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## Mixing Processes and Circulation Pattern off Egyptian Mediterranean

By Elsharkawy, Mohamed

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The dynamical computations of the mixing parameters: buoyancy frequency, turbulent kinetic energy, viscous dissipation, Reynolds stress, diffusive salt flux, and diffusive heat flux have been carried out. The results show that generally, vertical mixing and dynamic instability is stronger in the surface layers. The numerical modeling of mixing indicate that turbulence plays a small role in mixing production. However, shear and viscous dissipation are essential in the dynamical process of vertical turbulent mixing. Buoyancy intermittently has a substantial role in vertical mixing. The current regime along the Egyptian Mediterranean coast has been investigated by two methods; the analysis of current measurements, and numerical simulation by using Princeton Ocean Model (POM). The analysis of current measurements showed that the magnitude and direction of the current changes continuously, however, the general pattern is an eastern to south eastern flow induced by the prevailing north-west wind, with a magnitude generally less than 20 cm/s. The numerical modeling of surface currents induced by wind stress over the sea surface, and density distribution revealed a similar patten. | Format: Paperback | Language/Sprache: english | 96 pp.



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