

## Preprocessing of Network MT electric field data contaminated by leak currents to obtain the accuracy MT response (2)

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We report an improved preprocessing method of Network-MT electric field data affected leak currents for obtaining the accuracy MT response. In previous study we have showed that Principal component analysis was effective to reduce large leak current noises of electrical trains. However, some problems have been left unresolved;the selection method of principal component corresponding to leak currents, azimuthal dependence of the effect of reducing noise, and etc. In this study we interpret the physical meaning of each of principal components and report an advanced preprocessing method for reducing large leak currents.

Keywords: MT response function, Network-MT data, leak currents, multivariable analysis