

Accepted Manuscript

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PII: S0924-7963(17)30313-5
DOI: <https://doi.org/10.1016/j.jmarsys.2017.12.004>
Reference: MARSYS 3033
To appear in: *Journal of Marine Systems*
Received date: 14 July 2017
Revised date: 13 December 2017
Accepted date: 14 December 2017

Please cite this article as: Yunping Xu, Shangzhe Zhou, Limin Hu, Yinghui Wang, Wenjie Xiao , Different controls on sedimentary organic carbon in the Bohai Sea: River mouth relocation, turbidity and eutrophication. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Marsys(2017), <https://doi.org/10.1016/j.jmarsys.2017.12.004>

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Different controls on sedimentary organic carbon in the Bohai Sea: river mouth relocation, turbidity and eutrophication

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ABSTRACT

The extractable lipids and bulk organic geochemical parameters in three sediment cores (M-1, M-3 and M-7) from southern, central and northern Bohai Sea were analyzed in order to reconstruct environmental changes since 1900. The C/N ratio and multiple biomarkers (e.g., C₂₇+C₂₉+C₃₁ *n*-alkanes, C₂₄+C₂₆+C₂₈ *n*-alkanols, branched versus isoprenoid tetraether index) suggest more terrigenous organic carbon (OC) inputs in southern Bohai Sea. The abrupt changes of biomarker indicators in core M-1 are

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