

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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Firstly, we are very grateful for the anonymous referee’s helpful comments and elaborate suggestions. Frankly speaking, the model proposed in this paper is robust in modeling the terrestrial ecosystems rather than the aquatic ecosystems. According to some field investigations, we find that the aquatic ecosystem has a relatively simple composition and there is hardly any sensitive species in the water resources area. Therefore, the water transfer project may have subdued effects in the aquatic ecosystem which is not our major concern in the design of the modeling platform. The impact

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of the project on the aquatic ecosystems (e.g., Fish habitats and life cycle) will be revealed by the results of quantitative evaluation on typical water-reduction river reaches. However, proper communication of the results gets lost in the present manuscript. We agree with the referee’s comments on this point, and will pay a special attention to the discussion of some interesting and important results. We will re-organize the paper and put model performance in the result section. The referee’s suggestions with regard to other special problems (e.g., the introduction of the basic information on the study area, improper use of tables and figures, writing style problems.) will be adopted in a revised paper. In addition, we will consider changing the title to make sure that it conforms to the content of the paper.

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