

Aquarius Calibration/Validation Workshop – March 26-28, 2012

Locations: Santa Rosa

Day 1

8:30: Welcome

8:35: Post Launch CAL/VAL plan and Overview of workshop objectives:

- 1) Assess radiometer calibration performance (drift correction, antenna pattern, cold sky)
- 2) Review the RFI mitigation algorithms and determine changes for v1.3 and/or v1.4 if needed
- 3) Review scatterometer calibration performance and algorithm and changes for v1.4
- 4) Review the geophysical correction algorithms and performance – ascending-descending bias; rain impact; Faraday rotation correction
- 5) Make decisions on the path toward v1.4 processing

8:45 Project and Instrument Status

Current project status (Gary/Gene)

Status of ground processing system (schedule, testing and open issues) Patt/Feldman

9:30 Telemetry Monitoring

Liang and Adam, "Science and Telemetry data monitoring and trending"

10:15 Break

10:30 Status of previous action items

11:00 Salinity accuracy assessment

Hsun-Ying and Gary, "global salinity accuracy assessment using AVDS"

Peter, Space/time SSS variability and the quantification of regional inter-beam biases

Thomas and Gary, Zonal errors in salinity retrievals

12:00 Lunch

13:30 Radiometer calibration (drift correction, antenna pattern correction and cold sky)

Jeff and Liang, Aquarius radiometer internal-calibration analysis

Rajat and Tom, "Inter-comparisons of L-band brightness temperature between Aquarius and SMOS observations"

Shannon and Sid, Observed Drift over Antarctica and the Amazon

David, Cold Sky Maneuver

17:00 End of day 1

Day 2, March 27

8:30 RFI Environment and Mitigation (Radiometer and scatterometer)

Ruf, Radiometer RFI Detection and Mitigation

Paolo, Evaluation of Radiometer RFI Flagging Algorithm Performance Using TVAC Data

10:15 Break

10:30 Scatterometer Calibration (stability, antenna pattern and x-pol correction)

Greg, Scatterometer calibration stability

Alex, Scatterometer X-pol calibration and Faraday rotation correction

Adam, Scatterometer-based sea-ice proxy measurements

12:00 Lunch

13:30 Geophysical retrieval algorithms

Meissner and Wentz, Modifications to the salinity retrieval algorithm for V1.3

Wentz, Review of Land Correction Algorithm and Galaxy Correction Algorithm

Thomas, L-band model functions for TB and σ_0

Wendy, Model functions and Rain Impact

Brown, Sea State Dependent Model Function Development

17:00 End day two

19:00 - Group dinner (location TBD)

Day Three – March 28, 2012

8:30 Geophysical retrieval algorithms (cont.)

Simon, CAP algorithm, Ocean Wave Slope and Galactic Reflection

Sab, Coastal correction

Rajat and Tom, “Soil Moisture estimation using Aquarius observations”. (15 min)

Xiaolan, Freeze-Thaw detection

10:15 Break

10:30 MWR (Jones/Frank)

Linwood, MWR algorithm and calibration

Joel Scott, MWR geolocation issues and geophysical retrievals

12:00 Lunch

1:30 Summary and discussions – recap of status, issues and plan to move forward

4:00pm adjourn