

**Radon in Quaternary sediments
covering the geological basement
with contrasting radon index**

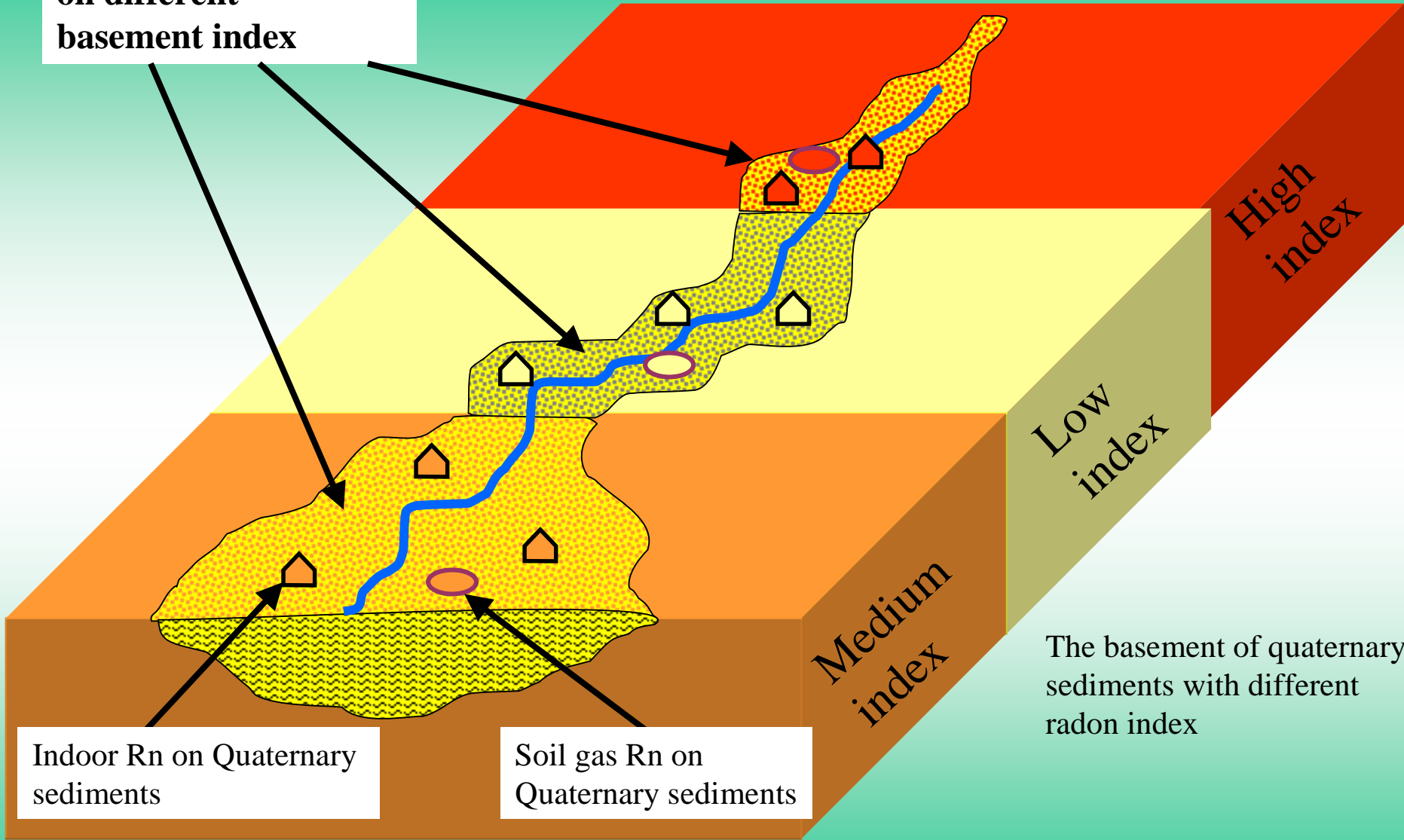
Petra Pacherová – Ivan Barnet

Metodology

- Intermediate radon category:
 - » Intended for Quaternary sediments
 - » 60% of villages
- Quaternary sediments:
 - » inhomogenous
 - » the influence of lateral transport
(drift of the rock fragments)

