

smos & aquarius science workshop

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TIME	DAY 1: 15 APRIL	
11:00-14:00	Registration	
	Opening session & mission status	
	Chairman: Susanne Mecklenburg	
14:00-14:10	Workshop opening and objectives	Susanne Mecklenburg, ESA
14:10-14:20	Ocean Salinity Programme at NASA	Eric Lindström, NASA
14:20-14:30	Science programme at CNES	Juliette Lambin, CNES
14:30-15:00	From SMOS to Aquarius and beyond	Yann Kerr, CESBIO
15:00-15:30	Aquarius mission status	Gary Lagerloef, Earth & Space Research
15:30-16:00	SMOS mission status from the ocean's perspective	Nicolas Reul, IFREMER
16:00-16:10	Working Group Intercalibration: introduction	David Levine, NASA
16:10-16:20	Working Group Stratification: introduction	Jacqueline Boutin, LOCEAN

Session 2 Instruments' performance and inter-calibration, algorithm development			
Chairman: David Levine and Yann Kerr			
16:50 - 17:10	Martin-Neira	Manuel	SMOS Instrument Performance and Calibration After 3 Years in Orbit
17:10 - 17:30	Cabot	Francois	Intercalibration of SMOS and Aquarius over land, ice and ocean.
17:30 - 17:50	Bindlish	Rajat	Intercomparison Of Aquarius And Smos Brightness Temperature Observations
17:50 - 18:10	Macelloni/ Skou	(combined presentation)	Macelloni: L-band brightness temperature at Dome-C Antarctica: intercomparison between DOMEX-3, SMOS and Aquarius data, Skou: DOMEair Campaign in Support of SMOS Calibration
18:10 - 20:00	ICE BREAKER + POSTERS		

DAY 2: 16 APRIL			
9:00 - 9:20	Misra	Sidharth	Development Of On-Earth Brightness Temperature References At L-Band For Characterizing Long-Term Calibration Drifts
9:20 - 9:40	Banks	Chris	Investigating the Temporal Variability in Salinity from Ascending and Descending Passes in SMOS and Aquarius
9:40 - 10:00	Colliander	Andreas	Ocean Reference for SMOS Zero-Baselines Based on Aquarius Brightness Temperature Simulator
10:00 - 10:20	Kainulainen	Juha	Long and short term radiometric stability of SMOS measurements with different NIR front-end models
10:20 - 10:40	Kao	Hsun-Ying	Remove the Detectable Errors in Aquarius from Inter-Beam Comparisons
10:40 - 11:00	Turiel	Antonio	New reconstruction algorithms for the improvement of SMOS L1c images: preliminary results
11:00-11:30	<i>Coffee break</i>		
11:30 - 11:50	Tenerelli/ Gourrion	Joseph/ Jerome	Continuing Challenges in Salinity Retrieval for the SMOS Mission & Towards an improved characterization of instrumental biases and forward model errors in SMOS observations over the Ocean
11:50 - 12:10	Yueh	Simon	Aquarius! CAP Ocean Surface Salinity and Wind Products and Their Applications to Water Cycle Research
12:10 - 12:30	Dinnat	Emmanuel	Sea Water Permittivity Model and Differences in Sea Surface Salinity Retrieved from SMOS and Aquarius
12:30 - 12:50	Meissner	Thomas	Recent Developments in the Aquarius Level 2 Salinity Retrieval Algorithm
12:50 - 13:10	Spurgeon	Paul	Evolution and application of the SMOS Level 2 Ocean Salinity Ocean Target Transformation
13:10 - 14:20	<i>Lunch</i>		
SESSION 3 product validation & stratification			
Chairman: Jacqueline Boutin and Yi Chao			
14:20 - 14:40	Asher	William	The Effect of Environmental Forcing on the Stability of Near Surface Salinity Gradients in the Ocean
14:40 - 15:00	Drucker	Robert	Comparison of Aquarius sea surface salinity with Argo near-surface salinity
15:00 - 15:20	Ward	Brian	Upper Ocean Profiles of Surface Salinity from the Air-Sea Interaction Profiler

