

## Characteristics of ground motion at the Nokogiriyama observatory

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We analysed quartz tube extensometer record, barograph record and tide gauge record in the Nokogiriyama geophysical observation site to recognize the characteristic of the crustal motion in sub-seismic band.

We take power spectral density of the quartz tube extensometer record. then four spectral peak (A,0.07 mHz B,0.12 mHz C,0.2 mHz, D,0.5 mHz) are detected.

Some of them (A,B) are rich in areal strain, and others (C,D) are rich in shear strain.

Further, we compare extensometer record and other records (pressure and tide level) in spectral domain. This compariosn show that C,D peaks correlate with tidal record and B peak correlate with pressure record.

Thus we conclude that C,D peaks in extensometer record caused by movement of sea level and B peak caused by pressure changes.