

Earth Syst. Sci. Data Discuss., community comment CC1
<https://doi.org/10.5194/essd-2021-339-CC1>, 2021
© Author(s) 2021. This work is distributed under
the Creative Commons Attribution 4.0 License.

Comment on **essd-2021-339**

Peter Burek

Community comment on "EMO-5: a high-resolution multi-variable gridded meteorological dataset for Europe" by Vera Thiemig et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-339-CC1>, 2021

Very useful dataset. Just testing at the moment.

3.3.2 Aggregation of reference period is a bit unclear.

- All the other daily parameters such as wind speed, solar radiation and vapour pressure are averaged over 00:00 to 23:59:59 of the current day -> you state that the time stamp reference to the end of a period.

Daily vapor pressure starts with 2/1/1990 00:00 -> according to your first statement that is from 2/1/1990 00:00 to 2/1/1990 23:59:59, according to your second statement (time stamp at end of period that is 1/1/1990 00:00 to 1/1/1990 23:59:59. In your figure 5, time stamp 00:00 of reference date is the beginning of the period not the end.

- your daily dataset starts sometimes on the 2/1/1990 00:00 (pd,pr,rd,ws). I guess that 2/1/1990 00:00 is the period 1/1/1990 00:00 - 23:59:59, but in any automatic reading this would be linked to the 2/1/1990 (because that is the date)

- some of your datasets are only 10956 days (ws) some are 10957 days and some are 10958 days

-- 6 hourly ta - 43828 timesteps

this starts on 1/1/1990 00:00 and ends on 31/12/2019 18:00 - I assume that the first data 1/1/1990 00:00 is the period

1/1/1990 00:00 - 1/1/1990 5:59 -> but that is not what you stated in line 250

-- 6 hour pr - 43832 timesteps

starts on 31/12/1989 at 12:00 and ends on 1/1/2020 6:00 -> here it seems 31/12/1989 at 12:00 is the period 31/12/1989 at 6:01-12:00

Maybe you can clarify this in 3.3.2

- The dataset comes without any readme. maybe a shor readme with definition of variable, units, citation is useful

- the dataset is not using SI- Units. Fine with me, but a explanation why you use e.g. mm instead of kg m⁻² might be useful.