

## Strain changes for a period of one month from the Sumatora earthquake by the Kamioka laser strainmeter system

# Hideaki Hayakawa[1]; Shuzo Takemoto[2]; Akito Araya[3]; Wataru Morii[4]; Masatake Ohashi[5]

[1] Geophysics, Kyoto Univ.; [2] Earth and Planetary Sci., Kyoto Univ; [3] ERI, Univ. Tokyo; [4] RCEP, DPRI, Kyoto-Univ.; [5] ICRR, Tokyo univ.

<http://www-geod.kugi.kyoto-u.ac.jp/>

The Kamioka laser strainmeter system is a high precision instrument which have observed in the Kamioka mine, 1000m below ground. Unfortunately it was in an unstable state and had missing observation intermittently for a period of a few months including the Sumatra earthquake because of a malfunction of the laser system. Although it was a period containing many noises, for the analysis of the Sumatra earthquake, we obtained the crustal strain from the observed fringe data. We thus report on the strain changes for about one month after the occurrence of the earthquake observed with the Kamioka laser strainmeter.