Vc-015 Room: C102 Time: June 10 12:18-12:30

Laser-heating 40Ar/39Ar dating of Yabakei and Imaichi pyroclastic flow deposits in NE Kyushu along with Pink tuff.

Kozo Uto [1], Osamu Ishizuka [1], Shigeru Uchiumi [1], Hiroki Kamata [2], Tohru Danhara [3] [1] GSJ, [2] Earth Sci., Integr. Human Stud., Kyoto Univ., [3] Kyoto Fission-Track

Laser-heating 40Ar/39Ar age dating were made on Yabakei and Imaichi pyroclastic flow deposits and an Pink tuff. Obsidian grains were incrementally heated by increasing the power of the laser. We obtained good plateau ages; 0.98+-0.02 Ma for Yabakei and 0.83+-0.20 Ma for Imaichi, and both are consistent with previous radiometric ages but smaller uncertainties. Total-fusion 40Ar/39Ar dating on separated plagioclase were critical depending on the sample size used for a experiment. Weighted average ages are 0.92+-0.09 Ma (N=5) for Yabakei and 1.11+-0.16 Ma (N=3) for Imaichi, which are consistent with the plateau ages considering uncertainties, while three analyses for Pink tuff were not good enough to give meaningful ages due to the insufficiency of 36Ar signals.