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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Physical pedotransfer functions to compute saturated hydraulic conductivity from bimodal characteristic curves for a range of New Zealand soils" *by* Joseph Alexander Paul Pollacco et al.

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Dear Prof. Nunzio Romano,

We would like to express, our gratitude for your efforts for organizing the review of our article: Physical Pedotransfer Functions To Compute Saturated Hydraulic Conductivity From Bimodal Characteristic Curves For A Range Of New Zealand Soils. We really appreciate your positive evaluation, and the feedback that you find our research interesting and valuable. We also wish to acknowledge the time and quality of Reviewer 1 and 3. In the revised version of the paper we employed the following major modifica-

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Discussion paper

tions:

1) We changed the title of the manuscript from “Physical pedotransfer functions to compute saturated hydraulic conductivity from bimodal characteristic curves for a range of New Zealand soils” to “Saturated hydraulic conductivity model computed from bimodal water retention curves for a range of New Zealand soils” to reflect that the developed Ks model is not a pedotransfer function but a Ks model. We also made some few changes in the introduction to reflect the change of the title.

2) We rewrote section 4.1. Measurement of physical soil properties where we provided more emphasis on the measurement method and removed details of methods used to sample the data which did not add value to the paper.

3) Provided better explanation of the relationship between Hmac and $\mathrm{hm}_{m}ac(Eq.15)$.

4) Improved the quality of the equations.

Yours sincerely,

Joseph Alexander Paul Pollacco, Trevor Webb, Stephen McNeill, Wei Hu, Sam Carrick, Allan Hewitt, Linda Lilburne

Please also note the supplement to this comment:
http://www.hydrol-earth-syst-sci-discuss.net/hess-2016-636/hess-2016-636-AC1-supplement.pdf

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