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Resistivity structure of the sourhtern part of the Kyushu island (3)

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We have conducted the dense MT surveys in the southern part of the Kyushu island. We applied the method to remove the galvanic distortion improved based on Utada and Munekane (2000) to the observed MT impedances. As a result of onedimensional inversion, the distribution of the Deep Low Resistivity Region (DLRR) in the lower crust is revealed. The region corresponds to the spread of the

low P obtained by Zhao et al. (2000). This fact suggests the existence of fluids in the region. The active volcanic area such as Kirishima and Hokusatsu always accompany the DLRR. This fact supports the model that fluids dehydrated from subducting slabs play significant roles in generating magma, as presented by Iwamori (1998) for example.