

Interactive comment on “Retrospect and prospect of a section-based stratigraphic and palaeontological database – Geobiodiversity Database” by Hong-He Xu et al.

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Thank Richard’s comment.

About the history of the GBDB data. As we mentioned previously this manuscript is not a review of databases or quantitative study methods of palaeontology and stratigraphy. It is only a description of data that GBDB has and is having, avoiding the duplicate parts in the previous publications. The PBDB’s work is emphasized in the revised manuscript and the related introduction is changed accordingly.

The ‘virtual section’ is not used any more. Here we want to state that some fossil

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collections were treated as a from a section. The explanation is given in the revised manuscript.

About the data structure. GBDB is section based and its data are compatible to fossil occurrences. In our updates, one can search and choose the data format and data result. This part is given more details and explanations.

There is more information about the opinion data in the revised manuscript.

GSSP had been thought to be included in the database as both records (existing data) and panorama images, but currently, only a few GSSP is included. The related work is still awaiting.

Only a bit of BGS data are accessible to researchers, for the sake of the agreement of the BGS and the GBDB. The same things occur about the data from the oil company.

There is much work about the fossil records of the terrestrial organism. The section is revised and much work is mentioned. Thank the two reviewers.

The title was change to 'Retrospective and prospects of the GBDB...'. According to reviewers' comments. It is not a review, but a data description and introduction.

About the big data. we admit the data volume of ours is relatively not big enough than other fields. We here just emphasized the change of the study method and are hoping to promote the data-driven study. Actually, using data of GBDB several had output several impressive scientific results.

Specific revisions are given in the revised manuscript.

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