

## Results of the research cruise in Gulf of Aden: Aden New Century Cruise (ANCC) by R/V Hakuho-maru

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We will present the results of research cruise 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 and Arabia. The continental rifting occurred around Early Miocene.

The principal objective of this cruise is to reveal tectonics, hydrothermal activities, and mantle dynamics of the Gulf of Aden mid-oceanic ridge system. 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". The CTD observations over the high detected a hydrothermal activity near the high.