

## ***Interactive comment on “Spatial-and temporal-patterns of global soil heterotrophic respiration in terrestrial ecosystems” by Xiaolu Tang et al.***

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The dataset described by this manuscript, located at [https://figshare.com/articles/Rh\\_720\\_360\\_1980\\_2016\\_nc/8882567](https://figshare.com/articles/Rh_720_360_1980_2016_nc/8882567), has some significant problems.

1. No units are given, either in the netcdf file or on the Figshare webpage.
2. Latitude appears to be inverted (i.e. mirrored around the equator).
3. If the units are in gC/m<sup>2</sup>/yr, as appears likely, note that the file includes no area variable (needed to scale to a global flux, for example).

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4. Minor: RH is named "variable" in the file, and time is named "z", which is not particularly user-friendly.

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