

Interactive comment on “Responses of snowmelt runoff to climatic change in an inland river basin, Northwestern China, over the past 50a” by J. Wang et al.

J. Wang et al.

wjian@lzb.ac.cn

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Snow Water Equivalent is important but not simulated directly in SRM. Snow cover area (SCA) is the most important factor in SRM model. Snowmelt was computed utilizing degree-day factor and SCA depletion. Some researches had proved that the effectiveness of SRM is equivalent with some detailed physical based model in runoff simulation. If there are enough meteorological and hydrological data, physical snow model is the better choice; however, SRM is relevant choice in an ungauged Mountainous Watershed such as Heihe river basin.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 493, 2010.

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