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Interactive comment on "Iberia01: A new gridded dataset of daily precipitation and temperatures over Iberia" *by* Sixto Herrera et al.

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The authors present an extensive, long-term dataset of temperature and precipitation in Iberia, based on a combination and extension of datasets from Spain and Portugal. While it is not dramatically new from previous data compilations by the senior author and his colleagues, they do introduce higher resolution and some new analysis. For instance, having elevation as a covariate in the interpolation procedure is a valuable improvement.

While incremental, this is a valuable dataset that can be used in a wide range of applications. I don't know of a network of observations this extensive, dense, and long-running anywhere in the world. While it is a shame to see the number of observations

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degrade in recent years, this is a valuable dataset that can be used for either weather or climate analyses. I can certainly see the value of this dataset as a test of the Cordex high-resolution simulations. The paper is well-written: clear and concise. I recommend publication with minor revisions.

Minor errors or clarifications

p.2,l.5, "higher longitudinal and latitudinal resolution", I think?

p.2,l.14, should be "has been analyzed"

Figure 1 caption, "ised" should be "used"

Table 1, RV50Yt - shouldn't this be the maximum daily 2-m air temperature?

p.6,l.8,"southwest to the northeast"

p.6,l.14, "with" the main differences being...

Discussion of Figure 2. It is hard to discern the differences. Difference maps would help to illustrate the main differences of interest between the datasets.

p.6,l.24, "all datasets show a clear overestimation" - why do you think this is? I don't understand why this would be for wet-day frequency, as it seems that this should come in a straightforward way from the dataset. How does interpolation or modelling introduce too many wet-days?

It would be interesting to see mean precipitation here as well, for each dataset.

p.9, conclusions - the authors frequently refer to Iberia02, but that is the next paper isn't it? Up to here and in the title this is presenting Iberia01.

p.9, ll.22-23 - I must misunderstand wet-days. I don't understand how the dry-days could be equivalent between datasets but the wet-days differ; I would have thought that wd = 365 - dd. This is likely just my deficiency, but others might also be confused here so some explanation would be good.

p.6,l.21, double negative - I think it should be "either" and "or"

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