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Tide-Induced Residual Current—Verification of a Numerical Model

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ABSTRACT

In Tee (1976), tide-induced residual currents in the Minas Channel and Minas Basin were studied with a two-dimensional nonlinear numerical tidal model. It was shown that the model could reproduce well the observations obtained in 1960 and 1965. In this paper, further observations obtained in 1974 are presented. The analyzed results confirm the calculated tidal and residual currents, and the mechanic that was suggested for the generation of the residual currents. Calculated and experimental results show that the maximum M_2 tidal current occurs earlier in the sheltered arms.

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