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Bed shear stress influence on local scour geometry properties

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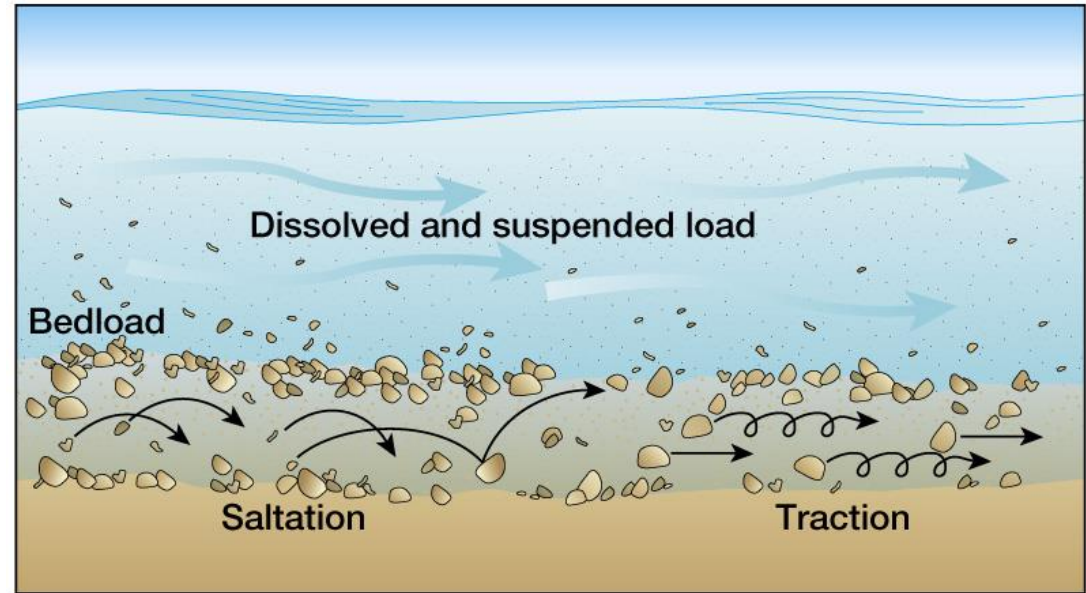
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Numerous approaches in sediment mobility studies highlighted the key meaning of **channel roughness**, which results from bed material granulation, but also from various bed forms presence, caused by continuous sediment transport.

Those forms are strictly connected with intensity of particles transport and they eventuate from bed shear stress.



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Experimental data comprise local scour geometric dimensions research in manifold variants of lengthwise development of the laboratory flume in various hydraulic properties, both in “**clear-water**” and “**live-bed**” conditions of sediment movement.

The influence of bed shear stress downstream the model on scour hole dimensions of water structure is investigated, as one of the key factors, that impacts on sediment transport intensity.