15:20 - 15:40	Reverdin	Gilles	Upper ocean stratification from drifters for SMOS/Aquarius cal-val
15:40 - 16:00	Boutin	Jacqueline	SMOS and in situ salinity: rain and near-surface vertical stratification effects
16:00 - 16:20	Chao	Yi	Upper Ocean Salinity Stratification: Challenges To Validate Satellite Remotely Sensed Sea Surface Salinity
16:20 - 16:40	<i>Coffee break</i>		
16:40-18:15	Working groups on (in parallel)		
	<i>Stratification: Chairman: G. Lagerloef, D. LeVine, Y. Kerr, J. Font and M. Portabella</i> <i>Intercalibration: Chairman: J. Boutin, Y.Chao and Chris Banks</i>		

19:00-22:30	WORKSHOP DINNER		
	DAY 3: 17 April		
9:00 - 9:20	Lagerloef	Gary	Aquarius V2.0 data accuracy assessment and residual errors
9:20 - 9:40	Abe	Hiroto	Evluation of Sea Surfase Salinity observed by Aquarius and SMOS
9:40 - 10:00	Button	Nicole	Validation of SMOS and Aquarius Salinity Data in the Agulhas Region
10:00 - 10:20	Reagan	James	Comparison analysis between NODC in situ analyzed sea surface salinity and Aquarius sea surface salinity
10:20 - 10:40	Vinogradova	Nadya	Estimates of Observational Errors Related to Small-Scale Horizontal and Vertical Variability in Salinity Fields
	Session 4 SMOS and Aquarius science application and synergies		
	Chairman: Nicolas Reul and Antonio Turiel		
10:40 - 11:00	Gordon	Arnold L.	Ocean Eddy Freshwater Flux
11:00-11:30	<i>Coffee break</i>		
11:30 - 11:50	Duran	Fabien	SMOS Reveals the Signature of Indian Ocean Dipole Events
11:50 - 12:10	Lee	Tong	Aquarius brings new understanding to tropical instability waves
	Initial Results on the Variability of Sea Surface Salinity		

12:10 - 12:30	Vazuez	Jorge	from Aquarius/SAC-D in the Gulf of Mexico
12:30 - 12:50	Sato	Olga	Salinity variability associated with changes in the hydrological cycle variables
12:50 - 14:00	Lunch		
14:00 - 14:20	Xie	Pingping	NOAA In Situ & Satellite Blended Analysis of Sea Surface Salinity: Preliminary Results for 2010 - 2012
14:20 - 14:40	Hasson	Audrey	Analyzing the Recent Signature of ENSO in the Tropical Pacific Ocean using In Situ, SMOS and Model Salinity Data
14:40 - 15:00	Liu	W. Timothy	Ocean Surface Salinity Features as Observed by SMOS and Aquarius
15:00 - 15:20	Reul	Nicolas	Eastern Pacific Fresh Pool SSS variability observed by SMOS and Aquarius sensors over the period 2010-2012
15:20-15:50	Coffee break		
15:50-16:30	Summary of Working Groups on stratification and intercalibration (20 min each)		
16:30 -18:00	Discussion/ Summary of day's sessions		
	END OF WORKSHOP		

POSTERS

Artificial Intelligence Techniques for Downscaling SMOS Soil Moisture using MODIS Land Surface Temperature

Srivastava, Prashant K.;

University of Bristol, Bristol, UNITED KINGDOM

The ESA SMOS+SOS Project: Oceanography using SMOS for Innovative Air-Sea Exchange Studies

Banks, Chris;

National Oceanography Centre, UNITED KINGDOM;

Validation of Surface Salinity Retrieved by SMOS and Aquarius Satellites in the Bay of Bengal

Akhil, V.P.;

CNES/LEGOS, Toulouse, FRANCE;

Inter-Comparison of SMOS and Aquarius Brightness Temperatures at L-Band over Selected Targets

Pablos, Miriam;

Universitat Politècnica de Catalunya, SPAIN;

