

On the glacial carbon reservoir in the deep-sea

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Numbers of studies has been performed to seek the glacial carbon reservoir in the deep-sea. Radiocarbon age offset between co-existing benthic and planktic foraminifers is widely used to estimate ventilation rate of the glacial deepwater. However, reconstructed results in previous studies were divided into two groups: comparable to the present and much older than the present. The discrepancy is caused by sediment disturbance inferred from major change in depth-age curve and estimation of regional marine reservoir age. These suggest an importance of primary information on sediment core sample and radiocarbon data.

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