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Radon monitoring at the Vyhne tidal station (Central Slovakia)

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Monitoring of the ^{222}Rn concentration in air was carried out since October 2005 to December 2007 at the St. Anthony of Padua gallery near Vyhne town, Central Slovakia. The geological surroundings are built mainly by Variscian granites. The tidal station of the Geophysical Institute of Slovak Academy of Sciences is situated at the gallery. Radon measurements were performed using an alpha particle detector placed approximately 110m from the gallery entrance. Atmospheric temperature and temperature inside the gallery was measured since 2007. The measured radon concentration ranged 2-13kBq/m³. The daily, short term and weak seasonal variations of radon concentration were observed.