

Is the growth hiatus of ferromanganese crusts a local or global event?

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Recent applications of an Os isotope dating method revealed that some ferromanganese crusts collected from the Pacific Ocean might have experienced the growth hiatus. However, it is still controversial whether this growth hiatus was a local or global event. In the present study, we discuss the geological trigger of this growth hiatus based on our results of the Os isotope dating on various ferromanganese crust samples collected from Northwestern Pacific, South Atlantic Oceans and Philippine Sea.

Keywords: ferromanganese crust, Os isotope, geochemistry, growth hiatus, paleoceanography