Vb-P014 Room: IR

Time: June 26 17:30-19:00

Structural model of Myojin-Sho and Fukutoku-okanoba as revealed from magnetic and gravity anomalies.

yoshio ueda[1], Kenei Onodera[2], Azusa Nishizawa[3], Yasuo Otani[3]

[1] JHD, [2] Hydrographic Department, M.S.A, [3] Hydrographic Department

Hydrographic department of Japan conducted bathymetric, geological, magnetic, and gravity survey as well as subbottom seismic observation on Myojin-Sho submarine volcano in Sept., 1998. In advance of this survey, airborne magnetic surveys over the Myojin-sho were carried out in Nov.,1997 to clarify the total intensity magnetic anomaly accompanied by Myojin-sho. In succession of Myojin-Sho, Fukutoku-okanoba, which is also active submarine volcano in the Izu-Ogasawra arc,were investigated by S/V Shoyo in Aug, 1999. An airborne magnetic survey on the Fukutoku-okanaba was also carried out in Sept.,1999. In the meeting, the structural model on these volcanoes will be proposed for understanding of caldera formation process.

Hydrographic department of Japan conducted bathymetric, geological, magnetic, and gravity survey as well as subbottom seismic observation on Myojin-Sho submarine volcano in Sept., 1998. In advance of this survey, airborne magnetic surveys over the Myojin-sho were carried out in Nov., 1997 to clarify the total intensity magnetic anomaly accompanied by Myojin-sho. Some of the results were reported by Nisizawa et al..

In the meeting, the magnetic and gravity anomalies and the derived structures will be shown for understanding of the volcanic and caldera structure as well as chemical analysis on the dredged samples.

In succession of Myojin-Sho, Fukutoku-okanoba, which is also active submarine volcano in the Izu-Ogasawra arc,were investigated by S/V Shoyo in Aug, 1999. An airborne magnetic survey on the Fukutoku-okanaba was also carried out in Sept.,1999. The bathymetric features show the topographic high surrounding the central cone. The high amplitude magnetic anomaly was also recognized over the volcanic body, which may indicate basic magmatic activity.

In the meeting, the structural model on these volcanoes will be proposed for understanding of caldera formation process.