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Origin of internal waves in the northern South China Sea

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We use the 3D non-hydrostatic MITgcm to investigate the origin and propagation of internal solitary waves in the northern South China Sea. Different from previous studys, our experiments start from 3D baroclinic temperature and salinity fields. Our modle gives rise to the internal solitory waves over the north shelf of the SCS. The amplitute and phase velocity of the simulation results are close to the observations.