

Interactive comment on “A comparison of estimates of global carbon dioxide emissions from fossil carbon sources” by Robbie M. Andrew

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Fantastic paper, including the extensive Supplementary Information!

Some minor comments you might want to consider or might be relevant for readers of this paper below

CAIT

According to <https://www.climatewatchdata.org/ghg-emissions> emissions until 2016 are available,.

"Description: As of December 2019, CAIT Historical Emission data contains sector-level greenhouse gas (GHG) emissions data for 185 countries and the European Union

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(EU) for the period 1990-2016, including emissions of the six major GHGs from most major sources and sinks."

CEDS

There has been a new maintenance release (after the cited 2019-12-23 release): <https://github.com/JGCRI/CEDS/wiki/Release-Notes>

PRIMAP-hist

PRIMAP-hist is sometimes written as PRIMAP-Hist in the manuscript.

A reference for the PRIMAP emissions module is Nabel et al. (<https://doi.org/10.1016/j.envsoft.2011.08.004>).

The data set from the Detailed-Data-By-Party interface has also been updated and is available from Zenodo:

Gieseke, Robert, & Johannes Gütschow. (2020, April 23). UNFCCC Emissions data from the Detailed Data By Party interface (Version 2020-03-30). Zenodo. <http://doi.org/10.5281/zenodo.3763020>

CRF

Line 277: Did they really agree on Excel as a tool or just on the layout of the data which was to be reported?

There has been a recent update to the PRIMAP-crf dataset, which eases access to the UNFCCC's Excel files:

Gütschow, Johannes, Jeffery, M. Louise, & Günther, Annika. (2020). PRIMAP-crf: UNFCCC CRF data in IPCC categories (PRIMAP-crf-2019-v2) (Version 2019v2) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3775575>

Figures Reading the line graphs is really helped by the matching height of the legend items. Just some colors are hard to see (yellow) and maybe the lines could be made a

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little thicker?

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-34>, 2020.