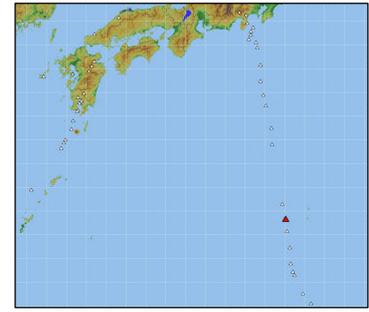


71. Kaikata Seamount

Latitude: 26°42'33" N, Longitude: 141°04'27" E, Depth: -449 m
(Central Cone in KC Peak)

Latitude: 26°40'00" N, Longitude: 140°55'45" E, Depth: -165 m
(Shallowest Point of KM Summit)



Summary

The Kaikata Seamount is a submarine volcano located approximately 980 km south of Tokyo and approximately 210 km north-northwest of Iojima. Its foot is located at a depth of 3,500 m, and at its southern tip, it connects to the Kaitoku Seamount ridge at a depth of 2,200 m. The Kaikata Seamount has an eastern peak (KC: summit depth of 425 m) and a western chain of 3 peaks, arranged from northeast to southwest (KN-KM-KS: summit depths of 424 m, 165 m, and 627 m, from north to south). A caldera is recognized on the eastern peak, with a maximum diameter of 3 km and a maximum depth of 933 m, which possesses a central cone (with a summit depth of 449 m). At the summit of the central cone of KC, white discolored water is confirmed as the result of submarine hydrothermal activity. The SiO₂ content of the Kaikata Seamount is between 49.1 and 60.6 wt %.

Submarine Topographic Map

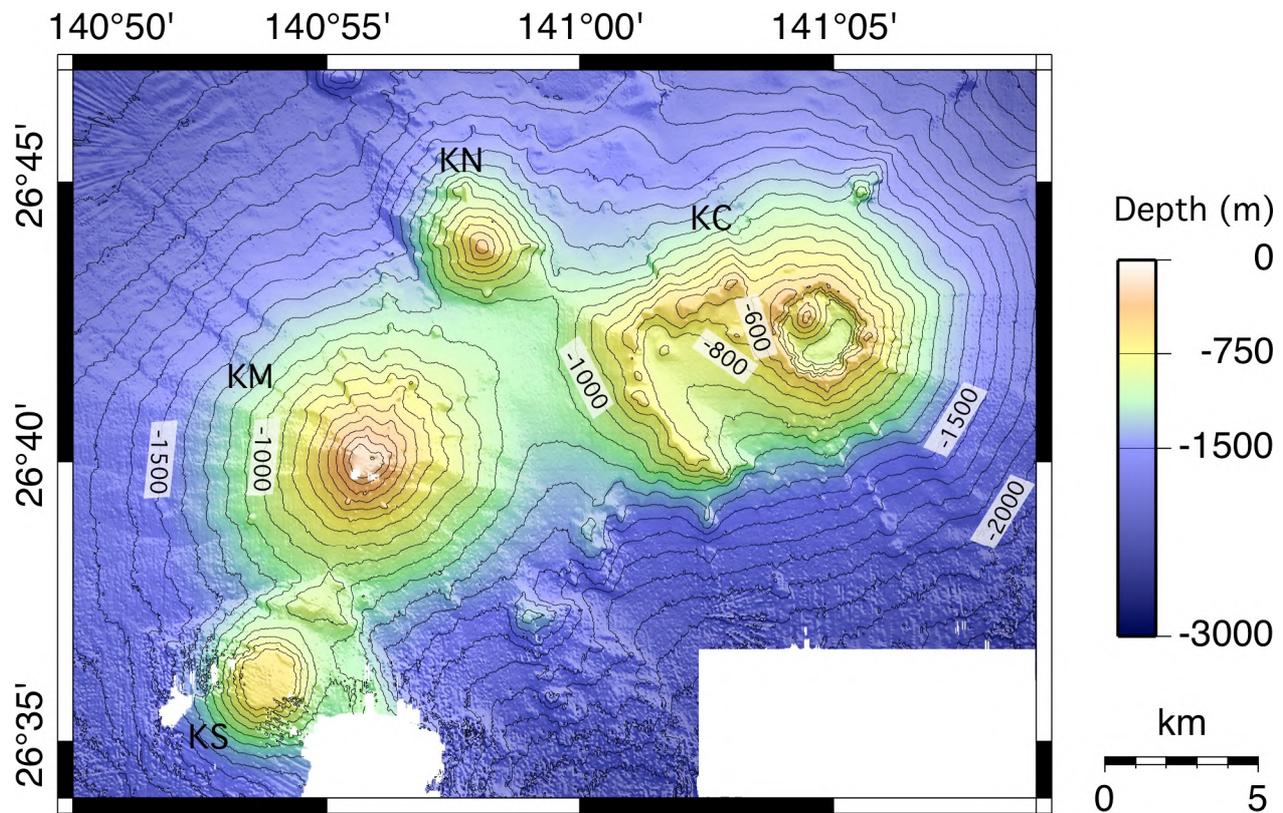


Figure 71-1 Submarine topographic map of the Kaikata Seamount area (Japan Coast Guard).

