

Interactive comment on “Climate Impact of Finnish Air Pollutants and Greenhouse Gases using Multiple Emission Metrics” by Kaarle J. Kupiainen et al.

Anonymous Referee #2

Received and published: 9 January 2019

This is an application on known metrics to the context of Finland which is useful. Although there is nothing new or unexpected in the overall results presented in the paper, the findings provide useful insights on the roles and contributions of the various greenhouse gases and SLCFs, as well as the different economic sectors on climate change in Finland and the Arctic region. The methodology used in this work can be replicated and adapted to other countries and regions which makes this work useful.

The analysis focused mainly on Global Warming Potential (GWP), the Global Temperature change Potential (GTP) and the Regional Temperature change Potential (RTP) metrics. However, new metrics have been proposed recently, and the authors

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should have considered including these new metrics in this work to increase the overall robustness of the findings, or at the minimum, the authors should have provided justification on why they did not consider these new metrics relevant to this present work. See for example, (1) <https://www.nature.com/articles/s41612-018-0026-8> (2) <https://www.nature.com/articles/nclimate2998> (3) <https://www.oxfordmartin.ox.ac.uk/publications/view/2601> for these recently proposed metrics

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2018-1086>, 2018.

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