Sediment Trap Comparison Experiments
Existence of Light Particles Collected in the Narrow Sediment Traps

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Abstract: Four types of sediment traps which are different in their shapes were simultaneously deployed in Funka Bay, Hokkaido or open ocean, in order to compare the quantity and quality of settling particles collected at the same time. In Funka Bay, the larger total particulate fluxes were observed with the sediment traps having the larger height to width ratios. The settling particles collected with the narrower sediment traps were somewhat similar to suspended particle enriched in organic matter, phosphorus and Mn. These results suggest that the narrower sediment trap more effectively collects fine and light particles similar to suspended particles.