

Interactive comment on “Homogenization of Portuguese long-term temperature data series: Lisbon, Coimbra and Porto” by A. L. Morozova and M. A. Valente

Anonymous Referee #1

Received and published: 10 September 2012

The paper

“Homogenization of Portuguese long-term temperature data series: Lisbon, Coimbra and Porto by A. L. Morozova and M. A. Valente

is written in a high quality technical English and address an important issue: The Homogenization of long term data series. The use of the original raw data series has lead, many times, to biased conclusions about climate trends. On the other hand a corrections to the data based only in results of some statistical method has also lead to biased and artificial conclusions. This paper discusses those problems in a very clear way, in its initial sections, and focuses, specially, in correcting only inhomogeneities

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supported by the history of the records in terms of metadata (localization changes, instrumentation changes, etc.) and tries to discuss, and correlate, the others observed inhomogeneities with natural phenomena.

This paper is a good example of the steps one should considered when correcting long data series. Although the methods used are not new, the sources are however fully acknowledged, and the corrected series resulted from this work should really be considered in any future studies on climate trends in Portugal.

Please also note the supplement to this comment:
<http://www.earth-syst-sci-data-discuss.net/5/C184/2012/essdd-5-C184-2012-supplement.pdf>

Interactive comment on Earth Syst. Sci. Data Discuss., 5, 521, 2012.