

Auxiliary material for Paper 2012WR013074R

Title: Modeling erosion and sedimentation coupled with hydrological and overland flow processes at the watershed scale

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[Journal Reference: TBD]

Introduction

This auxiliary material provides additional figures for the manuscript.

1. Figure S1: The simulated longitudinal distributions of sediment concentration (the top panel) and the fractions of deposited mass of each sediment class “*i*” relative to the total mass (the bottom panel) for the simulation case 2 (see Section 4.1). Each column panel represents distributions for a given simulation time, i.e., 1, 5, 10, and 50 min.

2. Figure S2: The simulated spatial distributions of sediment concentrations (the top panel) and the deposited masses (bottom panels) of each sediment class for the overland induced erosion problem. Each column panel represents distributions at a given time, i.e., 10, 20, 30, 40 sec.