Agenda for NASA Salinity Continuity Processing (SCP) Workshop

April 29-30, 2019, Santa Rosa, California, USA

Meeting location: Remote Sensing Systems, 444 10th St #200, Santa Rosa, CA 95401

Guideline for oral presentations:

Presentation ~12 minutes. Leave ~8 minutes for Q&A/discussion & transition

(Presenters' names are in italic)

Monday April 29

HQ briefing, public engagement, product distribution

8:30-8:50	Eric Lindstrom & Nadya Vinogradova (NASA HQ) Briefing of NASA PO and OSST
8:50-9:10	Annette deCharon (ODYSEA LLC) Societal Relevance of NASA Salinity
9:10-9:30	Vardis Tsontos (JPL), Yibo Jiang, and Jorge Vazque Status of Salinity Data Archival/Distribution at the PO.DAAC

Algorithms

Algorithms Overview:

9:30-9:50	Thomas Meissner (RSS), Frank Wentz, and Andrew Manaster Status of the RSS Salinity Algorithm (including analysis and comparison of the residual biases in SMAP and Aquarius)
9:50-10:10	Alexander Fore (JPL), Wenqing Tang, Simon Yueh, and Akiko Hayashi JPL SMAP Sea Surface Salinity Algorithm

10:10-10:40 Coffee/tea break

Algorithm Enhancements:

10:40-11:00	Frank Wentz (RSS), Thomas Meissner, and Andrew Manaster
	Correction of Land Contamination in the RSS Algorithm (including a brief
	comparison between the JPL and the RSS algorithms)

11:00-11:20 Alexander Fore (JPL), Wenqing Tang, Simon Yueh, and Akiko Hayashi Land and Sea Ice Correction for the JPL SMAP Salinity Data Product

11:20-11:40	Yan Soldo (NAS/GSFC & USRA), Emmanuel Dinnat, David Le Vine (Remote presentation) A method for land correction based on SMAP TB measurements
11:40-12:00	Wendy Tang (JPL), Simon Yueh, and Alex Fore Preliminary results on L-band sea ice correction for SSS retrieval
12:00-12:30	Discussion (esp. for land & ice correction algorithms)
12:30-14:00	Lunch break
14:00-14:20	Yiwen Zhou, Roger Lang (George Washington Univ.), Emmanuel Dinnat and David Le Vine (Remote presentation) Salinity Variation in Seawater Dielectric Model Function
14:20-14:40	Richard Lindsley, <i>Andrew Manaster (RSS)</i> , Thomas Meissner, Frank Wentz Revised SMAP Solar Contamination Flagging
Instrument o	<u>valibration</u>
14:40-15:00	Thomas Meissner (RSS) SMAP reflector emissivity correction
Assessments	& applications
Salinity Valid	lation:
15:00-15:20	Shannon Brown (JPL) and Sidharth Misra Understanding Systematic Biases Associated with Observation Geometry
15:20-15:40	Coffee/tea break
15:40-16:00	Séverine Fournier (JPL), Tong Lee, Wenqing Tang, Michael Steele, Simon Yueh, Estrella Olmedo, and Anastasia Tarasenko Intercomparison of SMOS, Aquarius and SMAP Sea Surface Salinity Products in the Arctic Ocean
16:00-16:20	Doug Vandemark (Univ. New Hampshire), Senya Grodsky, H. Feng, J. Levin, and J. Wilkin Ongoing evaluation of SMAP salinity datasets for coastal and shelf-sea applications
16:20-16:40	Gary Lagerloef (ESR)

(Remote presentation)

Re-evaluation of the Triple-Colocation analysis for Estimating Aquarius Satellite Salinity Measurement Errors

16:40-17:00 Viviane Menezes (WHOI)

Evaluation of SMAP salinity products in the Indian Ocean

17:00-17:20 *Tong Lee* (JPL)

Evaluation of SMAP SSS using Argo data on various spatial scales

Tuesday April 30

8:30-8:50 Emmanuel Dinnat (Chapman Univ & NASA/GSFC) and David Le Vine (Remote presentation)

Evaluation of SMAP SSS product: comparisons with other satellite products and in situ observations by the Argo network

Salinity Scientific Analysis:

8:50-9:10	Oleg Melnichenko (IPRC/University of Hawaii) and Peter Hacker Improved spatial resolution in SMAP data versus signal-to-noise ratio: Preliminary results from analysis of existing products and non-resampled L2 SSS data
9:10-9:30	Jingru Sun (Princeton Univ.), Gabriel Vecchi, Enhui Liao, Laure Resplandy, Brian Soden Impact of Sea surface salinity on tropical cyclone intensification in the Bay of Bengal: preliminary satellite observations and ocean modeling results
9:30-9:50	Frederick Bingham (UNCW), Matt Chmelewski, Joseph Brown and Oksana Chkrebtii The relationship between rainfall and sea surface salinity from buoy data
9:50-10:10	Frederick Bingham (UNCW), Joseph D'Addezio, and Karly Ulfsax SSS sub-footprint variability from the ECCO 1/48deg global simulation
10:10-10:30	Senya Grodsky (Univ Maryland) Intramonth oscillations of Atlantic ITCZ in SMAP satellite salinity
10:30-11:00	Coffee/tea break
11:00-11:20	Yibo Jiang (JPL), Jorge Vazquez, and Varids Tsontos

SSS study in the Arctic region

In-situ and field campaign

11:20-11:30	Sidharth Misra (JPL), Javier Bosch-Lluis, Carl Felten, Mehmet Ogut, Tong Lee, Shannon Brown, and Simon Yueh Cold-water salinity experiment over the Artic Sea – Results and Observations
11:30-11:50	Julian J Schanze (ESR), Hsun-Ying Kao, Gary S E Lagerloef, and David Carey Salinity Gradients and Sub-Footprint Variability from SPURS-2 and SMAP
11:50-12:10	Jorge Vazquez (JPL), Jose Gomez-Valdes ² , Marouan Boualin, Chelle Gentemann, Wenqing Tang
	Using the Saildrone Unmanned Surface Vehicle for Validation of Satellite Derived Sea Surface Salinity from SMAP: The California/Baja Coast Deployment
12:10-12:30	Verena Hormann (SIO/UCSD), Luca Centurioni, Nikolai Maximenko, and Yi Chao Studies of near-surface salinity with surface Lagrangian drifters in support of SPURS-2
12:30-14:00	Lunch break
Validation pl	atform and Pi-MEP collaboration
14:00-14:20	Hsun-Ying Kao, Julian Schanze and David Carey (ESR) Overview of the Salinity Validation Data System (SVDS)
14:20-14:40	David Levine (NASA/GCFS) SCP participation in Pi-MEP and definition of Aquarius/SMAP "matchup"
14:40-15:10	Discussion (NASA collaboration with Pi-MEP) What do we provide/What do we get in return? Aquarius/SMAP matchup data base: can we reach a consensus on definition of "matchup"? Discuss delivery of the matchup data base to Pi-MEP.
15:10-15:30	Coffee/tea break
15:30-16:00	Continuity and future missions (Shannon and David lead discussion)
16:00-17:00	Discussion (other topics) Product spatial resolution, resampling and spatially correlated errors. Flagging Approach: Sun-glint, sea ice, land, RFI. Roughness correction. SMAP/Aquarius consistency. Future field programs. Radiometer long-term drift correction. Land/ice correction (if need additional discussion beyond Monday's discussion