

Earth Syst. Sci. Data Discuss., referee comment RC1
<https://doi.org/10.5194/essd-2022-9-RC1>, 2022
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Comment on **essd-2022-9**

Anonymous Referee #1

Referee comment on "Hydrography90m: a new high-resolution global hydrographic dataset" by Giuseppe Amatulli et al., Earth Syst. Sci. Data Discuss.,
<https://doi.org/10.5194/essd-2022-9-RC1>, 2022

This is a very well written paper, that describes the data science techniques to create a huge data set, as well as the characteristics of the many layers in the data set. It will be of interest to a huge number of users. My only qualm is that it is a feast of data, or perhaps trying to absorb the data through a fire hose, and the paper does not provide a lot of help on how to get started with the data for many potential users who will not be acquainted with the technical literature. I would hope the authors can create an introduction on how to get started using the data, and some practical suggestions on which versions to use (e.g. for all the different stream ordering algorithms).

- Is the article itself appropriate to support the publication of a data set? Yes, it describes a new data set.
- Is the data set significant – unique, useful, and complete? Yes, it includes just about everything you could want for drainage networks at 90 m scale, and they point to way to future improvements under way.
- Is the data set itself of high quality? Yes, based on an initial analysis.
- Is the data set publication, as submitted, of high quality? Yes
- By reading the article and downloading the data set, would you be able to understand and (re-)use the data set in the future? Yes, but I would like to see the authors make a "Hydrography90m for dummies" cheat sheet or cook book to help novice users get started on the data. It might not be appropriate for the journal, but could go on a web page, or at the data download site. While the U-Tube video is helpful, it is not what I would like to see.

There are three minor comments in the attached PDF.

Please also note the supplement to this comment:

<https://essd.copernicus.org/preprints/essd-2022-9/essd-2022-9-RC1-supplement.pdf>