4th Workshop on Remote Sensing and Modeling of Surface Properties

Title:	Workshop Agenda
Location:	Maison Jean Kuntzmann (MJK), Saint Martin d'Hères
Date:	14-16 March 2016

Monday March 14th

Start	End	Duration		Author
7:45:00	9:00:00	1:15	Registration	
9:00:00	10:05:00	1:05		
			Welcome by RSMSP	Benjamin Ruston, Sid Boukabara, Fatima Karbou
			Welcome by CNRM/CEN	Marie Dumont
			Welcome by OSUG	Hans-Werner Jacobi
			Welcome by PNTS	Fatima Karbou
			CGMS and the International Science Working Groups	Steve English

Session 1: Land data assimilation / Monitoring / Applications

Co-Chairs: Steve English, Nadia Fourrié

Start	End	Duration	Title	Author
10:05:00	10:30:00	0:25:00	ESA's Soil Moisture and Ocean Salinity Mission: An overview on the mission's performance and scientific results	Susanne Mecklenburg (ESA)
10:30:00	10:55:00	0:25:00	Assimilation of land surface satellite data for operational Numerical Weather Prediction at ECMWF	Patricia De Rosnay (ECMWF)
10:55:00	11:25:00	0:30:00	Break	
11:25:00	11:50:00	0:25:00	Assimilation of superficial soil moisture in the land surface scheme ISBA: comparison between Extended and Ensemble Kalman Filters	Jean-François Mahfouf (CNRM)
11:50:00	12:15:00	0:25:00	Assimilation of SMOS neural-network-retrieved soil moisture for numerical Weather Prediction at ECMWF	Nemesio Rodriguez-Fernandez (ECMWF)
12:15:00	13:30:00	1:15	Lunch at MJK	
Total		**5:45**		

Session 1: Land data assimilation / Monitoring / Applications Co-Chairs: Steve English, Nadia Fourrié				
Start	**End**	**Duration**	**Title**	**Author**
13:30:00	13:55:00	0:25:00	The Application of Satellite Data in the Global Surface Data Assimilation System at KMA	MeeJa Kim (Korea Meteorological Administration / /National Institute of Meteorological Sciences)
13:55:00	14:20:00	0:25:00	Surface temperature for Atmospheric Sounding	Steve English (ECMWF)
14:20:00	14:45:00	0:25:00	A satellite-based long-term Land Surface Temperature Climate Data Record	Anke Duguay-Tetzlaff (MeteoSwiss)
14:45:00	15:10:00	0:25:00	Evaluating the Unified Model and JULES simulated land surface temperature (LST) using MODIS LST retrievals and ground-based eddy-covariance flux measurements.	Jennifer K. Brooke (Met-Office)
15:10:00	15:35:00	0:25:00	The improvement of assimilation of IASI surface-sensitive channels over land at convective scale AROME Model	Niama Boukachaba (CNRM)
15:35:00	16:10:00	0:35:00	Break	
16:10:00	16:35:00	0:25:00	Comparison of model land skin temperature with remotely sensed estimates and assessment of surface-atmosphere coupling	Gianpaolo Balsamo (ECMWF)
16:35:00	17:00:00	0:25:00	GPM Observations of Microwave Land Surface Emissivity and Radar Backscatter	Stephen Munchak (NASA Goddard Space Flight Center)
17:00:00	17:25:00	0:25:00	Estimating Non-Raining Surface Parameters to Assist GPM Constellation Radiometer Precipitation Algorithms	Joe Turk (Jet Propulsion Laboratory/Caltech)
17:25:00	17:50:00	0:25:00	Daily rainfall detection and estimation over land using microwave surface emissivitie	Camille Birman (CNRM)
Total		**4:20**		

