

## Microseismicity in Mt. Logachev axial high, Knipovich Ridge, derived from OBS study by K2K experiment

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<http://watmac.eos.hokudai.ac.jp/K2K-OBSreport.html>

In this paper, initial report of hypocenter distribution in 76.5N area of Knipovich Ridge, Greenland Sea, western off Svalbard islands is presented. During observation period (Sep. 15 - Oct 7, 2000) by 8 Ocean Bottom Seismometer (OBS) array, we found seismicity was very low, because only total 156 earthquakes recorded by more than four OBSes were calculated in hypocenter determination, which is more than ten times smaller than Reykjanes Ridge experiment deduced in last decade. Epicenter seems to be clustered in topographic high, and most of the focal depth concentrated in very shallow part of the axial high, which may be reflected by mechanical deformation including magmatic activity in the Knipovich Ridge.