

Interactive comment on “Technical note: On comparing greenhouse gas emission metrics” by Ian Enting and Nathan Clisby

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We are posting detailed responses to each of the reviewers. However their comments prompt us to make two large scale changes:

1. A specific section on how aspects of our analysis bear on the practicalities and political feasibility of various metrics. In part this will draw on existing text.
2. An appendix giving aspects of a corresponding analysis in the frequency domain. Although the mathematics is a little more complex, expressing the results as frequency analysis may be more familiar to many people than is the Laplace transform. In part this will draw on text from the supplementary information.

In addition, the concluding section has been restructured as suggested by reviewer 2.

C1

These will be posted separately.

In addition we note that the relative axis scaling of Figures 2 and 3 (which will be combined into 2a and 2b, following the suggestion of reviewer 2) reflects GWP defined without the indirect effects. We intend to rescale these axes to reflect GWP calculated with indirect effects — the convention now used by the IPCC. This changes only the axis labelling and does not affect the relative position of any of the lines.

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2020-996>, 2020.

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