

SMAP-Canada workshop

27-28 October 2015

Hotel Holiday Inn South
1330 Pembina Highway, Winnipeg, Manitoba

Meeting objectives related to:

Overall status of the SMAP mission and its products.

Status of the Canadian SMAP projects, and optimize collaborations between all the sub-projects.

Planification of Canadian field campaigns as part of SMAP Cal-Val.

Level 2/3/4 Beta release, data availability, and outreach.

Tuesday, October 27th, 08:30 to 12:00

(08:30) Welcome and agenda (Powers, AAFC, Belair, EC)

(08:40) Mission status (Entekhabi, MIT, Yueh, JPL)

(09:00) Level-1 radiometer products (Piepmeier or Misra, JPL)

(09:15) Level-1 radar products (West, JPL)

(09:30) Level-2 passive soil moisture products (Chan, JPL)

(09:45) Level-2 active/passive soil moisture products (Entekhabi, MIT)

(10:00) Break

(10:15) Freeze / Thaw products (Derksen, EC)

(10:45) Model value-added products (Reichle, NASA/GSFC)

(11:15) Discussion on overall status of SMAP mission and products (all)

(12:00 to 13:00) **Lunch**

Tuesday, October 27th, 08:30 to 12:00

(13:00) Ramata Magagi (U. Sherbrooke): Retrieving soil moisture and vegetation parameters from L and C-Band microwave data.

(13:30) Paul Bullock (U. Manitoba): Validation of Satellite-derived Soil Moisture Products for Operational Use.

(14:00) Heather McNairn (AAFC): Soil Moisture Monitoring for Canadian Agriculture: Exploiting RADARSAT-2 and Preparing for the Soil Moisture Active Passive (SMAP) Mission.

(14:30) Aaron Berg (Guelph University): Improved soil moisture retrieval and freeze/thaw state indicators over several Canadian ecosystems.

(15:00) Chris Derksen (EC): Freeze/Thaw retrieval from SMAP.

(15:30) Alain Royer (Sherbrooke University): Passive microwave soil freeze/thaw monitoring cal/val for the SMAP mission.

(16:00) Monique Bernier (INRS-ETE): Freeze/Thaw cycle monitoring using multi-scale SMAP products and hydrothermal modelling over Canadian tundra

(16:30) Jing Chen (U. Toronto): Assimilation of SMAP data in an ecosystem model to improve water and carbon cycle simulations

Social dinner (location TBD)

Wednesday, October 28th, 08:30 to 12:30:

(08:30) Post-launch cal-val activities (Jackson, USDA, Colliander, JPL)

(09:00) Plans for F/T field campaign – SLAPEX (Berg, Guelph, Derksen, EC)

(09:20) Plans for 2016 field campaign in Manitoba (Powers and McNairn, AAFC)

(09:40) Discussion concerning the field campaigns

(10:15) Marco Carrera (EC): Development, Implementation, and Dissemination of km-scale Soil Moisture and Freeze/Thaw Products Based on SMAP Passive and Active Observations

(10:45) SMAP data archives (Leon, NSIDC)

(11:15) Discussion on data products and outreach

(11:45) Wrap up, synergy, collaborations, outstanding actions

(12:30) Scientific meeting adjourn.

Wednesday, October 28th, 13h30 to 17:00 (Canadian users meeting)

(13:30) Crop yield forecasting and drought monitoring (C. Champagne, AAFC)

(13:50) Applications related to flood forecasting (J. Jacobs, U. New Hampshire)

(14:10) Climate and meteorological applications (S. Belair, EC)

(14:30) Update on the SMAP Applications Plan (V. Escobar, NASA-GSFC)

(14:50) Break

(15:10) Short presentations (with or without slides support) by each of the users present at the meeting to highlight their interests, needs, and questions regarding SMAP and the different Canadian projects.

(16:00) Wrap-up... outstanding actions and issues

(16:30) Meeting adjourned.