Accepted Manuscript

Computational Modeling for Large Wood Dynamics with Root Wad and Anisotropic Bed Friction in Shallow Flows

T. Kang, I. Kimura

 PII:
 S0309-1708(18)30560-8

 DOI:
 https://doi.org/10.1016/j.advwatres.2018.09.006

 Reference:
 ADWR 3197

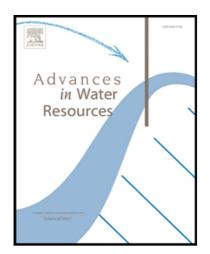
To appear in:

Advances in Water Resources

Received date:28 June 2018Revised date:8 September 2018Accepted date:11 September 2018

Please cite this article as: T. Kang, I. Kimura, Computational Modeling for Large Wood Dynamics with Root Wad and Anisotropic Bed Friction in Shallow Flows, *Advances in Water Resources* (2018), doi: https://doi.org/10.1016/j.advwatres.2018.09.006

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.



ACCEPTED MANUSCRIPT

Highlights

- We developed a computational model for motion of large wood (LW) in shallow flows.
- Lagrange type LW motion model was coupled with Euler type shallow flow model.
- The laboratory tests were performed with different flow discharge and channel slope.
- Rolling, sliding and depositing motions of LW were simulated accurately.
- The root wad of wood piece reduced the velocity of wood motion in shallow flows.

A CERTIN

Download English Version:

https://daneshyari.com/en/article/11033215

Download Persian Version:

https://daneshyari.com/article/11033215

Daneshyari.com