

**Séminaire ven 7 Jul 2010 14h / Seminar Fri Jul 7th 2010 14h**

**Conférencier/Lecturer:** Roger Saunders (UKMO)

**Sujet/Subject:** An update to the use of  
satellite data at the Met Office  
for NWP and forecast guidance

**Présentation/Presentation:** Anglais / English

**Lieu/Room:** Salle des vents (Dorval)

**iweb:** <http://web-mrb.cmc.ec.gc.ca/mrb/rpn/SEM/>  
**web:** <http://collaboration.cmc.ec.gc.ca/science/rpn/SEM/index.php>

**Abstract**

The Met Office makes use of a wide range of satellite data for both assimilation into its NWP models and to provide guidance to the forecasters when issuing their forecasts. In recent years the challenges have been to assimilate the GPS radio occultation data more effectively, use more infrared sounding data over cloudy regions, and to exploit data from the new generation of high spectral resolution sounders such as IASI on METOP. In parallel, work continues to expand the use of the microwave imager and sounder data and the atmospheric motion wind vectors. A new challenge is to assimilate satellite data into the new 1.5km model over the U.K.

In addition to developing satellite products for assimilation in the 4D-Var system, stand-alone imagery products are also developed to help validate the forecasts and provide forecasters with information on a wide variety of phenomena. Recently imagery to support the monitoring of ash from the eruption of the Eyjafjallajökull volcano in Iceland has been used to gain more confidence in the dispersion models employed to warn the aviation industry of the location of the ash. The talk will address both the status of assimilation of satellite data at the Met Office and the use of imagery focussing on the products used to support the London VAAC in volcanic ash monitoring.