

Events at submarine volcano - Observations at Suiyo Seamount, Izu-Bonin Arc

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We observed seismic activity by Ocean Bottom Seismometer(OBS) small array at Suiyo submarine volcano, Izu-Bonin arc. We used 4 OBSs with 3 component sensors and hydrophone. 3 OBSs have PMD sensors for low frequency observation. Local events include long period events have swarm like activity. Local events are common but it is calm down during low frequency tremor. Shortest interval of OBS, one of the constraint of event scale, is about 30 m because many events observed only one OBS.

We observed seismic activity by Ocean Bottom Seismometer(OBS) at Suiyo submarine volcano, Izu-Bonin arc. Small array of 4 OBSs were deployed from October 4 to October 19, 2000. These OBSs with 3 component sensors and hydrophone. 3 OBSs have PMD sensors for low frequency observation. OBS array size was about 100m. We have more chance of event source detection and distinction of low frequency signal and ship noise by this small array.

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