

## ***Interactive comment on “The impact on the surface climatology from changing the land surface scheme in the ACCESS(v1.0/1.1) climate model” by Eva A. Kowalczyk et al.***

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Received and published: 2 June 2016

To follow-up the request from reviewer 1 for significance testing, we have now also explored the use of the modified t-test (Zwiers and von Storch, 1995). This accounts for temporal correlation and the relatively small sample size which we have available (~20 years). Compared to the standard t-test, the modified t-test generally gives less widespread areas of significance, particularly for the model-model differences in northern winter. Based on this new testing, we propose showing significance stippling for both the model-ERAi temperature biases and the model-model differences in Fig 4, as these are the critical results that we are trying to explain. Since the model-model differences shown in the remainder of the paper are primarily for explaining the tem-

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perature differences, we feel that it is not important to include the t-test stippling on those figures.

Zwiers, F. W. and von Storch, H.: Taking Serial Correlation in Account in Tests of the Mean, *J. Climate*, 8, 336-351, 1995.

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Interactive comment on Geosci. Model Dev. Discuss., doi:10.5194/gmd-2016-35, 2016.

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