

## **2<sup>nd</sup> Canadian SMAP Workshop**

Canadian Meteorological Centre  
2121 Trans-Canada, Dorval, QC, Canada  
16-17 November 2010

### **TUESDAY 16 NOVEMBER 2010**

08H30-09H30: Arrival of all the participants.

#### **Part I: GENERAL**

09H30-09H40: Welcome remarks (S. Belair, EC/MRD)

09H40-10H00: Soil Moisture Active and Passive mission (P. O'Neill, NASA/GSFC)

10H00-10H30: The Canadian SMAP Science and Applications Plan (S. Belair, EC/MRD)

10H30-10H45: Implementation and support of the Canadian Plan (M. Bergeron, CSA)

10H45-11H00: *COFFEE BREAK*

#### **Part II: SOIL MOISTURE PROGRAM**

a) Core sites for soil moisture cal-val

11H00-11H15: Soil moisture monitoring networks in Saskatchewan and Southern Ontario: Network validation (A. Berg, Guelph University)

11H15-11H30: Integration of field studies, modelling and remote sensing for the Prairies (B. Toth, EC/HAL)

11H30-11H45: Boreal Ecosystem Research and Monitoring Sites (BERMS) (A. Walker EC/CRD)

11H45-12H00: Canadian JECAM site (H. McNairn, AAFC)

12H00-12H20: Discussion on core cal-val sites (all)

12H20-13H30: *LUNCH (catered)*

b) Field experiments

13H30-13H45: CanEx-SM10: Overview and current status (R. Magagi, Sherbrooke)

13H45-14H30: Discussion on data analysis and on a post-launch field campaign (all)

c) Retrievals and data assimilation

14H30-15H00: AAFC research activities in soil moisture (H. McNairn, AAFC)15H00-

15H20: *COFFEE BREAK*

15H20-15H50: Soil moisture retrieval and freeze/thaw analysis (R. Magagi, Sherbrooke)

15H50-16H20: Soil moisture data assimilation in the Canadian Land Data Assimilation System (CaLDAS) (M. Carrera, EC/MRD)

16H20-17H00: Discussion on retrieval/data assimilation and wrap-up of first day.

**WEDNESDAY 17 NOVEMBER 2010**

08H30-09H30: Arrival of all the participants.

**Part III: FREEZE/THAW and CARBON PROGRAM**

a) Core sites for F/T and carbon cal-val

09H30-09H50: SMAP L3\_F/T and L4\_C cal-val activities (K. McDonald, JPL)

09H50-10H20: Overview of Churchill site and research at Waterloo (C. Duguay, Waterloo)

10H20-10H40: The Canadian Carbon Program and Fluxnet-Canada: Advancing our understanding of the carbon cycle of Canada's forests and peatlands using a research network approach (J. Chen, U. Toronto, on behalf of Hank Margolis, Laval University)

10H40-11H00: COFFEE BREAK

b) Field experiments

11H00-11H30: Canadian experiment for frozen/thaw retrieval (M. Bernier, INRS-ETE)

11H30-12H00: General discussion on FT and carbon cal-val (sites and experiments) (all)

12H00-13H00: LUNCH

c) Carbon and ecosystem modeling / assimilation

13H00-13H30: Carbon sinks in North American forests, and Coupling of water and carbon cycles at landscape and regional levels (J. Chen, U. of Toronto)

13H30-14H00: Ecosystem and atmosphere modelling in EC/CRD (D. Chan, EC/CRD)

14H00-14H15: An integrated system for soil moisture, FT, and vegetation assimilation, together with carbon modeling (S. Belair, EC/MRD)

14H15-14H45: Overall discussion on FT and carbon retrieval, modeling, and assimilation (all)

14H45-15H00: *COFFEE BREAK*

#### **Part IV: OTHER ASPECTS and WRAP-UP**

15H00-15H20: Impact studies, transfer to CMC-Operations, data products, and outreach (S. Belair, EC/MRD)

15H20-16H00: Wrap-up and general discussion on remaining aspects of the project (timeline, budget, team)

**END OF WORKSHOP**