

Abstract Submitted
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Large amplitude internal waves in weakly stratified oceans
WOOYOUNG CHOI, NJIT, ROXANA TIRON, KAIST, ROBERTO CAMASSA,
UNC-CH — We consider large amplitude internal waves in weakly stratified fluids
and obtain the nonlinear evolution equations, which generalize the strongly nonlin-
ear model for a system of two constant density layers. After the linear dispersion
relation of the new model is compared with that of the linearized Euler equations, the
solitary wave and conjugate state solutions of the model are obtained and compared
with other theoretical solutions and field data.

Wooyoung Choi
NJIT

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