

Interactive comment on “High-resolution analysis of 1 day extreme precipitation in Sicily” by M. Maugeri et al.

Anonymous Referee #2

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The manuscript presents a procedure to compute high resolution maps of daily precipitation extremes, including their uncertainties, from a dense network of rain station over Sicily.

In general the topic is important and of interest. The very detailed information provided in this manuscript on the procedure is potentially very helpful and can be followed in other regions where such data are available.

My main concern is the missing general scientific perspective of the study. Why there is a need in such analysis? have other studies addressed this problem (either in the Mediterranean region or in another region)? what are the innovative aspects of the presented study? how the results found in this work are compared to others? I strongly

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recommend adding this information in the introduction and discussion (which is currently does not exist) sections. If the manuscript becomes too long, some technical aspects can be put in appendix sections.

Another point that need further clarification is the stationarity of the series. The authors claim that only few stations present significant trends and therefore stationarity can be assumed, but some studies do claim for changes in precipitation extremes in the Mediterranean region. These studies should be mentioned and the authors should explain how they correspond to their finding.

Technical comment: Figure 11 - gray-scale images on the right are not clear.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 2247, 2015.