

## ***Interactive comment on “A novel bias correction methodology for climate impact simulations” by S. Sippel et al.***

**S. Ghosh (Referee)**

subimal@civil.iitb.ac.in

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This is a very interesting work on bias correction of climate simulations preserving the physics. This is worth publishing. I have few minor points:

1. Is it possible to show that the physics is preserved, through the calculation of closure term of water and energy cycle. They may follow Trenberth and Fasullo (2013), GRL to compute the closure term. Trenberth, K. E., and J. T. Fasullo (2013), North American water and energy cycles, Geophysical Research Letters., 40(2), 365-369, doi: 10.1002/grl.50107.
2. The authors must mention that bias correction is different from downscaling. There is a recent trend of mixing both of them just by adding a disaggregation to bias correction.

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This can be a good word of caution.

### 3. Is the bias stationary to apply for future climate projections?

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Interactive comment on Earth Syst. Dynam. Discuss., 6, 1999, 2015.

**ESDD**

6, C797–C798, 2015

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