

Interactive comment on “Air quality modelling in the summer over the Eastern Mediterranean using WRF/Chem: Chemistry and aerosol mechanisms intercomparison” by George K. Georgiou et al.

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The authors would like to thank the referee for the constructive comments and suggestions on how to improve the manuscript. Please find our replies to all comments and the supplement with all additional images and tables below.

1) Section 2.2. How are the EDGAR emissions on 0.1 degree resolution re-gridded into 4 km for the innermost domain?

Anthropogenic emissions were interpolated in space and time to produce daily emissions using the anthro_emiss utility (<https://www2.aocom.ucar.edu/wrf-chem/wrf-chem->

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tools-community) which creates WRF gridded anthropogenic emission files from lat/lon gridded anthropogenic emission files.

2) Section 3.2. Table 3 could also include statistics for all stations so that the discussion for the biases for the pollutant levels can be better addressed referring to Table 3. This can be provided as a supplement. The number of data pairs could be added as an extra information.

Statistical measures for individual stations for meteorology (Table 3) have been added in Table S1 in the Supplement. Data availability is noted in the caption.

3) Section 3.3. Table 4. The number of data pairs could be added as an extra information.

Data availability is noted in the caption.

Please also note the supplement to this comment:

<https://www.atmos-chem-phys-discuss.net/acp-2017-781/acp-2017-781-AC2-supplement.pdf>

Interactive comment on Atmos. Chem. Phys. Discuss., <https://doi.org/10.5194/acp-2017-781, 2017>.

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