

## ***Interactive comment on “A comparative study of large scale atmospheric circulation in the context of future scenario (RCP4.5) and past warmth (Mid Pliocene)” by Y. Sun et al.***

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Thanks for your good comments and reconstructive suggestion. Mid-Pliocene is considered as a potential analogue for future climate scenario identified by more and more reconstructive records. Thus it was suggested by IPCC AR4 as a good analogue for future climate prediction by the end of the 21st century. However, these low-resolution reconstructive records limit our understanding on the mid-Pliocene warm climate. To display the entire image of mid-Pliocene and further validate what extent the mid-Pliocene can be used as a “test bed” for future warming, it is essential to performed modeling study on this warm period. In present study, we only concern

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the tropical circulation changes between mid-Pliocene and future scenario. Detailed replies are seen in the supplement.

Please also note the supplement to this comment:

<http://www.clim-past-discuss.net/9/C785/2013/cpd-9-C785-2013-supplement.pdf>

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