

Geoelectromagnetic survey in the west-central area of the Korean peninsular

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The geoelectromagnetic study in the Kyushu area suggested a high conductivity anomaly(HCA) exist in the upper mantle beneath the western sea off the Kyushu island, and the HCA probably formed associating with a mantle upwelling. We conducted CA and MT survey at 6 sites in the Korean peninsular and Cheju island to investigate the extension of the HCA. Although the sites were situated in the island or close to the coast, the length of the induction vectors were less than 0.25 at period more than 100sec. The direction of vectors pointed to S-SE at Cheju, S-SW at west coast of the peninsular and E-SE at the north-central area. This result suggested that the high conductivity anomaly probably exist at the south of Cheju and Japan Sea side.