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Broad band of geophysical signals recorded with an interferometrical tilt meter in Lohja, Finland

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Interferometrical long base water level tilt meter was designed and built at the Finnish Geodetic Institute (FGI) during the last decade. It has been recording broad band of geophysical signals from microseism to free oscillation events beside solid earth tides and ocean and Baltic Sea loading tilt in Lohja Finland from 2008 on.
Microseismic events in Lohja and their spectral analyse and correlation with ocean wave heights in Northern Atlantic is studied.
Case studies of free oscillations after the earthquakes 27.02.2010 in Chile and 11.03.2011 in Japan are presented. Some toroidal and spheroidal free oscillation modes are compared with model values of PREM.