



Interactive comment on “Assessing the quality of Digital Elevation Models obtained from mini-Unmanned Aerial Vehicles for overland flow modelling in urban areas” by J. P. Leitao et al.

Anonymous Referee #4

Received and published: 16 July 2015

Dear authors, the paper is interesting and focusses a new view to an old Topic - collecting data. Nevertheless I have a few comments: page 1, line 2: You should explain traditional sources of DEM. The traditional way is changing rapidly 5637 line 5: I don't agree with the vertical accuracy with a standard Deviation of 7,5 cm for a manhole 5637, line 8: it is not the reality that only for large overland flow events the runoff flows over sidewalks. This could be in a traditional assumption, that the manholes and inlets are flooded and the runoff is mainly on the streets. In the real world it Comes from everywhere line 18: more or less the same comment as before. It assumes that the runoff mainly occurs on the street page 5644 line 18: you should not compare na-

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tionwide available DEM with a one which is collected by an UAV. There are also other possible solutions. 5647, line 15: why don't you use a hydraulic model instead of delineation the flow paths. It would be a bit more correct page 5649: line 15: same as before page 5649 line 22: they deliver basic data and no satisfactory results page 5650 line 28: the problem of the presence of Vegetation and trees is in any Approach present 5651 line 4 ff: once again the trees..., beside UAV there are other Solutions possible, which deliver more accurate data mainly on the streets and are also very flexible

Thats it for today - more details may follow

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 12, 5629, 2015.

HESSD

12, C2617–C2618, 2015

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