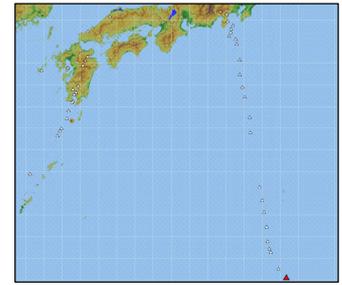


78. Nikko Seamount

Latitude: 23°04'42"N, Longitude: 142°19'32"E, Depth: -392 m



Summary

The Nikko Seamount is a submarine volcano located at the northern tip of the Mariana arc, approximately 1,380 km south of Tokyo and approximately 210 km south by southeast of Ito. Its foot is located 3,000 to 3,300 m below sea level, and it has a relative height of approximately 2,900 m above the sea floor. Biotic communities live at a deep hot water ejection vent in an area of the summit 459m below sea level (Hashimoto et al., 1992). Slight green discolored water was observed on the sea surface by aerial survey in July, 1979. The discolored water was spread over an approximately 500 m fan-shaped area. The SiO₂ content of the rock of Nikko seamount is 45.9 to 61.7 % by weight.

Submarine Topographic Map

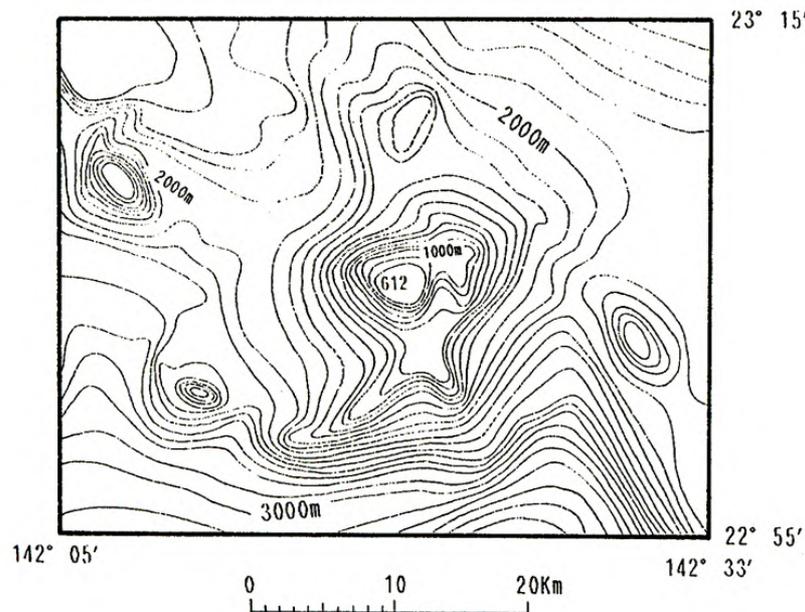


Figure 78-1 Submarine topographic map of the Nikko Seamount (excerpt from Shimotori et al., 1995)

* Tokyo Datum

Chronology of Eruptions

▪ Historical Activity

Year	Phenomenon	Activity Sequence, Damages, etc.
1979 (Showa 54) ¹	(Discolored water)	July 12. An approximately 500 m fan-shaped area of discolored water was observed.

* Volcanic periods, areas of activity, and eruption types taken from the Active Volcano Database of Japan, AIST (Kudo and Hoshizumi, 2006).

Information on Disaster Prevention

① Hazard Map

None

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