

Séminaire Vendredi 9 Mai 11h00 / Seminar Friday May 9, 11:00 AM

Conférencier/Lecturer: Manfred Kloeppe (ECMWF)

Sujet/Subject: Introduction to ECMWF activities and recent developments

Présentation/Presentation: Anglais / English

Lieu/Room: Grande salle du premier étage CMC

Résumé / Abstract:

The European Centre for Medium-Range Weather Forecasts (ECMWF) is one of the leading centres in the world with regard to numerical weather prediction. It provides medium-range, monthly and seasonal weather forecasts to its Member States and Co-operating States.

Maintaining the current, rapid rate of improvement of its global, medium-range weather forecasting products is the principal goal of the ECMWF ten-year strategy for 2006-2015, with particular effort on early warnings of severe weather. The ECMWF forecasting system provides users with operational forecast guidance twice daily for the medium range. The high-resolution deterministic forecast is run at 25 km resolution and has 91 levels from the surface to a height of 80 km. The deterministic forecast is complemented by an Ensemble Prediction System (EPS). The EPS is run to 10 days at 50 km horizontal resolution, and continues out to 15 days run at a reduced 80 km resolution. Once a week, the forecast is extended out to 32 days to provide an outlook for the month ahead. From day 10 onwards, the atmospheric model is coupled to an ocean circulation model.

After a general introduction, recent developments will be presented. Examples regarding successful early warnings of severe weather will be shown, followed by an outlook to future plans.