Realistic simulation of wind induced surface currents in North Western coastal Mediterranean Sea.

A. Schaeffer (1,2), I. Pairaud (2), S. Coudray (2), A. Molcard (1), P. Fraunié (1), P. Forget (1), P. Garreau (2), and D. Sauzade (2)

(1) Université TOULON, LSEET, La Garde cedex, France (Philippe.Fraunie@lseet.univ-tln.fr), (2) IFREMER DYNECO/Centre Méditerranée La Seyne sur Mer

In order to achieve water quality management, daily high resolution numerical simulations of coastal flows are run in West Northern Mediterranean sea using nested grids up to 100 m of Ifremer MARS 3D model. Validation and improvement of the model are performed using moorings, drifted buoys and HF radar series of measurements. The wind forcing resolution is in particular assessed for coherent patterns prediction, occurring at the size of the local Rossby radius, i.e. few kilometres. Process oriented investigation and forcing factors analysis allow to better understand lacks in forecasting model of dispersion.

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References :


