Geosci. Model Dev. Discuss.,
https://doi.org/10.5194/gmd-2019-295-RC2, 2020

Geoscientific Model Development Discussions

Interactive comment on "HERMESv3, a stand-alone multiscale atmospheric emission modelling framework – Part 2: bottom-up module" *by* Marc Guevara et al.

Anonymous Referee #2

Received and published: 18 January 2020

Despite of the apparent aridity of the subject this paper is really.easy and very enjoyable to read. We learn all we need to know about the implementation of an emission bottom-up model. Every step is well documented, with relevant examples giving a clear an understandable overview of the various steps.

Somehow, one question arises: why estimated emissions for CO2 and CH4, are only related to combustion processes ?

For clarity and a better understanding is it possible to provide a diagram showing the sectors involved/available in the model, and for each sectors their major caracteristics : pollutants involved, area or point source, temporal and vertical distributions, ... Also

it could be useful to have a diagram showing where user-defined data are needed and therefore essential to make the model run. Add a table showing speciation.

Table B1 (Classification of HERMESv3_BU input data files per pollutant source) could be more readable if the file names appear with a color code depending on the file format (i.e. raster, shapefiles, CSV, others...)

Please also note the supplement to this comment:
https://www.geosci-model-dev-discuss.net/gmd-2019-295/gmd-2019-295-RC2-supplement.zip

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