

## **Electrical Resistivity Mapping and Pre-seismic Goelectric Changes in Koze-shima Island, Japan**

# Yoshiaki Orihara[1]; Masashi Kamogawa[2]; Toshiyasu Nagao[3]; Seiya Uyeda[4]

[1] EPRC, Tokai Univ.; [2] Dep. of Phys., Tokyo Gakugei Univ.; [3] Earthquake Prediction Res. Center, Tokai Univ.; [4] none

It has been reported that anomalous geoelectric changes, termed SES (seismic electric signals), observed before large earthquakes in Greece, which is called VAN method (Varotsos and Alexopoulos, 1984a,b, 1987; Varotsos, 2005). We also monitored geoelectric potential differences at Koze-shima Island, Japan like VAN method. There were some anomalous geoelectric changes that seemed VAN-type SES (Orihara et al., 2002). In Greece, most of SES have been observed in Ioannina station, northwestern Greece. According to Kanda et al. (2000), heterogeneous electrical structure was found. Since SES transmission might be attributed to this structure, we investigated conductivity structure in Koze-shima Island by bipole-dipole method. Furthermore, statistical study of correlation between SES and earthquake in Koze-shima has been done.