

Response to editor and reviewers for
“Technical note: A global database of the stable isotopic ratios of meteoric and terrestrial waters”

by Annie L. Putman and Gabriel J. Bowen

The authors thank Dr. Tian and two anonymous reviewers for their helpful comments. A summary of comments is presented below along with the author's response in blue italics. All page and line numbers refer to the marked up version of the text.

Handling editor, Dr. Fuqiang Tian:

I agree with the Referees' comments. The manuscript is almost ready to publish. Please consider the minor comments by the Referee #2 and submit the revised manuscript. Thanks.

Thank you for the thorough review. Please find our response to Reviewer #2's comment below.

Reviewer 2:

The manuscript has been improved. Regarding the first issue I raised in the first review, I suggest adding the temperature of groundwater, spring and surface water (river, lake etc.) in the database for extending the application scope of the database. Water temperature is an important environment tracer. For example, it can be used to clarify the interaction between groundwater and surface water. It is also helpful to analyze the process of groundwater circulation.

We understand this reviewer's interest in having these specific ancillary data contained in the database. As the database is currently configured, we do not have this information stored. In my experiences organizing and processing water isotope data, water temperature information is not often recorded or made available by the study authors (exceptions include the USGS groundwater data and other similar agency data). Furthermore, we do not store other potentially useful quantities like pH, dissolved carbon carbon-14 age, general ion chemistry, etc.

We realize that not storing these ancillary data additional information may limit the utility of this data for specific projects. However, users are able (and encouraged) to make use of the provenance information that we provide to gather this ancillary data themselves, if their specific question requires this information and it is available.

As the Earth Science community continues to make progress in the ways we store and share data, there may be opportunities for further expansion of the types of data stored by the wiDB, or linking of this database with others that hold those types of information. However, at this time, adding this field (and populating it) in the database is beyond the scope of this work and we have made no changes to the manuscript.

List of relevant changes:

No changes were made to the manuscript.