

2nd SMOS Science Conference

MONDAY			
DAY 1: 25 MAY			
11:30-14:00	Press event Conference SMOS - from science to operations and applications		
11:30-11:35	Welcome	Alvaro Giménez	ESA
11:35-11:45	Welcome & opening of the 2nd SMOS Conference	Volker Liebig	ESA
11:45-11:55	Welcome from host country, role of ESAC	Jorge Lomba	CDTI
11:55-12:00	Role of CNES in SMOS operations and support to scientific exploitation	Selma Cherchali	CNES
12:05-12:20	Value and potential of SMOS soil moisture data to improve our understanding, modeling and predicting of the Earth's carbon cycle	Jose Moreno, Science user	University of Valencia
12:20-12:35	The value and potential of SMOS ocean salinity data for operational monitoring of the oceans	Pierre Yves Le Traon, Operational user	Mercator Ocean
12:35-12:50	The value and potential of SMOS soil moisture data for operational land applications and services: Fire risk detection	Ramon Riera, Operational user	Technical Office for the Prevention of Forest Fire
12:50-13:05	The Benefit of SMOS for Numerical Weather Prediction	Peter Bauer, Operational user	ECMWF
13:05-14:00	Press Q&A and Interviews, Buffet Lunch		
DAY 1: 25 MAY			
LUNCH			
15:00-15:20	News from SMOS	Susanne Mecklenburg	ESA
15:20-15:30	Welcome address CNES	Olivier Vandermarcq	CNES
Session 1 [SMOS - What comes next? Status and outlook]		Chair Matthias Drusch	Co-Chair Roberto Sabia
Time	Name	Title of presentation	Affiliation
15:30-15:45	Yann Kerr	SMOS after five years in operations: from tentative research to operational applications	CESBIO
15:45-16:00	Nicolas Reul	An overview of new insights from 5 years of salinity data from SMOS mission	IFREMER
16:00-16:15	Lars Kaleschke	Major achievements using SMOS over Cryosphere	University of Hamburg
COFFEE			
16:45-17:05	Pierre-Yves Le Traon	Requirements from operational users over ocean	IFREMER/MyOcean
17:05-17:25	Peter Bauer	Requirements from operational NWP agencies	ECMWF
17:25-17:35	Manuel Martin-Neira	Mission concept SMOSOps	ESA
17:35-17:45	Yann Kerr	Mission concept SMOSNEXT	CESBIO
17:45-18:30	PODIUM DISCUSSION		
18:30-20:00	ICEBREAKER + POSTER SESSION		

DAY 2: 26 MAY			
Session 2 [Improvements to Level 1 and 2 retrieval algorithms - land and ocean]		Chair Roberto Sabia	Co-Chair Susanne Mecklenburg
Time	Name	Title of presentation	Affiliation
9:00-9:30	Manuel Martin-Neira	SMOS instrument performance and calibration after 5 years in orbit	ESA
9:30-10:00	Yann Kerr	The SMOS level 2 soil moisture algorithm. Principles and future trends	CESBIO
10:00-10:30	Jordi Font	The SMOS level 2 ocean salinity algorithm. Principles and future trends	CSIC
10:30-10:50	Eric Anterrieu	Geolocation of RFI sources with sub-kilometric accuracy from SMOS interferometric data	CNRS
10:50-11:10	Ali Khazaal	Comparing the Impact of Different Bias Correction Techniques on SMOS Level 1 Brightness Temperature Maps retrieval	CESBIO
COFFEE			
11:40-12:00	Joe Tenerelli	A Look at the brightness temperatures from ESA's reprocessing campaign	Ocean Data Lab

