Numerical Simulation of Seasonal Current for South China Sea

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Abstract: Using primitive equation, hydrostatic, terrain-following coordinate model (ROMS) with curvilinear orthogonal grid in horizontal directions, the paper attempted to reproduce monthly variation of three-dimensional hydrodynamic structure of South China Sea. The model domain covers the shelves and oceanic plains from 1oN to 23oN and from 99oE to 121oE with grid sizes varied around 15 km. Surface forcing and bottom topography were provided by the COADS climatology and ETOPO5 respectively. These results will later be used together with tidal information to forecast current and temperature of the Sea.

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