Geoscientific
Model Development
Discussions

Interactive comment on "Spatio-temporal consistent bias pattern detection on MIROC5 andFGOALS-g2" *by* Bo Cao et al.

Bo Cao et al.

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Thank you for the efforts you have gone to supply the code and data your manuscript depends on. While you seem to have supplied the substance of what is required, the archiving and citation are currently not compliant with GMD policy.

Thank you for taking your time and effort in reviewing our manuscript and we appreciate your insightful comments for improving the manuscript.

Q.1 Code on GitHub

GitHub is a great development and distribution platform, but it's not a persis-

tent archive. Even GitHub themselves tell you to use Zenodo for this! Please therefore provide a persistent archive of the exact version of the code that you use. The easiest way to do this is to use the Zenodo GitHub integration. See https://guides.github.com/activities/citable-code The resulting Zenodo repository will tell you how to cite the resulting DOI. You are welcome to also provide the reference to GitHub, for example as the preferred download location for the current version of the code, but this needs to be in addition to the DOI.

Response: Thank you for suggesting Zenodo for a persistent archive. We have published the code on Zenodo and the resulting DOI is 10.5281/zenodo.3456909. We will modify the reference in our manuscript accordingly.

Q.2

The comparison model data just points to the ESGF website. It is not clear which model data set was used. For CMIP5 ESGF provides unique data set IDs in the metadata. Please insert the relevant IDs in the code.

Response: The data sets used in this manuscript are 'cmip5.output1.MIROC.MIROC5.historical.mon.ocean.Amon.r1i1p1.v20131009|esgf-data1.diasjp.net' and 'cmip5.output1.LASGIAP.FGOALS-s2.historical.mon.ocean.Amon.r1i1p1.v20161204|esg.lasg.ac.cn' from the ESGF website. We will attach the data set IDs in our manuscript.

Q.3

For GPCP, the correct citation is given at https://data.nodc.noaa.gov/cgi-bin/iso?id= gov.noaa.ncdc:C00932#. Once again, it's perfectly OK to also include the URL, but

the citation is more permanent so should always also be used (you could also put the URL in the citation in the bibliography if you think that's neater).

Response: We will provide both the correct citation, Adler et al. (2011) as given in the GPCP website, and the URL for GPCP in the bibliography.

References :

Adler, R.F., G.J. Huffman, D. Bolvin (2011): Global Precipitation Climatology Project - Monthly, Version 2.2. NOAA National Climatic Data Center.

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