

Aquarius/SAC-D Science Team Meeting Agenda

Presentation files are posted to this website.

Tuesday, November 11

1000-1300: Check-in at Meeting Registration Desk

Emerald Foyer

1000-1500: Poster Set-up

Emerald 3

1300-1330

Emerald 2

Welcome and Opening Remarks

Gary Lagerloef: Meeting Agenda and Objectives

Eric Lindstrom: NASA Program Overview

CONAE Program Overview and SAC-D Status

Gene Feldman: Aquarius Mission Status

1330-1710

Emerald 2

Key science results

[Abstracts](#)

13:30-1350

Gary Lagerloef, Earth & Space Research, USA

Aquarius Satellite Salinity Measurement Mission Status, and Science Results from the initial 3-Year Prime Mission

1350-1410

Annette deCharon, University of Maine, USA

Broadly Sharing the Importance of Ocean Salinity

1410-1430

Arnold L. Gordon, Lamont-Doherty Earth Observatory, USA (Invited)

Aquarius SSS-max and SSS-min views of the Sea

1430-1450

Lisan Yu, Woods Hole Oceanographic Institution, USA

Where can ocean salinity be used as a rain gauge?

1450-1510

Nadya Vinogradova, Atmospheric and Environmental Research (AER), USA

Linking information from sea surface salinity to oceanic freshwater fluxes using near-surface salinity budgets

1510-1520

Discussion

15:20-15:40

Emerald 3

Break

Key science results continued

Emerald 2

[abstracts](#)

1540-1600

Tong Lee, Jet Propulsion Laboratory, USA

Aquarius sea surface salinity measurements bring new understanding to intraseasonal variability in tropical oceans

1600-1620

Hsun-Ying Kao, Earth and Space Research, USA

Seasonal to Interannual Variations of the Salinity Fronts Under the Pacific Intertropical Convergence Zone

1620-1640

Tangdong Qu, University of Hawaii, USA

Sea surface salinity variability and ENSO

1640-1700

Subrahmanyam Bulusu, University of South Carolina, USA

Estimation of the Barrier Layer Thickness in the Indian Ocean using satellite derived salinity

1700-1720

Ebenezer Nyadjro, NOAA PMEL, USA

Salinity Structure of the Indian Ocean Dipole: Perspectives from Aquarius and SMOS satellite missions

1730-2000

Emerald 3

Poster session / Reception

Wednesday, November 12 – Morning Sessions

930-1110

Emerald 2

Key science results continued

abstracts

930-950

Y. Tony Song, Jet Propulsion Laboratory, USA

Modeling Skin-Layer Salinity with an Extended Surface-Salinity Layer

950-1010

Semyon Grodsky, University of Maryland, USA

Interannual Caribbean salinity in satellite data and model simulations

1010-1030

Xiaosu Xie, Jet Propulsion Laboratory, USA

Relating river discharges to salinity changes

1030-1050

R. Dwi Susanto, University of Maryland, USA

Freshwater Flux from Bay of Bengal, South China Sea and Eastern Indian Ocean and Its Impacts on the Indonesian Throughflow

1050-1110
Discussion

11:10-11:30

Emerald 3

Break

1130-1230

Emerald 2

SISS Working Group topics

abstracts

1130-1150

Yi Chao, Remote Sensing Solutions, USA

Satellite & In Situ Salinity (SISS) Working Group: Current Status and Future Plans

1150-1210

James Carton, University of Maryland, USA

Mixed layer salt balance and the role of eddies in a global ocean simulation

1210-1230

Kyla Drushka, University of Washington Applied Physics Laboratory, USA

The Diurnal Cycle of Salinity

1230-1400

on your own

Lunch

Wednesday, November 12 – Afternoon Sessions

1400 – 1520

Emerald 2

SPURS Results

[abstracts](#)

1400-1420

Eric Lindstrom, NASA Headquarters, USA

Salinity Processes in the Upper Ocean Regional Study (SPURS)

1420-1440

Yi Chao, Remote Sensing Solutions, USA

Validation of Aquarius Sea Surface Salinity Data with In Situ Measurements from the SPURS Field Experiment

1440-1500

Frederick Bingham, University of North Carolina Wilmington, USA

The North Atlantic Subtropical Surface Salinity Maximum as Observed by Aquarius

1500-1520

Jie Yang, University of Washington Applied Physics Laboratory, USA

Regional rainfall measurements using Passive Aquatic Listener during SPURS field campaign

1520-1540

Emerald 3

Break

1540 -1710

Emerald 2

Aquarius Salinity Validation

[abstracts](#)

1540-1600

Oleg Melnichenko, International Pacific Research Center, University of Hawaii, USA

Aquarius SSS optimum interpolation analysis for global and regional studies

1600-1620

Seungbum Kim, Jet Propulsion Laboratory, USA

Evaluation of sea surface salinity variability in the East China Sea observed by the Aquarius instrument

