

## ***Interactive comment on “Recent trends in daily temperature extremes over southern Montenegro (1951–2010)” by D. Burić et al.***

### **Anonymous Referee #1**

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This study deals with assessing recent trends in daily temperature extremes over southern Montenegro for the period 1951–2010. It is a short and clear study using well-defined a statistical test and methodology. There are, though, some improvements that need to be made.

<Major comments>: 1. There are several instances when it is mentioned that there was a ‘well-known climate shift in the late 1970s’. I would like to see some justification on that, even if this is taken from relevant studies. 2. A similar to my first comment applies to the explanation/justification of the trends found in this study. It would be interesting/useful to discuss what might have caused the trends identified. 3. Although this is a study of the recent trends in daily temperature extremes, it would be interesting to show a figure with the timeseries of the actual temperature (i.e. mean daily temper-

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ature) over the period of 60 years. However, this is up to the authors to implement or not.

<Minor comments>: page 5182, l.3: explain ETCCD l.11: "The two separately...." page 5183, l. 1: Rodriguez-Puebla et al., 2009 l. 6: Toreti and Desiato (2008) l. 9: the definition 'tropical nights' is used here and in one more instance, but it is not explained anywhere how this is defined. page 5184, l.22: "...a version of MASHv3.02 ..." page 5185, l.13: "..Vincent and Mekis, 2006)." l.26: "...estimation...." page 5186, l.12: "...local climate effects..." l.23: Could you provide some explanation for the variance between the two studies? page 5188, l.12: Could you elaborate slightly more on Tn90p? You mention global results, so give some reference on those. Table 1: Better use 2.0, 10.0 Table 3: Mention units (degrees Celsius?) Figure 2: the legend would better be "Tm in 2003" or "Tm in year 2003"

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