

## Submersible study of small knolls distributed around the Sofugan Tectonic line, Izu-Ogasawara Arc

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We conducted submersible surveys around the Sofugan Tectonic Line, Izu-Bonin Arc, western Pacific, during the "Yokosuka/Shinkai 6500" YK00-08 cruise. The small knolls located in the back-arc region in the northwest of the Sofugan Tectonic Line, the seafloor appeared to be composed of pillow lava, sheet lava, and pyroclastic rocks, however thick manganese crust prevented visual observation. The slopes were almost constant through the dive tracks, therefore there was no evidence of lateral eruption. This suggests that these knolls are monogenetic volcanoes. Olivine basalt was sampled in Dive #573, and clinopyroxene basalt was sampled in Dive #574.