

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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ACG032-02

Room:105

Time:May 27 08:45-09:00

The TIGGE database

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The World Meteorological Organization (WMO) began The Observing System Research and Predictability Experiment (THORPEX) project in 2005 to accelerate improvements in the accuracy of 1-day to 2-week forecasts of high-impact weather for the benefit of society, the economy, and the environment. The THORPEX Interactive Grand Global Ensemble (TIGGE) is a key component of THORPEX, providing ten operational medium-range ensemble forecast data (BoM, CMA, CMC, CPTEC, ECMWF, JMA, KMA, Meteo-France, NCEP, and UKMO) at close to real time. The key objectives of TIGGE are briefly as follows: (a) an enhanced collaboration on development of ensemble prediction, internationally and between operational centres and universities; (b) a deeper understanding of the contribution of observation, initial and model uncertainties to forecast error; and (c) test concepts of a TIGGE Prediction Centre to produce ensemble-based predictions of high-impact weather, wherever it occurs, on all predictable time ranges. In this talk, details of the TIGGE database and some researches using the TIGGE data will be introduced.

Keywords: THOREX, TIGGE, numerical weather prediction, ensemble forecast, medium-range forecast