

S141-002

Room: 303

Time: May 23 9:15-9:30

Uplift and net displacement of the Uonuma hills

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In order to understand quantitatively the complicated movement style of subsurface structure and the formation process of mountain and basin, it is considered for the elucidation of the time and space distribution of the amount of displacement to be important. It needs to investigate real data of earth's surface and geological structure and moreover needs to measure correctly three ingredients of the displacement on fault surface and the inside of a stratum. We are advancing the case study in the Uonuma hill and Itoigawa-Shizuoka Tectonic Line. The Uonuma hill is used as the source region of the 2004 Middle Niigata Prefecture earthquake. Although there are many subjects to solve, we describes the research done on the Uonuma hill.