

Technical note: High density mapping of regional groundwater tables with steady-state surface nuclear magnetic resonance – three Danish case studies

General assessment

The paper is almost ready to be accepted for publication, but the data availability issue must be fixed.

Namely, the answer by the authors that “the data is stored in files only accessible with a certain python environment not readily available” means that the FAIR concept is not fulfilled.

I recall that “Copernicus Publications requests depositing data that correspond to journal articles in reliable (public) data repositories”. Therefore, I ask authors to make their data set FAIR, in full compliance with HESS data policy (https://www.hydrology-and-earth-system-sciences.net/policies/data_policy.html).

As a marginal option, this policy requires that “if the data are not publicly accessible, a detailed explanation of why this is the case is required”. In the specific case, it would be necessary to specify which python environment is required to read the data and which data format can be used to share data with interested researchers.

Please, if the same issue (restrictions due to the development environment) applies to the codes, this should be explicitly stated in the “Code and data availability” section.

Author response:

We have deposited the data from the survey in an online repository at Zenodo. Here, all TEM and SNMR inversions used for figures are available.

As for the code, the python package is called Apsu, an in-house developed package, and is not available as it is largely in development with no stable release.

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From:

“Code and data availability. Code and data are available upon request to the corresponding author.”

To:

“Data availability. All SNMR and tTEM data in this survey is available at <https://doi.org/10.5281/zenodo.8186351>.”