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# Evolution of Holocene ebb-tidal clinoform off the Shandong Peninsula on East China Sea shelf

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## ABSTRACT

Studies of mud clinoforms in marine environments have documented a wide diversity in the behavior of depositional systems on continental margins with different sedimentary dynamics and spatiotemporal characteristics. The mud clinoform associated with the Bohia Strait off the Shandong Peninsula has attracted the attention of marine geologists and sedimentologists. After systematically reviewing the climatology, oceanography, and sedimentology as well as postglacial sea level change on the East China shelf and the changes in the strength of the East Asian winter monsoon, the aim of this paper is to provide a comprehensive explanation for the evolution of the clinoform and to establish a model of a tidal current-controlled mud clinoform on the seaward side of a tidal inlet. The Bohai Strait is a large tidal inlet linking the Bohai Sea (a large bay) and the Yellow Sea (an open sea). The Yellow River delivers large amounts of fine-grained sediments to the southern Bohai Sea. Under the

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