

Interactive comment on “Why is the Arkavathy River drying? A multiple hypothesis approach in a data scarce region” by V. Srinivasan et al.

Anonymous Referee #5

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The authors use a multiple hypothesis approach to investigate the main factors contributing to the decrease in flows to the TG Halli Reservoir. The multi-hypothesis approach is an innovative way towards hydrologic problem solving that identified the dominant drivers contributing to the observed decrease. Specifically, groundwater pumping and eucalyptus plantation were identified as the two strongest controls. I enjoyed reading the paper. I only have some minor comments:

- I would hesitate to blame one model SWAT for the developing worlds modeling woes. SWAT is used as extensively in the developed world as it is in the developing world, and often in regions ignoring groundwater surface water interactions. The problem that the authors identify is valid, and due to the complexities in using the coupled groundwater surface water models, they are more infrequently used. - The paper would benefit from

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some compression – mostly the introduction and section 2.3.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 25, 2015.