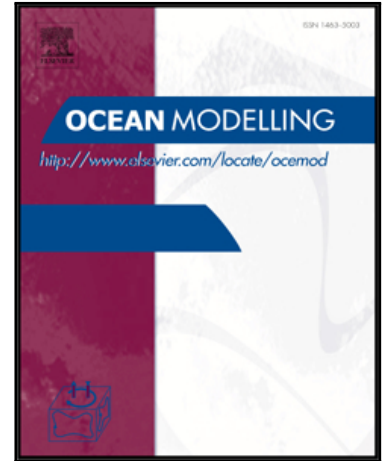


## Accepted Manuscript

Amplification of drawdown and runup over Hawaii's insular shelves  
by tsunami N-waves from mega Aleutian earthquakes

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## Highlights

- A mega Aleutian earthquake generates a dispersive leading tsunami wave followed by a prominent trough
- The tsunami trough shows little attenuation across the ocean due to absence of side lobes and dispersive properties
- Upswing of the impulsive drawdown generated by the trough over Hawaii's insular shelves produces unprecedented runup

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