

Hydrol. Earth Syst. Sci. Discuss., 6, C1965–C1967, 2009

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Comment

Interactive comment on “Extracting statistical parameters of extreme precipitation from a NWP model” by J. Eliasson et al.

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1 General comment

This is an interesting paper. The results are considerably better than I would have expected beforehand for an 8x8 km grid. They have considerable practical value and indicate a line for further work that could be even more interesting.

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2 Specific comments

1. The authors might mention earlier in the paper that they are using uncorrected station precipitation. A sentence could be added regarding the likelihood that corrections would make much of a difference for annual maximum daily values. The recent work of Crochet on correction of precipitation measurements in Iceland might be referenced.
2. What are the 1990 and 2006 data sets? Explain better.
3. The comparison between M5 values derived from the 1990 and 2006 data sets on p. 4868 needs to be explained better. Are the periods partly overlapping? This would lead to smaller differences than for mutually exclusive periods.
4. Is “standard error” the correct term to use for RMS of differences? There are “errors” in both the stations M5 and the simulated M5 values. Their difference is not “error”, but an RMS value can be computed.
5. Is it correct to call the half of the 63% interquantile range an “RMS standard error” as done in table 3?
6. Figures 5 and 7 need to be improved. Some figures indicate zero precipitation over the ocean. Figure captions of these and other figures might be expanded to explain symbols and other aspects of the figures that are not self-explanatory.
7. Figure 8 can be omitted.
8. It might be interesting to show an xy-scatterplot of annual maxima for several stations with long series of measurements (MM5 versus station values). An xy-plot of M5 values derived from these data could then also be shown. This could serve as the basis for slightly more discussion about how the random distribution

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of the annual maximum values is reduced when the statistical M5 parameter is calculated.

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