

## Multi-disciplinary studies for crustal structure and evolution around the Lutzow-Holm Complex, East Antarctica

# Masaki Kanao[1], SEAL Geotransect Group Masaki Kanao

[1] NIPR

[http://geoipx.nipr.ac.jp/~kanao/seal\\_1](http://geoipx.nipr.ac.jp/~kanao/seal_1)

"Structure and Evolution of the East Antarctic Lithosphere (SEAL)" Project have been carrying out in a framework of the Japanese Antarctic Research Expedition in recent years. Particularly, we concentrated on the geological surveys and the deep seismic refraction/reflection probing in East Antarctic Shield, focused on the Western Enderby Land. The main target of the SEAL geotransect project is to obtain the crustal section in relation to the evolution and structure from the Archean Napier Complex to the Paleozoic Lutzow-Holm Complex, around the Syowa Station. This presentation is particularly focused on the crustal structure and evolution of the Lutzow-Holm Complex, mainly by seismological evidence by both active and passive source studies and the other geophysical data.