

Short-term Weather Forecasts

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Thailand is located at the center of Southeast Asia and the local climate is tropical and characterized by monsoons. Additionally Thailand is influenced by tropical storms from both the Pacific and Indian oceans. It is obvious that global warming phenomenon accentuates the weather extremes to be more frequent and severe than the past and Thailand is also under this stress. Short range or seven days weather prediction is crucial for Thailand flood disaster warning and management. With collaboration with Thai Meteorological Department and The Institute of Atmospheric Physics (IAP), the Chinese Academy of Sciences (CAS), we have adopted the Weather Research and Forecasting Model (WRF Model) to help predict the weather or rainfall operationally twice daily since June 2011. The smallest computational domain well covers Thailand at 3x3 km grid spacing. The HPC cluster system is optimized and scaled up to 144 cores parallel computing.

Keyword: HPC, Numerical Weather Prediction, WRF Model

2.54 cm or 72 pt



