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Total organic carbon contents of the MD01-2407 core from Oki ridge, Japan Sea for the last 600 ka

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The authors have performed TOC and TN analysis on MD01-2407 core taken from Oki ridge, Japan Sea, at 125 or 250 years interval. The core covers the last 600 ka in age, and the temporal change of TOC is similar to the delta ^{18}O curve (LR04) as a whole, but there is some discrepancy in the warmest period, that is, in the interglacial period. Except for this warmest ages, TOC of the sediment core can be well correlated also to the delta 18O curves from Greenland and Antarctica. TOC of the sediment can be an excellent proxy in mid-latitude area around the Japanese islands.

Keywords: organic carbon content, Oki ridge, climate change, Japan Sea, proxy, MD01-2407