Tuesday March 15th

Session 2: Surface emissivity Modeling / Retrieval Co-Chairs: Catherine Prigent, Fatima Karbou				
Start	**End**	**Duration**	**Title**	**Author**
9:00:00	9:35:00	0:35:00	Simulations of the sea ice thermal microwave emissivity	Rasmos Tonboe (DMI)
9:35:00	10:00:00	0:25:00	Development and improvement of Community Surface Emissivity MODEL (CSEM) system	Ming Chen (JCSDA/STAR/NESDIS)
10:00:00	10:25:00	0:25:00	Land Surface Properties and Emissivity in Passive Microwave Precipitation Retrievals for GPM	Sarah Ringerud (NASA GSFC/ USRA)
10:25:00	10:50:00	0:25:00	Introduction to the Development of a Dynamic Infrared Land surface Emissivity Atlas based on IASI Retrievals	Rory Gray (Met-Office)
10:50:00	11:25:00	0:35:00	Break	
11:25:00	11:50:00	0:25:00	Evaluation of an emissivity module to improve the simulation of L-band brightness temperature over desert regions with CMEM	Martin Lange (DWD)

11:50:00	12:15:00	0:25:00	Generic emissivity parameterizations at microwave to sub-millimeter waves, for ocean and land	Catherine Prigent (Observatoire de Paris)
12:15:00	12:40:00	0:25:00	Estimation of surface emissivity up to 325 GHz with the ISMAR airborne instrument	Wang Dié (Observatoire de Paris)
12:40:00	13:55:00	1:15:00	Lunch at MJK	
Total		**4:55**		

Session 2: Surface emissivity Modeling / Retrieval

Co-Chairs: Catherine Prigent, Fatima Karbou

Start	End	Duration	Title	Author
13:55:00	14:20:00	0:25:00	The MEASURES High Spectral Resolution MODIS/ASTER Emissivity Database and its evaluation with RTTOV	Eva Borbas (UW-madison/SSEC/CIMSS)
14:20:00	14:45:00	0:25:00	Reconstruction of surface profiles by iterative Newton-Kantorovitch's method	Slimane Arhab (Université d'Avignon et des Pays du Vaucluse)
14:45:00	15:10:00	0:25:00	Statistical and Physical Modeling for Real-time Estimation of Land Surface Microwave Emissivity	Yudong Tian (NASA/GSFC)
15:10:00	15:35:00	0:25:00	Investigation of sea clutter azimuthal variations	Zaynab GUERRAOU (ONERA)
15:35:00	16:05:00	0:30:00	Break	

Session 3: Issues related to snow surfaces

Co-Chairs: Jérome Vidot, Joe Turk

16:05:00	16:40:00	0:35:00	Scattering Properties of Electromagnetic Waves in Stratified air/snow/.ice & air/vegetation/soil modeling: sensitivity analysis	Monique Dechambre (LATMOS)
16:40:00	17:05:00	0:25:00	A snow BRDF atlas for RTTOV: comparison with in situ measurements	Jerome Vidot (Météo-France/CMS)
17:05:00	17:30:00	0:25:00	On the benefit of using spectral albedo and light penetration depth in detailed snowpack simulations	Marie Dumont (CNRM)
20:00:00	**21:30:00**	**1:30:00**	**Group Dinner at Fantin Latour (http://www.fantin-latour.fr)**	
Total		**4:15**		

Wednesday March 16th

Session 3: Issues related to snow surfaces
Co-Chairs: Jérome Vidot, Joe Turk

Start	End	Duration	Title	Author
9:00:00	9:25:00	0:25:00	Towards the assimilation of MODIS reflectance into the detailed snowpack model SURFEX/ISBA-Crocus	Luc Charrois (CNRM)
9:25:00	9:50:00	0:25:00	Assimilation of satellite-based measurements of the hydrosphere - towards a combined meteorological-hydrological forecasting system	Tomas Landelius (SMHI)
9:50:00	10:15:00	0:25:00	Towards the use of SAR observations to study snowpack properties in Alpine regions	Gaelle Veyssière (CNRM)
10:15:00	10:40:00	0:25:00	Snow properties retrieval by full polarimetric decomposition in C-band SAR data	Jean-Pierre Dedieu (LTHE)
10:40:00	11:10:00	0:30:00	Break	
11:10:00	11:35:00	0:25:00	Penetration depth of synthetic aperture radar signals (1-100 GHz) in ice and snow: an analytical approach	Gay Michel (GipsaLab)

Open discussion: relationship of the RSMSP group to the CGMS (Coordination Group for Meteorological Satellites
Co-Chairs: Benjamin Ruston, Gianpaolo Balsamo

11:35:00	12:30:00	0:55:00	discussion regarding the relationship of the RSMSP group to the Coordination Group for Meteorological Satellites (CGMS)

Total	**3:30**