

Development history of the Yokota Alkali Basalt Province, Southwest Japan

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The Yokota Alkali Basalt Province, Southwest Japan, was active between 2.2 and 1.0Ma. We describe (1) temporal and spatial variations of volcanic activity of the entire eruption centers based on K-Ar dating, (2) relationship between formation stage of a planation surface in the area and its deformation in conjunction with ages of volcanic eruptions, and (3) temporal variation of major element chemistry of the basalts. We then discuss about both the shallow and deep magma plumbing systems beneath the province.