



## ***Interactive comment on “SoilErosionDB: A global database for surface runoff and soil erosion evaluation” by Jinshi Jian et al.***

**Jinshi Jian et al.**

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We greatly appreciate the second anonymous referee #2 for their helpful and insightful comments. Please see below our responses:

Comments: This reviewer totally agreed with Prof. Dr. Karl Auerswald's comments. A global database for surface runoff and soil erosion is very valuable for research community in hydrology and soil erosion. This reviewer was very interested in the database and downloaded SoilErosionDB.

Response: We thank you for your interest in our database.

Comments: However, I worried about its reliability and utility. Soil erosion is a very

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complex process as it relates various aspects and factors including climate, soil, topography, biology and human activities, and it covers different spatial and temporal scales. The results from different scales can not compare directly, which should be paid more attention to. This reviewer would suggest the authors start from a small topic, such as the collection of observations for the runoff and soil erosion of field plots, which are very important for the development and calibration of soil erosion models.

Response: We agree and will only keep those measurements from field plots experiments in our database.

Comments: In addition, before the release of the database, strict quality control and analysis on the dataset are necessary.

Response: We will do a careful and strict quality control and analysis on the dataset before releasing our new version. Please see the specific responses to Reviewer #1 for more details.

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Interactive comment on Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2020-283>, 2020.

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