Hydrol. Earth Syst. Sci. Discuss.,
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Hydrology and Earth System Sciences
Discussions

Interactive comment on "Effects of spatial resolution of terrain models on modelled discharge and soil loss in Oaxaca, Mexico" *by* Sergio Naranjo et al.

Anonymous Referee #2

Received and published: 7 July 2021

Well written, well laid out research questions and objectives. Topical subject as use of UAVs increases, but perhaps a little out of scope for HESS. Appropriate field approach and data collection and adequately described. Figures OK, but I suggest thicker lines to show the study unit more clearly (Figure 2)

Quite a big difference in resolution between the UAV approach and information from Modflow. Although only used to set initial condition for soil moisture, it is something stands out for me.

Interesting discussion on the bimodal hydrographs and the temporal resolution of the

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Discussion paper

model allowing this to be assessed. I would like to see some reflection of the temporal resulution aspect. 1 min resolution was fixed, but increasing temporal resolution could also be a way of reducing required computer storage and processing time. Isn't there a balance between spatial and temporal resulution to be found?

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2020-641, 2020.

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