

Holocene tidal changes around the Mekong River Delta, Vietnam

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Numerical simulation was conducted to reconstruct tidal changes taken place within and around the Mekong River Delta during the Holocene. The paleobathymetry used in this study was based on GIA model and was modified by removing thick Holocene deposits existent in major deltas facing the South China Sea, e.g., Mekong, Red, Chao Phraya, and Pearl river deltas. A preliminary result shows that semi-diurnal tidal currents were developed at the inner portion of the paleo Mekong estuary during the mid-Holocene transgressive stage, suggesting stronger influence of tides on the delta formation than at present.

Keywords: delta, South China Sea, paleotidal modeling, Holocene transgression