

K-Ar ages of volcanic rocks from Kita-Iwo-To and Minami-Iwo-To Islands

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Kita-Iwo-To and Minami-Iwo-To Volcanoes are dissected Quaternary stratovolcanoes with no fumarolic activities, belonging to Volcano Islands (Kazan Retto), Izu-Bonin Arc. No radiometric age data has been reported from both volcanoes. We tried to get the age data by K-Ar isotope dilution method.

Obtained ages from Kita-Iwo-To Volcano are -30 ± 70 ka, -20 ± 60 ka and 140 ± 50 ka. The last one is an average of two analyses of one lava. Those of Minami-Iwo-To Volcano are -1 ± 30 ka, -20 ± 20 ka, -40 ± 100 ka and 30 ± 11 ka. The last one is an average of two analyses of one dike. The analytical results show that subaerial Kita-Iwo-To Volcano is Middle to Late Pleistocene and subaerial Minami-Iwo-To is Late Pleistocene in age. The isotope dilution method is insufficient for volcanic rocks younger than 100 ka. We need to re-analyze those samples by