

S141-003

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Dating of fault activity using pseudotachylyte and fault gouge

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The determination of fault activity has been done by various dating method. This presentation reviews recent progress of FT dating of pseudotachylytes (ex. Murakami and Tagami, 2004) and K-Ar dating of fine fractions of fault gouges (ex. Takagi et al., 2005). The results of both methods on some major active faults in SW Japan strongly suggest that they were initiated from c.60 Ma. It must be related to the strain localization at the stage of cooling of Late Cretaceous granitoid, which characterize crust of the Inner Zone of SW Japan.