Séminaire 27 Avril 2011 11h / Seminar April 27th 2011 11h

Conférencier/Lecturer: Hai Lin

Sujet/Subject: Application of Extreme Forecast Index (EFI)

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

Abstract

The Extreme Forecast Index (EFI) is an integral measure of the departure of EPS forecasts from the reference climate distribution. It is an early detection of abnormal weather conditions, and serves as a warning to weather forecasters that an extreme event is happening. Since October 2011, EFIs for surface air temperature, precipitation and wind have been calculated for the CMC Global EPS forecasts based on the formula developed by Lalaurette (2002) and Zsoter (2006). It is planned to implement operationally. In this talk, I will introduce the EFI, and demonstrate the products derived from the CMC GEPS forecasts. The usefulness of EFI is discussed with three examples of recent extreme weather events: : Calgary Chinook of November 27, 2011; Praries high temperature of January 2012; and heat wave of March 2012.