

A possible case of SES selectivity at Kozu-shima Island, Japan

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Geoelectric potential difference monitoring has been conducted in Kozu-shima Island about 170 km south of Tokyo. During the monitoring period (May 14, 1997 - Nov. 30, 1999), there were 21 anomalous geoelectric changes that could have been VAN-type Seismic Electric Signals (SES) and 26 earthquakes (M:greater than 3) within about 20 km. Possible correspondence between the geoelectric changes and earthquakes has been examined. There seems to be some systematic tendency regarding the dependence of appearance/non-appearance of changes and their polarity on epicentral location. This observation, however, is preliminary and admittedly inconclusive because of small number of cases and non-uniqueness in signal-earthquake correlation.