

Interactive comment on “Effects of climate change and human activities on runoff in the Nenjiang River Basin, Northeast China” by L. Q. Dong et al.

Anonymous Referee #1

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General comments: I am not convinced that the authors of this paper looked at climate change effects as the approaches used do not warrant that. From the definition of climate change which is a long-term change over 10 or more years, I have not seen this in this study. Apart from this, with climate change I would like to see scenarios of future projections. The results of this study are mainly climate variability and therefore the title of this paper should read; "Effects of climate variability and human activities on Runoff in the Nenjiang River Basin, Northeast China". There are so many grammatical errors in this paper. The authors refer to themselves as 'we' in the paper. For example page 11528, line 3, it states; Secondly, we applied..... This sentence should be rewritten as Secondly, the non-parametricand thedouble cumulative curve (DCC) were used to detect the change..... There are so many similar mistakes like these in the paper.

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Specific comments: On 3: Results and discussion; Line 7-9; Annual surface runoff from the entire basin averaged 138mm/yr fluctuating from 53mm/yr to 245mm/yr (Fig2). The precipitation had a significant change from 1956-2010, Fig 2 shows that there was a significant change in temperature which shows an increasing trend and not precipitation. The results of this study reveal that climate variability and not climate change is the main reason for runoff decline in 1975-1989.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 9, 11521, 2012.