عنوان مقاله:

simulation of the topographically induced separated shallow flow using 3D-RANS models

محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

In this paper we evaluate the performance of reynolds averaged navier stokes RANS simulations to predict the flow structure developed by the presence of a sidewal obstruction in a uniform open -channel shallow flow the study of these flow structures is important because they are present in several real world configurations such as grounes in rivers where the erosion processes mass transport and the influence of the flow hydrodynamics in ecological processes are still not well understood . results of the numerical simulations have been compared with experimental laboratory measurements based on surface particla image velocimtry SPIV.

کلمات کلیدی:

shallow flow ,RANS,SPIV,separation zone ,coherent flow

لینک ثابت مقاله در پایگاه سیویلیکا: