

Global Ocean Salinity and the Water Cycle Workshop

Agenda

Clark 507, WHOI Quissett Campus

Monday May 22, 2017

Time	Presenter	Title
9:00	Abbot, Mark	Welcome to WHOI
9:10	Schmitt, Ray	Introduction: Workshop Goals
9:30	Durack, Paul	Recent Progress in Understanding the Global Water Cycle
10:00	Riser, Stephen	Making Useful Salinity Measurements from Profiling Floats: Past, Present and Future
10:30	Break	
11:00	Lagerloef, Gary	Aquarius Mission Summary and Overview
11:30	Reul, Nicolas	Seven years of ocean observations from SMOS: an overview
12:00	Lunch	
13:00	Bulusu, Subrahmanyam	Investigating Interannual and Decadal Changes in Sea Surface Salinity in the Oceanic Subtropical Gyres and their Connection to the Global Water Cycle
13:30	Vinogradova, Nadya	Surface Freshening and Salinification – Decadal Fluctuations Versus Secular Trends
14:00	Ruiz - Etcheverry, Laura	Climatology of Salinity Fronts in the Tropical Atlantic Ocean
14:20	Clarke, Allan	El Nino Low Salinity Equatorial Jets
14:40	Ferster, Brady	Estimation of Salt Fluxes and Transports in the Southern Ocean
15:00	Break	
15:30	Gordon, Arnold L.	The Southern Hemisphere Subtropical SSS-max Regimes
16:00	Johnson, Benjamin	Accounting for Autocorrelation in Estimates of Salinity Sample Variances and Trends
16:20	Drushka, Kyla	Rain-driven Turbulence in the Upper Meter of the Ocean
16:40	Wurl, Oliver	Skin Surface Salinity: First In Situ Measurements in the Tropical Ocean
17:00	Reception	

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Time	Presenter	Title
8:30	Schanze, Julian	Sources and Sinks of the Global Water Cycle
9:00	Li, Laifang	Ocean Salinity as a Predictor of Terrestrial Precipitation
10:00	Break	
10:20	Schmitt, Ray	Remote Salinity Predictors of Terrestrial Rainfall
11:00	Levang, Sam	Improving the Ocean Rain Gauge: a Quantification of Global Mixed-layer Salt Transports
11:20	Stammer, Detlef	Dynamical Ocean Response to Projected Changes of the Global Water Cycle
11:40	Supply, Alexandra	Precipitation Estimates and L-Band Sea Surface Salinity (PEALS)
12:00	Lunch	
13:00	Mahadevan, Amala	The Role of Freshwater in the Bay of Bengal: Lessons from ASIRI
13:30	Jaeger, Gualtiero Spiro	Layering the Pycnocline: Spice and Stratification in the Bay of Bengal
13:45	Kohler, Julia	Mechanisms for Seasonal and Interannual Sea Surface Salinity Variability in the Indian Ocean
14:00	Trott, Corinne	Interannual and Decadal Basin-scale Exchange of Fresh and Salt Water in the Northern Indian Ocean
14:15	Menezes, Viviane	Dynamics of the Sea Surface Salinity Maximum Pool in the Indian Ocean
14:30	Break	
14:45	Fournier, Severine	Satellite Synoptic View of the Bay of Bengal Post-monsoon "River in the Sea"
15:00	Hu, Shijian	Salinity Effect in the Interannual to Decadal Variability of the Indonesian Throughflow
15:15	Zeng, Lili	Decadal variation and trends in subsurface salinity from 1960 to 2012 in the northern South China Sea
15:30	Paris, Morgan	Role of ENSO Events on Salinity and Temperature Variability in the Agulhas Leakage Region
15:45	Poster Preview	1 minute previews by Poster Presenters
16:00	Poster Session	

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Poster Session Presentations

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16:00	Poster Session	
	Arnault, Sabine	The Intra-annual Variability of the North Equatorial Counter Current Eddies and of the Instability Waves of the Tropical Atlantic Ocean using Remote Sensing
	Bayler, Eric	Implementation of the Operational Satellite Sea-surface Salinity Data Assimilation at NOAA
	Bayler, Eric	In Situ Sea Surface Salinity and Temperature Observations from the NCEI Global Thermosalinograph Dataset (NCEI-TSG)
	Bingham, Frederick	Space and Time Scales of Sea Surface Salinity and Freshwater Forcing Variability in the Global Ocean (60S-60N)
	Boutin, Jacqueline J.	Dielectric Constant Retrieved from SMOS Multiangular Measurements: the Cardioid Model
	Boyle, James	Development of an In-situ Instrument to Continuously Monitor Near-surface Salinity, Temperature and Sea State Parameters
	deCharon, Annette	"NASA Salinity" Communication and Engagement
	Fournier, Severine	Interannual Variation in Offshore Advection of Amazon/Orinoco Plume Water with Impacts on Regional Upper Ocean Salinity and Temperature
	Graham, Ray	Meteorological Quantification of P-E and Surface Fluxes during SPURS-2
	Grodsky, Semyon	Interannual Salinity in the Amazon Plume and Adjacent Areas
	Liu, Chao	Vertical Redistribution of Oceanic Salt content and Its Implications for the Upper Ocean Salinity Change
	Maes, Christopher	Ocean Salinity Stratification during the 2002-2012 Period as Derived from the ISA13 Argo Atlas
	Martins, Meike Sena	Salinity from SMOS, Comparison of Bias Corrected Data Products
	Reagan, James	Global and Regional Amplifications of Near-surface Salinity Patterns from 1951-2014
	Reddy I, Venkata Subba	Global Variation of Water Vapor Using Different Observational Platforms
	Spurgeon, Paul	Eight Years of Ocean Salinity from SMOS: Selecting Data Tools, Services and Support of NASA Salinity Mission Data
	Tsontos, Vardis	Archival and Distribution through the PO.DAAC
	Tang, Wenqing	Validating SMAP SSS with In Situ Measurements

