MODELING
10:45 AM – 11:10 AM	The JCSDA Community Radiative Transfer Model, Benjamin Johnson, JCSDA
11:10 AM – 11:35 AM	CRTM Support to GMAO, Validation and Coefficient Generation, Isaac Moradi, NASA GMAO
11:35 AM – 12:00 PM	Optimizing the CRTM for Improved Performance of All-Sky Radiance Data Assimilation – Thomas Greenwald, University of Wisconsin-Madison
12:00 PM – 12:30 PM	Open Discussion and Wrap-up
12:30 PM	Adjourn