

Interactive comment on “Comparing tide gauge observations to regional patterns of sea-level change (1961–2003)” by A. B. A. Slangen et al.

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Dear Sönke,

Thank you very much for your interest in our paper, and for your constructive comment.

We have now checked the PSMSL documentation for all stations used in our study, and found that for 5 out of 278 stations MTL has been included in (part of) the PSMSL time series. We will remove 4 stations from our analysis, and replace the Cuxhaven record by the data you so kindly provided. We note that the trends of the other 4 time series were no outliers like the Cuxhaven record, and the removal of these records has no influence on the main conclusions of the paper.

In the process of checking the tide gauge documentation, we came across recently

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updated time series in Denmark, following the Technical Report 13-15 'Sea level data 1889-2012 from 14 stations in Denmark Mean, maximum and minimum values calculated on monthly and yearly basis including plots of mean values' from the DMI of September 2013. This affected 9 records used in our study (order ~ 0.1 mm/yr), and these have been updated accordingly. However, the mean trend of region 9 does not change as a result of these updates.

Thanks again for your comment, and for sending us your data!

Kind regards, Aimée Slangen

Interactive comment on Earth Syst. Dynam. Discuss., 5, 169, 2014.