

Earth Syst. Sci. Data Discuss., author comment AC4
<https://doi.org/10.5194/essd-2021-280-AC4>, 2022
© Author(s) 2022. This work is distributed under
the Creative Commons Attribution 4.0 License.

Reply on RC2

Hong-He Xu et al.

Author comment on "A multi-dimensional dataset of Ordovician to Silurian graptolite specimens for virtual examination, global correlation and shale gas exploration" by Hong-He Xu et al., Earth Syst. Sci. Data Discuss., <https://doi.org/10.5194/essd-2021-280-AC4>, 2022

Thank the reviewer for the comment.

The main problem comprises two aspects, the dataset quality and the tool. We made the revision accordingly. Furthermore, the whole text is revised in text and writing by colleagues. Hoping this version is much better.

The dataset is updated and the newly uploaded to share. A new DOI is given in the revision.

<https://doi.org/10.5281/zenodo.619494>

Now it is ensured that every specimen is shown with additional scale bar and that any measurement to the fossil is available.

The reviewer also stated that some images are not quite clear, or some images seem too empty. These are all problem of image quality. The new dataset, with more hi-resolution images and scale, some microscope images were selected for the case that the fossil itself is small but the whole specimens is quite large.

The tool, FSIDvis, is updated and more detailed instruction of this software is given.

The naming system or the method is explained in the text. Every image file is named after its unique number and labeled species name. When the specimens wad re-studied or transferred to another taxon, the file name does not reflect its taxonomic status. a brief revision record is given in the updated tool, FSIDvis. And I also suggest that readers or users of our dataset check our spreadsheet file for detailed information.