PSU-UMD DA Workshop

June 26, 2017, Monday

7:45	-		*Morning Goodies*			
8:30	**-**	**8:40**	***Opening Remarks***			
8:40	**-**	**10:20**	***Session 1***			*Chair: Kayo Ide*
			Eugenia	Kalmany	UMD	New Applications to Data Assimilation
			Michael	Ying	PSU	On the Selection of Localization Radius in Ensemble Filtering for Multi-Scale Quasi-Geostrophic Dynamics
			Thomas	Lauvaux	PSU	Data Assimilation for Regional Carbon Cycles
			Kayo	Ide	UMD	Blance Operators and Varialble Localization as Multi-element Ensemble Data Assimilation
10:20	**-**	**10:40**	***Break***			
10:40	**-**	**12:20**	***Session 2***			*Chair: David Stensrud*
			Eun-Gyeong (Claire) Yang		PSU	Development and Evaluation of a Regional Reanalysis over East Asia
			Matthew	Westpetal	UMD	Generating Climatological Forecast Error Covariance for 3D-Var with Ensemble Perturbations: Comparison with the "NMC method"
			Steven	Greybush	PSU	Evaluating Predictability of High-Impact Weather using Convective-Allowing Ensemble Forecasts: Winter Snowstorms and Spring Thunderstorms
			Seth	Salso	PSU	Lake-Effect Snow: Evaluating Forecasts of Intense Wintertime Convection From a Regional Ensemble Data Assimilation System
12:20	**-**	**12:30**	***Brief Discussion***			
12:30	**-**	**13:30**	***Lunch***			
13:30	**-**	**15:10**	***Session 3***			*Chair: Steven Greybush*
			David	Parrish	NOAA/ EMC	Ideas for Alleviating GSI Computer Limitations
			Wan-shu	Wu	NOAA/ EMC	Regional 4DEnVar with Global Ensemble at NCEP
			David	Stensrud	PSU	Analysis of Environmental Modifications by Deep Convection During MPEX
			Yunji	Zhang	PSU	EnKF Assimilation of Synthetic ABI Infrared Radiance Observations at Storm Scales with Vertical Localization
15:10	**-**	**15:30**	***Break***			
15:30	**-**	**17:10**	***Session 4***			*Chair: Brian Hunt*
			Robert	Nystrom	PSU	Understanding and Improving the Predictability of Tropical Cyclones Through Ensemble-Based Data Assimilation
			Lei	Zhu	PSU	GOES-13 All-Sky Infrared Radiance Impacts on Hurricane Joaquin (2015) Prediction with PSU-EnKF
			David	Groff	UMD/ NOAA	Application of EFSO Calculations Towards Targeted Aircraft Thinning Configurations
			Tse-Chun	Chen	UMD	Proactive Quality Control to Improve NWP, Reanalysis, and Observations
17:10	**-**	**17:30**	***Brief Discussion***			
Evening			***BBQ Party***			

June 27, 2017, Tuesday

7:45	*-*		*Morning Goodies*			
8:25	*-*	*8:30*	*Opening Remarks for Day 2*			
8:30	*-*	*10:10*	*Session 5*			*Chair: James Carton*
			Brian	Hunt	UMD	Reservour Computing
			Yuan	Xue	UMD	Using a Support Vector Machine and Satellite-Based Passive Microwave Brightness Temperature Observations Within a Land Data Assimilation System to Improve Snow Characterization in North America
			Barton	Forman	UMD	Towards the Development of a Global, Satellite-based, Terrestrial Snow Mission Planning Tool
			Frank	Lagor	UMD	DMD-Based Estimation of the Flow Field Behind a Thin Airfoil at High Angles of Attack
10:10	*-*	*10:30*	*Break*			
10:30	*-*	*12:10*	*Session 6*			*Chair: Eugenia Kalnay*
			James	Carton	UMD	An Incremental Approach to Fixing Surface Fluxes
			Travis	Sluka	UMD	Strongly Coupled Ocean-Atmosphere Data Assimilation
			Hart	Gillespie	PSU	Ensemble Data Assimilation for a Mars Atmosphere and Aerosol Reanalysis
			Yun	Liu	UMD	An On-Line Ensemble Coupled Data Assimilation System
			Tyrus	Berry	PSU/ GMU	Correcting Biased Observation Model Error in Data Assimilation
12:10	*-*	*13:10*	*Lunch*			
13:10	*-*	*14:30*	*Session 7*			*Chair: Fuqing Zhang*
			Kristen	Bathmann	NOAA/ EMC	Assimilating Infrared Sounder Observations wtih Correlated Error
			Scott	Sieron	PSU	Coupling WRF Microphysics Parameterizations to Community Radiative Transfer Model Simulations of Microwave Frequencies, sTowards Data Assimilation for TCs
			Fuqing	Zhang	PSU	Overview of Data Assimilation Research at PSU
14:30	*-*		*Final Discussion*			
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