

## Additional Information from the Dynamic Shear Strain Variation

# Makoto OKUBO[1]; Yasuhiro Asai[1]; Hiroshi Ishii[1]; Harumi Aoki[1]

[1] TRIES

<http://www.tries.jp/>

Dynamic strain variations caused by earthquake such as the 2003 Tokachi oki earthquake, the 2004 off Kii-peninsula earthquakes, mid Niigata earthquakes, Sumatra earthquake in 2004 and so forth were observed by the strain meter array in the Tono Region, Gifu prefecture. We presume the shear strain component from the observations and pay attention to dynamic shear strain variation of earthquakes.

As the results, we obtained some seismological informations:

- directly presumed shear wave arrival time,

- principal strain axis variations related to epicenter position and seismic moment,

- torsional modes of free oscillations and so forth.

In this study, we report those results.

The power spectrum density of free oscillation induced by the 2004 off Sumatra earthquake is shown below, data length of analysis is 3 days(= 259,200 seconds).

Free Oscillation modes, the 2004 SUMATRA EARTHQUAKE (2004/12/26)