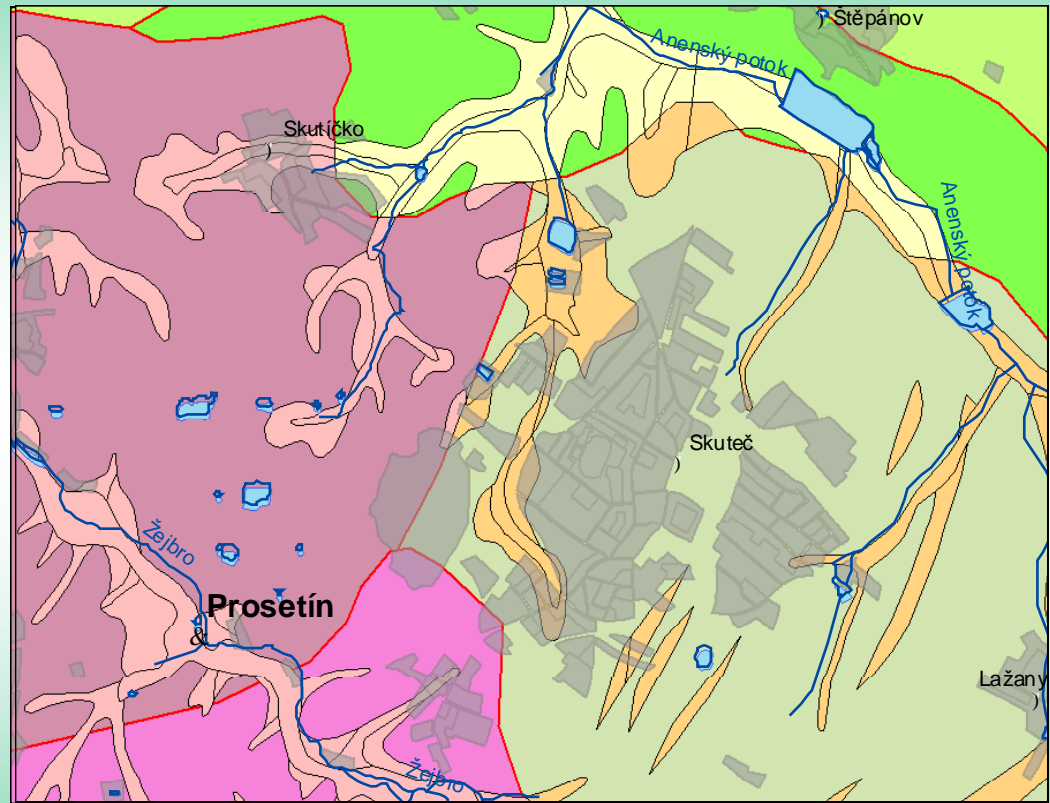


Quaternary sediments
on different
basement index

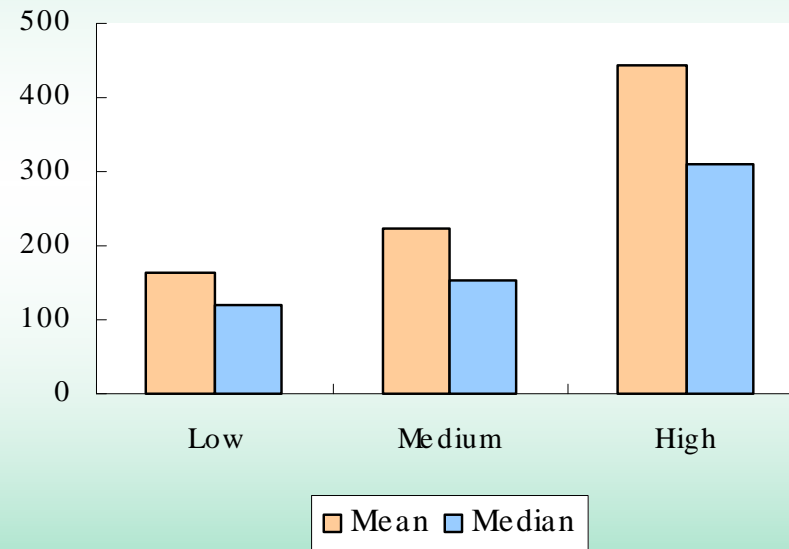


The aim of the research

- Comparison of soil gas radon measured on Quaternary sediments with the indoor radon
 - » Throughout the village
 - » Quaternary sediments only
- The distribution of intermediate radon index into three categories

