



## **Sedimentary structures from different proglacial glaciofluvial settings in Lithuania**

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Proglacial glaciofluvial sedimentation during old continental glaciations created a wide range of landforms. However, proglacial deposit sequences are not always well expressed in form of typical landforms. In that case, and also when we are dealing with buried deposits, we face difficulties to recognise their origin or conditions of sedimentation. Sediment bedding structures vary considerably depending on the sedimentation conditions; consequently, they are most helpful in this case. The sediment bedding structures were studied in number of proglacial sediment sequences of different origin in Lithuania to gain the most characteristic complexes of sedimentary structures from particular conditions of sedimentation. In order to analyse the successions of bedforms created in different settings of proglacial glaciofluvial sedimentation the sedimentary models for particular sites in sandur, meltwater streamway and glaciofluvial delta were built. Trough, tabular and planar cross bedding and climbing-ripple cross-lamination is characteristic of proglacial glaciofluvial sediment sequences. However, distinct complexes of bedding structures were recognised for specific conditions of sedimentation in particular sites. This study was financed by the Research Council of Lithuania (No. LEK- 03/2010).