

Interactive comment on “Drought propagation and its impact on groundwater hydrology of wetlands” by Buruk Kitachew Wossenyeleh et al.

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The manuscript is very interesting and well written, proposing a method to analyse the the propagation of meteorological drought to groundwater recharge, groundwater levels, and groundwater discharge to a wetland. Some changes could make the manuscript clearer and more focused, especially in the Methods section. Below are some comments to the authors:

1. Title. Since the study focuses in a case study with very particular hydro-geological conditions, the name of the case study may be included in the title.
2. Abstract: The last paragraph of the abstract is confusing and seems contradictory.
3. paragraph 30. Please revise to include meteorological drought.

4. paragraph 40. First line, what type of droughts? The results in Figure 5 disagree with this statement. This result should be highlighted.
5. Methods: Add a section on validation of the simulation model with empirical data, and an example by using the time series of Figure 5 (200 Average monthly groundwater recharge).
6. Methods: Add a framework figure, linking the modelling components.
7. Results and discussion: As written now, it is a summary of individual results of the different modelling components. The manuscript will benefit from a more comprehensive text that links the results to the final goal of analysis.

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