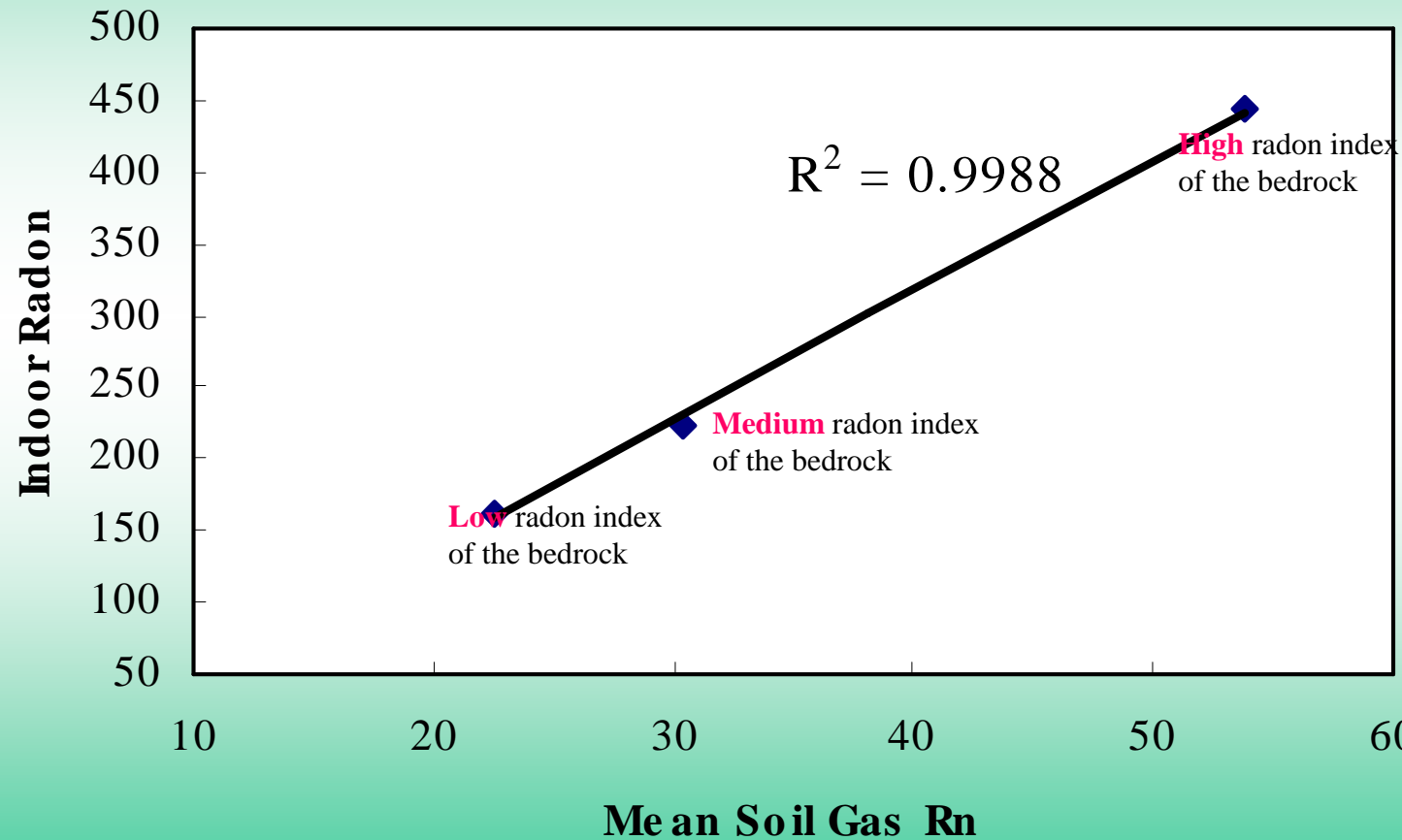


Radon measured on Quaternary sediments: Indoor Rn

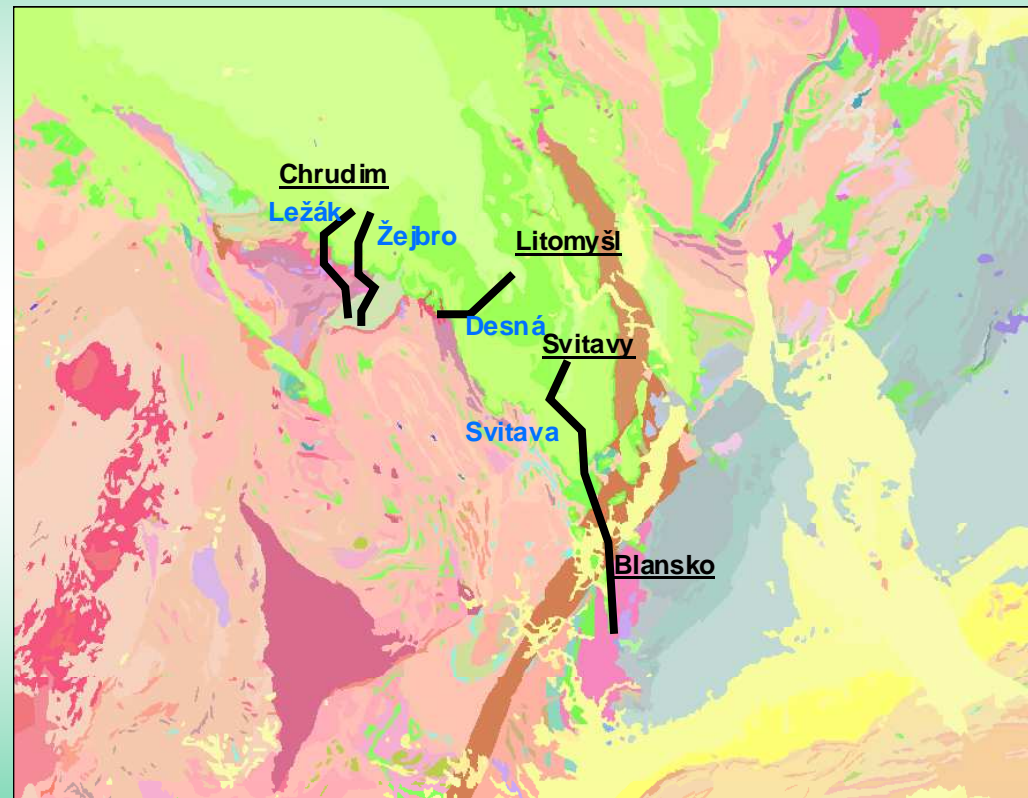


