

Eruption history of Karasugasen lava dome, Daisen volcano, Southwest Japan

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Daisen volcano is dacite lava dome complex located in Tottori Prefecture, southwest Japan. We studied the tephrochronology of fallout tephra and block and ash flow deposits produced from Karasugasen lava dome. The Karasugasen eruption commenced soon after widespread AT tephra deposition (ca. 25ka). Eruptions started with fallout tephra, and immediately turned into lava dome growth with formation of at least nine block and ash flow deposits. After the lava dome growth, vulcanian ash eruptions took place with increasing explosiveness through time, and finally the activity ceased after a sub-plinian pumice eruption.