

Geochemistry of Lava Cone from a Cluster of Submarine Lava Cones and Flows, Southwest of Oahu Island , Hawaii

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There exist many submarine lava cones and flows west of Oahu island. The 2001 KAIKO dive collected samples from one of the cones. The rocks are alkali basalt and basanite, and quite similar to those of North arch and some of Honolulu volcanics. This indicates that the submarine volcanic field might be formed by the magmatism at plume edge. Although the samples were collected from a single small cone, possible chemical variations can be recognized. The variations cannot be formed by fractionation from a single basaltic magma, indicating that several parental magmas formed the cone.