

Earth Syst. Sci. Data Discuss., community comment CC2
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Comment on **essd-2022-177**

Joaquin Munoz-Sabater

Community comment on "A 1-km daily soil moisture dataset of China based on in-situ measurement using machine learning" by Qingliang Li et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-177-CC2>, 2022

- *"Table 1 shows the datasets uses covariates used for RF modeling. Most covariates were collected from the ERA5-Land reanalysis dataset, which was produced by the land component of European Centre for Medium-Range Weather Forecasts (ECMWF)."*

Wrong, ERA5-Land wasn't produced by the land component of ECMWF. What does it mean??? Instead, ERA5-Land is an enhanced version of the ERA5 land component.

- *"The reasons for selecting the ERA5-Land dataset as preference were as follows: (1) it is generated under a single simulation of a land surface model using ERA5 reanalysis as the forcing data, but with a series of improvements making it more accurate for all types of land applications (Albergel et al. 2018);"*

Completely wrong reference. This is stated in [Muñoz-Sabater et al., 2021], not in [Albergel et al., 2018].

- *"(2) there are only several months latency for obtaining ERA5-Land datasets"*

What? What do you mean for obtaining E5L datasets? No, ERA5-Land is currently updated with 2-3 months latency.

- *"(3) the data is long-term (since 1981) and with seamless 175 spatial distribution and multilayers"*

Wrong, the data is available since 1950, not 1981.