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Tests on Some Programmed Numerical Wave Forecast Models

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ABSTRACT

Numerical forecasting of wind-generated ocean waves by digital computer may be attempted using any of three fundamentally different ways of describing wave generation and decay: empirical significant wave, empirical spectral, and theoretical spectral. This paper describes four models, covering the three types, which have been programmed with a view to the adaptation of one or more into a numerical wave forecast system for the Australian region. Results from a simple test situation are presented, both for comparison purposes and as a check on the internal consistency of the model's generation and decay functions.

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