

Magnetic anisotropy of hydraulic piston-core samples recovered during the D/V Chikyu shakedown cruise off Shimokita

Masahiro Ooga[1]; Masahiko Yasuda[2]; Akira Hayashida[3]; Koji Fukuma[1]; Kazuto Kodama[4]

[1] Dept. Environ. Sys. Sci., Fac. Engi., Doshisha Univ.; [2] Dept. Environ. Sys. Sci., Fac., Engi. Doshisha univ.; [3] Dept. Environ. Sys. Sci., Doshisha Univ.; [4] KCC

Stretching or oversampling of sediments during a piston coring is a critical issue particularly in studies of sedimentation rates and fluxes, physical properties and paleomagnetism. It has also been pointed out that some ODP sediments recovered by an advanced piston corer suffered drilling-induced remanent magnetization, which is vertically downward or sometimes radially inward.

Intending to evaluate the quality of hydraulic piston-core (APC) samples recovered by D/V Chikyu, we have examined magnetic properties of discrete samples from C9002A Hole A (0-26.2 mbsf) and Hole B (23.3-70.8 mbsf). Here we report anisotropy of magnetic susceptibility (AMS) measured on a AGICO KLY-3S Kappabridge.