

| Day 1: Wednesday 26th November | | |
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| 08.30-09.00 | Registration | |
| 09.00-09.05 | Welcome and logistics | Met Office |
| 09.05-09.10 | SMOS-MODE COST Action | A. Turiel |
| | Session 1: Sea surface salinity monitoring: past, present and future Chairs: TBD | |
| 09.10-09.40 | Ocean Salinity overall context: the in-situ perspective | Invited speaker: G. Reverdin |
| 09.40-10.20 | Ocean Salinity overall context: the satellite perspective (SMOS and Aquarius) | Invited speakers: N. Reul and T. Lee |
| 10.20-10.40 | Overall purpose of the SMOS+ SOS final workshop | E. Ash |
| 10.40-11.10 | <i>Coffee break</i> | |
| | Session 2: Complementarities between in situ and satellite SSS observing systems Chairs: TBD | |
| 11.10-11.40 | SMOS provides SSS measurements complimentary to in situ network | Invited speaker: J. Boutin |
| 11.40-12.00 | In-situ Observations of Surface Salinity (SSS): Reference Datasets, Cross Validation and Complementarity with Satellite Measurements | F. Gaillard |
| 12.00-12.20 | Changes in the Seasonal Cycle of Sea Surface Salinity During the Argo-era (2004-2013) | J. Reagan |
| 12.20-12.40 | Meridional variability of SSS in the North Atlantic Ocean From Satellite and In-Situ Data | J. Ballabrera |
| 12:40-13.50 | <i>Lunch break</i> | |

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| | Session 3: Satellite salinity observing systems: current performances and issues (L2-L4) Chairs: TBD | |
| 13:50-14:10 | ESA's Soil Moisture and Ocean Salinity Mission - Mission Status and Performance | S. Mecklenburg |
| 14.10-14.30 | Status of Aquarius Salinity Retrievals and Applications | D. Le Vine |
| 14.30-14.50 | Satellite Sea-Surface Salinity Data and Product Biases and Differences | E. Bayler |
| 14.40-15.10 | Assessment of Rain Freshening Effects and Salinity Stratification in the Tropics Based on the Aquarius Version 3 Salinity Product | T. Meissner |
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| 15.10-15.40 | <i>Coffee break</i> | |
| 15.40-16.00 | Synergy Between Remote Sensing Variables: Level 4 Research Products of Sea Surface Salinity | M. Umbert |
| 16.00-16.20 | Revealing Geophysically-Consistent Spatial Structures in SMOS Surface Salinity Derived Maps | M. Portabella |
| 16.20-16.40 | A Multi-Dimensional Covariance Model to Combine and Interpolate Sea Surface Salinity with Sea Surface Temperature | B. Buongiorno Nardelli |
| 16.40-17.40 | Discussion/Summary of day's sessions including SMOS-MODE "WG1: Satellite Salinity Retrieval" | |
| 17.40-18.40 | Poster session | |
| 18.40-20.00 | Welcome reception | |

| Day 2: Thursday 27th November | | |
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| | Session 4: Salinity and ocean circulation, including modelling, data assimilation, transports, upper ocean processes Chairs: TBD | |
| 09.00-09.30 | Salinity initialisation and seasonal prediction | Invited speaker: O. Alves |
| 09.30-09.50 | A Modeling Study of the Processes of Surface Salinity Seasonal Cycle in the Bay of Bengal | F. Durand |
| 09.50-10.10 | Data Assimilative Simulation of Multi-Scale Upper Ocean Salinity Processes | Z. Li |
| 10.10-10.30 | Upper Ocean Salinity Stratification in the Tropics as Derived from N2 (the Buoyancy Frequency) | C. Maes |
| 10.30-10.50 | Differences Between the Subtropical Surface Salinity Patterns | J. Busecke |
| 10.50-11.20 | <i>Coffee break</i> | |
| 11.20-11.40 | Continuous Estimate of Atlantic Oceanic Freshwater Flux at 26°N | E. McDonagh |
| 11.40-12.00 | Linking satellite SSS and SST to water mass formation | M. Klockmann |
| 12.00-12.20 | SMOS Salinity in the Subtropical North Atlantic Salinity Maximum: Horizontal Thermohaline Variability | N. Kolodziejczyk |
| 12.20-12.40 | The Relative Influence of Surface Sea Salinity and Temperature on Surface Density Gradient in the Tropical Pacific Ocean | A. Hasson |
| 12.40-14.00 | <i>Lunch break</i> | |