12:00-12:20	Jean-Pierre Wigneron	A review of the recent improvements in the L-MEB model (SMOS mission) - Impact on the accuracy of the soil moisture retrievals	INRA
12:20-12:40	Ali Mahmoodi	Evaluation of MODIS IGBP land cover data on the SMOS Level Soil Moisture retrievals	CESBIO
12:40-13:00	Paolo Ferrazzoli	Retrieving SMOS optical depth of forests: Interpretation of results in comparison with available data bases of height and biomass	Tor Vergata University, DICII
13:00-13:20	Simone Bircher	SMOSHiLat: Microwave L-band emissions of organic-rich soils in the northern cold climate zone in support of the SMOS mission	CESBIO
13:20-14:40	LUNCH		
14:40-15:00	Veronica González-Gambau	Nodal sampling: an advanced image reconstruction scheme to improve the quality of SMOS images	BEC-ICM/CSIC
15:00-15:20	Chris Banks	Reducing ascending/descending travel direction bias in SMOS salinity data	National Oceanography Centre
15:20-15:50	SESSION SUMMARY & DISCUSSION		
16:00-16:30	Transfer To El Escorial		
16:30-23:00	Guided Tour Palace (Monastery tour) followed by Buffet Dinner at La Cueva Restaurant El Escorial		

WEDNESDAY		DAY 3: 27 MAY	
	Session 3 [Applications addressing ocean]	Chair Jordi Font	Co-Chair Gary Lagerloef
Time	Name	Title of presentation	Affiliation
9:30-9:50	Aida Alvera-Azcarate	EOF analysis of SMOS salinity data in the North Atlantic Ocean: detection and removal of non-physical signals	University of Liege
9:50-10:10	Eleni Tzortzi	Spatial and temporal scales of SSS variability from SMOS	National Oceanography Centre
10:10-10:40	Jacqueline Boutin	Persistence of Rainfall Imprint on SMOS Sea Surface Salinity	CNRS
10:40-11:10	Sebastien Guimbard	Observational Evidences of the Large-Scale Tropical Cyclone Rainfall Impacts on the Upper Ocean Salinity	IFREMER
11:10-11:40	COFFEE		
11:40-12:00	Chris Brown	New insights of pCO ₂ variability in the tropical eastern Pacific Ocean using SMOS SSS	LOCEAN
12:00-12:20	Roberto Sabia	Estimation of surface ocean pH exploiting SMOS salinity observations	Telespazio-Vega UK Ltd for ESA
12:20-12:40	Nicolas Kolodziejczyk	A SMOS Optimal interpolation.	Université Pierre et Marie Curie
12:40-13:00	Marcos Portabella	SMOS-MODE overview	CSIC
13:00-13:30	SESSION SUMMARY & DISCUSSION		
13:30-15:00	LUNCH		
	Session 4 [Applications addressing carbon]	Chair Yann Kerr	Co-Chair Simon Yueh
15:00-15:20	Thomas Kaminski	Constraining terrestrial carbon fluxes by assimilating the SMOS soil moisture product into a model of the global terrestrial biosphere	The Inversion Lab
15:20-15:40	Diego Miralles	Assimilating SMOS observations to improve evaporation estimates over Australia	VU Amsterdam / Ghent University
15:40-16:00	Shi Jiancheng	An Approach of Monitoring Vegetation and Soil Moisture from SMOS	Institute of Remote Sensing and Digital Earth
16:00-16:20	David Chaparro	Remotely sensed soil moisture is related to forest decline occurrence	UPC/BEC
16:20-16:40	Kimmo Rautiainen	SMOS based global soil state product	Finnish Meteorological Institute

16:40-17:00	Ahmad Al Bitar	Surface water fraction over Tropical area from SMOS data	CESBIO
17:00-17:30		SESSION SUMMARY & DISCUSSION & COFFEE	
17:30-19:00	Meeting of Stratification Working Group (led by J.Boutin) + POSTER SESSION		

