

Interactive comment on “Pattern dynamics, pattern hierarchies, and forecasting in complex multi-scale earth systems” by J. B. Rundle et al.

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First of all, I want to mention that this is a contribution to a special issue on "Thresholds and Pattern Dynamics: A New Paradigm for Climate Driven Systems", based on a conference with the same name. Both the conference and special issue were motivated by the work of the first author (John Rundle) in the area of earthquake dynamics - this is the reason that a paper mostly focused on earthquakes appears in a hydrological journal. This special issue, and this paper, also contribute to the "Earth System Sciences" aspect of HESS.

The submitted manuscript presents methods developed in earthquake dynamics and makes them available to the hydrological community. As such I welcome the paper in

this special issue - the paper has received 4 reviews which are mostly supportive of publication. The main message I keep hearing in the reviews is that the author makes it easy for the hydrological audience to see the similarities between the two fields (where possible) when it comes to thresholds and pattern dynamics, and also makes it easy for hydrologists to understand and adopt the methods already well established in earthquake dynamics.

I recommend that the authors proceed with the revisions of the paper as suggested, and I will be happy to recommend publication of the revised paper in HESS shortly thereafter. This paper will most likely appear as the second paper in the special issue (after an introduction paper/preface by the guest editors, and it should set the stage for the 14-15 papers that will appear in the remainder of the special issue.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 3, 1045, 2006.

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Interactive Discussion

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