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Satellite views of cross-strait sediment transport in the Taiwan Strait driven by Typhoon Morakot (2009)

Yunhai Li^{a,b*}, Xiaohui Xu^{a*}, Binxin Zheng^a

^aLaboratory of Ocean & Coast Geology, Third Institute of Oceanography, State Oceanic Administration, Xiamen

361005, China

^bLaboratory for Marine Geology, Qingdao National Laboratory for Marine Science and Technology, Qingdao,

266061, China

liyunhai@tio.org.cn

xuxiaohui@tio.org.cn

**Corresponding authors.*

Abstract

After landing on Taiwan Island, Typhoon Morakot crossed the Taiwan Strait and made a second landfall on the western coast of the strait. In this study, we investigated the impact of Typhoon Morakot on the marine environment and explored the dynamic mechanism for enhanced cross-strait sediment transport based on remote sensing data of sea surface temperature (SST) and total suspended matter (TSM) as well as wind vector data. The results showed that the SST significantly decreased along the typhoon path, while the TSM dramatically increased, with a

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