

## Accepted Manuscript

Accounting for the role of turbulent flow on particle dislodgement via a coupled quadrant analysis of velocity and pressure sequences

WuRong Shih , Panayiotis Diplas , Ahmet Ozan Celik , Clinton Dancey

PII: S0309-1708(17)30023-4  
DOI: [10.1016/j.advwatres.2017.01.005](https://doi.org/10.1016/j.advwatres.2017.01.005)  
Reference: ADWR 2766



To appear in: *Advances in Water Resources*

Received date: 11 April 2016  
Revised date: 9 January 2017  
Accepted date: 9 January 2017

Please cite this article as: WuRong Shih , Panayiotis Diplas , Ahmet Ozan Celik , Clinton Dancey , Accounting for the role of turbulent flow on particle dislodgement via a coupled quadrant analysis of velocity and pressure sequences, *Advances in Water Resources* (2017), doi: [10.1016/j.advwatres.2017.01.005](https://doi.org/10.1016/j.advwatres.2017.01.005)

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

- Velocity quadrant sequences more thoroughly describe turbulent flow processes.
- Pressure quadrants are more reliable indicators of applied hydrodynamic forces .
- Coupled velocity/pressure quadrant series better resolve prevailing flow structures.
- Cumulative effects of coherent structures dictate particle mobility.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5763845>

Download Persian Version:

<https://daneshyari.com/article/5763845>

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