Agenda for NASA Ocean Salinity Science Team (OSST) and Salinity Continuity Processing (SCP) Meeting

August 27-29, 2018, Santa Rosa, California, USA
Meeting location: Remote Sensing Systems, 444 10th St #200, Santa Rosa, CA 95401

Guideline for oral presentations:
15-minute presentation + 5-minute Q&A and transition

Presenter(s) are listed in red text.

Monday August 27
(Calibration/validation, retrieval algorithm, SSS product assessment, SCP plan)

8:30-8:50   **Briefing for NASA OSST and SCP**
Eric Lindstrom (NASA HQ)

8:50-9:10   **The RSS/NASA SMAP Salinity Version 3 Release: Algorithm and Geophysical Model Function**
Thomas Meissner (Remote Sensing Systems), Frank Wentz and Andrew Manaster

9:10-9:30   **Improved Bias Mitigation and Rain Effect Estimate in SMOS SSS CATDS 2018 Processing**
Jacqueline Boutin (Sorbonne University), J.L. Vergely, A. Supply, D. Khvorostyanov, S. Tarot

9:30-9:50   **The RSS/NASA SMAP Salinity Version 3 Release: Resampling and Correction for Land Contamination**
Frank Wentz (Remote Sensing Systems), Thomas Meissner and Andrew Manaster

9:50-10:10   **Next Generation Salinity Measurement: Part 1: Deployment of a P/L band Spectrometer Instrument**
Sid Misra and Shannon Brown (JPL)

Break and Poster Session

10:40-11:00   **The JPL SMAP Sea Surface Salinity Retrieval Algorithm**
Alex Fore (JPL), Simon Yueh, Wenqing Tang, and Akiko Hayashi

11:00-11:20   **Salinity Retrieval and Radio Frequency Interference (RFI)**
Yan Soldo (NASA GSFC), P. de Matthaeis, and David M. Le Vine

11:20-11:40   **Latest L-band Seawater Dielectric Measurements**
Yiwen Zhou (NASA GSFC), Roger Lang, E. Dinnat, and D. Le Vine

11:40-12:00   **Transition from Aquarius Validation Data System (AVDS) to Salinity Validation Data System (SVDS)**
Hsun-Ying Kao, Julian Schanze (Earth and Space Research)

Lunch Break

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13:50-14:10 **Space-Time Analysis of Systematic Errors and Biases in SMAP SSS**
Oleg Melnichenko (University of Hawaii), Peter Hacker, and Thomas Meissner

14:10-14:30 **Inter-Comparisons of Sea Surface Salinity Products from SMOS, Aquarius and SMAP Satellites and Validation with In Situ Observations**
Emmanuel Dinnat (NASA GSFC), David M. Le Vine, Jacqueline Boutin, and Thomas Meissner

14:30-14:50 **Inter-Comparison of SMAP and Aquarius Systematic Biases**
Shannon Brown (JPL), Sid Misra

14:50-15:10 **A Comparison of the Latest Versions of SMAP Salinity Products**
Andrew Manaster (Remote Sensing Systems), Thomas Meissner, and FrankWentz

15:10-15:30 **The Potential and Challenges of Using SMAP SSS to Monitor Arctic Ocean Freshwater Changes**
Weiqing Tang (JPL), Simon Yueh, Daqing Yang, Alexander Fore and Akiko Hayashi

Break and Poster Session

15:50-16:10 **Intercomparison of Satellite Sea Surface Salinity Observations in the Arctic Ocean**
Séverine *Fournier (JPL), Tong Lee, and Mike Steele*

16:10-16:30 **Intercomparison of Error Characteristics Across Remote Sensing Salinity Products in the Gulf of Mexico, a River-Influenced System**
Jorge Vazquez-Cuervo (JPL), S. Fournier, Brian Dzwonkowski, and J.T. Reager

16:30-17:30 **Salinity Snake and Surface Freshening in the Intertropical Convergence Zone**
Julian Schanze (Earth and Space Research)

Discussion: cal/val, algorithms, and product assessment; priorities of algorithm and product development for the coming year

Poster:
Investigating Unusual Slope Water Transport into the Coastal Gulf of Maine Using SMAP SSS Anomaly Data
Senya Grodsky (University of Maryland), D. Vandemark, H. Feng, J. Levin, J. Wilkin.

