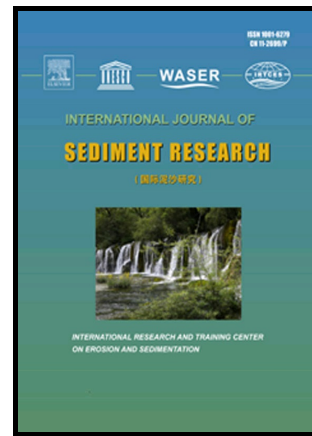


Author's Accepted Manuscript

Countermeasure of river bend scour using a combination of submerged vanes and riprap

Piya Biswas, Abdul Karim Barbhuiya



www.elsevier.com/locate/ijsrc

PII: S1001-6279(17)30172-5
DOI: <https://doi.org/10.1016/j.ijsrc.2018.04.002>
Reference: IJSRC171

To appear in: *International Journal of Sediment Research*

Received date: 16 June 2017
Revised date: 7 February 2018
Accepted date: 9 April 2018

Cite this article as: Piya Biswas and Abdul Karim Barbhuiya, Countermeasure of river bend scour using a combination of submerged vanes and riprap, *International Journal of Sediment Research*, <https://doi.org/10.1016/j.ijsrc.2018.04.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Countermeasure of river bend scour using a combination of submerged vanes and riprap

Countermeasure of river bend scour using a combination of submerged vanes and riprap

Piya Biswas^{a,*}, Abdul Karim Barbhuiya^b

^aDepartment of Civil Engineering, National Institute of Technology, Silchar, Assam-788010, India (corresponding author). E-mail: pia.biswas06@gmail.com

^bDepartment of Civil Engineering, National Institute of Technology, Silchar, Assam-788010, India. E-mail: akbarbhuiya@yahoo.com

Abstract

A series of laboratory flume experiments were done in a large-scale 180° bend with non-cohesive sediment to find optimal or effective protection works at a bend. Detailed study of the scour and flow field dynamics with and without protection works was done. Spatially dense, high frequency velocity data were collected and analyzed to describe the pattern and magnitude of three-dimensional (3D) velocity throughout the bend. Characterizing the role of flow field dynamics on the pattern of deposition and erosion through experimental

متن کامل مقاله

دریافت فوری ←

ISIArticles

مرجع مقالات تخصصی ایران

- ✓ امکان دانلود نسخه تمام متن مقالات انگلیسی
- ✓ امکان دانلود نسخه ترجمه شده مقالات
- ✓ پذیرش سفارش ترجمه تخصصی
- ✓ امکان جستجو در آرشیو جامعی از صدها موضوع و هزاران مقاله
- ✓ امکان دانلود رایگان ۲ صفحه اول هر مقاله
- ✓ امکان پرداخت اینترنتی با کلیه کارت های عضو شتاب
- ✓ دانلود فوری مقاله پس از پرداخت آنلاین
- ✓ پشتیبانی کامل خرید با بهره مندی از سیستم هوشمند رهگیری سفارشات