General scale: all the measured data

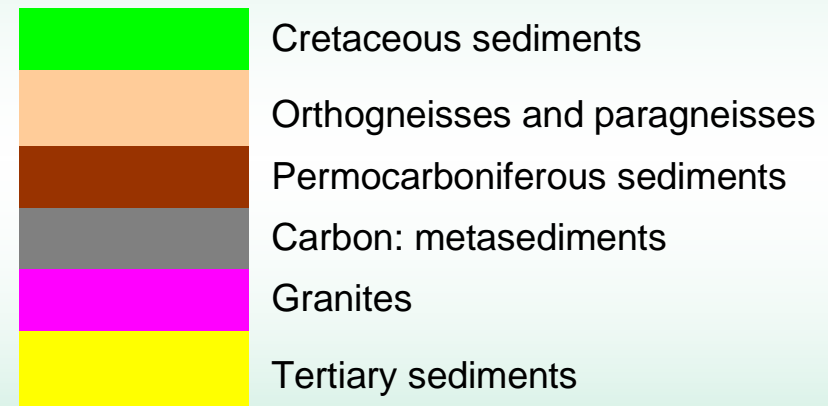
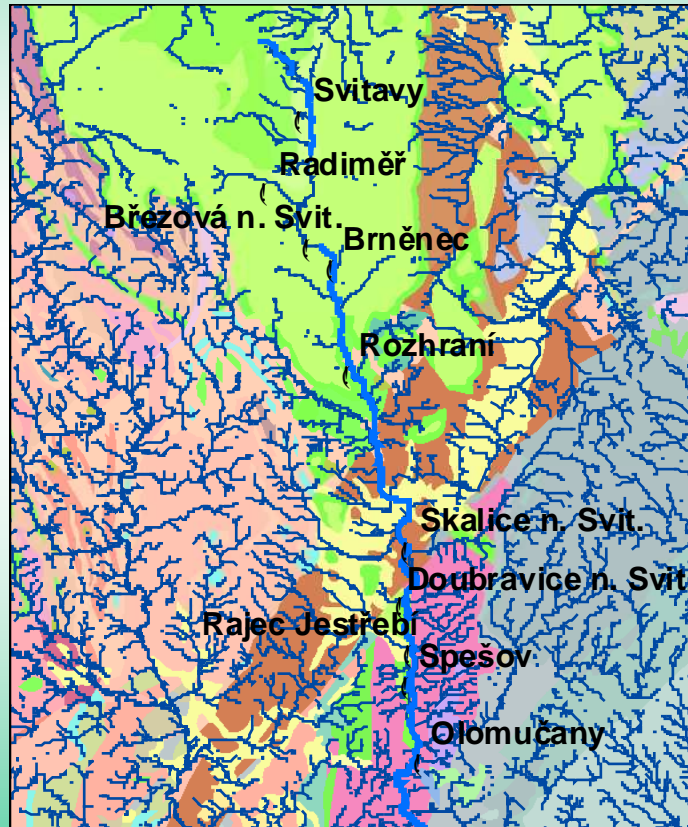
Indoor- Soil Gas Radon relationship



