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Cadmium, cobalt, copper, iron, lead, nickel and zinc in Indian Ocean water

Lars-Göran Danielsson

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Abstract

Results of trace-metal analyses of water samples obtained during a cruise with the Soviet R.V. "Akademik Kurchatov" in the Indian Ocean are presented. The determinations were performed on board with atomic absorption spectrophotometry after a two-stage dithiocarbamate-Freon extraction procedure. Trace-metal concentrations found are in the same range as those found recently for similar open-ocean areas by other workers. The values for lead and zinc are probably high due to contamination. Vertical profiles indicate biogenic processes as controlling factors for the increase of cadmium, copper and nickel concentrations with depth. Iron shows an irregular depth distribution as a result of large random variations in concentration.



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