Comment on essd-2021-445
Anonymous Referee #2

Referee comment on "Soil moisture observation in a forested headwater catchment: combining a dense cosmic-ray neutron sensor network with roving and hydrogravimetry at the TERENO site Wüstebach" by Maik Heistermann et al., Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2021-445-RC2, 2022

General comments

This data description paper is generally very well written with excellent supporting figures and tables.

The study pulls together an impressive set of measurement approaches which will be sure to be valuable in improving modelling, calibration and future measurement approaches. The data sets themselves are easy to download and understand. I have no major concerns which would prevent this paper being published with only minor changes.

I have added specific comments to help improve readability in the section below.

Specific comments

L19 – suggest “...limited, particularly when small scale variability is high.”

L23 – replace “confronted” with “limited by”

L32 – suggest “...100-150 m with a vertical depth...”

L39 – suggest replacing “soon enough” with “More recently”

L83 – fix “between 10 and 170 m”

L105 – suggest “It is available via EUDAT (see Heistermann et al., 2021a).”

L113 – suggest “was required to;” then remove “to” from the start of each point

Figure 2 – would fit better after dot point rather than within
Table 1 – would fit better after the dot points rather than within

L350 – 2nd sentence makes no sense

L412 and L413 – I am not sure exemplary is a good word to use. Do you just mean an example of data usage?

Figure 6 caption – suggest “flights” rather than “rides”

L524 change to “...B2HANDLE allow users to share ...”