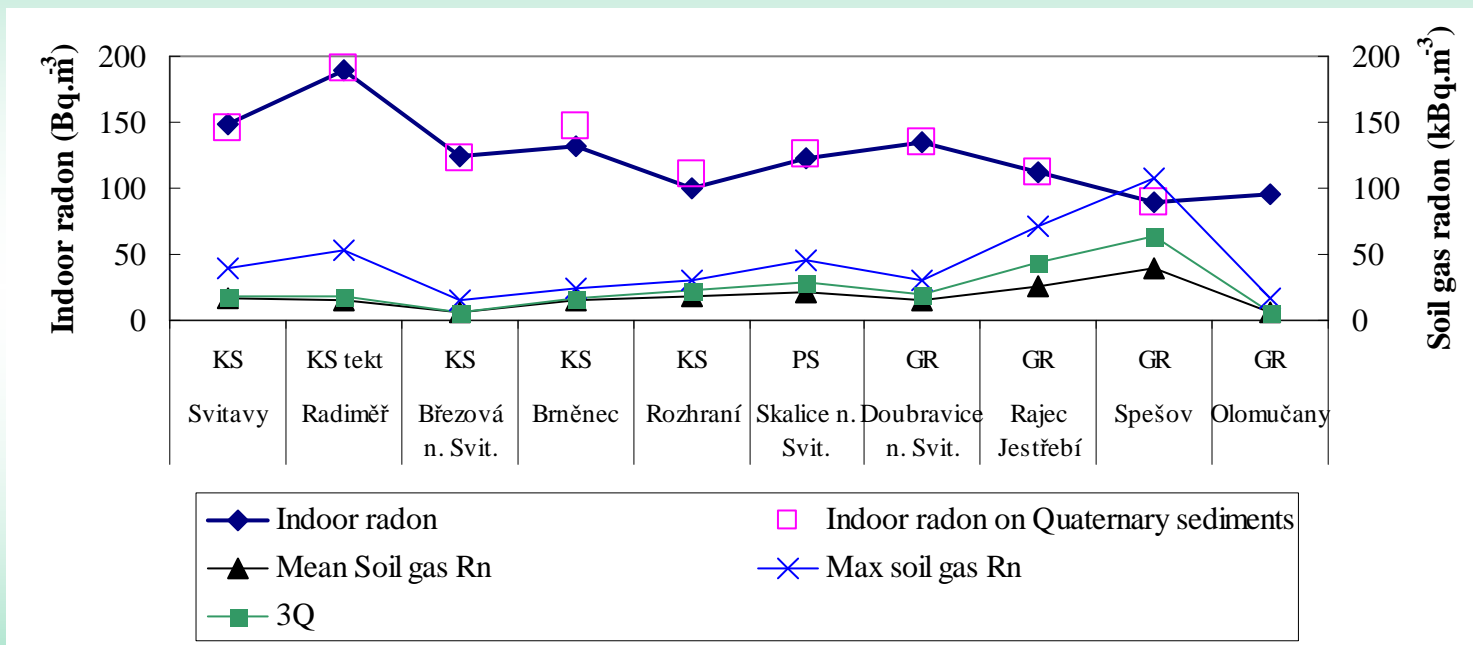
Localisation



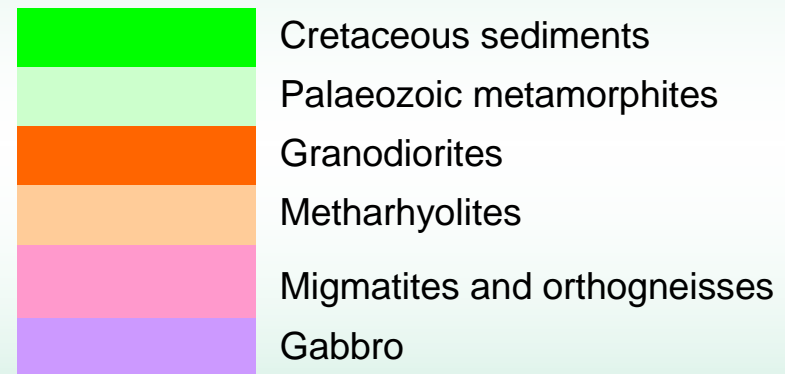
