
**Hydrometric determinations —
Measurement of suspended sediment
transport in tidal channels**

*Déterminations hydrométriques — Mesurage du transport solide dans les
canaux à marée*

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Foreword

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International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 11329 was prepared by Technical Committee ISO/TC 113, *Hydrometric determinations*, Subcommittee SC 6, *Sediment transport*.

This second edition cancels and replaces the first edition (ISO 11329:1998), which has been technically revised.

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Introduction

Estuaries and creeks have become regions of major developments pertaining to port and harbour facilities, navigation, reclamation and effluent disposal. Human interference with water bodies, for example, providing navigational channels, installing major or minor structures and reclaiming land, need thorough examination of their impact on morphological changes, stability of banks and channels, the consequences of capital and maintenance dredging, and the selection of disposal grounds. For these purposes, it is necessary to estimate the suspended sediment transport rates in tidal channels, which can be based on data on morphological characteristics of the channel, flowrates and the corresponding suspended sediment concentration.

In comparison to the situation in unidirectional flow, the flow as well as sediment concentration at different locations along tidal channels are much more complex. The salt water flow from the sea at one end and the fresh water flow from the river at the other end are responsible for spatial and temporal variations in water and sediment movement in tidal channels. When measuring the flowrate and suspended sediment concentrations for estimating sediment transport rates, these factors need to be considered.

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