

Accepted Manuscript

Using global tide gauge data to validate and improve the representation of extreme sea levels in flood impact studies

J.R. Hunter, P.L. Woodworth, T. Wahl, R.J. Nicholls



PII: S0921-8181(16)30493-3
DOI: doi: [10.1016/j.gloplacha.2017.06.007](https://doi.org/10.1016/j.gloplacha.2017.06.007)
Reference: GLOBAL 2600
To appear in: *Global and Planetary Change*
Received date: 9 November 2016
Revised date: 8 May 2017
Accepted date: 23 June 2017

Please cite this article as: J.R. Hunter, P.L. Woodworth, T. Wahl, R.J. Nicholls , Using global tide gauge data to validate and improve the representation of extreme sea levels in flood impact studies, *Global and Planetary Change* (2017), doi: [10.1016/j.gloplacha.2017.06.007](https://doi.org/10.1016/j.gloplacha.2017.06.007)

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.

8 May 2017

Using Global Tide Gauge Data to Validate and Improve the Representation of Extreme Sea Levels in
Flood Impact Studies

J.R. Hunter¹, P.L. Woodworth², T. Wahl³ and R.J. Nicholls⁴

1. Antarctic Climate & Ecosystems Cooperative Research Centre, University of Tasmania, Private Bag 80, Hobart, Tasmania 7001, Australia

2. National Oceanography Centre, Joseph Proudman Building, 6 Brownlow Street, Liverpool L3 5DA, United Kingdom

3. Department of Civil, Environmental and Construction Engineering and Sustainable Coastal Systems Cluster, University of Central Florida, 12800 Pegasus Drive, Orlando 32816-2450, USA

4. Faculty of Engineering and the Environment, University of Southampton, Southampton SO17 1BJ, United Kingdom

Corresponding author: P.L. Woodworth (plw@noc.ac.uk)

Abstract

The largest collection of tide gauge records assembled to date, called GESLA-2, has been used to provide reliable extreme sea level parameters at 655 locations around the world. This has enabled a rigorous assessment of the European Union-funded DINAS-COAST (D-C) data set of extreme sea level

Download English Version:

<https://daneshyari.com/en/article/5755223>

Download Persian Version:

<https://daneshyari.com/article/5755223>

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