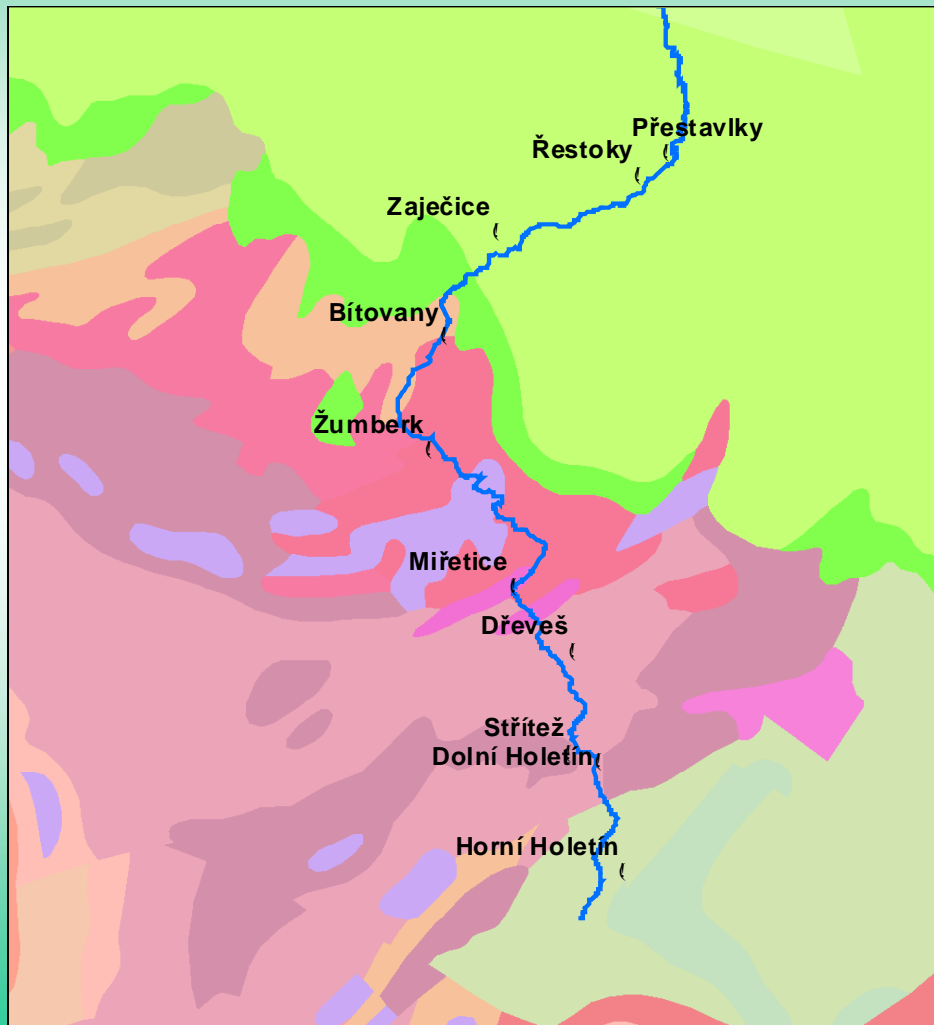
Profile along Svitava



