

Preformed Cd and PO₄ in the equatorial Pacific deep water

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Preformed Cd and PO₄ were investigated in the equatorial Pacific. From the Apparent Oxygen Utilization (AOU) - Cd / PO₄ plot, the preformed concentrations in the deep water were estimated to be around 0.6 nM and 1.6 mM for Cd and PO₄, respectively. Preformed PO₄ generally agreed with previously reported value in the Pacific Ocean, which suggested that the concentration of the initial PO₄ in the deep water was preserved as preformed through the movement to the northward; on the other hand, obtained preformed Cd in the equatorial Pacific deep water showed a somewhat higher values than that in the southwest Pacific. The possibility of the terrestrial input and remineralization of Cd by CaCO₃ dissolution during the northward movement was considered.