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Discussions

Interactive comment on "Inventory of dams in Germany" by Gustavo Andrei Speckhann et al.

Anonymous Referee #1

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This manuscript describes the review of dams in Germany. As a non-research paper it can mostly receive technical comments. However, I think that the manuscript overall is very comprehensive, well written and includes the necessary information for the reader to understand how and to what extent the review was conducted by the authors. It really seems an extensive review. The manuscript begins with an informative introduction on dams, especially on their operations and their role for the environment and economy, as well as on the importance for scientists and researchers to have access to information on dams. The information currently available is also summarized through references to other inventories both in Germany and worldwide, with special references to the databases GRanND and GOODD. Next, the manuscript gives all the different sources used in this Germany dams inventory and in the results presentation it categorizes the dams appropriately (according to the purpose, building characteristics, lake volume etc) providing useful and informative graphs. Overall, I think that both the procedure of

the dams inventory and the description of the final output (database along its contents) are fine. Therefore, I can only contribute with only two minor/technical comments: 1) Lines 35-37. I cannot easily follow the meaning of this sentence. Can this become clearer? 2) Lines 58-59: A 20% sediment (including suspended material) reduction seems too low I think. Other references could be found reporting much higher numbers (not only for Amazon).

Interactive comment on Earth Syst. Sci. Data Discuss., https://doi.org/10.5194/essd-2020-266, 2020.