

[Home](#)

[Online Library](#)

- [Recent Papers](#)
- [Volumes and Issues](#)
- [Special Issues](#)
- [Library Search](#)
- [Title and Author Search](#)

[Alerts & RSS Feeds](#)

[General Information](#)

[Submission](#)

[Review](#)

[Production](#)

[Subscription](#)

[Book Reviews](#)

Journal Metrics



IF 1.357



5-year IF 1.781

SCOPUS[®] SNIP 0.616

SCOPUS[®] SJR 0.067

[Definitions](#)

ARCHIVED IN



PORTICO

[Volumes and Issues](#) [Contents of Issue 10](#) [Special Issue](#)

Nat. Hazards Earth Syst. Sci., 10, 2191-2196, 2010

www.nat-hazards-earth-syst-sci.net/10/2191/2010/

doi: 10.5194/nhess-10-2191-2010

© Author(s) 2010. This work is distributed under the Creative Commons Attribution 3.0 License.

Brief communication "What do we know about freaque waves in the ocean and lakes and how do we know it?"

P. C. Liu¹, C. H. Wu², A. J. Bechle², K. R. MacHutchon³, and H. S. Chen⁴

¹NOAA/GLERL, Ann Arbor, Michigan, USA

²University of Wisconsin, Department CEE, Madison, Wisconsin, USA

³Coastal Marine Technology, Cape Town, South Africa

⁴NOAA/NCEP, Silver Spring, Maryland, USA

Abstract. We made an objective examination of our present state of knowledge on freaque waves in the ocean and lakes from three separate perspectives:

- testimonial – from eyewitness account of actual encounters;

- empirical – from available in-situ wave measurements;

- conjectural – from academic theoretical formulations;

and led to a subjective answer to the posted title question of this paper: we do not know very much about freaque waves in the ocean and lakes! There are really no interconnections among the three perspectives we examined. Put them together however, persuades us to think that freaque waves are really an integral part of the ocean and lakes, they happen not infrequently but we still basically do not know when, where, how, what, and why they will happen. We do not even have as yet a viable definition on the phenomenon. So in order to expect tangible progress in our knowledge to the understanding of freaque waves in the ocean and lakes, we propose to strengthen a key ingredient by further invigorate the empirical aspect of the perspective, specifically making more in-situ spatial wave measurement for freaque wave studies, which is practically non-existence at the present.

[Full Article](#) (PDF, 1101 KB)

Citation: Liu, P. C., Wu, C. H., Bechle, A. J., MacHutchon, K. R., and Chen, H. S.: Brief communication "What do we know about freaque waves in the ocean and lakes and how do we know it?", Nat. Hazards Earth Syst. Sci., 10, 2191-2196, doi: 10.5194/nhess-10-2191-2010, 2010. [Bibtex](#) [EndNote](#) [Reference Manager](#) [XML](#)



Search NHESS

Full Text Search [»](#)

Title Search [»](#)

Author Search [»](#)

News

- [New Subscription Prices for 2011](#)
- [New Service Charges for 2011](#)
- [Please Note: Updated Reference Guidelines](#)

Recent Papers

01 | NHESS, 19 Jan 2011:
Book Review of "Tree Rings and Natural Hazards: A State-of-the-Art"

02 | NHESS, 18 Jan 2011:
Impact of rainfall spatial distribution on rainfall-runoff modelling efficiency and initial soil moisture conditions estimation

03 | NHESS, 13 Jan 2011:
Atmospheric circulation patterns associated with strong wind events in Catalonia

