

[1]魏炳乾,夏双喜,早川博.渚滑川河口拦门沙演变特性[J].自然灾害学报,2007,02:64-69.

WEI Bing-qian,XIA Shuang-xi,Hiroshi HAYAKAWA.Evolutionary characteristics of river mouth bar in the Shokotsu River[J].,2007,02:64-69.

[点击复制](#)

渚滑川河口拦门沙演变特性 [\(PDF\)](#)

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2007年02期 页码: 64-69 栏目: 出版日期: 1900-01-01

Title: Evolutionary characteristics of river mouth bar in the Shokotsu River

作者: [魏炳乾¹](#); [夏双喜¹](#); [早川博²](#)

1. 西安理工大学水电学院, 陕西西安710048;
2. 北见工业大学土木开发工学科, 日本北见090-8507

Author(s): [WEI Bing-qian¹](#); [XIA Shuang-xi¹](#); [Hiroshi HAYAKAWA²](#)

1. Xi'an University of Technology, Xi'an 710048, China;
2. Kitami Institute of Technology, Kitami 090-8507, Japan

关键词: [渚滑川](#); [河口](#); [拦门沙](#); [演变](#)

Keywords: [Shokotsu River](#); [river mouth](#); [bar](#); [evolution](#)

分类号: X43;P332.5

DOI: -

文献标识码: -

摘要: 河口拦门沙的存在可导致径流出不畅,并能引起一系列的河口生态及环境问题。特别是弯曲线型河口,在波浪流、河川径流及弯道副流的共同作用下,拦门沙的形成及演变将更为复杂。通过对日本渚滑川河口多次实地调查资料的分析,揭示了渚滑川河口拦门沙的演变特性。结果表明:渚滑川河口修筑防波堤后,在东北方向的海洋入射波作用下,拦门沙由河口右岸发育并向左岸逐渐延伸扩展,其河水流动也相应由右岸偏向左岸一侧;不论河口有无拦门沙,3次洪水在右岸的最大冲深均稳定在-6m高程,且河床横剖面的形状基本不变,即汛期时该河口河床形状已达平衡状态。

Abstract: The bar in a river mouth is formed depending on the balance between river dynamics and ocean dynamics,when the river channel curves in a river mouth,the bar maybe evolute most complexly due to channels curvature.In this paper,by analyzing a great deal of data obtained insite,the evolutionary characteristics of the Shokotsu River mouth bar were clarified as:(1) due to the coupling action of the bulwark built in the mouth of Shokotsu River and incident wave with the direction of north-east,a river mouth bar occurs in the right bank originally,and gradually develops and extends tow ard left bank,accordingly the direction of the water flow varies from the right to left bank;(2)no matter river mouth bar exists or not, the elevation of the river bed keeps to a level of 6m after 3 times flood run out, that is,the bed form at the Shokotsu River mouth has been balanced between scouring and sedmient in flood season.

[导航/NAVIGATE](#)

[本期目录/Table of Contents](#)

[下一篇/Next Article](#)

[上一篇/Previous Article](#)

[工具/TOOLS](#)

[引用本文的文章/References](#)

[下载 PDF/Download PDF\(1656KB\)](#)

[立即打印本文/Print Now](#)

[推荐给朋友/Recommend](#)

[统计/STATISTICS](#)

[摘要浏览/Viewed](#) 32

[全文下载/Downloads](#) 16

[评论/Comments](#)



- [1] HAN EISH I,IMORIMOTO Y,SAMUKAWA E.Study on the bulwark of the Shokotsu River mouth[C]//Proceed ings of the Hokkaido Development Bureau on Technology Japanese,1987,30:489-494.
- [2] NAKAIN,SATO K,SUGAWARA H.Annual report of ocean wavem easurement on Japanese ports and harbors(NOW PHA S1998)[R]//Technical Reference on Japanese Ports and Harbors,2000,951:178-183.
- [3] 于东生,田淳,严以新.长江口水流运动特性分析[J].水运工程,2004,360(1):49-53.

备注/Memo: 收稿日期:2006-6-10;改回日期:2006-12-10。

作者简介:魏炳乾(1963-),男,副教授,博士,主要从事河流动力学及泥沙测报的研究.E-mail:Weibingqiao@xau.tedu.cn

更新日期/Last Update: 1900-01-01