

Interactive comment on “Assessing water resources in China using PRECIS projections and VIC model” by G. Q. Wang et al.

Anonymous Referee #1

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The topic is very interesting, and the method adopted is very innovative. It can be accepted with minor revisions. (1) The authors should go through the manuscript and make the language as native as possible. Also there are some grammatical errors, for example in lines 17 and 18 in Page 7294, “with and temperature increases were greatest during the 1990s” may be “and temperature increases were greatest during the 1990s”. More attention should be paid in Page 7295. (2) The words in Fig 8 are too small, and Fig 8 is not clear enough. Maybe redrawing is necessary. (3) There are many figures and tables in the manuscript. I suggest the author figure out clearly the exact place each figure or table being placed. (4) The authors should say something on why they choosing VIC model to simulate the physical exchange processes of water and energy in the soil, vegetation and atmosphere in a surface vegetation atmospheric

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transfer scheme. (5) The authors should explain the reason that NSE and RE were employed to calibrate the model. (6) In order to get the meteorological data at 2650 stations, the authors used a linear distance weighted interpolation method. We can say this method is very simple. How do you guarantee the accuracy of such kind of simplification? (7) From the manuscript, it can be said that the forcing data used for VIC model such as daily precipitation and air temperature are based on the simulated results from PRECIS. While the scale of grid cell of VIC model is not consistent with the one of PRECIS. What did you do to make sure the simulated results being suitable to application in VIC model?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 7293, 2011.

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