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Comment on **essd-2020-307**

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Community comment on "FLUXNET-CH₄: 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-CC1>, 2021

This is a fantastic dataset!

I have a comment on the Figure 5. Whilst it seems OK to just plot a linear trendline through these fluxes (on a logarithmic scale), this is questionable when looking at the individual biomes, which seem to indicate an even stronger (possibly even some exponential) increase with temperature. I would like to see individual regression lines fitted to the individual biomes (fen, bog, ...). I know there are few points per biome, but it seems important to see these biomes in their individual light - as underpinning conditions and processes are likely very different. This is of particularly importance when considering previous work by Abdalla et al., 2016 (temperature & moisture impacts on methane fluxes), highlighting those differences - which I think might look similar when plotting these data for biomes individually.

- DOI: