

Interactive comment on “Analysis of surface and root-zone soil moisture dynamics with ERS scatterometer and the hydrometeorological model SAFRAN-ISBA-MODCOU at Grand Morin watershed (France)” by T. Paris Anguela et al.

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The authors of this paper would like to thank Referee 2 for the constructive and helpful comments and suggestions of improvement of the manuscript. The sequence of our response follows the points made in the review comments.

-We will add some literature referencing in the introduction, p.1904 lines 25 to p.1905 line 2 and p. 1905 line 4.

-Page 1908, section 2.2: SIM models works in an operational way for all France since

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2003, but our study is one of the first's studies focusing on comparison of soil moisture product. As you know, the difficulty is to have long time series of soil moisture data to compare simulated data with. Recently Rüdiger et al. (2008) compared different soil moisture products over France, validated against one in-situ watershed. Nevertheless, more work has to be done in this direction.

-Page 1910, line 23: the ERS and SIM products are delivered by Vienna University of Technology and Météo-France, respectively. Our aim is to compare these two products like they are delivered and to see if they are able to represent the soil moisture in our particular watershed. We do not have the aim or possibility to modify these products (e.g. different settings of parameter T). We investigated the behaviour of the datasets, and in case of possible inconsistencies tried to identify possible error sources or give incentives for future adaptations.

Rüdiger, C., Calvet, J.C., Gruhier, C., Holmes, T., de Jeu, T. and Wagner, W., 2008, An Intercomparison of ERS-Scat and AMSRE Soil Moisture Observations with Model Simulations over France, J. Hydrometeor. (accepted).

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5, S1270–S1271, 2008

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