

## Seismicity of the Southwest Indian Ridge, 37E

# Mariko Mizuno[1]; Toshinori Sato[2]; Takayuki Kitamura[3]; Teito Takemoto[4]; Masanao Shinohara[4]; Kimihiro Mochizuki[5]; Katsura Kameo[6]; Yasuyuki Nakamura[7]

[1] Science, Chiba Univ.; [2] Chiba Univ.; [3] Earth Science, Chiba Univ.; [4] ERI, Univ. Tokyo; [5] EOC, ERI, Univ. of Tokyo; [6] ORI, Univ. Tokyo; [7] Ocean Res. Inst., Univ. Tokyo

The Southwest Indian Ridge (SWIR) is a very slow-spreading ridge (15mm/yr) and a Marion hotspot is located around 37E, the south of SWIR. So, this area seems to have a different melt supply. For investigating the difference of spreading pattern in the north part and south part, we conducted a controlled seismic experiment and seismicity survey at the segment of SWIR around 44S, 37E during KH-07-4 cruise of the R/V Hakuho-Maru (Japan Agency for Marine-Earth Science and Technology). The observation period was from January 13 to January 16, 2008. We used ten ocean bottom seismometers (OBS), multi-channel hydrophone streamer (48 ch), and 201 x 2 air guns. We deployed the OBSs at a grid pattern, along the ridge segment. We report the observation result of seismicity in this presentation.

In the observation period except for 1.5 days when air gun operation was conducted for a controlled seismic experiment, about 60 earthquakes were detected by manual picking. Also, these epicenters seem to be located along the median valley.