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Some Effects of an Elliptic Ridge on Waves of Tidal Frequency

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ABSTRACT

A numerical finite-difference model using the Laplace tidal equations on an f -plane was developed to predict how tidal motion is disturbed by an elliptic ridge. With the use of an open-ocean matching condition the model was used to study the effects of several generalized types of elliptic bottom topographies and to study the particular case of the Hawaiian Ridge.

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