

**Abstract View** 

Volume 8, Issue 4 (July 1978)

**Journal of Physical Oceanography** Article: pp. 644–652 | <u>Abstract</u> | <u>PDF (586K)</u>

## On the Interpretation of Ocean Current Spectra, Part II: Testing Dynamical Hypotheses

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(Manuscript received July 25, 1977, in final form February 27, 1978) DOI: 10.1175/1520-0485(1978)008<0644:OTIOOC>2.0.CO;2

## ABSTRACT

Three examples are chosen to illustrate how the several spectrum representations in Part 1 can be used to test whether a proposed dynamical mechanism is supported by a given set of observations. The examples are windforced surface currents, internal waves and bottom-trapped Rossby waves. Dynamical tests are formulated in the Cartesian, rotary, rotational invariant, hadograph and pre-specified spectrum representations. The limitations and prospects for applying these techniques to more complicated circumstances are discussed.

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