THURSDAY	DAY 4: 28 MAY		
	Session 5 [Applications addressing cryosphere]	Chair Lars Kaleschke	Co-Chair Giovanni Macelloni
Time	Name	Title of presentation	Affiliation
9:30-9:50	Giovanni Macelloni	On the Analysis of Low Frequency Microwave Emission of the Ice Sheets	CNR
10:00-10:20	Lars Kaleschke	SMOS sea ice product: operational application and validation	University of Hamburg
10:20-10:40	Carolina Gabarro	Investigating SMOS data for Arctic melt ponds and sea ice concentration determination	BEC-ICM/CSIC
10:40-11:00	Thierry Pellarin	Snow melting signature at L-band: ground-based measurements and SMOS estimates over North America	CNRS
11:00-11:30	COFFEE		
11:30-11:50	Juha Lemmetyinen	Combined use of multifrequency radiometry (L- to Ka-Band) for enhanced monitoring of terrestrial cryosphere processes	Finnish Meteorological Institute
11:50-12:20	SESSION SUMMARY & DISCUSSION		
	Session 6 [Applications addressing hydrosphere]	Chair Diego Miralles	Co-Chair Matthias Drusch
12:20-12:40	Nemesio Rodriguez-Fernandez	Developing new soil moisture datasets using neural networks	CESBIO
12:40-13:00	Patricia De Rosnay	Comparison between SMOS brightness temperature observations and ECMWF ERA-Interim based brightness temperature: long term monitoring and multi-year global analysis	ECMWF
13:00-13:20	Joaquin Munoz Sabater	Towards an optimised use of SMOS data in the ECMWF Land Data Assimilation System	ECMWF
13:20-13:40	Marco Carrera	Assessing the impacts of the inclusion of SMOS data into Environment Canada's Numerical Weather Prediction systems	Environment Canada
13:40-14:40	LUNCH		
14:40-15:00	Delphine Leroux	Assimilation of SMOS soil moisture products to improve streamflow simulations on the Ouémé catchment in Benin	CESBIO
15:00-15:20	Beatriz Molero	New SMOS level-4 processor for soil moisture disaggregation at 1km resolution: assessment of first maps with in situ data	CESBIO
15:20-15:40	Maria Piles	Seasonal and inter-annual variability of SMOS derived soil moisture and ocean salinity	UPC
15:40-16:00	Brian Hornbuckle	Different Soil Moisture Dynamics are Observed by SMOS and the South Fork In Situ Soil Moisture Network	Iowa State University
16:00-16:20	Arnaud Mialon	Validation of SMOS level 3 soil moisture data	CESBIO
16:20-16:40	Ahmad Al Bitar	SMOS L3 and L4 dataset for the monitoring of extreme hydrological events	CESBIO
16:40-17:00	Robin van der Schalie	Global SMOS Soil Moisture Retrievals Using The Land Parameter Retrieval Model	University of Amsterdam
17:00-17:30	SESSION SUMMARY & DISCUSSION & COFFEE		

17:30-19:00	Meeting Inter-comparison Working Group (led by D.LeVine) + POSTER SESSION		
FRIDAY	DAY 5: 29 MAY		
	Session 7 [Synergistic use of SMOS measurements with other satellite/in situ data]		
		Chair Yann Kerr	Co-Chair Susanne Mecklenburg
Time	Name	Title of presentation	Affiliation
9:30-10:00	Gary Lagerloef	Preliminary study of multi-year ocean salinity trends with merged SMOS and Aquarius data.	Earth and Space Research
10:00-10:30	Simon Yueh	Early results from NASA soil moisture active passive mission	California Institute of Technology
10:30-10:50	Benoit Tranchant	Sea surface salinity data assimilation improvement in a global ocean forecasting system at 1/4° from SMOS and Aquarius data	CLS
10:50-11:10	Ed Kim	SMOS and SMAP brightness temperature intercomparison and calibration	NASA
11:10-11:40	COFFEE		
11:40-12:00	Yan Soldo	Comparison of L-Band radio frequency interference seen by Aquarius and SMOS	NASA Goddard-GESTAR
12:00-12:20	Nicolas Reul	An overview of the SMOS+STORM Evolution project: Measuring surface Winds in Tropical and Extra-Tropical Storms with SMOS	IFREMER
12:20-12:40	Bruno Buongiorno Nardelli	A multi-dimensional covariance model to combine and interpolate sea surface salinity with sea surface temperature	CNR
12:40-13:10	SESSION SUMMARY & DISCUSSION		
13:10-13:30	FINAL DISCUSSION and END OF MEETING		
13:30-15:00	LUNCH		
	TRANSFER TO AIRPORT		