Hydrology and Earth System Sciences Discussions

Interactive comment on "Accounting for seasonality in a soil moisture change detection algorithm for ASAR Wide Swath time series" *by* J. Van doninck et al.

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Received and published: 4 January 2012

This paper is well written. The application of change detection algorithms shows a high potential for operational estimations, particularly with SENTINEL1. The authors discuss different options for the application of the proposed approach, particularly concerning vegetation cover effect on radar signal normalisation and also on radar signal sensitivity to soil moisture. Combination of radar signals with other auxiliary optical data seems very useful to analyse this question. I recommend publishing the paper after some minor revisions. Minor comments: 1) Is there an error in equation (10)? 2)

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Authors do comparisons for coarse resolution with AMSR-E, why not ASCAT/METOP and ERS/WSC Wien products based on approximately the same methodology?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 8, 10333, 2011.