Natural Hazards
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Discussions

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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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Thank you very much for your comments on 21 Jun 2016 with which you sent to interactive discussion on our paper with the doi number 10.5194/nhess-2016-150. We also wish to take this opportunity to thank the reviewer for her constructive comments and valuable recommendations. We have carefully revised the manuscript according to reviewer's suggestion.

Our responses to several comments are listed below:

Comments 1: In the present work, the authors introduce and propose a new method of GCM-based to improve the skill of prediction of global climate models(GCMs). The new

methods is built by multi-linear regression model. Through the results you showed, this paper introduce more about innovations of the MGDI model with significant improvement for performance of GCMs. And a more important point is the study area selected in this paper is Haihe basin which is a focal research region with important strategic position in China, so the results obtained provided scientific and technological support for region for regional adaptation and mitigation strategies to address climate change. Reply 1: First extremely thanks the reviewer's approval and so in-depth analysis of the manuscript. The manuscript proposed the new approach which effectively improve the skill of GCMs simulation.It is important to strengthen the management and analyze the risks of future extreme events (drougths, floods and extreme weather events), especially in national key regions.

Comments 2: The overall quality of the English language is improved by native language and some sentence are not correct. Reply 2: The language and some sentence will be further modified according to the native speaker revision.

Comments 3: The literature view is poor, this paper should be supported by references. Reply 3: Thank you for your valuable advice and we consider adding to several reference in introduction part and in method part to enrich the content and provide the foundations for this manuscript.

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