

Interactive comment on “Flow resistance of vegetated oblique weir-like obstacles during high water stages” by S. Ali and W. S. J. Uijtewaal

Anonymous Referee #1

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GENERAL COMMENT

The paper is well written, however, there are minor grammatical and spelling errors.

P5492 L1: "At high water stages obstacles in the flood plains of a river contribute to the flow resistance and hamper the conveyance capacity" With respect to submerged obstacles (surface roughness), I would expect the effect of the obstacles to be less for high water level flows. I suppose you mean elevated vegetation (such as trees), this may be clarified. P5509 L1: The Villemonte (1947) relationship may be displayed as an equation for clarity

MINOR COMMENTS

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P5492 L16: over-topped instead of "overflowed" P5492 L20: vegetated areas instead of "... in cases with vegetation growing on top" P5493 L7: The statement "in his report (in German)" is rather unnecessary; this information would be better displayed in the bibliographic section. P5493 L9-20: It is suggested that this section of the introduction may be improved. It may be in the form of a discussion, rather than just stating what the previous authors have done. P5504 L4: "... head loss disappears..." is rather strong, consider using the statement "tends to zero" P5505 L3-5: the grammar could be improved. P5505 L11: the word "bigger" could be replaced with either greater or larger P5505 L17: the term "the gravels" could be replaced with "gravel of diameter" P5505 L19-20: the statement "The water for the experiments was taken from and returned to the main circulation system of in the laboratory" is rather trivial and may be omitted. P5506 L15: consider using "For supercritical flows" rather than "With supercritical flows" P5506 L16-19: the paragraph should be rewritten to improve the clarity. P5507 L10: the term LDA could be elaborated. P5507 L22: without instead of " ... with out ..." P5508 L4: from instead of "... between the form top to ..." P5509 L24: consider using the statement "For low downstream water levels ..." instead of "For small downstream" P5510 L1: "compared to" instead of "compare to" P5510 L20: consider using the statement "...submergence is lower than 0.8 ..." P5511 L2: consider using the statement "...in some cases..." instead of " ... in some case ..." P5511 L5: did you mean to say " ... regions that are not in contact with the walls." P5511 L14: consider using lower rather than smaller. P5513 L15: consider using "... have been obtained." given that this is reported speech of what was already achieved. P5513 L20: consider changing the statement to "For low downstream water levels, there ..."

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