

P29 WRF simulations of the heavy rainfall in Northern Kyushu, July 2017.

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In early July 2017, extensive sediment disasters and floods occurred in Northern Kyushu due to band-shaped heavy rain.

In this study, to investigate the mechanism of occurrence of the precipitation system that causes heavy rain, we conducted numerical simulations with the use of the Weather Research and Forecasting (WRF) model and evaluated the reproducibility.

In this reproduction experiment, initial and boundary conditions are provided by local forecast model(LFM) developed by JMA that has high resolution(2km) and mp physics are provided Ferrier, WSM 6, Goddard GCE, or Thompson.

We compared there reproduction experiment results with Radar-AMeDAS rainfall (JMA) by performing DAD analysis.

The comparison results will be presented at the workshop.