

Earth Syst. Sci. Data Discuss., referee comment RC2  
<https://doi.org/10.5194/essd-2020-307-RC2>, 2021  
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## Reply on RC1

Anonymous Referee #2

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Referee comment on "FLUXNET-CH<sub>4</sub>: a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands " by Kyle B. Delwiche et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-307-RC2>, 2021

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The FLUXNET-CH<sub>4</sub> database, presented by the manuscript, is a valuable asset to the global flux and modeling community. The dataset is openly accessible through the FLUXNET website.

I found the manuscript to be well written, though another round of editing may be helpful to make some sections more succinct (I noticed repetitive wording in a few places).

The methodologies are described clearly and are well tested. I appreciate that the authors offer gap-filled, in addition to non-gap-filled, data.

I found the data representative analyses (i.e., the dissimilarity and tower constituency maps) to be very useful in highlighting gaps in the placement of eddy covariance towers across bioclimatic space. I also appreciate the discussion of potential biases and uncertainty in the data.