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 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