

The manuscript entitles “SedDARE-IB: An open access repository of sediment data for Iberia and its continental margin” present a necessary compilation of the subsurface information available in Iberia. The authors have unified and merged different sources, which will be an unvaluable tool for improving the knowledge in a very complex tectonic area. The manuscript is properly written and organized. The quality of the figures is also adequate. However, some comments will be explained in detail. As a general comment for figures, the font size should be increased. I would suggest to the authors to include a map explaining the quality of the data in the different basins. Some additional explanation regarding the results of the modelling will be very illustrative.

I recommend publication with minor revisions.

Detailed comments:

L56: I would suggest Iberian geology rather than Iberia’s geology

Figure 1: Tagus Basin to be aligned with the text

Figure 1: I am not sure that figure a should be included. The reference appears also in the text, but I am not sure that this approximation enriched the manuscript.

L180: I understand that is difficult to summarize the complete geological history of the region, but nothing is stated regarding the Iberian Range in the text. However, the area is covered by the database.

L182: Iberian Range

L183: Toledo Mountains

L185: reference to Muñoz-Martín (1997) <https://hdl.handle.net/20.500.14352/62891>

Figure 3: Please, explains why Galicia margin is not included in the manuscript.

L248. Continental slope tilts

L370: why the authors do not use the seismic interpretation proposed by Muñoz-Martín and de Vicente (2013) <https://doi.org/10.1016/j.tecto.2012.04.003>

Section 3.1.3: a quality map of the information would enrich the manuscript and clarify to the potential users how reliable is the information in the different areas.

L394: data constrained by gravity and or magnetic data has more uncertainty. This type of information might be included in a quality map.

L405: basement depth estimated via magnetic models. This type of information might be included in a quality map.

L414: García-Lobón et al., 2020 is not in the references list

L420: TGS 2001 is not included in the reference list. Is this information publicly available?

Figure 7: very small. Color scale units are missing.

Figure 7: font size extremely small

Figure 7: some of the basins do not appears in the plot and those basins that appear are only mentioned. I believe a more elaborate explanation should be included in the text.

L524: S.I. units  $\text{W/m}\cdot\text{K}$

L526:  $3 \times 10^{10}$ ???

L526: S.I. units  $\mu\text{W/m}^3$