

Deep seismic probing of the crustal structure in the Lutzow-Holm Complex - SEAL Geotransect Project : JARE-41 status results -

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In the austral summer season on 2000, deep seismic refraction/reflection probing on ice sheet in the northern Mizuho Plateau, East Antarctica was conducted by the 41th Japanese Antarctic Research Expedition (JARE-41), as a framework of the "Structure and Evolution of the East Antarctic Lithosphere (SEAL) Project" . More than 160 plant-type 2 Hz geophones were set along the Mizuho route totally 200 km in length. A total amount of 3,300 kg dynamite charges at 7explosives along the route will give the information concerning the deep velocity structure of a continental margin in the Paleozoic Lutzow-Holm Complex. In this presentation, we will give an outline of the observations and a status result of the experiments.