

ECMWF Conference on Low Frequency Passive Microwaves

Day 1, Monday 4.12.2007

Welcome & L-band (ECMWF & ESA)

	Speaker	Title
13:00 – 13:10	Dr. F. Rabier (ECMWF)	Welcome
13:10 – 13:20	Dr. P. de Rosnay (ECMWF) Dr. S. Mecklenburg (ESA)	Logistics and Workshop Objectives
13:20 – 14:00	Dr. Y.H. Kerr (CESBIO)	L-band radiometry from space: SMOS, SMAP, AQUARIUS

Carbon and Climate (G. Balsamo & R. Sabia)

	Speaker	Topic / Title
14:00 – 14:45	Prof. A. Watson (Exeter University)	Present and future ocean-atmosphere CO ₂ fluxes, and EO measurement needs
14:45 – 15:30	Dr. J.-N. Thepaut (ECMWF, C3S)	European Contribution to the Monitoring of Essential Climate Variables from Space
15:30 – 16:00	Coffee	
16:00 – 16:45	Dr. J. Shuttler (Exeter University)	Monitoring marine inorganic carbon from space including air-sea CO ₂ gas fluxes and ocean acidification.
16:45 – 17:30	Dr. M. Scholze (Lund University)	Using SMOS observations in a carbon cycle data assimilation system

17:30 – 19:30

Ice Breaker and Poster Session

Day 2, Tuesday 5.12.2007**Polar and Cryosphere (M. Schwank & M. Sandells)**

	Speaker	Topic
8:45 – 9:30	Dr. SA Tietsche (ECMWF)	Sea ice and polar predictions
9:30 – 10:15	Dr. L. Bertino (NERSC)	Operational ice modelling and forecasting, sea ice data assimilation, impact of satellite observations
10:15 – 10:45	Coffee	
10:45 – 11:30	Prof. L. Kaleschke (UHH)	Advantages of low frequency microwave radiometry for sea ice observation - from research to operational applications
11:30 – 12:15	Dr. Rasmus Tonboe (DMI)	Snow on sea ice retrieval using microwave radiometer data
12:15 – 13:00	Dr. J. Lemmytainen, (FMI)	Monitoring of soil freeze and thaw processes by L-band radiometry: implications for monitoring of methane stocks in Northern latitudes

13:00 – 14:00 Lunch

Terrestrial Water Cycle & Hydrology (K. Holmlund & G. de Lennoy)

	Speaker	Title
14:00 – 14:45	Dr. C. Baugh (ECMWF)	The potential use of passive microwave satellite data within the Copernicus Emergency Management Service - Floods
14:45 – 15:30	Dr. R. Reichle (NASA)	Land surface data assimilation and downscaling using SMAP, SMOS, and AMSR observations
15:30 – 16:00	Coffee	
16:00 – 16:45	Dr. N. Rodriguez (CESBIO)	Neural networks retrievals and applications: what we learnt from SMOS
16:45 – 17:30	Dr. M.-J. Escorihuela (isardSAT)	High resolution soil moisture from passive/active microwave and optical data synergy for agricultural applications
17:30 – 18:15	Dr. A. AlBitar (CESBIO)	How is L-Band remote sensing contributing to agricultural applications?

19:00 – 21:00 Hosted Dinner

Day 3, Wednesday 6.12.2007

Ocean (J. Boutin, H. Zuo)		
	Speaker	Title
8:45 – 9:30	Dr. E. Remy (Mercator Ocean)	Relevance of passive microwave data for the activities in the Copernicus Marine Environment Monitoring Service (CMEMS) and Mercator
9:30 – 10:15	Dr. N. Reul (IFREMER)	SMOS ocean observations: main results and achievements
10:15 – 10:45	Coffee	
10:45 – 11:30	Dr. A. O'Carroll (EUMETSAT)	The use and impacts of sea surface temperature from passive microwave measurements
11:30 - 12:15	Dr. T. Lee (JPL / NASA)	L-band, and its synergistic use for ocean and climate applications
12:15 – 13:00	Dr. F. Collard (ODL)	High wind speed observations over ocean

13:00 – 14:00 Lunch

14:00 – 14:30	Dr. C. Prigent (OBSPM)	Low-frequency passive microwave observations for an “all weather” and high spatial resolution characterization of the ocean surface and sea ice
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14:30 – 15:30 Splinter discussions Ocean & Polar and Land & Carbon

15:30 – 16:00 Plenary and End Of Meeting

16:00 – 17:30 Coffee