E111-P018 Room: Poster Session Hall Time: May 28

Correction method for paleomagnetic declination based on distortion and rotation modeling of marine sediment cores

Naoki Tokunaga[1]; Yukiko Yokoyama[2]; Toshitsugu Yamazaki[3]; Hirokuni Oda[4]

[1] Dept. Biosphere-Geosphere, Okayama Univ. Sci.; [2] OUS; [3] GSJ, AIST; [4] IGG, GSJ, AIST

We proposed a new correction method for paleomagnetic declination records from marine sediment cores taken with a piston corer. A model for the correction consists of two parts: a distortion of whole core and relative rotation between core sections. We fitted declination series to the model and succeeded in removing an artificial noise generated in sampling processes.