2014 Aquarius / SACD Science Team Meeting Agenda and Objectives

Summarize the completion of NASA's Aquarius 3-year prime ing the Interaction salinity measurement mission (November 2014)

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the Interaction Between Ocean Circulation, the Water Cycle, and Climate by Measuring Ocean Salinity



#### AQUARIUS/SAC-D





# 2014 Aquarius / SAC-D Science Team Meeting

November 11-14, 2014 Seattle, Washington USA

1300-1330 Welcome and Opening Remarks Gary Lagerloef: Meeting Agenda and Objectives

Eric Lindstrom: NASA Program Overview

**CONAE Program Overview and SAC-D Status** 

Moved to Thursday morning

Lagerloef-Feldman: Aquarius Mission Status



#### AQUARIUS/SAC-D





# 2014 Aquarius / SAC-D Science Team Meeting

November 11-14, 2014 Seattle, Washington USA

# Friday Wrap-up Session

Each working group chair(s) need to provide summary





NASA Science Mission Timeline







2014 Aquarius/SACD/OSST Science Team Meeting Seattle, WA, 11 November 2014

## CONAE CONAE

#### 5 G. Lagerloef, Aquarius PI

#### 3. Interannual Variations

2. Seasonal Cycle

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# How well are we doing?

Three Main Measurement Objectives

1. Global Mean Sea Surface Salinity (SSS)







Aquarius V251 SEP/2011-AUG/2013





- Identify key scientific accomplishments, surprises, new findings, etc.
- Quantify the measurements relative to the mission requirements (See next slide)
- Determine processing version, or needed changes, to use for the "final data product" of the 3-year Prime Mission, and timetable for reprocessing (within 6 months).
- Develop plans and outline for Aquarius' NASA Extended Mission "Senior Review" proposal.



Baseline and Minimum Mission – Status,

AQUARIUS/SAC-D

V2.0\*



	Level 1 Science Mission Requirement	Baseline Mission	Minimum Mission
1	The Aquarius Mission shall collect the space-based measurements to retrieve Sea Surface Salinity (SSS) with global root-mean-square (rms) random errors and systematic biases no larger than <b>0.2 psu</b> on 150 km by 150 km scales over the ice-free oceans	0.33	0.27
2	SSS Averaging Interval	1 Month	3 Months
3	Mission Duration	At least	At least
		3 Years	1 Year
4	Deliver data products to a NASA Distributed Active Archive Center (DAAC).		Yes
	Level 1a Reconstructed Unprocessed Instrument Data		
	Level 1b Calibrated Sensor Units		
	Level 2 Derived Geolocated SSS		
	Level 3 Time-space averaged SSS on a standard Earth Projection		

## \* Version 2.0 data, January 2013

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Baseline and Minimum Mission – Status,

V3.0 ??



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Understanding the Interaction Between Ocean Circulation, the Water Cycle, and Climate by Measuring Ocean Salinity

and Space Administration.