Geological Map

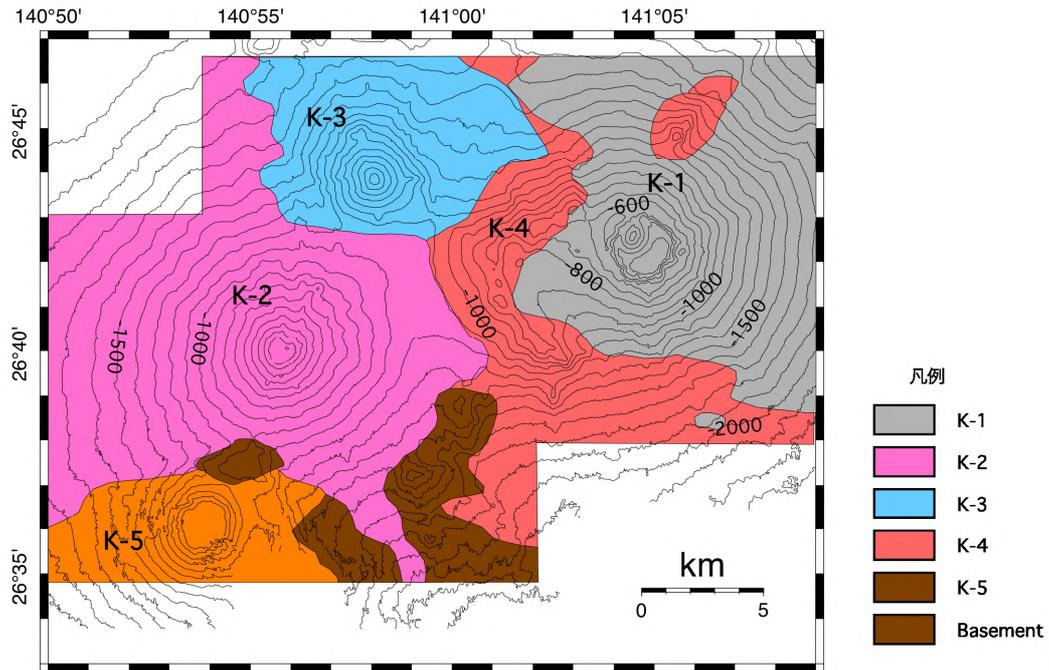


Figure 71-2 Geological map of the Kaikata Seamount (after Japan Coast Guard, 2012).

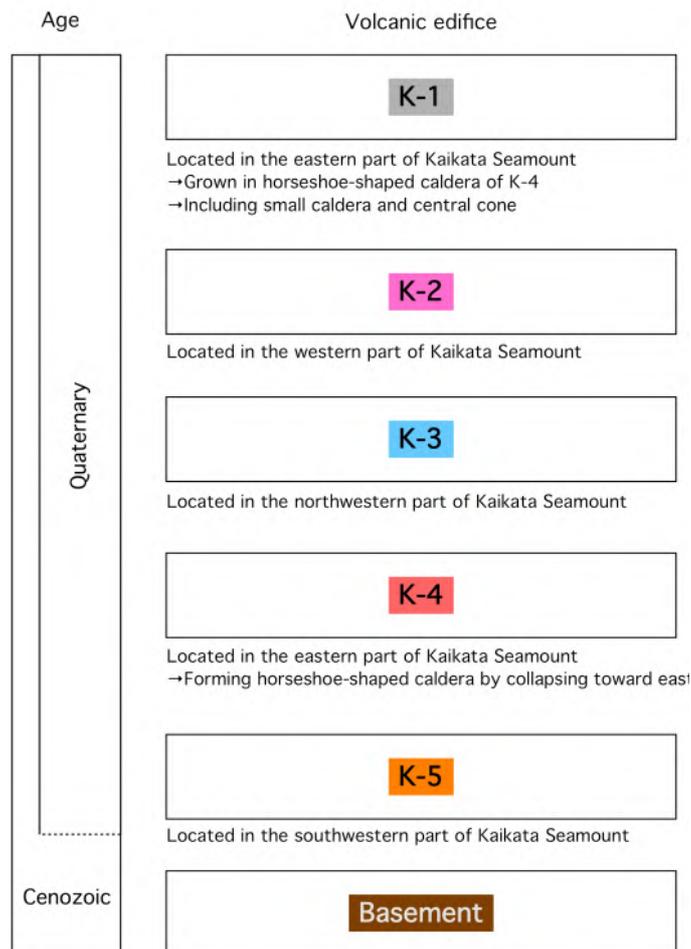


Figure 71-3 Geological stratigraphy of the Kaikata Seamount (Japan Coast Guard, 2012).

Chronology of Eruptions

▪ Historical Activity

There are no records of volcanic activity.

Bibliography

Japan Coast guard (2012): Report of Coordinating Committee for the Prediction of Volcanic Eruption, **112**, in press (in Japanese).

(Ito, K.)