

About magnetic and telluric data acquired at Mizuho plateau in Enderbyland, East Antarctica (2)

Shin'ya Sakanaka[1]; Minoru Funaki[2]; Takaharu Sato[3]; Kuniko Egawa[4]; Takeshi Uemura[5]

[1] Engineering and Resource Sci., Akita Univ; [2] NIPR; [3] GSIAS, Hiroshima Univ.; [4] MIRC; [5] none

<http://dips11.akita-u.ac.jp/OYOchikyu/geophys/index.html>

We carried out wide-band magnetotelluric soundings on Mizuho Plateau through JARE-46 (the 46th Japanese Antarctic Research Expedition) in 2005 in order to elucidate the evolution of the continent of eastern Enderby Land, Antarctica. The survey campaigns included three weeks trip based on Syowa Station and we acquired data at 16 sites along the way to Mizuho Station using MTU-5 system (Phoenix Geophysics). Titanium plates with pre-amplifiers were used as electrodes to mitigate the influence of high contact resistance in the snow around -40 degrees centigrade. The apparent resistivity at shallow depth is up to 100k ohm-m because of the ice sheet. We report the aspects of the data and the preliminary result.