

***Interactive comment on “A GCMs-based mathematic model for droughts prediction in the Haihe Basin, China: Multi-GCM Divide-Integration” by Dongmei Han et al.***

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Dear Han, DOI: 10.5194/nhess-2016-150 Manuscript entitled “A GCMs-based mathematic model for droughts prediction in the Haihe Basin, China: Multi-GCM Divide-Integration”.

Firstly, it is worthy to mention that I have studied this subject recently and have read many literature on development and application of GCMs. This study proposed a new procedure for improving the skills of GCMs, I think it is of particular value in application, and the procedure has the characteristics of simple-convenient operation and universal application over the previous methods. As seen from the results that the skill of simulation based on new approach improved significantly. And I think the conception

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or the idea on establishment of the new approach is actually good, that is taking full advantage of simulation of individual GCM on suitable spatial-temporal scales. Have a few comments: 1. The paper should detail this new approach compared with other methods, and explains why that is better or different from other methods. 2. The literature review part of the manuscript is limited, and missing some papers written in this topic. I strongly advice authors to refer the existing literature for further understanding. 3. Some sentence are necessary to correct for clear-exact understanding.

So, viewed as a whole, I suggest this manuscript be accepted and published for its certain reference value before the above comments are fully revised.

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