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## Developing process of fault(maturity level) and seismic activity

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The fracture width was detected by gamma ray survey in the vicinity of Odawara City. The tendency that the fault length becomes long broadening of the fracture width is admitted. The relational expression of the fracture width and the fault length was led. The empirical equation from which the earthquake size is requested by using the length of the active fault is led by Matsuda in 1975. The relational expression of the fracture width and the earthquake size is led from the relational expression of the fracture width, the fault length, and the earthquake size. Width on the destruction side caused by two diastrophism is estimated to be 8km or less from these relational expressions. The destruction side doesn't appear in surface of the earth. It is presumed that the magnitude is 6.8 or less. The fracture cross section cannot reach surface of the earth, and the fault caused in Quaternary for the first time can be understood as an immature fault. It is thought that the fracture width is appropriate as a quantitative scale of the maturity level of the fault.