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Wednesday, May 24, 2017

Time	Presenter	Title
8:30	Farrar, Tom	Surface Layer Salinity Balance at the SPURS-1 Central Mooring
9:00	Rainville, Luc	Early Results from SPURS-2: Multi-months Timeseries of Salinity, Rain, and Turbulence from Autonomous Gliders
9:30	Clayson, Carol Anne	Near-surface Stratification Effects in the SPURS Field Campaigns
10:00	Break	
10:30	Shcherbina, Andrey	Multi-platform Lagrangian Observation of Ocean Boundary Layer Shear and Stratification During SPURS-2
11:00	Busecke, Julius	Temporal Variability in Surface Eddy Mixing
11:30	Edson, James	Meteorological Quantification of P-E Surface Fluxes during SPURS-2
12:00	Lunch	
13:00	Bingham, Frederick	SPURS-2 Data Management – Status and Plans
13:15	Sprintall, Janet	Upper Ocean Variability during the SPURS-2 Field Campaign under the ITCZ
13:30	Hormann, Verena	Lagrangian Drifter Observations of Near-surface Circulation and Sea Surface Salinity during SPURS-2. Joint presentation with L. Centurioni, N. Maximenko, and Y. Chao
14:00	Dong, Shenfu	Near-surface Salinity and Temperature Structure Observed with Dual-sensor Drifters in the Subtropical South Pacific
14:15	Paget, Aaron	Evaluating the Role of Seasonal Freshwater Flux Variability on the Anomalous 2016 Seasonal Freshening of Ocean Surface water in the SPURS-2 Region
14:30	Break	
14:45	Chickadel, Chris	Small-scale Temperature Variability Affected by Rain Events During SPURS-2
15:00	Thompson, Elizabeth	Predictability of Tropical Freshwater Lenses due to Convective and Stratiform Rain During SPURS-2
15:15	Yang, Jie	Analysis of STS/PAL Float Data in SPURS-2 Study Area
15:30	Hodges, Ben	Wave Gliders in SPURS-2
15:45	Asher, William	Measurement of Ocean Surface Turbulence Generated by Rain Using the Controlled Flux Method
16:00	Adjourn (SPURS Side Meeting)	

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Thursday, May 25, 2017

Time	Presenter	Title
8:30	Lagerloef, Gary	Verifying Aquarius Calibration Drift Using In Situ Data
9:00	Boutin, Jacqueline J.	Measuring SSS with SMOS since 2010: Qualities and Flaws
9:30	Sabia, Roberto	SMOS Pilot-Mission Exploitation Platform (Pi-MEP): Project Overview
9:50	Guimbard, Sebastien	SMOS Pilot-Mission Exploitation Platform (Pi-MEP): Datasets, Tools and Case Studies
10:10	Break	
10:30	Arias, Manuel	OTT Components Analysis: Towards a Better SMOS SSS Retrieval
10:50	Davies, Rhiannon	Impact of a New Bias Correction on SMOS Data
11:10	Kolodziejczyk, Nicolas	Resolving SSS and BASIN SCALE TO MESOSCALE: A SMOS Optimal Interpolation
11:30	Turiel, Antonio	Analyzing the Balance Equation of SSS Using SMOS Data
11:50	Fore, Alexander	SMAP Sea Surface Salinity Retrieval Algorithm
12:10	Lunch	
13:30	Meissner, Thomas	Salinity Remote Sensing from SMAP
14:00	Olmedo, Estrella	Improvements in SMOS SSS: Retrieval in Marginal Seas, Coastal Areas and River Discharges
14:20	Hasson, Audry	SMOS and Simulated Sea Surface Salinity Anomalies in 2015: the Imprint of a Singular El Nino Event
14:40	Break	
15:00	Melnichenko, Oleg	The Vertical Structure of Eddy Freshwater Transport Inferred from Satellite Observations and Argo Profile Data
15:20	Vinogradova, Nadya	Synergistic Use of Satellite and In Situ Observations for Production of New, Multi-platform Salinity Estimates for Climate Research
15:40	Singh, Shikha	Possible Role of Subsurface Ocean Biases in Climate Models in the Simulated Interannual Variability
16:00	SISS Working Group Meeting	

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Friday, May 26, 2017

Time	Presenter	Title
8:30	Lee, Tong	Perspectives for Future Enhancement of Spaceborne Salinity Observing Capabilities
9:00	Brown, Shannon	A Next Generation Spaceborne Ocean State Observatory: Surface Salinity, Temperature and Ocean Winds from Equator to Pole
9:30	Misra, Sidharth	Enabling the Next Generation of Salinity, Sea Surface Temperature and Wind Measurements from Space: Instrument Challenges
10:00	Break	
10:15	Discussion:	Future Satellite Missions Future Field Programs CLIVAR Salinity Working Group
11:30	Meeting Adjourns	