Lb-P003 Room: Poster Time: June 10 17:30-19:30

Thermoluminescence and optically stimulated luminescence dating of glacial deposits from the Japan Alps

Reisuke Kondo [1], Takuya Watanuki [2], Sumiko Tsukamoto [3]

[1] Dept. Geogr. Grad. Sci. Tokyo Metropolitan Univ., [2] Geography, Tokyo Metropolitan Univ., [3] Dept. of Geography, Tokyo Metropolitan Univ.

For the chronology of glacial landforms in an alpine area in Japan, the absolute dating method which can be obtain in broad area, has been desirable, because of a lack of the samples for 14C dating. In this study, thermoluminescence(TL) and optically stimulated luminescence(OSL) datings methods were examined for the glacigenic deposits sampled from the Japan Alps. We attempt to reveal whether the TL and OSL signals are resetted by rubbing or crushing effect on subglacial strata or not. In TL and OSL dating, gamma doses of seven levels from 20 to 1280 Gy were irradiated to each sample, and their equivalent doses were computed based on the growth curves of the TL and OSL intensities.