



Measuring near bed sediment transport processes using sound

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The processes of near-bed sediment transport can be thought of as dynamic feedback interactions between the bed, the flow and the mobile sediments. In recent years acoustic instrumentation has been increasingly used to measure, co-located and simultaneously, the three components of this inter-related sediments triad. Acoustics has gained this role because of its capability to profile non-intrusively, with high temporal and spatial resolution, the three components. Here an overview of the advances in using acoustic to measure near bed sediment transport processes is presented.