

Interactive comment on “Quantitative analysis on the ecological impact of large-scale water transfer project on water resource area in a changing environment” by D. H. Yan et al.

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Thanks for the referee’s useful suggestions and comments. China’s South-North Water Transfer Project (SNWTP), like other large water diversion projects worldwide, has been receiving much attention. A research project (Assessment on the Ecological and Environmental impact of the Western Route of SNWTP on the Water-output Area and Comprehensive Regulation Technologies, Grant Agreement No.: 2006BAB04A08) has been started by the Ministry of Science and Technology of the People’s Republic of China since 2006. This project was aiming at giving some quantitative analysis on

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the ecological impact of large-scale water transfer project on water resource area in a changing environment, and finally presenting reasonable eco-hydrological regulation proposals. The construction of the modeling and analysis platform is a core component, basing on which the quantitative analysis are conducted. Therefore, a special subject is set up in the project for the development of the climate-hydrology-ecology coupled model. However, the present paper focuses on the main findings with regard to the ecological and environmental impact of the water transfer project. And the model part is not introduced in detail for the sake of saving space. According the referee's kind suggestion, we will try to give more details about the interesting parts of the model, e.g., the validation, in a revised version of the manuscript. In addition, proper communication of the results gets lost in the manuscript. We will make a major revision in the discussion part of the paper in order to make it more readable and the comments will be incorporated into the revised paper to clarify the issues raised. The writing style maybe a big problem in the manuscript written by non-English speaking authors, and we will try our best to avoid grammatical errors and get some skilled people to polish the English.

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