

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

M. Maugeri et al.

maurizio.maugeri@unimi.it

Received and published: 8 June 2015

The major issue raised by the referee #2 concerns the scientific perspective of the study described in the manuscript. As mentioned in the introductory parts of this work (e.g., lines 15–19 page 2248; lines 3–5 page 2251), the study is aimed at investigating in detail the exposure of a complex Mediterranean region to heavy precipitation events. The final purpose is to provide an operational tool in the form of high-resolution charts of the sensitivity of this region to the most destructive events, that can be of help for both risk assessment and long-term planning of the urban development. This, we believe, strongly motivates the need of this and similar analyses. Indeed, this work has been originally conceived in the framework of the EU FP7 Project ECLISE (see

C928

<http://www.eclise-project.eu/>) tailored to the climate services, which promoted to the use of scientifically based techniques for providing end results of interest for society and decision makers. From a purely scientific perspective, the innovative aspects of this study consist in combining well established EVT approaches with regression techniques for spatial interpolation at a high resolution. This is a rather innovative topic, that, to our knowledge, has been rarely addressed. All these aspects will be commented in more detail in the revised version and some references will be added. Furthermore, the discussion about trends in heavy precipitation over the Mediterranean basin (lines 22–28, page 2250) will be enlarged where possible.

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

C929