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## **Flume experiments on gravel bed load transport in unsteady flow – preliminary results**

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### **ABSTRACT**

This paper presents settings and results of laboratory experiments on bed load transport. Experiments were performed for unsteady hydrographs and for steady flow conditions. Continuous measurements of transported mass and flow rate reveals a clockwise hysteresis of bed load rate vs. flow rate. The comparison between bed load rate in unsteady and steady flow shows that it depends to large extent on sediment supply. The results are discussed in the light of variable sediment supply, and suggestions for procedure of further experiments are presented.