

Earth Syst. Sci. Data Discuss., referee comment RC2
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Comment on **essd-2022-114**

Anonymous Referee #2

Referee comment on "Shallow-groundwater-level time series and a groundwater chemistry survey from a boreal headwater catchment, Krycklan, Sweden " by Jana Erdbrügger et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-114-RC2>, 2022

Summary and general comments:

In this manuscript, Erdbrügger et al. installed a monitoring network of groundwater wells in the Krycklan catchment in Northern Sweden and produced two datasets which combined hydrometric and hydrochemical data: groundwater levels and groundwater chemistry. The datasets can be a useful reference to test models that simulate groundwater dynamics and to evaluate subsurface hydrological connectivity. The manuscript is generally well-written and addresses two important datasets that is suitable for the Earth System Science Data. Thus, I can recommend a acceptance after a minor revision.

Line-to-line comments:

- Page 1, line 9-10, Abstract, add a sentence to summarize the shortcomings of the existing research.
- Page 1, line 10-21, Abstract, the methodology could be streamlined appropriately.
- Tables, in general: tables in the manuscript should be spaced appropriately to fit the content; It is recommended to use three-line tables.
- Page 4, Table1, references can be placed in the last column.
- Page 4 and 5, Table1 and Table 2 can be used as an appendix.
- Page 5, line 107, label the location of the Umea in Figure 1 or delete `about 60 km

inland from Umea'.

- Page 7, Figure 1 is missing the graticule.
- Figures in this manuscript (Figures 1, Figure 2, Figure 10, and Figure11), in general: reduce the size of the scale bar and north arrow to make the Figures more coordinated.
- Page 17 and 19, Figure 6 and Figure 7, the labels in the Figures are too small to read.