

Geochemical Soil Atlas of Switzerland – Distribution of Toxic Elements

Jolanda E. Reusser*, Maja B. Siegenthaler, Lenny H. E. Winkel, Daniel Wächter, Ruben Kretzschmar, and Reto G. Meuli

Abstract: Chemical elements such as copper and molybdenum are essential for animal and human health but may become toxic at elevated concentrations depending on the exposure and intake rate. Other elements such as mercury pose a threat to human health at already low concentrations. The soil acts as the main source of these elements for plant uptake and is thus driving accumulation along the food chain. However, in Switzerland, no nationwide information on elemental distributions in soils has existed up to now. The geochemical soil atlas of Switzerland will fill this gap by presenting the concentration ranges and the spatial distribution of 20 elements in the topsoil. In this summary, we present the methodological approaches and some main findings of the atlas with a focus on toxic elements as well as elements that can be or are toxic at higher concentrations.

Keywords: Geochemistry · Soil chemistry · Soil contamination · Soil mapping · Trace elements

Jolanda E. Reusser is an environmental engineer and received her PhD on the speciation of phosphorus compounds in soil using nuclear magnetic resonance spectroscopy at ETH Zurich. She worked as a postdoctoral researcher on the ‘Geochemical Soil Atlas of Switzerland’ project within the Swiss Soil Monitoring Network (NABO) at Agroscope, Zurich-Reckenholz. Currently, she is employed as a postdoctoral researcher in the group of Inorganic Environmental Geochemistry at ETH Zurich and in the group of Soil Quality and Soil Use at Agroscope.

Maja B. Siegenthaler is an agricultural scientist and conducted her PhD on phosphorus cycling in forest ecosystems at ETH Zurich. She worked as a postdoctoral researcher with a laboratory focus on the ‘Geochemical Soil Atlas of Switzerland’ at Agroscope, Zurich-Reckenholz, and is now investigating soil selenium speciation at Eawag, the Swiss Federal Institute of Aquatic Science and Technology.

Lenny H. E. Winkel is an Associate Professor of Inorganic Environmental Geochemistry at ETH Zurich and Eawag. She obtained her PhD in Geochemistry at ETH Zurich in 2006. After postdoctoral appointments in France, UK, and Greece, in the frame of an EU project, she was awarded a SNSF professorship in 2011 and promoted to Associate Professor at ETH Zurich in 2018. Her current research is aimed at understanding the processes controlling the biogeochemical cycling and environmental distribution of trace elements through a combination of field, lab, and modelling approaches.

Daniel Wächter holds an engineer (FH) degree in Environmental Engineering from the University of Applied Sciences (ZHAW). He recently transitioned to a role as a Data Management Specialist at the Swiss Competence Center for Soil (KOBO), part of the Bern University of Applied Sciences, starting in August 2023. Prior to this, he worked at Agroscope, Zurich-Reckenholz, where he was responsible for quality assurance within the Swiss Soil Monitoring Network (NABO).

Ruben Kretzschmar is a soil scientist specialized in environmental soil chemistry and mineralogy. He received his PhD in 1994 at North Carolina State University, NC, USA, and has been a Professor of Soil Chemistry in the Department of Environmental Systems Science at ETH Zurich since 1999. His recent research focused on the speciation and bioavailability of trace elements in redox-affected soils and their coupling to major elements such as iron, manganese, sulfur, and carbon.

Reto G. Meuli is a physical geographer specialized in soil science. After receiving his PhD from ETH Zurich in 1997 on ‘Geostatistical analysis of regional soil contamination by heavy metals’, he worked as a soil- and contaminated site specialist in Switzerland. From 2008 to 2023, he was the head of the research group Swiss Soil Monitoring Network (NABO) at Agroscope, Zurich-Reckenholz. He was also a board member of the Soil Science Society of Switzerland (2010–2022), of which he was President in 2012–2014.

1. Soil – Source of Essential and/or Toxic Elements

Elements such as calcium and magnesium are essential for organisms, others like mercury and cadmium can pose a health threat even at low concentrations.

The plant uptake from the topsoil (0–20 cm) is considered an important driver for the enrichment of essential and/or toxic elements in animal and human nutrition. In soils, elements originate from various sources, such as weathering of the bedrock or inputs from atmospheric deposition, and are influenced by different mobilisation and immobilisation processes^[1] (Fig. 1).

The quantity of an element taken up by plants not only depends on its chemical form and bioavailability but also on its total concentration in soil. Total element concentrations exhibit great spatial variability due to the various sources and sinks. The spatial distribution of elements in soils can be assessed and visualised in geochemical soil atlases, for example, the geochemical soil atlas of England and Wales^[2] or the geochemical soil atlas of Europe,^[3] in which Switzerland is represented by 17 sampling sites. Based on the spatial distribution, regions with low concentrations of essential elements or toxic concentrations of elements can be defined. Therefore, geochemical soil atlases serve as a basis to develop measures for soil protection and protection of plant, animal, and human health in specific areas. Furthermore, important back-

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