Validation of Aquarius and SMOS Salinity Measurements in the Indian Ocean

Bulusu, Subrahman

UNIVERSITY OF SOUTH CAROLINA, UNITED STATES

Dependence of SMOS/MIRAS Brightness Temperatures on Wind Speed: Sea Surface Effect and latitudinal Biases

Yin, Xiaobin;

LOCEAN, FRANCE; ²ARGANS, UNITED KINGDOM

Spatial Bias on SMOS Full-Polarimetric Images over the Ocean

Wu, Lin;

Remote Sensing Laboratory, Universitat Politècnica de Catalunya, Barcelona and SMOS Barcelona Expert Centre, SPAIN;

Retrieval of Surface Roughness From Active and Passive Microwave Observations

Gao, Y.;

Department of Civil Engineering, Monash University, AUSTRALIA;

SMOS Performance in Southern Germany

Schlenz, Florian;

Ludwig-Maximilians University Munich (LMU), GERMANY

Tools, Services & Support of Aquarius/SAC-D Data Distribution through PO.DAAC

Tsontos, Vardis;

NASA/JPL, UNITED STATES

Current ESA Validation Campaigns in Support of SMOS

Casal, Tânia;

ESA/ESTEC, NETHERLANDS; ²ESA/ESRIN, ITALY

Microwave Remote Sensing Sensors On-Board Satellites Tracks Cyclone Thane: SMOS and OCEANSAT-II

Calla, Opn;

International Center for Radio Science, INDIA

The Tropical Atlantic North Equatorial CounterCurrent Dynamics from SMOS and Altimetry

Arnault, Sabine;

IRD, FRANCE;

Reconstruction of Decadal Time Series of Sea Surface Salinity in the Amazon River Plume using SMOS and MODIS/Aqua Data

Korosov, Anton;

Nansen Environmental and Remote Sensing Center, NORWAY;

Assessment of SMOS and AQUARIUS Performance in the Arctic

Korosov, Anton;

Nansen Environmental and Remote Sensing Center, NORWAY

Preliminary Results from Assimilating SMOS Sea-Surface Salinity Fields in an NCEP Operational Ocean Forecast System

Bayler, Eric;

NOAA/NESDIS, UNITED STATES;

Towards an Optimal SMOS Bayesian-Based Inversion Scheme for Salinity and Wind Speed Retrieval Purposes

Montuori, Antonio;

Università degli Studi di Napoli Parthenope, ITALY;

SMOS and AQUARIUS SSS in and around the SPURS/STRASSE Experiment

Hernandez, Olga;

LOCEAN, FRANCE;

SMOS Level 3 and Level 4 Research Products Provided by the Barcelona Expert Center

Font, Jordi;

ICM-CSIC & SMOS/BEC, SPAIN;

First Results of Aquarius SSS Data Assimilation in the Mercator Ocean System.

Tranchant, Benoît;

CLS/Mercator Océan, FRANCE;

Generating SMOS Sea Surface Salinity Maps with the Help of Data Assimilation

Ballabrera, Joaquim;

Institut de Ciències del Mar, CSIC, SPAIN

Spatio-Temporal Coherence between Spaceborne Measurements of Salinity and Light Absorption in the Amazon Plume Region

Fournier, Severine;

IFREMER, FRANCE

Using Current and Future L-Band (1.4GHz) Missions for Sea Ice Thickness Retrieval.

Miernecki, Maciej

INRA, FRANCE

Preliminary Analysis of Aquarius Data for Cryospheric Applications

de Matthaeis, P;

NASA Goddard Space Flight Center, UNITED STATES

Freeze/Thaw Detection Using Aquarius' L-band Passive/Active Data

Xu, Xiaolan;

Jet Propulsion Laboratory, UNITED STATES

Quality Control of remotely sensed Sea Surface Salinity in The Yellow Sea
Kil, Bumjun;
Department of Marine Science in University of Southern Mississippi, Stennis Space Center, UNITED STATES;

Impact of Icebergs Size on SMOS Brightness Temperature Measurements
Slominska, Ewa;
Space Research Centre PAS, POLAND