1620-1640

James Reagan, CICS-MD/NODC, USA

Comparison analysis between Aquarius sea surface salinity and World Ocean Database in situ analyzed sea surface salinity

1640-1700

Peter Hacker, University of Hawaii, SOEST, HIGP/IPRC, USA

Aquarius SSS space/time biases with respect to Argo data

1700-1710

Discussion

1710-1900

Emerald 3

Poster Session

Thursday, November 13 – Morning Sessions

8:30-10:30

Emerald 2

SAC-D Instruments and science results from Argentinian colleagues

[abstracts](#)

830-850

Monica Rabolli, CONAE, Argentina

SAC-D/ Aquarius 3rd Year

850-910

Hugo Marraco, CONAE, Argentina

NIRST ready for science

910-930

C. Bruscantini and F. Grings, CONAE, Argentina

Using Aquarius Radiometer and Scatterometer for generating new soil moisture products (Active, Passive, Active-Passive)

930-950

Juan Federico Bianchi, National Water Institute, Argentina, Argentina

Assessment of SMOS, Aquarius and AMSR2 Soil Moisture assimilation into hydrological models of a flatland basin

950-1010

Rajat Bindlish, USDA ARS, USA

Aquarius/SAC-D Soil Moisture Product using V3.0 Observations

1010-1030

Raul Guerrero, INIDEP, Argentina

The Salinity Signature of the Cross-Shelf Exchanges in the Southwestern Atlantic Ocean: Satellite Observations

1030-10:50

Ricardo Matano, CEOAS, Oregon State University, USA

The Salinity Signature of the Cross-Shelf Exchanges in the Southwestern Atlantic Ocean: Aquarius observations and models

1050-1120

Break

Emerald 3

1120-1230

Aquarius Salinity Retrieval Algorithm

Emerald 2

[abstracts](#)

1120-1140

Frank Wentz, Remote Sensing Systems, USA

The Aquarius salinity retrieval algorithm beyond Version 3.0

1140-1200

Thomas Meissner, Remote Sensing System, USA

Mitigation of large scale biases in the Aquarius salinity retrievals

1200-1220

Emmanuel Dinnat, Chapman University/NASA GSFC, USA

Effect of sea water dielectric constant model and sea surface temperature ancillary data on remote sensing of sea surface salinity

1220-1230
Discussion

1230-1400
Lunch

on your own

Thursday, November 13 – Afternoon Sessions

1400-1440
Aquarius Long Term Stability

Emerald 2

[abstracts](#)

1400-1420
Sidharth Misra, Jet Propulsion Laboratory, USA

A Fully Internally Calibrated Aquarius Brightness Temperature Measurement using Instrument-Only Corrections

1420-1440
Alexander Fore, Jet Propulsion Laboratory, USA

Aquarius Scatterometer Calibration and Bias Drift Correction

1440-1500
Break

Emerald 3

1500-1650
Surface Roughness Correction and Rain Effects

Emerald 2

[abstracts](#)

1500-1520

Wenqing Tang, Jet Propulsion Laboratory, USA

The effect of rain-induced stratification and surface roughness on Aquarius SSS retrieval

1520-1540

Emerald 2

Maria Jacob, CONAE, Argentina

Rain Impact Model (RIM) for Aquarius 1540-1600

Thomas Meissner, Remote Sensing Systems, USA

Assessment of rain impact on the Aquarius salinity retrievals

1600-1620

William Asher, University of Washington, USA

Observations and Modeling of Rain-Induced Near Surface Salinity Anomalies

1620-1640

Linwood Jones, University of Central Florida (UCF), USA

A MWR Ocean Roughness Correction Algorithm for the Aquarius SSS Retrieval

1640-1650

Discussion

1700-1900

Poster Session

note: 1650-1830

First Hill Room

Breakout Discussion: Aquarius Senior Review Proposal

Gary Lagerloef and Gene Feldman

Friday, November 143 – Morning Sessions

830-910

Emerald 2

RFI Effects

abstracts

830-850

Paolo de Matthaëis, GESTAR / NASA Goddard Space Flight Center, USA

The Aquarius Radiometers and Radio Frequency Interference: Analysis of RFI at L-band and its Impact on Salinity Retrieval

850-910

Shannon Brown, Jet Propulsion Laboratory, USA

Rising Above the Noise: Estimating and Removing Low-Level Undetected RFI Contamination in the Aquarius Salinity Product

910-930

Emerald 2

Land and Cryosphere Applications for Aquarius Data

[abstracts](#)

910-930

Emmanuel Dinnat, Chapman University/NASA GSFC, USA

On the use of observations from the Aquarius/SAC-D mission to study the cryosphere

930-1000

Emerald 3

Break / Poster removal

1000-1230

Emerald 2

Wrap up session
