

Séminaire jeudi 8 mars 11h00 / Seminar Thursday Mar. 8, 11:00 AM

Conférencier/Lecturer: Dr. Kazuo Saito
Meteorological Research Institute, Tsukuba, Japan

Sujet/Subject: The JMA nonhydrostatic model and mesoscale
ensemble prediction tests for the WWRP Beijing
2008 project

Presentation: English / English

Lieu/Room: Grande salle du premier étage CMC

RESUME / ABSTRACT

The Japanese Meteorological Administration (JMA) nonhydrostatic model is a community mesoscale model for research and NWP developed by collaborating works between JMA and MRI. A 6 hourly operational run with a horizontal resolution of 10 km was started in September 2004, and a 5 km run has been performed 3 hourly since March 2006. In May 2007, the forecast time will be extended to 33 hours. Several modifications have been added, including implementations of vertical hybrid coordinates, a Mellor-Yamada level 3 turbulent closure model, and revisions of radiation and convective parameterization schemes. Mesoscale ensemble prediction (MEP) trials using the JMA nonhydrostatic model are underway toward the WWRP Beijing 2008 project (B08RDP). In the presentation, a downscaling MEP trial for a heavy rain case in Japan, a preliminary experiment in 2006 for B08RDP, and some recent developments of the breeding of growing mode and singular vector methods will be shown.