

Interactive comment on “The effect of Three Gorges Dam and rainfall on summer flow risk over Yangtze River Basin” by Zhenkuan Su et al.

Anonymous Referee #2

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This paper consider the relationship between rainfall from 136 weather stations and streamflow from 5 hydrological stations of Yangtze river, and then develop line models of two forecasting options with canonical correlation analysis. However, the runoff process of Yangtze river is a very complex process, should fully consider the respects of precipitation, evaporation, infiltration, underlying surface, groundwater and the control of reservoirs and lakes. It can't be simplified as a linear relationship. Besides that, the risk analysis of the dam running is not deep enough and not quantified. It is lack of theoretical analysis. The conclusions of the paper is not sufficient and reasonable. Therefore, I suggest to reject this paper.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., doi:10.5194/hess-2017-159, 2017.