

## Radiolarian reworking event in the pelagic realm

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This study focuses on the radiolarian reworking event in the pelagic realm from the perspective that whether specific paleoceanographic information is included in the reworking event or not. Radiolarian reworking events are known in the sediments on the ocean floor extensively. According to the case of the microfossil reworking events in the western Pacific after the end of the Cretaceous, the reworking events were probably induced by the activated intermediate and bottom water currents (Thiede, 1981). Reworked radiolarians were also reported from accreted ancient pelagic sediments. In the case of the Middle Jurassic (Aalenian to Bathonian) pelagic and hemipelagic sediments (Ishida and Murata, 1996), the reworking characteristics are quite similar to the western Pacific ones. There is a possibility that the reworking events in the pelagic sediments include some records of the ancient deep ocean circulation. To establish the analytical methods, further investigations in the present ocean floor and further cases in the accreted pelagic sediments are needed.