

Resistivity structure of central Kyushu region, Japan, revisited (2)

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We reestimate the resistivity structure in central Kyushu region of Japan by 3-D MT inversion, using ULF-MT data obtained by Munekane (2001).

Kyushu has several calderas and also has wide non-volcanic areas. It may depend on its stress field whether it is volcanic area or not (e.g. Aoki and Kagiya, 2006).

In this study, we research about difference on deep structures of volcanic and non-volcanic area by electrical resistivity, which is very sensitivity on high thermal anomaly or presence of fluid.

So far we completed a fast forward solver of 3-D MT problems, and are developing an inverse solver practically used. For MT analysis, static shift correction is an important issue, and we try to solve this problem.

In the presentation, we show a resultant model and discuss the deep structure beneath Kyushu region.