Nat. Hazards Earth Syst. Sci. Discuss., 2, C2959–C2960, 2015
www.nat-hazards-earth-syst-sci-discuss.net/2/C2959/2015/

Natural Hazards and Earth System Sciences
Discussions

Interactive comment on "Improvement for the multi-scale periodic characteristics revealing of precipitation signals and its impact assessment on soil hydrological process by combining HHT and CWT approaches" *by* S. P. Yu et al.

Anonymous Referee #1

Received and published: 6 January 2015

This paper conducts a detailed analysis of the multi-scale periodic precipitation signals and its impact on the soil hydrological process at the Chinese coastal reclamation region. The author improved the CWT with critical fine-scale mode mixing problem by combining the EEMD-based HHT method which seems appropriate and innovative. The results are reasonable and provide a directly theoretical guideline for forecasting precipitation trends and evaluating the impact of the precipitation trend on the future soil hydrological process. It is a valuable paper and should be published with only minor suggested modification.

Full Screen / Esc
Printer-friendly Version
Interactive Discussion
Discussion Paper

4048,20. We don't think the author can get the conclusions that "the surface soil EC (10 cm layer) decreased significantly with the precipitation increase" and "the 50 and 100 cm layers soil EC dynamics were in keeping with the precipitation dynamics" from Fig.7. The correlation between soil EC and precipitation seems to be not significant. We suggest the author give further analysis and more verification data.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 2, 4031, 2014.