

## Influences of sea level change and diagenesis on the Brunhes/Matuyama boundary of the continental shelf sediments (ODP Leg 174A)

# Hirokuni Oda[1]

[1] Marine Geol. Dept., Geol. Surv. Japan

The records of the Brunhes/Matuyama (B/M) boundary from the continental shelf sites (ODP Leg 174A) are investigated in relation to the sea level change and diagenesis. Two holes from Site 1071 show sharp change in rock magnetic properties at the erosional surface. Hole 1071B show the change in the polarity at the lithological boundary, whereas for Hole 1071C the polarity change occur 0.4 m below the erosional surface. This suggests that the B/M boundary at Hole 1071B was eroded, but Hole 1071C remained. Site 1072A show a dramatic change in rock magnetic parameters at the polarity boundary. The polarity boundary can be interpreted as a diagenetic front, which caused the remagnetization, due to the environmental change during the formation of the sand 1.4m above the polarity boundary.