

Recent eruptive history of Younger Ontake volcano, Japan

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Ontake volcano is an active volcano in Central Japan. We investigated eruptive history for volcanic disaster prevention of Ontake volcano and confirmed some deposits by magmatic eruption after about 11,000yrBP.

The details of these deposits are as follows.

Scoria fall deposit on Eastern slope Scoria fall deposit with breadcrust bomb was confirmed on eastern slope. The SiO₂ content of this bomb is about 48 wt.%. ¹⁴C ages of humic soil just below scoria deposit obtained is 4,540±40yr.B.P. and 5,620±30yr.B.P.

Pyroclastic flow and Pumice fall deposit on Northeastern slope

Pyroclastic flow and Pumice fall deposit with lahar deposit was confirmed on Northeastern slope. ¹⁴C ages of humic soil just below pumice deposit obtained is 10,050±30yr.B.P. and 9,685±35yr.B.P. The emplacement temperatures of pyroclastic flow deposit are estimated to be normal temperatures to 350 to 620C.