

Interactive comment on “A Climate Service for Ecologists: Sharing pre-processed EUROCORDEX Regional Climate Scenario Data using the eLTER Information System” by Susannah Rennie et al.

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We thank Bruno Petriccione and Annalisa Minelli for their thoughtful and helpful reviews.

Referee 1 – Bruno Petriccione We thank Bruno Petriccione for his very positive review. We are pleased that he feels that this work will be valuable for ecologists and for his positive comments about the data description.

Referee 1- Comment 1: “Only one technical coorection: delete "(" at row no, 139.”

We don't see a "(" at row 139. We think that this may be the "(" indicated by reviewer 2

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at row 129. This has been corrected, many thanks for highlighting it.

Referee 2 – Annalisa Minelli We thank Annalisa Minelli for her thoughtful review. We are pleased that she recognises the value of this work to LTER researchers. We agree that integrating these data within DEIMS-SDR will simplify things for LTER researchers. As the referee has highlighted we chose to focus on eight variables. These were chosen as they are the most commonly used variables to assess regional climate change, extremes and as input data to impact assessment and modelling. We recognise that other variables are available and that CORDEX data are available elsewhere, as referenced in the manuscript. We are pleased that Annalisa Minelli recognises the value of providing this as a bespoke data resource for LTER researchers who will not previously have had access to these data and hope that this will increase their capabilities for long term ecological research. We are gratified that the data description, our chosen temporal granularity and our comments about data uncertainty, as well as the choice of B2Share for data sharing, are clear and acceptable.

Referee 2- Comment 1: “The file naming is systematic and well documented, I only noticed that in the “.zip” files downloadable from B2SHARE there is a “see_disclaimer” between type of data (e.g. “RCM”) and DEIMS UUID. How including this statement in the zipped file name is relevant?”

As noted by the referee, we have implemented a strict naming convention for the files and included as much information within the file name itself (described in section 4 of the manuscript). We felt this was essential given the large number of files that are involved. We also wanted to be sure that the user would have access to technical information about each dataset, including limitations, uncertainties and constraints to using the data. This information is provided as a ‘disclaimer’ within each data granule and is provided in section 7 of this manuscript. We have highlighted this in the zip file to ensure that users can easily find this information and take it into account.

Referee 2- Comment 2: “A curiosity: it is already planned, as far as you know, a similar

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service for LTER sites outside Europe? The project aims are relevant and its wider implementation would be an added value to the research of many ecologists around the world.”

This work was funded as part of the eLTER project - through the European Union’s Horizon 2020 research and innovation programme. We have therefore concentrated on LTER sites in Europe. We agree that it would be useful to extend this to other LTER sites outside of Europe that are documented in DEIMS-SDR. We will also look for further funding opportunities to expand this data resource in content (more ensemble members and experiments) and functionality (bias adjustments). The main limitation for expanding the dataset beyond Europe lies in the availability of regional climate model data. Despite the fact that CORDEX is a global World Climate Research Programme effort with global coverage by different regional climate model domains, the availability of ensemble data varies and is especially high for the European model domain as used in the current dataset. Technically however, this would be feasible.

Referee 2- Comment 3: “There’s a “(” at row 129 that must be deleted.”

We thank the referee for highlighting this and have corrected it.

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