International Training Course on Numerical Weather Prediction
20 November- 1 December 2017, Nanjing, China

ENROLMENT INFORMATION

International Training Course on Numerical Weather Prediction is sponsored by China Meteorological Administration (CMA), and locally organized by WMO Regional Training Centre (RTC) Nanjing with Nanjing University of Information Science and Technology..

Course Description

This course is designed to help participants, through theoretical study and practice, to have a general view of the basic principles of Numerical Weather Prediction (NWP) and interpretation of NWP products. It is also helpful to improve participants' ability in carrying out operational and research work for short and medium range weather forecasts, and in using advanced NWP models.

Expected Learning Outcomes

Participants are expected to be enabled to understand and master basic principles of numerical weather prediction and interpretation of NWP products, including operating NWP models, model dynamics, numerical methods, parameterization of sub-grid physical processes, data assimilation, atmospheric predictability and ensemble forecasting. They will be enabled to make verification and interpretation of NWP products, and operate weather research and forecasting model system.

Target Audience

Weather forecasters and those who are working in the field of weather forecasting, research, disaster risk management, and multi-hazard early warning.

Course Content

The training course will cover lectures on fundamentals of NWP and interpretation of NWP products, including NWP model structure and dynamics, physical-process parameterizations, model initial conditions and boundary conditions, data assimilation methods, interpretation of NWP products, predictability and ensemble forecasting, and verification methods. Moreover, the practical training will use operational numerical models such as WRF and (or) GRAPES.

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