

Interactive comment on “Reassessing the lithosphere: SeisDARE, an open access seismic data repository” by Irene DeFelipe et al.

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GENERAL COMMENTS

I concur with the observations and support the comments made by Reviewer 1. This paper is a very good introduction of the SeisDARE repository, and the authors are to be congratulated for setting up the repository and introducing it to the community. While the paper includes quite a lot of information about the geological / tectonic settings and some main results of the various experiments, it lacks (also noted by Reviewer 1) in my view some further technical description of the datasets and the criteria applied to the datasets for inclusion in the repository. Thus I support the idea of Reviewer 1 to include a section on technical details / data set descriptions, quality assessment etc. -

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and perhaps also add this to the repository website.

SPECIFIC COMMENTS

The consistency between the article and the database is now given, the authors apparently removed the non-fitting datasets noted by Reviewer 1. The currently (Dec 2020) 21 datasets listed in <https://digital.csic.es/handle/10261/101879> correspond to the paper, as two were added late 2020, after the submission date. If possible, these two datasets could still be added to the paper for the final version (together with any other that might be included by then). As noted above, and in line with the comments from Reviewer 1, an additional section that further describes the technical details of the data sets, any quality check criteria, embargo policies, would be helpful.

TECHNICAL CORRECTIONS

In addition to what was noted by Reviewer 1, I just have one additional editorial remark: line 70/71 - the formulation 'The ESFRI in Earth Sciences is the European Plate Observation System...' is a bit misleading, as ESFRI is the Forum under whose guidance / governance ERICs are set up. It would be more correct to write that EPOS is the European Research Infrastructure Consortium for Earth Sciences established under ESFRI. Also note that EPOS now has a new URL <https://epos-eu.org>

COMMENTS TO THE REPOSITORY

From some spot-checks on the repository I noted a couple of items that could be considered (also in addition to what is already noted by Rev 1): - I am not sure what the purpose of the excel file with the 'list of files' is? These 'Description_ficheros_[experiment].xlsx' files just contain the list of files that are part of the dataset (and the filenames don't match the content of the excel file). - quite often the file 'Seismic_data_[experiment]_metadata.xlsx' is missing in the repositories (but is included in the Description_ficheros and Readme... files) - in the file table ('Files in this item') the Description field is usually empty, and the 'Format' field refers to the 'internal'

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format of the archive (e.g. a .rar file with trace records has Format entry 'SEGY/su'). While the data file format is an important information, this use of the field is inconsistent and may be confusing (in particular thinking of automatic access & processing). Maybe the internal format could be listed in the description field, and the Format field could specify the actual format of the downloadable file?

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