

## ***Interactive comment on* “Extreme precipitation and extreme streamflow in the Dongjiang River Basin in southern China” by W. Wang et al.**

**W. Wang et al.**

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We are grateful for the time of both the anonymous referee and the editor for reviewing the paper. Our thanks especially go to the editor for his detailed comments for improving the manuscript.

1. A paragraph about critical evaluation of the research results in the literature is included in Section 1.
2. In the present study, the MK test is applied to annual series of extreme indices whereas the KS, L and Q tests are applied to the distribution of daily precipitation amounts. Although the KS test, L-test and Q-test could be applied also to the distributions of annual extreme indices, the small data size (around 50 years in total, and only

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around 25 years if the data are split into two samples) makes their application quite un-reliable. Therefore, the KS, L and Q tests are applied to the distribution of daily precipitation data. The explanation is included in the revised version.

3. The usage history of the KS, L and Q tests in hydrology has been modified, and put in the first paragraph of Section 3.

4. Because the precipitation series are most widely been considered following the gamma distribution, we only considered the gamma distribution in the Monte Carlo analysis. But indeed, it would be interesting to see how sensitive the results are to the choice of distribution.

5. The first section in Discussions and conclusions is cut short and merged with the second section.

6. The contents are re-arranged slightly according to the suggestion of the editor. The argumentation for the use of the KS, L and Q tests on page 2337-2338 is moved to the Section 5, merged with paragraph 5 (now paragraph 4). The short introduction to Q-Q plot is put in one additional section 3.5.

7. An explanation of markers for precipitation and streamflow stations in Fig. 1 is included in the caption.

8. Linguistic flaws have been corrected as far as we can.

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