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Drawing up the first edition of the comprehensive sediment management plan of the Tenryu River Basin: on how to predict, control, monitor and evaluate of the index values such as height of the river bed

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Abstract

A big project of sediment management is planned at the Sakuma Dam in a mid-stream section of the Tenryu River. A large impact on the downstream reaches of the dam and coastal areas by the sediment management measures is expected. To cope with such changes in the downstream, a logical prediction, management and monitoring of the changes in bed height as an indicator for quantitative evaluation of the impact are required. At the same time, the original plan should be revised in a suitable manner according to the results of the evaluation. Such Adaptive Sediment Management Strategy is quite important in situations with a shortage of knowledge on various points of view. The main purpose of this study is to describe detail issues and processes for establishing the first version of integrated sediment management plan in the Tenryu River Basin.

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