

Interactive comment on “STEAD: A high-resolution daily gridded temperature dataset for Spain” by Roberto Serrano-Notivoli et al.

Anonymous Referee #1

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The manuscript entitled “STEAD: A high-resolution daily gridded temperature dataset for Spain” shows a very serious analysis of daily precipitation spatial and temporal behaviour in an area where rainfall has been widely studied.

I really enjoyed reading this work about the methodological procedure for generating a high resolution gridded dataset for temperatures in Spain. The paper is, overall, very good and very well written. The objectives proposed are carried out rigorously following a proper structure. Moreover, the discussion is very well developed and carries out a very interesting deepening about the implications of considering different criteria to develop the dataset. The results shown are very consistent.

I do really appreciate the exhaustive quality control over daily temperature data base on paired comparisons between observations and standardized predictions shown in

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section 3.3, as well as the consideration of the distance to the coast as a source of variation of the local models.

I think that it fits the scope of the journal and can be published as it is, only with very few corrections.

- p. 2 l. 24: “leads to high risks related to...” risks such as? - p. 5 l. 5-6: can you explain why you chose these thresholds or it is a subjective criteria? - p. 10 l. 2: “and” instead of “&”, the double condition is more understandable this way - p. 13: I suggest to move Table 1 to the previous page

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