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| | Session 5: Salinity and ocean biology, biogeochemistry and bio-optics Chairs: TBD | |
| 14.00-14.30 | The Influence of Land – ocean exchange and net biological production on calcite mineral saturation state over the continental shelves: the role of satellite data | Invited speaker: J. Salisbury |
| 14.30-14.50 | Studying Dilution Processes in the Amazon Plume Using SMOS and MODIS Data | A. Korosov |
| 14.50-15.10 | The Application of SMOS Salinity and SST to Quantify Carbon Fluxes from the Eastern Tropical Pacific | C. Brown |
| 15.10-15.30 | Preparatory Activities to Estimate Surface Ocean pH Exploiting Sea Surface Salinity Satellite Observations | R. Sabia |
| 15.30-16.10 | <i>Coffee break and Poster session</i> | |
| | Session 6: Salinity and ocean/climate forecasting Chairs: TBD | |
| 16.10-16.40 | Salinity: the accelerator, brake and warning lights of climate change? | Invited speaker: R. Wood |
| 16.40-17.00 | Suitability of Satellite Sea Surface Salinity Data for Use in Assessing and Correcting Ocean Forecasts | M. Martin |
| 17.00-17.20 | Sea Surface Salinity Variability and ENSO | T. Qu |
| 17.20-17.40 | Investigating the Potential of Satellite Based Measurements of Salinity in Forecasting Tropical Cyclones | R. Catany |
| 17.40-18.00 | Sea Surface Salinity from Space: a Future for Operational Oceanography? | B. Tranchant |
| 18.00-19.00 | Discussion/Summary of day's sessions including SMOS-MODE "WG2: Oceanographic exploitation" | |
| 20.00-23.00 | Conference dinner | |

| Day 3: Friday 28th November | | |
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| | Session 7: Salinity and the water cycle, including atmosphere/ocean/land/ice interactions and fluxes Chairs: TBD | |
| 09.00-09.30 | Where can ocean salinity be used as a rain gauge? | Invited speaker: L. Yu |
| 09.30-09.50 | Correlative Analysis of Aquarius, Grace and River Discharge Data Indicating the Change of Water Cycle In the India Subcontinent | S. Yueh |
| 09.50-10.10 | Changes in the Global Water Cycle Inferred Using the Water Mass Transformation Framework | N. Skliris |
| 10.10-10.30 | Ocean Salinity and Freshwater Budgets from the Ocean ReAnalysis Intercomparison Project (ORA-IP) | K. Haines |
| 10.30-10.50 | Patterns and Changes in Iceberg Melting and Surface Salinity at Southern High Latitudes | R. Marsh |
| 10.50-11.20 | <i>Coffee break</i> | |
| 11.20-11.40 | Towards a Better Description of the Atlantic SSS Variability from SMOS and the Role of Freshwater Fluxes | E. Tzortzi |
| 11.40-12.00 | Surface Freshwater Plumes Contributing to the Formation of the Barrier Layer and Salinity Fronts | A. Soloviev |
| 12.00-12.20 | Observations of a Rainfall Event with an Upwardly-Rising Microstructure Profiler | B. Ward |
| 12.20-12.40 | Observations and Modeling of Rain-Induced Near Surface Salinity Anomalies | W. Asher |
| 12.40-13.30 | Panel discussion - Summary of workshop: Scientific challenges and priorities for salinity science Moderators: TBD | |

