

Geochemistry of Newly Recognized Submarine Shield Volcano, Southwest of Oahu Island, Hawaii

Naoto Noguchi[1], Mitsuhiro Nakagawa[2]

[1] Earth and Planetary Sci., Hokkaido Univ., [2] Earth & Planetary Sci., Hokkaido Univ.

We investigated petrological and geochemical features of samples from newly recognized submarine shield volcano southwest of Oahu during 2001 KAIREI cruise, Hawaii. The samples from one of cones on the shield are similar as those of the rocks of the rejuvenated stages. In addition, samples from the shield and one of cones are not tholeiitic but alkalic. These suggest that the shield was covered by post-shield lavas, on which many rejuvenated lava cones were formed. Although typical lavas of the shield stage have not been recovered during our 2001 cruise, it seems that the submarine shield might grow as typical Hawaiian shield volcanoes.