

Interactive comment on “Drought in a human-modified world: reframing drought definitions, understanding and analysis approaches” by A. F. Van Loon et al.

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Thanks for your positive evaluation of our paper. Here we will shortly respond your comments. In the revised version of our paper we will make the suggested changes.

- We agree that it is still unclear how to incorporate human processes correctly into current lumped or semi-distributed hydrological models. In Section 3.2, we have only given examples of recent developments in large-scale models, but we agree that it is needed to also briefly mention other types of hydrological models, especially those that are used as prediction tools in local catchments. We do mention water management models in Section 3.4 (p.12, l.25-31), but in a revised version of the paper we will add some sentences on incorporating human processes into lumped or semi-distributed

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hydrological models to Section 3.2 as well. Thanks for the suggestion.

- We will revisit Section 3.3. We will rephrase the research questions and add more information on how to best solve these with future research.

- We agree too and will make the suggested change in the revised version of the manuscript.

- We will have a look again at Figure 4 and Table 1. In the preparation of the manuscript these have already provided significant challenges and multiple versions of both have been discussed between the co-authors. Nevertheless, we will attempt to merge Figure 4 and Table 1 and make them more useful.

- We will redo figure 6a.

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