

E110-002

Room: 101B

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Geomagnetic Dip Changes in the 1950 Eruption of Izu-Oshima Volcano: Magnetic Source Inversion Using Genetic Algorithm

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Anomalous changes in the geomagnetic dip during the phase I eruption of Izu-Oshima volcano in 1950 are modeled as due to a demagnetized tri-axial ellipsoid with the aid of genetic algorithm. FORTRAN subroutines by Ishida et al. (1997) and the analytic solution for tri-axial ellipsoid by Sasai(2006) are incorporated in the program.