

Interactive comment on “WegenerNet high-resolution weather and climate data 2007 to 2019” by Jürgen Fuchsberger et al.

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We thank the two anonymous Referees for their high appreciation of this paper and the positive comments. Based on the comments of Referee #2, we will make the following changes to the manuscript:

- 1) Missing list of abbreviations: We agree that this can be helpful and hence decided to put a list of abbreviations at the end of the manuscript, between Acknowledgements and References.
- 2) Publication of code: We considered this and decided not to publish our code as open currently, because parts of it are not documented well enough to be useful for the public without further advice. Nevertheless, the code can be acquired upon request.

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In addition we decided, based on our own crossreading meanwhile again, to edit the following few parts of the manuscript to further improve its readability:

Line 16-18: Changed sentence "... we also include two illustrative example applications and briefly summarize and refer to scientific uses in a range of previous studies." to "... we also include two illustrative example applications, briefly summarize and refer to scientific uses in a range of previous studies, and briefly inform on the most recent WegenerNet advancements in 2020 towards a 3D open-air laboratory for climate change research."

Line 229: Corrected "compares net radiation and humidity data" to "compares air pressure and humidity data".

Line 248-249: Changed "generating L2 basis data" to "generating level 2 (L2) basis data", to introduce the abbreviation "L2" on its first occurrence.

Line 457: Removed "or will soon start", because operations have started since the draft was written. Hence the full sentence is now "The following new atmospheric 3D observation components, as shown in a most recent WegenerNet FBR instrumentation map in Fig. 6, have started operations during 2020:".

Line 474: Corrected info on sampling rate from "5 min to 10 min" to "2.5 min to 15 min".

Line 511: Added acknowledgement of ZAMG cooperation and data provision: "We also thank the Austrian national meteorological service, ZAMG, for its cooperation and operational intercomparison data from its station network. ZAMG data are used according to a cooperation agreement between University of Graz and ZAMG (signed Oct. 2019)."

Line 514: Changed last access date from "4 September 2020" to "20 January 2021".

Line 560-561: Updated citation for Hohmann et al., 2020: Changed Journal name from "Hydrol. Earth Syst. Sci." to "Hydrol. Earth Syst. Sci. Discuss.", added DOI, and changed status from "submitted" to "preprint".

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Table 4, page 33, row "L2+ wind data": Changed "Half-hourly gridded wind fields" to "Half-hourly gridded mean wind and peak gust fields".

Table 4, page 34, row "L2PP: WCPG": Changed "... to hourly, and daily data products" to "... to hourly and daily data products" (removing comma before and).

Changed "Averaging ... to monthly, seasonal and annual climate data" to "Averaging ... to monthly, seasonal, and annual climate data" (adding comma before "and").

Table 4, page 34, row "L2 aggregated data": changed "annual gridded wind and peak gust fields" to "annual gridded mean wind and peak gust fields".

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