A5-016 Room: C409 Time: June 5 11:00-11:15

Tectonics of the slow spreading system in Gulf of Aden: Bathymetric and magnetic surveys of KH-00-5 legs 2 and 3

Masao Nakanishi[1], Kensaku Tamaki[2], Hiromi Fujimoto[3], Kyoko Okino[4], Daniel Curewitz[4], Philippe Huchon[5], Khaled Khanbari[6]

[1] Ocean Res. Institute., Univ. of Tokyo, [2] ORI, Univ of Tokyo, [3] School of Sci., Tohoku Univ., [4] ORI, [5] Geosciences Azur Observatoire, [6] Sana'a University

http://www2.ori.u-tokyo.ac.jp/~nakanisi

We will present the results of bathymetric and magnetic surveys in Gulf of Aden by R/V Hakuho-maru from December, 2000 to January, 2001. Gulf of Aden is a small ocean basin between Somalia (NE Africa) and Arabia. The continental rifting occurred around Early Miocene.

Our bathymetric survey using multi-narrow beam echo sounder, SEA BEAM 2120, revealed the detailed bathymetric expression of the spreading system in Gulf of Aden. The depth of spreading center becomes shallower as west. The most shallowest area is situated at 45 40 E. We named the high "Aden New Century Mountains". Our magnetic survey exposed that negative magnetic anomalies predominated over the spreading center.