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# The Response of Surface Gravity Waves to Changing Wind Direction

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### ABSTRACT

The behavior of a wind-sea is investigated for wave directions differing from the local wind direction. To describe the phenomenon we added the mean wave direction as an additional prognostic quantity to the JONSWAP parameters used in mathematical models of the wind-sea in previous publications (Hasselmann *et al.*, 1976; Günther *et al.*, 1979a,b).

A boundary is given for the frequency domain in which the spectral energy responds to a veering wind field.

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