

Bostick 1-D Inversion of Magnetotelluric Sounding at Cimandiri Fault, Pelabuhan Ratu, West Java, Indonesia

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To verify the mechanism of earth currents as sources of Ultra Low Frequency (ULF) electromagnetic emissions associated with large earthquakes occurred close to Cimandiri fault, Pelabuhan Ratu, West Java, Indonesia, the subsurface structure near Cimandiri fault has been investigated by forty eight magnetotelluric (MT) sites. The MT exploration was carried out during two weeks, from July 27, 2009 to August 8, 2009. The data were distributed along 13.2 km x 9.4 km profile. One-dimensional modelling using 1-D Bostick inversion has been applied in this research. The data analysis is going on now and details will be given in our presentation.

Keywords: ULF electromagnetic anomalous change, 1-D Bostick inversion, magnetotelluric