The GDS and MT survey have carried out in the Korean peninsula and the Cheju island to discuss existence of a high conductive layer (HCL) at depths of the lower crust to the upper mantle. The electric and magnetic field variations at period up to 15000 sec. have been observed at 8 sites. The induction vector showed that the modulus of the vector is less than 0.2 at every site and the azimuth of vector tend to point to SE at the longer period. This result can be explained by an effect of sea in some sites. But the azimuth pointed to the south at the west coast and west Cheju island. This suggests that the HCL may exist at the west off of the Korean peninsula. The HCL at depths of the lower crust to the upper mantle is appeared in the conductivity structure derived from MT survey.

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