Séminaire 2 octobre 2012 11h / Seminar October 2nd 2012 11h

Conférencier/Lecturer: Jason Cole
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Sujet/Subject: Evaluation of CCCma's contribution to CMIP5: Clouds and radiation

Présentation/Presentation: Anglais / English

Lieu/Room: Salle des vents (Dorval)

wiki: https://wiki.cmc.ec.gc.ca/wiki/RPN_Seminars

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

Résumé/Abstract

Part of the Canadian Centre for Modelling and Analysis (CCCma) contribution to the Fifth Coupled Model Intercomparison Project (CMIP5) was performed using the fourth generation of the Canadian Atmospheric Global Climate Model (CanAM4). Several improvements were made to physical parameterizations related to clouds and radiation in CanAM4 the previous version of the model (AGCM3). In this presentation I will compare cloud and radiative fluxes simulated by CanAM4 against satellite-based observations and model output from CMIP5. Also new diagnostic model output and observations will be used to show some compensating errors in the top of atmosphere radiative fluxes simulated by CanAM4.