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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Coupled hydro-meteorological modelling on HPC platform for high resolution extreme weather impact study" *by* Dehua Zhu et al.

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1. In Abstract, the research background should be reduced.

Abstract has been rewritten, please refer to the revised manuscript.

2. The introduction or references of UM-UKV model should be added.

UKV suite is a regional configuration of the UM, the details are in P7 line 207-215.

3. Please describe how to downscale from 1.5 km UKV to HYPE.

The description of the UKV product process can be found in P7 line 222-230.

4. What's the aim of Fig 5? There is no related description in the manuscript.

Figure 5 is deleted

5. Line 343-345, what distinguishes this study from others is it is first time that modellers are able to simulate the entire system, ranging from the global circulation down to a target catchment for impact study. However, the manuscript mainly focused on the perfomance analysis of three input conditions (rain-gauges, UKV output, and radar rainfall) to hydrological simulation. It is therefore suggested that some contents should be adjusted and the scientific merit or contribution of the paper should be emphasized.

More contents are added in the revised manuscript.

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/hess-2016-140/hess-2016-140-AC2-supplement.pdf

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