

Correlation of middle Pleistocene tephra in mountains area along Sagami River and Oiso by EDS analyses and refractive index

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In order to identify the late to middle Pleistocene tephra layers called Suarashi Pumice Group(SuP) in mountain areas along Sagami River, determination of refractive indexes of orthopyroxene and hornblende and chemical analyses of titanomagnetite are performed. From the result of those analyses, the following two tephra layers are correlated. SuP-2.5 is correlated to TAm-6(165-175ka),and SuP-6 is correlated to Hk-KIP7(115-125ka) with those in the Oiso hills, 30km south of study area, where the standard tephrostratigraphy was establish. Using this correlation, assuming sedimentation rate is constant, the ages of SuP-1, SuP-2, SuP-5 tephra layers are estimated to be 225-235ka, 185-200ka, 145-155ka.