

Interactive comment on “SimSphere model sensitivity analysis towards establishing its use for deriving key parameters characterising land surface interactions” by G. P. Petropoulos et al.

G. P. Petropoulos et al.

gep9@aber.ac.uk

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REVIEWER 1: The paper is in like with the journal scope. It is clear and well presented. The steps forward the state of art are properly described as the results as well. We minor comments are highlighted on pdf file.

R1C1: page 3 Introduction: line 2....different components. Please, add an example. ANS: We have added in the sentence “(lithosphere hydrosphere, the biosphere and atmosphere)”.

R1C2: page 11 session 4 , line 16:Roughness values above 2.00 were rare.... Please give an example or be more specific. ANS: We indeed meant ot write “above
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1.0”, which is an even more strict criterion. We added some example as well, as requested. So, the sentence is now “Roughness values above 1.0 were rare (eg. for were vegetation height and surface soil moisture availability and for were aspect, fractional vegetation cover, vegetation height and surface moisture availability).”

R1C3:page 13 session 4.2.1 line 10.... also important... ->relevant ANS: Change implemented, as suggested.

R1C4: We recommend the paper for publication. Regards ANS: Thank you for your time in considering our work for publication; we are pleased with your decision.

Interactive comment on Geosci. Model Dev. Discuss., 7, 1, 2014.