

S045-P003

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Large-span Portable Broadband Seismic Array Observations around the Soya Coast Region, East Antarctica

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<http://geoipx.nipr.ac.jp/~kanao/garnet/>

Field observations by the portable broadband seismometers have been carried out at several outcrops around the Soya Coast Region, in the Lutzow-Holm Bay, East Antarctica from the end of 1996. The recording system is composed of a portable broadband seismometer, a digital recording unit and a solar power battery supply. Except for power supply failure in winter seasons, the observations have been conducted well and some teleseismic events were recorded. These data are of good enough quality to be used for various waveform analyses to clarify the heterogeneous structure of the crust and the upper mantle of the region. The obtained data have advantages not only to the crustal studies but also to the deep Earth's interior such as the CMB by applying as a large span array stations in the polar region. These observations will be a efficient cooperatives to the Global Alliance of Regional Networks (GARNET) project by NIED.