

Tidal deformations observed in Slovakia

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Abstract: Investigation of the Earth's crust deformation is of great interest for studying recent global and geodynamical processes. For this reason a quartz tube extensometer was installed at the tidal station of the Geophysical Institute of the Slovak Academy of Sciences in Vyhne. High precision $10^{-9} - 10^{-11}$ extensometric (strain) data have been used recently to study local tectonic condition. In the paper the results of tidal deformations are presented. The observed amplitudes and phase differences of the main tidal waves were compared with the theoretical values.

Key words: extensometric measurement, tidal deformation

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