

## Long Term Geomagnetic Changes in the North-eastern Izu Region since 1989

# Naoto Oshiman [1], Yoichi Sasai [2], Yoshinobu Ishikawa [2], Shigeru Koyama [2], Yoshimori Honkura [3]

[1] DPRI, Kyoto Univ., [2] Earthq. Res. Inst., Univ. Tokyo, [3] Earth and Planetary Sci., Tokyo Institute of Technology

Remarkable crustal activities, the anomalous crustal uplift and earthquake swarms, have continued for about 20 years in the Izu peninsula. The swarm activities, occurred off the coast of Ito intermittently since 1978, are interpreted as intrusions of magma or pressurized fluid. Dense network observation of the geomagnetic intensity has been made in the north-eastern Izu region since the Teishi knoll seafloor eruption in 1989 (eg. Oshiman et al., 1997). A remarkable decrease in the total intensity has been observed since 1994 at one site located at northernmost area of our dense observation network. The decrease rate of the total intensity becomes up to about 6nT/year.