Hydrol. Earth Syst. Sci. Discuss., 7, C2759-C2761, 2010

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# **HESSD**

7, C2759-C2761, 2010

Interactive Comment

# Interactive comment on "Process-based distributed modeling approach for analysis of sediment dynamics in a river basin" by M. A. Kabir et al.

# **Anonymous Referee #2**

Received and published: 7 October 2010

### **Overall Comments**

This paper describes a relatively simple but effective methodology to analyse sediment dynamics in a river basin. As the model has been successfully tested two different climate conditions, I believe it would be a useful numerical tool for the potential application in different regions of the world. As submitted, there are some minor issues that need to be addressed before it could be ready for publication. I recommend accepting this paper with MINOR edits.

Comments:

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C3: Page-5697, Line- 9 1-h time step for 500 m grids seems large. Please check Courant condition carefully. C3: Page-5697, Line- 24 Add a reference that justifies using constant runoff coefficient.

Comments on Tables Table 2: It is actually not needed. Instead you can refer the paper that describes model development. Table 3: Same to previous comment. Table 5: Use sentence case for the title of the Table Table 6: 4th column: replace Manning with Manning's n and replace (n) with (-) Table 7: This information can be described in the text. Table 8: This information can be described in the text

Comments on Figure 3: You can refer the relevant paper instead of adding the Figure. Figure 4: Same to previous comment. Figure 7: Rainfall bar chart at the top is not needed. Figure 8: You have used n for Mannig's n. Here you can use N Figure 18: Rainfall bar chart at the top is not needed. Figure 19: Rainfall bar chart at the top is not needed.

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Please use uniform font for axis title and decimal point for all relevant graphs.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 7, 5685, 2010.

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