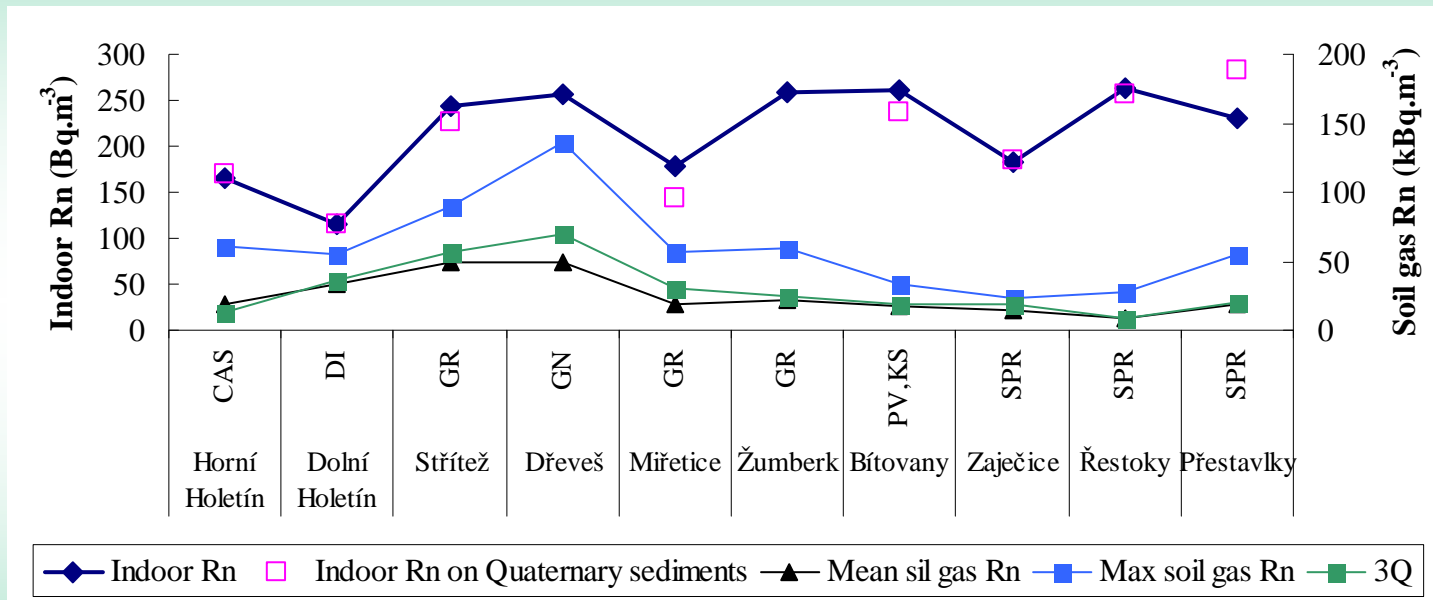
Profile along Svitava



Profile along Ležák



Profile along Ležák

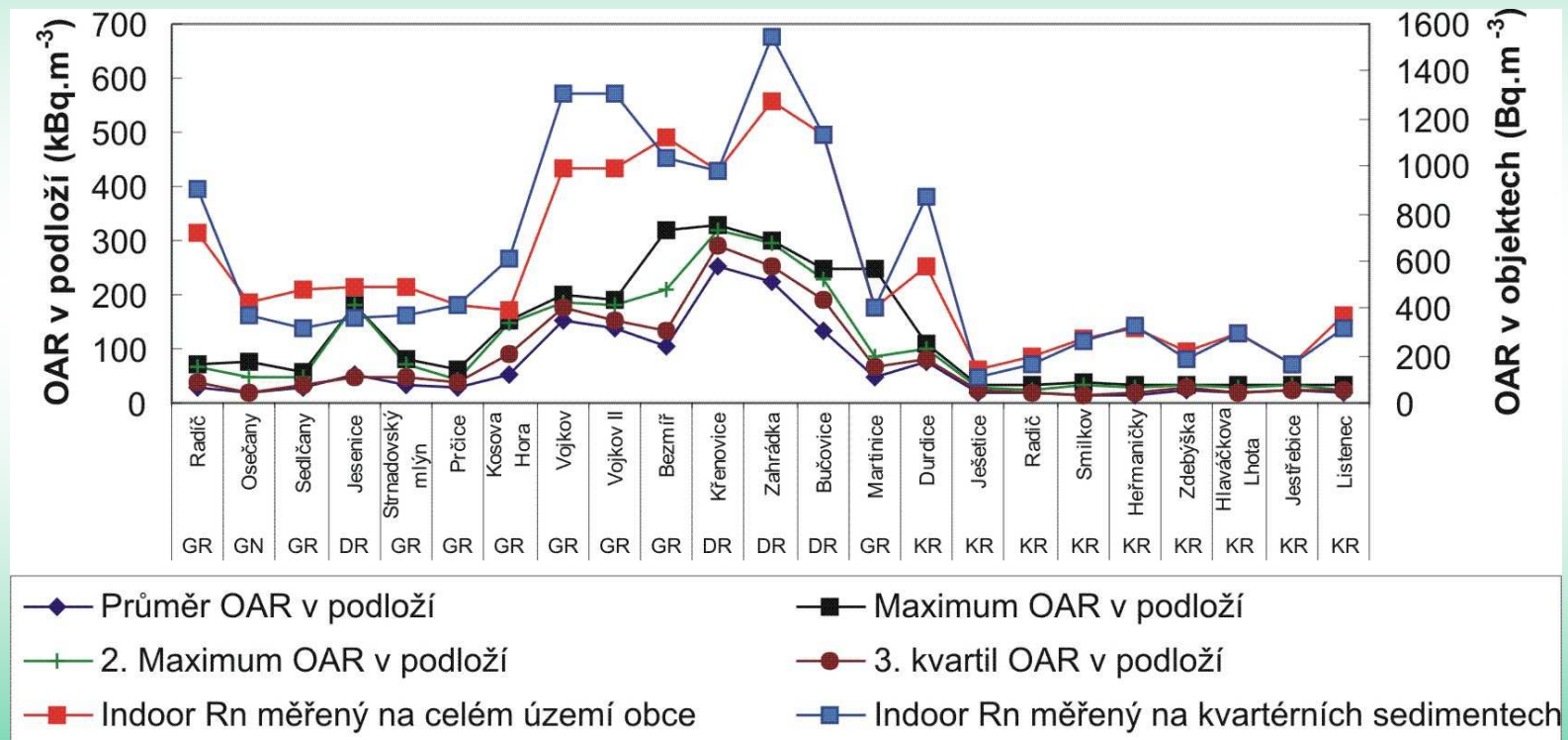


Profile along Mastník



3 1,5 0 3 Kilometers

Profile along Mastník



Summary

- No differences in indoor Rn measured on Quaternary sediments and in the entire municipal territory.
- The effect of lateral transport of sedimentary material along the rivers is marginal.

Summary

- The resulting level of indoor radon volume activity is sensitive to the presence of positive variations in the basement.