

**In the following, the texts with italic font are the reviewer's original comments, and the texts with normal font are authors' response. The revised part in the manuscript is marked by red.**

Publish subject to minor revisions (Editor review) (25 Aug 2016) by Dr. Richard Neale  
*Comments to the Author:*

*Concerns were raised about the design of the orographic and removed sensible heat flux experiments and they should put a little more clarification on this in the text.*

**Response:**

We have add some explanation on why we design the *orographic and removed sensible heat flux experiments* in the text (**P6, L27-30; P7, L9-11**). And we add an appendix (Appendix II) to describe the details of the domain of modified orography and how to close the sensible heating (**P13, L16-26**).

“The aim of the “orographic perturbation” is to understand quantitatively the regional response to the orographic perturbation from both the thermal and dynamical aspects. The results will be very helpful to understand the topography effect on the atmosphere and associated physical processes locally and quantitatively, such as the distribution, intensity, and frequency changes in the precipitation over wide monsoon regions.”

“The sensible heat over the elevated topography is regarded as the main driver of the behaviour of the low level atmosphere and possibly also the upper troposphere and lower stratosphere (Wu et al., 2016). To examine the importance of elevated heating in monsoon from perspective of multi-model comparison ...”