

Making of a cryptodome by chocolate magma

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Highly viscous magma tend to erupt violently. Cryptodome is a surface manifestation of underground viscous lava. The purpose of this paper is to report a new teaching aid to understand the cryptodome using cocoa crust and chocolate lava dome. It will help children to understand the cryptodome and the potential of volcanic hazards of volcanoes.

Simulating system is as follows: 1) set a 2 - 3 cm layer of cocoa powder on aluminum foil using a sieve, 2) measure 50 grams of chocolate, 40 grams of fresh cream and 10 grams of millet jelly, 3) fresh cream and millet jelly are heated in a pan, 4) mix the hot fresh cream and chocolate in a bowl, 5) suck up this chocolate with cream into a syringe without needle, 6) inject chocolate from the bottom of the cocoa layer.

The form of cocoa and chocolate cryptodome resembles to the cryptodome of 1977-78 cryptodome of Usu volcano.