

Magma plumbing system of Innai Caldera Complex with laccolith and sheet like magma chambers

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Innai basin, located in southern Akita prefecture, has 8km in. Late Cenozoic strata are distributed in and around Innai basin. Innai formation distributed in Innai basin, makes up to volcanic rocks erupted during Pliocene. Innai formation is composed of Jibuichi-zawa-gawa pyroclastic member (Jpm), Yamanota volcanic rocks member (Yvm) and Kami-Innai pyroclastic rocks member (Kpm), in the order of activity. We named Innai basin Innai caldera complex. Petrological and geological evidence indicate magma-plumbing system of Innai caldera complex had sheets and dykes complex. Intrusion of magma as shallow laccolith caused dome like structure around Innai caldera complex.