

Earth Syst. Sci. Data Discuss., referee comment RC2
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Comment on **essd-2022-46**

Anonymous Referee #2

Referee comment on "Meteorological and hydrological data from the Alder Creek watershed, SW Ontario" by Andrew J. Wiebe and David L. Rudolph, Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2022-46-RC2>, 2022

In this manuscript, the authors have provided a report on hydrometeorological data from a watershed in southwestern Ontario, Canada. The dataset provided is comprehensive, which is very useful for different environmental disciplines. The paper is well-written. But, it needs some revision before it can be considered for publication. Below are some comments that can be used to improve the manuscript.

There are so many figures, maybe some of them can be deleted. For instance, figures 6, 8, 9, 15, 16 can be safely removed. Merge Figures 3 and 4. Merge Figures 10 and 11. Why do we need simulations included in this manuscript (i.e., Figure 14)? I recommend removing all simulations from the manuscript and just focusing on the observations that are not available from national monitoring networks.

In general, all captions are too short (e.g., Table 7). Provide more descriptive captions for all figures and tables. Add another column for the time steps of the parameters.

L33: Spell out acronyms i.e., CH2MHILL, SSPA. The same goes with TRCA on line 41, OMNRF on line 51, OGS on line 53, OMNR on line 54. And also, why does OMNRF change to OMNR?

L43: It was mentioned "between 2013 and 2018" in the abstract. Why is it different here?

Fig. 2: Is there any data on groundwater recharge? Without infiltration, we cannot have the water budget closed.

L82: It shouldn't be "were" instead of "was"?

Fig.3: What does "Temperature sensor" refer to? Soil or air? Mention explicitly.

Table 1: Spell out "SOWC" in the caption.

L166: What does "Temperature" refer to? Soil, air, or water?