V032-011 Room: C310 Time: May 27 16:15-16:30

Volcanic history of Iwate volcano from 3.7 to 1.8 ka., based upon the geology of the summit area and the tephro-stratigraphy.

Jun'ichi Itoh[1]

[1] GSJ, AIST

http://staff.aist.go.jp/itoh-j/index.html

The volcanic history of Iwate volcano from 3.7 ka to 1.8 ka are reconstructed by the tephrochronological and geochemical studies.

Magmatic eruption occurred for about thousand years intermiyyently. At the beginning of this stage, lava flows were dffused from summit crater, and a several layers of agglutinate are piles up and constructed the mainly part of the central cone. Phreato-magmatic eruption and small-scaled scoria eruption happened unusually. At the latter term of this stage, explosive eruption occurred, and fall-out scoria covered around the volcano. FeO*/MgO ratio of the magma, which caused the eruption, gradually increases fron ca.1.5 to 2.3 through the stage. Silicic ash was erupted by an activity the last in thic stage.