

Séminaire vendredi le 6 mars 2015 11:00h / Seminar Friday March 6<sup>th</sup> 2015  
11:00h

**Sujet/Subject:** The Soil Moisture Active Passive (SMAP) mission

**Langue/language :** Français (Stéphane) / English (Chris)

**Conférencier/Lecturer:** Stéphane Belair (RPN)  
Chris Derksen (Environment Canada)

**Résumé / Abstract :**

The SMAP satellite was successfully launched a few weeks ago, on January 31st, 2015. It includes an L-band synthetic aperture radar (SAR) and radiometer providing information on soil moisture and on the freeze/thaw (F/T) state of the soil. In this presentation we will provide a brief description of the satellite and instruments, and discuss Environment Canada's involvement in this mission related to calibration-validation activities, the use of SMAP observations in the Canadian Land Data Assimilation System (CaLDAS), and the development / test of test of the F/T retrieval algorithm. For those of you who are interested, two short movies will be shown at the start of the presentation (starting at 11:00 sharp!