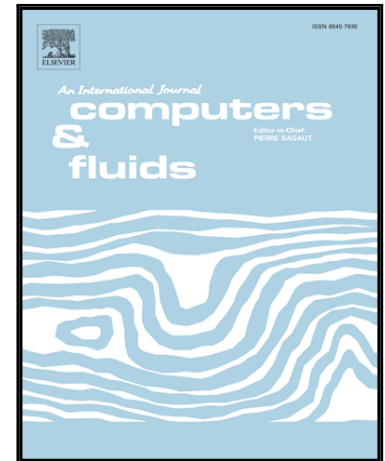


Accepted Manuscript

Turbulent flow over an array of boulders placed on a rough, permeable bed

Yan Liu, Thorsten Stoesser, Hongwei Fang,
Athanasios Papanicolaou, Achilleas G. Tsakiris

PII: S0045-7930(17)30198-6
DOI: [10.1016/j.compfluid.2017.05.023](https://doi.org/10.1016/j.compfluid.2017.05.023)
Reference: CAF 3493



To appear in: *Computers and Fluids*

Received date: 22 October 2016
Revised date: 29 March 2017
Accepted date: 26 May 2017

Please cite this article as: Yan Liu, Thorsten Stoesser, Hongwei Fang, Athanasios Papanicolaou, Achilleas G. Tsakiris, Turbulent flow over an array of boulders placed on a rough, permeable bed, *Computers and Fluids* (2017), doi: [10.1016/j.compfluid.2017.05.023](https://doi.org/10.1016/j.compfluid.2017.05.023)

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 proof before it is published in its final 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.

Highlights

- A large-eddy simulation method is applied to complex geophysical flow.
- The simulation is validated successfully with experimental data.
- The complex time-averaged flow is visualised with contour plots and streamline plots
- The instantaneous flow is educed and shear layer roll-up, vortex shedding and shear layer flapping mechanisms are quantified.

Download English Version:

<https://daneshyari.com/en/article/7156589>

Download Persian Version:

<https://daneshyari.com/article/7156589>

[Daneshyari.com](https://daneshyari.com)