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Paleomagnetic study on the ferromanganese crusts recovered from northewest Pacific

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We have conducted paleomagnetic measurements on the ferromanganese crusts recovered from five different locations in the northwest Pacific. The analyses were made on a series of the thin slices (0.5-1.0 mm in thickness) cut perpendicular to the growth layers of the crusts, from surface to the interior. We recognized 2-8 polarity reversals in the crusts, and the most surficial layers were commonly characterized by normal polarities. Assuming that these layers were grown constantly in Brunhes normal polarity chron (0-0.78 Ma), growth rates were estimated as 2.1-5.0 mm/Ma. These rates are consistent with those estimated by the $^{10}Be/^{9}Be$ method except for one location.

Keywords: ferromanganese crust, paleomagnetic polarity, growth rate