

Author's Response to the comments by the Topical Editor Decision: Publish subject to minor revisions (review by editor) (22 Jun 2020)

Review of Mengis et al. gmd-2019-373

Dear Mr Phipps,

One of our students realised that we have been using CO₂ emissions for the emissions driven run, that are based on CMIP5 historical emissions (that are very close to the emissions as reported by the Global Carbon Budget 2018).

In the paper however, we report that we are using CMIP6 CO₂ emissions.

We have performed a simulation and the differences at least in terms of Global Mean Air temperature are very small. And we do believe that the results and the conclusion of the paper will not be impacted.

In the revised manuscript version we use our new simulations and edit the plots in order to stay consistent with the new CMIP6 forcing. We also added the student who performed the new CO₂ emissions driven simulation to the list of co-authors: Alexander J. MacIsaac.

Best regards,

Nadine Mengis