

Preliminary results of vector magnetic anomalies along and across the Knipovich Ridge

Yoshifumi Nogi[1], Kyoko Okino[2], Miho Asada[3], Kensaku Tamaki[4]

[1] NIPR, [2] ORI, [3] O.R.I.,University of Tokyo, [4] ORI,Univ of Tokyo

The Knipovich-2000 cruise was conducted from August 30 to September 23, 2000, to understand the tectonics of ultraslow sea-floor spreading system at the Knipovich Ridge. The shipboard three component magnetometer was installed on R/V Professor Logachev and vector magnetic anomalies were measured for the first time along and across the Knipovich Ridge. We will present preliminary results of vector magnetic anomalies along and across the Knipovich Ridge.

The Knipovich Ridge in the Arctic Sea is an ultraslow sea-floor spreading center that is oblique to the spreading direction predicted from global plate motion. An ultraslow spreading system remains poorly resolved. The Knipovich-2000 cruise was conducted from August 30 to September 23, 2000, to understand the tectonics of ultraslow sea-floor spreading system at the Knipovich Ridge. The shipboard three component magnetometer was installed on R/V Professor Logachev and vector magnetic anomalies were measured for the first time along and across the Knipovich Ridge. We will present preliminary results of vector magnetic anomalies along and across the Knipovich Ridge.