

K-Ar ages of volcanic rocks in Shinjo-Sakata area, Tohoku district, Japan.

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K-Ar dating of Neogene-Quaternary volcanic rocks of Shinjo-Sakata area was conducted at Geological Survey of Japan. Both the peak comparison method and the isotope dilution method was employed for dating. The results are applied to the discussion on stratigraphy and duration of volcanic activity for the following volcanoes: (1)Chokai volcano and its basement rocks, (2)Miocene volcanic rocks in northern Yamagata prefecture, (3) Quaternary Mukaimachi caldera, (4) Quaternary Bozawa andesite and Tateishiyama andesite, (5)Takamatsu volcano and Kabutoyama welded tuff, (6)dacite in Motoyamazawa Formation, (7)Yakeishi volcano, (8)Kurikoma volcano, and (9)Miocene activities in the east of Quaternary volcanic front.