

Heat below the city

The impact of rising temperatures on shallow groundwater quality in Vienna

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In the WWTF-funded project University of Vienna, GeoSphere Austria and BOKU University are jointly investigating the effects of groundwater warming on groundwater ecology and water quality in urban areas (Vienna) with the following focuses:

- groundwater fauna and ecology
- groundwater temperature distribution, trends and possible applications of shallow geothermal energy
- hydrogeological and chemical properties of shallow groundwater

Two different sampling campaigns were carried out for the warm and cold state of the shallow groundwater in Vienna (Austria). On the one hand for the ecology and quality at over 150 measuring points and on the other hand for the groundwater temperature at over 900 measuring points. This presentation will focus on the temperature distribution and trends in shallow groundwater in Vienna and the complex interplay of processes that influence the quality of shallow groundwater.

Eva Kaminsky completed her master's degree at the University of Vienna (Geosciences) with a focus on hydrogeology and is doing her doctorate at BOKU University at the Institute of Soil Physics and Rural Water Management. Since March 2024, she has been working as a research assistant at the Natural History Museum Vienna in the Karst and Cave Working Group.



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