

**Rodríguez-Sanjurjo, Adrián**

**Instability of equatorially-trapped nonhydrostatic internal geophysical water waves.** (English) [Zbl 1464.76041](#)

Wave Motion 88, 144-152 (2019).

Summary: A study of the instability of some equatorially-trapped internal water waves is presented. The main result establishes an instability threshold for the steepness of the internal wave in terms of the wavelength by means of the short-wavelength stability method.

**MSC:**

[76E20](#) Stability and instability of geophysical and astrophysical flows

[76U60](#) Geophysical flows

[76B55](#) Internal waves for incompressible inviscid fluids

**Keywords:**

[exact solution](#); [short-wavelength stability method](#); [internal wave](#)

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