

Interactive comment on “A Long Term (2005–2019) Eddy Covariance Data Set of CO₂ and H₂O Fluxes from the Tibetan Alpine Steppe” by Felix Nieberding et al.

Anonymous Referee #2

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The manuscript presents a 15 year time series from eddy covariance and meteorological data from the Tibetan Alpine Steppe. Due to the remote site and harsh environmental conditions the timeseries is unfortunately full with gaps and many needed maintenances have not been done. Additionally, the fetch was strongly disturbed by construction of buildings. Still the authors challenged these hard data conditions and tried to extract all that was possible out of these data. First of all, I want to express my deep respect for the thorough work the co-authors did to create this data set. Obviously, a lot of brains were put together to solve the many problems present in the original data set and time series. I carefully read the manuscript, downloaded the data files and R-codes. It is a great effort in terms of reproducibility of the data which I

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very much appreciate. I want to highlight that I truly think these data are worth to be published. My impression is that maybe too much data massaging (with the best intentions I'm sure) was done so it looks like more than it is. The manuscript is well written and clearly structured, the data are well documented and the provided code is in a good shape. Figures in the manuscript are nicely illustrated. Due to the points below, I recommend a major revision. I want to see the manuscript again and I'm very much looking forward to see your comments and suggestions. I'm sure you can tackle all the points and solve them.

Please find my comments in the attached pdf.

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2020-63/essd-2020-63-RC2-supplement.pdf>

Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-63>, 2020.

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