E113-P019 Room: Poster Session Hall Time: May 19

Paleomagnetism and rockmagnetism of sediment cores east of Okinawa Island

Hirokuni Oda[1]; Noriko Kawamura[2]; Takuya Itaki[2]

[1] IGG, GSJ, AIST; [2] GSJ, AIST

Six cores were recovered from GH08 cruise east of Okinawa Island. Paleomagnetic cube samples were taken continuously and anisotropy of magnetic susceptibility (AMS), paleomagnetic measurements and rockmagnetic measurements were conduced. Paleomagnetic results show that all the sediments were deposited during the Brunhes normal polarity chron. Kmax directions of AMS for core GH08-2004 show two contrasting directions above 130 cm (north-south) and below 130 cm (ENE-WSW). Rockmagnetic results show the changes in magnetic mineral and grain size with the top several tens of cm due to early diagenesis. In addition, abrupt rockmagnetic change was recognized just below some of the volcanic ashes and sand layers, which may indicate diagenetic dissolution associated with the rapid burial.