

Morphological features of submarine lava flows around Miyakejima

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Miyakejima is located approximately 170 km south of Tokyo and is an active volcanic island of approximately circular shape with a diameter of approximately 8 km. Miyakejima is located in the northern part of the Izu Bonin Arc and is a stratovolcano of basalt-andesite.

There are many research on land on Miyakejima, but there are few studies for marine areas. In this study, from the results of the detailed seafloor topography survey, we classified the lava flow of the seabed from morphological features.

This time we classified the lava flowing into the seabed in the northern and southwestern part of Miyakejima from morphological features. From the morphological features of the lava flows flowing into the ocean floor of the northern part of Miyakejima, it can be classified into three types L1 to L3, and the southwestern part of Miyakejima can be classified into four types L1 to L4.

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