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Assessing the Performance of Formulations for Nonlinear Feedback of Surface Gravity Waves on Ocean Currents over Coastal Waters

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**Assessing the Performance of Formulations for Nonlinear Feedback of Surface Gravity****Waves on Ocean Currents over Coastal Waters****Pengcheng Wang<sup>1</sup>, Jinyu Sheng<sup>1</sup>, and Charles Hannah<sup>2</sup>**<sup>1</sup>Department of Oceanography, Dalhousie University, Halifax, Nova Scotia, Canada<sup>2</sup>Institute of Ocean Sciences, Sidney, British Columbia, Canada[Pengcheng.Wang@Dal.Ca](mailto: Pengcheng.Wang@Dal.Ca),[Jinyu.Sheng@Dal.Ca](mailto: Jinyu.Sheng@Dal.Ca)

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**Abstract**

This study presents applications of a two-way coupled wave-circulation modelling system over coastal waters, with a special emphasis of performance assessments of two different methods for

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