

Correlation between grain size and rock-magnetic parameters of the marine sediments from off Wilkesland, East Antarctica

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We measured and correlated grain size distribution and rock-magnetic parameters in marine sediments from off Wilkesland, East Antarctica (60-75deg.S, 110-180deg.E). The rock-magnetic parameters measured were S-ratio (back magnetic field: 0.1T), H_{rc}/H_c , M_r/M_s , and SIRM/k. As a result, clear correlation was found between grain size distribution and both S-ratio and SIRM/k. S-ratio was decreased and SIRM/k was increased with increasing the amount of grains of 1-10 micrometer.