Comment on essd-2022-124
Anonymous Referee #1


This dataset of Tibetan Plateau lake-catchment characteristics fills a data gap for conducting a variety of potential scientific studies on the lakes in the region, which itself is of great importance to understanding the earth systems. Development of the dataset is well justified and well designed. The dataset is comprehensive and contains many aspects of information on a large number of lakes over a long period of time (including time series data). Besides, potential users of the dataset would appreciate the distinction between full-lake-catchment and inter-lake-catchment statistics.

The only suggestion from the reviewer is to add a section to briefly discuss or highlight the uncertainties of such a dataset. For example, given that most of the environmental statistics were obtained from existing datasets (DEM, Land cover, climatic data, etc.), highlighting sources/magnitude of uncertainties of such datasets, and discussing how the uncertainties propagate to the developed TP lake-catchment dataset would be beneficial to future users of this dataset.

Overall, the reviewer thinks the dataset is scientifically sound (adding discussion on uncertainty is a plus) and presented in a very clear manner. This dataset could be of great interest to the earth scientific research communities.