

2nd SMAP Cal/Val Workshop

Oxnard, CA

May 3-5, 2011

(ver. April 27, 2011)

Tuesday May 3

0830 Workshop Goals and Expected Outcomes (Jackson)

SMAP Project Perspectives

0915 NASA HQ Programs and Projects Related to SMAP (Entin)

0930 SMAP Project Status (Kellogg/Njoku)

0945 SMAP Science Plan (Entekhabi/Njoku/O'Neill)

1000 Break

SMAP Products and Cal/Val

1015 Summary of L1 Product Cal/Val Requirements (Colliander/West/Kim)

1045 Summary of L2 Soil Moisture Cal/Val Requirements (Moghaddam)

1115 Summary of L2 Freeze-Thaw Cal/Val Requirements (McDonald/Kimball)

1145 Summary of L4 Product Cal/Val Requirements (Reichle/Kimball)

1215 Lunch

Field Campaigns

1315 Discussion of Algorithm Requirements Related to Field Campaigns (O'Neill)

1400 CanEx-SM10 Results Presentations (Belair)

- Overview of the CanEx-SM10 field experiment (Belair, EC)
- Passive airborne measurements during CanEx-SM10 (Walker, EC)
- Active airborne measurements with the UAVSAR during CanEx-SM10 (Mladenova, USDA)
- UAVSAR interferometry during CanEx-SM10 (Hensley, JPL)
- Ground measurements over agricultural sites during CanEx-SM10 (Berg, Guelph/Toth, EC)
- Ground measurements over BERMS during CanEx-SM10 (Moghaddam, U. Michigan)
- Preliminary evaluation of soil moisture retrievals for CanEx-SM10 (Magagi, Sherbrooke U.)
- Summary and availability of CanEx-SM10 datasets (Magagi, Sherbrooke U.)
- Open discussion on lessons learned from CanEx-SM10

1545 Break

1600 SMAPEX Results and Australia Core Validation Site (Walker)

1630 General Discussion of Field Experiment Objectives (Jackson)

1730 End Day 1

Wednesday May 4

0830 Development of a Pre-launch Soil Moisture Field Campaign (Jackson). Includes 10 min, presentations on

- ComRAD (O'Neill)
- CARVE/PALS (Colliander)
- UAVSAR (Hensley)
- AirMOSS (Moghaddam)

1030 Break

1045 Development of a Pre-launch Freeze-Thaw Field Campaign (Belair/McDonald/Jackson)

1145 Lunch

1245 Status of the Aquarius Mission (Le Vine)

1250 SMOS Validation Experiences Presentations (Kerr). Includes 10 min presentations by

- Y. Kerr
- M. Drusch
- A. Robock

SMAP Validation Initiatives

1330 In Situ Sensor Testbed Presentations (Cosh). Includes 10 min presentations on

- ISST Overview (Cosh)
- Testbed Operations (Ocher)
- COSMOS (Zareda)
- GPS (Small)

1415 Up-Scaling Methodologies (Crow). Includes 10 min presentations by

- W. Crow
- B. Mohanty
- A. Berg

TBD Break

SMAP In Situ Cal/Val Team

1500 Core Validation Sites Overview (Jackson)

1515 Short presentations (5 min.) by responders attending. (List to be provided prior to session)

1700 Discussion

1730 End of Day 2

Thursday May 5

0830 Potential Partners. Includes presentations as follows

- NEON (E. Ayres)
- CZO (H. Lin)
- GCOM-W (I. Kaihotsu)
- Vietnam Program (D. Chung)
- NOAA COOP (K. Scharfenberg)

International Programs and Collaboration

0930 Goals of the GEWEX International Soil Moisture Working Group (van Oevelen)

0950 Goals of the CEOS Land Product Validation Team on Soil Moisture (Dorigo/Jackson)

- Soil moisture as an Essential Climate Variable (Jackson)

1010 Break

1025 Issues in Satellite and Land Surface Model Soil Moisture Validation (Drusch)

1045 The International Soil Moisture Network: Implementation and first User Experiences (Dorigo)

1115 Challenges faced by Operational and New In situ Soil Moisture Networks. Includes 10 min presentations on

- SwissSMEX (Mittelbach, ETH Zürich),
- Bibeschbach experimental catchment (Matgen, Gabriel Lippmann Centre)
- Alan Robock (TBD)

1145 Discussion

1215 Lunch

Other SMAP Components Related to Cal/Val and Summary

1330 SMAP Cal/Val Data Archiving (Colliander)

1500 Discussions and Actions (Jackson)

1630 End Day 3