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 sigma0
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