

***Interactive comment on “Organic and inorganic carbon and their stable isotopes in surface sediments of the Yellow River Estuary” by Zhitong Yu et al.***

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Estuarine sediment is thought to be hotspots of carbon burial and is therefore important to the global carbon cycle, but unfortunately there are few studies of their carbon cycling and burial in China. This manuscript presented a comprehensive analysis of organic carbon and inorganic carbon and other geochemical data from 15 short sediment cores taken from the Yellow River Estuary. The authors studied the spatial variability and their influencing factors of TOC and TIC concentrations in the estuary and concluded that the dynamics of sedimentary carbon in the Yellow River Estuary is influenced by multiple and complex processes. This study provides a useful budget estimate

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of carbon burial from this estuary, which could be useful for future regional or global syntheses of carbon cycling.

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