Posters

| Name | Title |
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| A. Alvera-Azcarate | Reconstruction of SMOS Data Over the North Atlantic Ocean Using DINEOF |
| S. Arnault | Reconstruction of Sea Salinity Profiles from Surface Parameters in the Tropical Atlantic Using Neural Networks. |
| C. Atkinson | HadIOD: an integrated database of ocean temperature and salinity observations |
| C. Banks | Building Climatological Sea Surface Salinity Products from SMOS |
| I. Camara | Seasonal Mixed-layer Salinity Balance in the Tropical Atlantic Ocean: Focus in the Equatorial Region and the Northern Salinity Maximum Region |
| A. Chaitanya | Observed Year-to-Year Sea Surface Salinity Variability in the Bay of Bengal During the period 2009 – 2014 |
| F. Durand | Validation of SMOS and Aquarius Remotely-Sensed Surface Salinity in the Bay of Bengal |
| F. Durand | Fishermen-collected Salinity Measurements Reveal a “River in the Sea” Flowing along the East Coast of India |
| F. Durand | Observed Year-to-Year Sea Surface Salinity Variability in the Bay of Bengal during the Period 2009 – 2014 |
| F. Durand | Role of Fronts in the Formation of Arabian Sea Barrier Layers During Summer Monsoon |
| L. Escudero | Influence of Salinity on the Anchovy Distribution Front Peruvian Coast |
| T. Farrar | Upper-Ocean Heat and Salt Budgets during the SPURS Field Campaign |
| S. Good | IQuOD (International Quality Controlled Ocean Database) - an International Initiative to Design, Deliver and Maintain a Climate Standard Subsurface Global Ocean Dataset |
| S. Good | EN4 - Quality Controlled Temperature and Salinity Profiles and Monthly Objective Analyses with Uncertainty Estimates |
| S. Hosoda | Interannual-to-Decadal Salinity Variations in the North Pacific Related to Changes of Precipitation and Subtropical Gyre |
| L. Jackson | The Influence of Salinity and Freshwater Fluxes on the Stability of the AMOC |
| P. Land | CO ₂ Fluxes and Ocean Acidification Using SMOS |
| T. Lee | Aquarius Surface Salinity and the Madden-Julian Oscillation |
| C. Maes | SSS Variability in the Coral Sea, Southwest Pacific Ocean. |
| M. Migliaccio | On the Retrieval of SSS in Coastal Areas |
| D. Palantza | Multi-temporal Monitoring of Salinity in Eastern Mediterranean Region Using SMOS L2 OS Satellite Data and in Situ Measurements. |
| Drew Peterson | Salinity in the GloSea5 Ocean and Sea Ice Analysis |

Posters

| Name | Title |
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| O. Sato | Sea Surface Salinity fronts Variability in the South Atlantic |
| F. Shahul Hameed | Inter-annual Upper Ocean Stratification in Bay of Bengal: Observational and Modeling Aspects |
| L. Shi | An Assessment of Upper Ocean Salinity Content from the Ocean Reanalyses Inter-comparison Project (ORA-IP) |
| E. Slominska | SMOS Salinity Retrievals Along Trajectories of Massive Icebergs |
| A. ten Doeschate | Salinity Measurements in the Marginal Ice Zone with an Autonomous Upwardly-Rising Microstructure Profiler |
| H. Tomita | Ocean Salinity Effects on Surface Wind |
| T. Toyoda | Improvements to a Global Ocean Data Assimilation System Through the Incorporation of Aquarius Surface Salinity Data |
| V. Tsontos | Tools, Services and Support of Aquarius/SAC-D and SPURS Data Archival and Distribution Through PO.DAAC |
| X. Yin | Sea Surface Salinity Signatures of Tropical Instability Waves: New Evidences from SMOS |
| X. Yuan | The Role of Sea Surface Salinity in Indian Ocean Warm Pool |
| J. D. Zika | Maintenance and Distortion of the Ocean's Salinity Distribution by the Water Cycle |