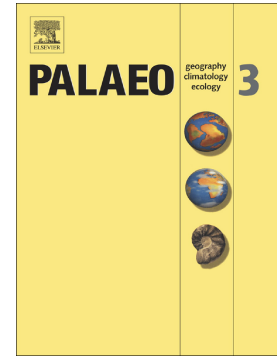


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Sediment provenance variations in the southern Okhotsk Sea over the last 180 ka: evidence from light and heavy minerals

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ABSTRACT

In this study, we investigate light and heavy minerals in sediment core OS03-1 located at the Academy of Sciences Rise of the southern Okhotsk Sea to determine their distributions and sources over the last 180 ka (thousand years). The sediment mainly consists of terrigenous and volcanic detritus. Ubiquitous drop-stones and volcanic detritus throughout the core and high detrital input suggest that sea ice, driven by wind and Kamchatka Current, was the main transport agent of detrital materials to the

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