

Séminaire mardi le 5 mai 2015 11:00 / Seminar Tuesday May 5<sup>th</sup> 2015 11:00h

**Sujet/Subject:** Multi-model ensemble systems used in subseasonal and seasonal forecasts at the U.S. Climate Prediction Center

**Langue/language :** Anglais/English

**Conférencier/Lecturer:** Emily Becker & Dan Collins (NCEP)

**Résumé/Abstract:**

The NOAA Climate Prediction Center (CPC) will provide operational subseasonal forecasts by the end of 2015. Environment Canada and U.S. National Centers for Environmental Prediction (NCEP) ensembles from the North American Ensemble Forecast System (NAEFS), currently used in weather forecasts out to two weeks lead time, are being extended to more than four weeks lead time. CPC is also evaluating ensemble prediction system (EPS), subseasonal forecasts from the European Centre for Medium-range Weather Forecasts (ECMWF) and Japan Meteorological Agency (JMA). The North American Multi-Model Ensemble (NMME), a collaboration between modeling centres from the U.S. and Canada, has been producing real-time monthly-mean and seasonal anomaly forecasts regularly since August, 2011. The NMME system has included between six and eight state-of-the-art coupled climate models for real-time forecasting (such as the NCEP Climate Forecast System (CFS) and the Canadian Seasonal to Inter-annual Prediction System (CanSIPS)).

We discuss the development of the operational subseasonal forecasts, current real-time NMME monthly and seasonal forecasts, and potential development of an NMME subseasonal forecasting system.