

Some Geological Features of Minami-Iwo-To Volcano, Volcano Islands, Japan

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Minami-Iwo-To Volcano is a late Quaternary stratovolcano with no fumarolic activities. It is stratigraphically divided into 5 units; that is, Older volcanic product-1, Older volcanic product-2, Southern middle volcanic product, Northern middle volcanic product and Younger volcanic product in ascending order. These divisions are based on the areally traceable volcanoclastic layers. The volcano consists wholly of subaerial lava flows and pyroclastics from the bottom to the top to the best of surface survey. Numerous thin and vertical dikes crop out along the sea cliff and count up to 254. Most of them have radial patterns from the summit crater. All lavas and dikes are basaltic rocks with abundant phenocrysts of plagioclase, clinopyroxene and olivine. Some rocks with 40 - 50 vol. % clinopyroxene phenocrysts are rarely found.