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Stratification effects on the wind-induced currents in the Northern Adriatic

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ABSTRACT

Three-dimensional multilevel model has been used to examine summer stratification effects on the currents induced by scirocco and bora winds in the northern Adriatic. Persistency of motions has been observed in the stratified fluid.

L'effet de l'influence de la stratification d'été sur les courants induits par le Scirocco ét la bors, vents du Nord de la Mer Adriatique, est examiné à l'aide du modèle tridimensionnel. On a observé la persistance des mouvements du fluide stratifié.

identified.
The passage of cyclones over the Adriatic Sea is characterized by scirocco and bora winds which cause characterized by scirocco and bora winds winds winter situation. A number of papers have recently appeared reporting unerical modeling studies of wind-induced currents in the northern Adriatic during the winter. Two basic approaches have the second on the vertically averaged equation is a static during the winter. Two basic approaches have the second on the vertically averaged equation is a static during the winter. Two basic approaches have the second on the vertically averaged equation is a static during the sumer the division of continue and or is the second of the second on the vertical stress is a static during the summer the Adriatic relians to include the effect of subropical high pressure and only its inthempt of papers we will examine the influence of subropical high pressure and only its inthempt of the second on the vertical stress and origon including local change of velocity. Coriolis force, and prosing of continuity of density including (4) equation of continuity for volume. The Bowden relation is a sum or contant stress, (2) equation of continuity of density including coefficients (Heaps, 1974). To describe its vertical exchange coefficients (Heaps, 1974). To describe its vertical dependence we summar sumface and bottom boundary layers with coefficients increasing going off them (Pearce and Cooper, 1981). Along the summary increasing with depth. Differential equations in homogeneous fluid as model developed by Stravisi of motions and continuity were translated into finite difference equations using the leapfroptime and staggered-space space in the summer. Simulations were performed for 24 hours with no wind, the summary increasing with developed by Stravisi on docidi based on the was sum of the following numerical exp

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