

Earth Syst. Sci. Data Discuss., referee comment RC1
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Comment on essd-2021-216

Anonymous Referee #1

Referee comment on "High-resolution inventory of atmospheric emissions from transport, industrial, energy, mining and residential activities in Chile" by Nicolás Álamos et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-216-RC1>, 2021

The manuscript presents an emissions inventory for anthropogenic emissions for Chile for three years using local information. The manuscript also compares this inventory to EDGAR for 2015. The manuscript aligns with the aims of ESSD. The manuscript presents new data (i.e. emissions inventory as well as methods and emission factors) that will be very useful to others studying air quality in Chile. Locally developed emission inventories are critical for air quality management and air quality modelling; thus, this manuscript provides very important information for air quality in and around Chile. In addition, especially through the comparisons to EDGAR and the detailed description of methods, the manuscript is of interest to the international community. For many countries, the "perfect" data for activity or emission factors aren't available, and thus I found it very interesting to see how the authors approached having "less than perfect" inputs.

I recommend that the manuscript is accepted with minor revisions. I have included the suggested revisions in the attached pdf. Many prompt the authors to add in some information to provide additional context for readers who may not be familiar with Chile (i.e. its geography, emission sources, etc.).

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2021-216/essd-2021-216-RC1-supplement.pdf>