

Fission track dating of Osuzuyama volcano-plutonic complex and surrounding Shimanto belt

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We applied fission track (FT) method to the Shimanto belt and Osuzuyama volcano-plutonic complex (OCPC) locating in the center of eastern Miyazaki Prefecture. The OCPC have FT apatite and zircon ages of 13-16Ma, which are contemporary with the other ages already reported by K-Ar method, suggesting rapid cooling below 60 degrees C. The shimanto belt have FT apatite ages of about 10-20Ma, showing a time of regional exhumation of this area. Both exhumation and intrusive events would have occurred in a short time.