

# Japan Geoscience Union Meeting 2011

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SCG061-P04

Room:Convention Hall

Time:May 25 14:00-16:30

## Method and significance to determine stresses from heterogeneous fault-slip data obtained in different depths

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We will present the significance to determine stresses from heterogeneous fault-slip data obtained in different depths and the result of applying the multiple inverse method (Yamaji, 2000; Otsubo and Yamaji, 2006) the data. We can obtain the data from outcrops, borehole cores and focal mechanisms. A heterogeneous data set comes also from a rock mass in which the state of stress changes spatially and/or temporarily.

### References:

Otsubo, M. and Yamaji, A. (2006) Improved resolution of the multiple inverse method by eliminating erroneous solutions. *Computers & Geosciences*, 32, 1221-1227.

Yamaji, A. (2000) The multiple inverse method: A new technique to separate stresses from heterogeneous fault-slip data. *Journal of Structural Geology*, 22, 441-452.

Keywords: Stress, Fault-slip data, Multiple inverse method, Tectonics, Crust, Earthquake