

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

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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.