

Séminaire vendredi 15 novembre / Seminar Friday November 15th 2013 11h

Conférencier/Lecturer: Yi Huang (McGill Univ.)

Sujet/Subject: Hyperspectral Observing System Simulation Experiments

Salle/Room: Des vents (Dorval)

Résumé/Abstract:

We use numeric simulation experiments together with satellite measurements to inquire the basic features of the high-resolution spectra of the atmospheric radiation in weather and climate variations, and to explore the application of spectral measurements for understanding these variations. First, a case study of the super-greenhouse effect will be given as an example to illustrate how the spectral information may aid the diagnosis of weather and climate variations. Then, based on observing system simulation experiments, we will discuss how the satellite hyperspectral measurements can be used for monitoring and attributing global climate change, and for validating and improving weather and climate models.