

Observations of ground deformation used simple-scale strain-meters

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We need observations of ground deformation of many places and with high sensitivity and high signal to noise ratio for research of ground deformation related to seismic events or tectonic movements. But it is difficult to obtain deep tunnels for setting long span strain-meters. And the constructions of many observation sites are costly. We have made a trial manufacture of a simple-scale strain-meter of about 1m span with a mechanical magnification system for installation into constructed tunnels. And the simple-scale strain-meter was installed at Osakayama observatory for comparison with installed long span strain-meters. These records of both strain-meters show the good consistence.