## **Japan Geoscience Union Meeting 2010**

(May 23-28 2010 at Makuhari, Chiba, Japan)

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ACG033-09 Room: Function Room A Time: May 23 11:15-11:30

## Simulation of Tropical Cyclone Nargis using a regional coupled model system

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Tropical cyclone Nargis which caused widespread damage in Myanmar is simulated using a regional coupled system in which the Weather Research and Forecasting (WRF) model is coupled to the Regional Ocean Modeling system (ROMS). Simulations of the standalone atmospheric WRF model and the coupled model are compared. Analysis shows that both the standalone WRF and the coupled regional model simulate the cylcone realistically in terms of track and the time of landfall. However, the coupled model simulates the intensity of the cyclone comparable to the observations with the standalone model simulating an intense cyclone. The regional coupled model results will be discussed with an emphasis on air-sea interaction and predictability of cyclone intensity and track.

Keywords: Tropical Cyclone, Regional Coupled Model