Supplementary Materials

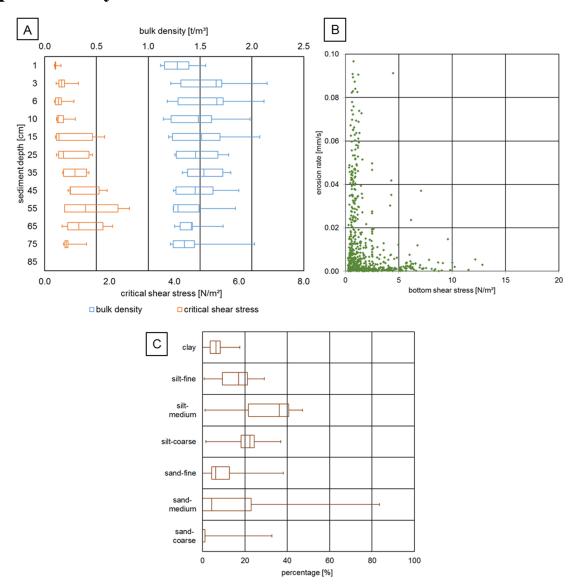


Figure S1. (**A**) Box-plots of measured critical shear stresses and bulk densities including all sampling locations of the River Elbe; (**B**) Measured erosion rates for a stepwise increase of bottom shear stresses including all sampling locations of the River Elbe; (**C**) Depth-averaged particle size distributions including all sampling locations of the River Elbe.

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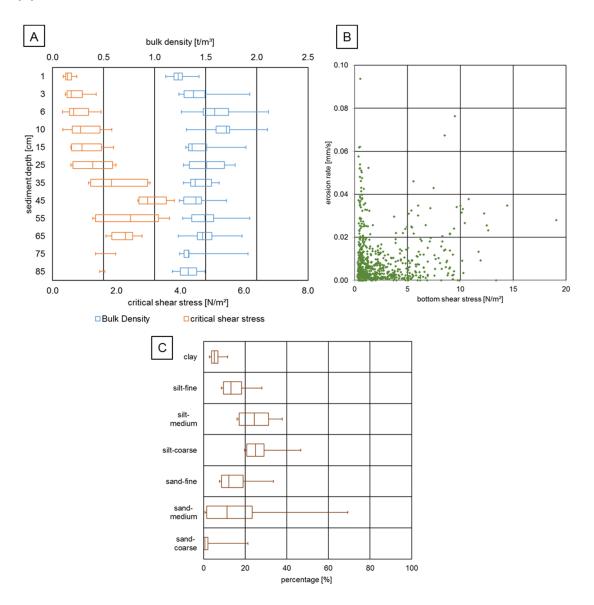


Figure S2. (**A**) Box-plots of measured critical shear stresses and bulk densities including all sampling locations in the catchment of the River Saale; (**B**) Measured erosion rates for a stepwise increase of bottom shear stresses including all sampling locations in the catchment of the River Saale; (**C**) Depth-averaged particle size distributions including all sampling locations in the catchment of the River Saale.

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