

Interactive comment on “Silicone v1.0.0: an open-source Python package for inferring missing emissions data for climate change research” by Robin D. Lamboll et al.

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Fantastic effort to provide a fully re-usable open-source implementation of data infilling for climate assessments!

Some minor comments you might want to consider:

I. 207 Maybe it could be worded more clearly what is compared with which aim instead of just "CO2 nor methane ..."?

I. 264 The reference to PRIMAP-crf here is not clear to me. On <https://climateactiontracker.org/methodology/historical-data/> it is described as one

C1

of the sources of historical input data for the CAT. Maybe a link to the CAT methodology (or the CAT website in general) would be a good reference (<https://climateactiontracker.org/methodology/>).

General comment: It is hinted at in the paper but maybe it could be made more clearly that any approach based on relation to other available scenarios or ensembles is bound by the available scenarios which are not part of a distribution of likely futures but rather shaped by intercomparison exercises (e.g. certain technologies, or climate policy goals). In any case, excellent that Silicone provides the possibility to filter and select input scenarios and mentions these considerations.

Interactive comment on Geosci. Model Dev. Discuss., <https://doi.org/10.5194/gmd-2020-138>, 2020.

C2