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Tuesday August 28
(Science applications, feedback to product developers)

8:30-8:50   **Variability of Satellite Sea Surface Salinity Under Rainfall**
Alexandre Supply (Sorbonne University), Jacqueline Boutin and Gilles Reverdin

8:50-9:10   **On the Rapid Ocean Response to High-Frequency Intense Rainfall**
Allan Clarke (Florida State University) and Xiaolin Zhang

9:10-9:30   **An Empirical Parameterization of Vertical Mixing in Rain-Generated Fresh Lenses for Use in the Rain Impact Model**
William Asher (University of Washington), Kyla Drushka, Maria Marta Jacobs, and W. Linwood Jones

9:30-9:50   **A Study of the Interaction Between Salinity, Rain and Wind**
Maria Jacob (Universidad Nacional de Cordoba), Linwood Jones, Kyla Drushka, William Asher, and Marcelo Scavuzzo

9:50-10:10   **Water Impact on Ocean Carbon Balance**
Tim Liu (JPL) and Xiaosu Xie

               Break and Poster Session

11:00-11:20   **Building a Consistent Multi-Satellite SSS Data Record: A Case Study in the Eastern Tropical Pacific (SPURS-2)**
Oleg Melnichenko (University of Hawaii), Peter Hacker, Thomas Meissner, Frank Wentz, and James Potemra

11:20-11:40   **Role of SSS in MJO Predictability and Development of Sub-monthly SSS Products**
Jieshun Zhu (University of Maryland), Li Ren, Arun Kumar, Raghu Murtugudde and Pingping Xie

11:40-12:00   **SSS Subfootprint Variability in the SPURS-1 and SPURS-2 Regions**
Fred Bingham (University of North Carolina)

12:00-12:20   **Model Derived Sea Surface Salinity Subfootprint Variability in the North Arabian Sea and Western Pacific**
Joseph D'Addezio (University of North Carolina) and Fred Bingham

               Lunch Break

13:50-14:10   **NOAA Operational Satellite Sea-surface Salinity (SSS) Data Assimilation Update**
Eric Bayler (NOAA)

14:10-14:30   **Subtropical Surface Salinity Maximum Inferred from Aquarius, SMAP, and SMOS**
Lisan Yu (WHOI)

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14:30-14:50 **The Salinity and Temperature Fronts in the Equatorial Atlantic Ocean**
Laura Ruiz-Etcheverry (University of Hawaii), Nikolai Maximenko, and Oleg Melnichenko

14:50-15:10 **Amazon River Discharge and Its Relationship with the Precipitation**
Yibo Jiang (JPL)

Break and Poster Session

15:40-16:00 **Semi-annual Salinity Propagation in the Arabian Sea**
Viviane Menezes (WHOI)

16:00-16:20 **Sea Surface Salinity Variations in the Southeast Asian Seas and the Relationships with Climate Variability and Ocean Currents**
Tong Lee (JPL), Severine Fournier, Arnold Gordon, and Janet Sprintall

Discussion: science applications, synergy and opportunities for collaboration, requirements for SSS products

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Wednesday August 29
(Mission concepts, validation platform, community engagement, user support)

8:30-8:50	**A New Low Frequency Microwave Radiometer for an All-weather, High Spatial Resolution, and Accurate Estimation of Ocean and Sea Ice Parameters** *Lise Klilic (Paris Observatory), Catherine Prigent, Filipe Aires, Jacqueline Boutin, Georg Heygster, and Thomas Meissner*
8:50-9:10	**Next Generation Spaceborne Instrument for Monitoring Ocean Salinity with Application to the Coastal Zone and Cryosphere** *Emmanuel Dinnat (NASA GSFC), David Le Vine, Giovanni De Amici, and Jeffrey Piepmeier*
9:10-9:30	**SMOS Pi-MEP: A Collaborative Platform for Validation and Exploitation of ESA SMOS Sea Surface Salinity data** *Roberto Sabia (ESA), N. Reul, S. Guimbard, S. Mecklenburg, and H. Laur*
9:30-9:50	**NASA Salinity Communication and Public Engagement** *Annette deCharon (ODYSEA LLC) and Jorge Vazquez-Cuervo*
9:50-10:10	**Supporting the Distribution and Archival of Salinity Products at the PO.DAAC: A Status Update** *Jorge Vazquez-Cuervo and Vardis Tsontos (JPL)*
10:10-10:20	**Summary of Ongoing Community White Papers Advocating for the Continuity and Enhancement of Satellite SSS** *Tong Lee (JPL)*

Discussion: The way forward; mission concepts; validation platform; community engagement, coordination, and interaction (across agencies, between product developers and users)

HQ feedback: 2019 OSST/SCP meeting