Sharing the Importance of Ocean Salinity Beyond the Scientific Community
deCharon, Annette
University of Maine, UNITED STATES

Inter-satellite Radiometric Calibration of Ocean Brightness Temperature between SMOS and Aquarius
Jones, W Linwood;
University of Central Florida, UNITED STATES

Coastal Salinity Variability over the East China Sea Monitored by the Aquarius/SAC-D Satellite
Kim, Seung-bum;
JPL, UNITED STATES;

Towards an Optimal Quality Control of L2 SMOS Data
Martinez, Justino;
ICM-CSIC & SMOS-BEC, SPAIN

Application of SMOS Ocean Salinity Data
Davaasuren, Narangerel;
IMARES, WUR, NETHERLANDS

Tropical Storm Monitoring with SMOS Sensor: An Overview of the SMOS+STORM Project
Reul, Nicolas;
IFREMER, FRANCE;

Examination and Comparison of SMOS and MyOcean Global Salinity Data
Samuel-Rhoads, Yianna;
Oceanography Centre, University of Cyprus, CYPRUS

Retrieval of Snow Thickness over Thick Multi-Year Sea Ice using SMOS Data
Maaß, Nina;
Institute of Oceanography, GERMANY

Satellite-based T/S Diagrams and Surface Ocean Water Masses
Sabia, R;
ESA, ITALY;

SMOS Derived Sea Ice Thickness in the Polar Regions
Tian-Kunze, Xiangshan;
University of Hamburg, Germany, GERMANY

Using SMOS Data to Evaluate AMSRE and WINDSAT C-Band Radiometer Salinity Inversion in River-Influenced Basins
Vandemark, Douglas;
Univ. of New Hampshire, UNITED STATES;

Scales of Sea Surface Salinity Variability from In Situ Observations and Numerical Model Results
Sena Martins, Meike;
Institute of oceanography, GERMANY;

Comparative Study of Sea Surface Salinity obtain from AquariusSAC-D Mission and Argo Floats over Indian Ocean
Calla, OPN;
International Center for Radio Science, INDIA

Retrieval and Validation of Sea Ice Thickness from SMOS-Data using Polarisation Information
Huntemann, Marcus;
University of Bremen, GERMANY

Ocean Roughness Correction for Aquarius Sea Surface Salinity Measurements
Hejazin, Yazan;
University of Central Florida- Remote Sensing Lab, UNITED STATES;

SMOS Brightness Temperature Enhancement in Coastal Areas
Gonzalez, Veronica;
CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, SPAIN;

SMOS RFI Status Worldwide

Oliva Balaque, Roger;
ESAC, SPAIN;

A Comparative Study of Third Stokes Parameter from SMOS and Aquarius Measurements
Chae, Chun-Sik;
Jet Propulsion Laboratory, UNITED STATES;

Comparison of SMOS and SMAP Retrieval Algorithms Based on In Situ L-Band Observations at the VAS Site.
Miernecki, Maciej;
INRA, FRANCE;

Fusion of SMOS and Aquarius Level 3 SSS Maps by Spatial Optimization of the Error Matrix
Guimbar, S.;
Institut de Ciències del Mar - CSIC, SPAIN;

Improved GW Model Function Based on Additional Seawater Measurements
Lang, R.;
The George Washington University, UNITED STATES;

Seasonal Variability of Sea Surface Salinity on a Global Scale
Bingham, Frederick;
University of North Carolina Wilmington, UNITED STATES;

Quantile Regression Methods Applied to Aquarius Data in the Eastern Tropical Pacific
Bingham, Frederick;
University of North Carolina Wilmington, UNITED STATES;

Tropical Atlantic salinity variability: new insights from SMOS
Tzortzi, Eleni;
National Oceanography Centre Southampton- University of Southampton, UNITED KINGDOM;

South Atlantic Circulation and Salinity
Matano, Ricardo
Oregon State University, UNITED STATES

Cross-Frontal Exchanges of Salt in the Gulf Stream Monitored with SMOS Satellite
Reul, Nicolas;
IFREMER, FRANCE;