

Interactive comment on “On reconstruction of time series in climatology” by V. Privalsky and A. Gluhovsky

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I have no doubts that the article should be published.

First, it shows that the standard for climatology way to restore time series based upon the cross-correlation coefficient and linear regression is mathematically wrong. This point cannot be disputed.

Second, a new method is suggested which seems to be mathematically correct and new in climatology. Third, the mathematically sound new method is applied to restore the time series of the total solar irradiance and is proven to be more efficient than the incorrect standard method.

The three negative reviews by referees are especially convincing in supporting my
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positive conclusion. None of them disputes the statement regarding the inapplicability of the correlation approach to time series and all three create an impression that the referees are not very familiar either with theory of random processes or with time series analysis.

I recommend the article for publication.

Interactive comment on Clim. Past Discuss., 11, 4701, 2015.