

Interactive comment on “Trends in rainfall and temperature extremes in Morocco” by K. Khomsi et al.

Anonymous Referee #1

Received and published: 13 February 2015

The manuscript “Trends in rainfall and temperature extremes in Morocco” is focused on a standard analysis of time series from eight weather stations in Morocco. The authors should improve the manuscript by adding more details and rephrasing some parts (see the specific comments). For instance, Do all results refer to the full period of availability? If yes, I think the authors should analyse the available series also on a common time period. Moreover, the OLS approach could be replaced by the Theil-Sen estimator (see the specific comments). Finally, it would be worth to perform a change point analysis.

Specific Comments

1176, 18-19: This sentence is too generic. I suggest to modify it. 1177, 1-7: where

C53

do these numbers come from? Can the authors add a ref? 1177, 13-14: I suggest to rephrase. 1177, 16: interested. 1178, 4: there is no need of “longitudes”, “latitudes”. 1178, 8-9: I suggest to rephrase. 1179, 2: According to Fig. 1, there is only one station in Tensift while the area of Bouragreg has two stations but located along the borders. 1179, 22: Kuglitsch et al. 1179, 23: I would replace “datasets” with “series”. 1179, 22-23: Please clarify what you mean with elimination. 1180, 3-7: I suggest to rephrase. 1180, 10-17: Could the authors provide some details? How have discontinuities been considered? 1180, 20: from year XXXX to year XXXX. Please specify. 1181: Please provide details on the estimation period and method for the percentiles. 1182, 6-9: Since the estimated slopes are not significant, I would use the word “tendency” rather than “trend”. 1182, 12: What does “generalized” mean here? Also here I would replace the word “trend” with “tendency” 1183-4: Ditto. 1186, 28: Please clarify this link or rephrase the sentences.

Figure 2. Please improve the caption. Tables 2-7: I suggest, “Significant values (95% level) are denoted in bold”. Standard errors should be added. Since the lack of normality affects the estimated confidence intervals (especially for count series), the authors could consider to apply a different approach, e.g. Theil-Sen estimator.

Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., 3, 1175, 2015.

C54