

Multidisciplinary Simulation, Estimation, and Assimilation Systems Seminar Series

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Attractive internal waves over topography: a Dutch treat

Abstract: A collection of internal wave features will be presented. Internal tides and waves are well known to be prominent near topographic features. The generation of internal tides near continental slopes can readily be observed. This will be illustrated with an example from the Bay of Biscay. General characteristics of internal wave beams can be identified in this example. After multiple reflections of these beams, internal wave attractors can occur. The theoretical existence of this attractive phenomenon can be verified with laboratory experiments. Consequences of this tendency to smaller scales, explaining the Dutch treat, will be discussed.

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4:00; Rm. 5-234

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