A general introduction of magnetotellurics and of electrical conductivity distribution beneath Japan for the GIC study

Masahiro Ichiki

1Graduate School of Science, Tohoku University

Electrical conductivity distribution in the earth is one of the most fundamental parameter to estimate geomagnetic induced current (GIC). The electrical conductivity distribution deeper than a few km depth is usually inferred by using magnetotellurics. In this presentation, I introduce the magnetotelluric principle and a general view of the conductivity model in the crust and uppermost mantle beneath the Japan Island Arc for the GIC researchers.