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Vortex-induced suspension of sediment in the surf zone

Junichi Otsuka, Ayumi Saruwatari, Yasunori Watanabe

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Highlights

- A major mechanism of sediment suspension by organized vortices produced under violent breaking waves in the surf zone was identified.
- Effect of the vortex-induced flows was incorporated into a suspension model.
- The model proposed reasonably predicts the measured sediment concentration due to violent plunging waves and significantly improves the underprediction of the concentration produced by previous models.

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