

Interactive comment on “An integrated uncertainty and ensemble-based data assimilation approach for improved operational streamflow predictions” by M. He et al.

Anonymous Referee #1

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This paper presents a procedure that takes parameter uncertainty information into account when assimilating snow water equivalent observations in snow/rainfall-runoff hydrologic model simulations. The authors concluded that the integrated approach (as called by the authors) is superior in producing streamflow simulations, when compared to single deterministic simulation using default parameters, simulation that uses calibrated parameters, ensemble simulations from EnsKF. I probably agree that the approach seems to be useful. If I want to find a flaw in the paper, it is related to the exact details how ISURF and EnsKF are linked together as an integrated system. Maybe a flowchart would give a clear picture of the coupling.

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Overall I think the paper can be accepted after addressing my point above.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 7709, 2011.

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