

Interactive comment on “Historical (1750–2014) anthropogenic emissions of reactive gases and aerosols from the Community Emission Data System (CEDS)” by Rachel M. Hoesly et al.

M. Michou

martine.michou@meteo.fr

Received and published: 16 June 2017

This paper documents input datasets to CMIP6 simulations, and as such is an essential part of the entire CMIP6 process. Below are some comments to help improve the paper.

- insist more on the comparison with the Lamarque 2010 paper, official CMIP5 dataset. Please include spatial comparisons between CMIP5 and CMIP6 total emissions by species, possibly for a selection of years. These maps put light in the discussion. Figures of differences would also be informative.

[Printer-friendly version](#)

[Discussion paper](#)



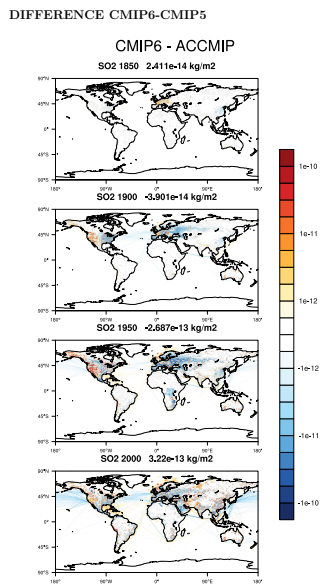
- although global estimates of SO₂ for CEDS and CMIP5 are very similar, spatial plots of the differences (see figure attached untitled DIFFERENCE CMIP6-CMIP5) reveal interesting features (large homogeneous or patchy distributions). Whether in the end you include or not such spatial plots in your paper, please include comments on these differences.
- in Table 2, it is not clear what "(SI-Text 6.3" (and similar references) point to. Please include clarification information.
- in para 3.3 please refer to the figures and/or the tables explicitly.
- please report in a summary Table in this article on the known uncertainty level of emissions, at least by species for a selection of years.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2017-43>, 2017.

Printer-friendly version

Discussion paper





6

Fig. 1.

Printer-friendly version

Discussion paper

