

Accepted Manuscript

Tidal asymmetry and residual sediment transport in a short tidal basin under sea level rise

Leicheng Guo , Matthew Brand , Brett F. Sanders ,
Efi Foufoula-Georgiou , Eric D. Stein

PII: S0309-1708(18)30029-0
DOI: [10.1016/j.advwatres.2018.07.012](https://doi.org/10.1016/j.advwatres.2018.07.012)
Reference: ADWR 3169



To appear in: *Advances in Water Resources*

Received date: 12 January 2018
Revised date: 28 June 2018
Accepted date: 19 July 2018

Please cite this article as: Leicheng Guo , Matthew Brand , Brett F. Sanders ,
Efi Foufoula-Georgiou , Eric D. Stein , Tidal asymmetry and residual sediment transport in a short tidal
basin under sea level rise, *Advances in Water Resources* (2018), doi: [10.1016/j.advwatres.2018.07.012](https://doi.org/10.1016/j.advwatres.2018.07.012)

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

- Introduce sediment-related tidal asymmetry proxy based on skewness method
- Oceanic tides control peak current asymmetry and inter-tidal flats determine slack water asymmetry.
- SLR reduces both peak current asymmetry and slack water asymmetry, suggesting a negative feedback mechanism.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/8883234>

Download Persian Version:

<https://daneshyari.com/article/8883234>

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