

Geowissenschaftliches Kolloquium

Sulfur cycling processes from mid-ocean ridges to subduction zones

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Sulfur is one of the most abundant volatiles on Earth. Subduction of the variably altered oceanic lithosphere transfers oxidized and reduced sulfur species into Earth's interior, linking the surficial and internal geochemical reservoirs. This talk discusses the sulfur cycling processes along oceanic spreading centers, their impact on the sulfur fluxes into subduction zones and the sulfur speciation within the subducting slab in order to better understand the redox evolution of the mantle and the formation of arc-related ore deposits.



Esther Schwarzenbach received her PhD at the ETH Zürich. After a 3-year post-doc at Virginia Tech she moved in 2015 for a post-doc to the Freie Universität Berlin. Since April 2018, she has a junior professorship in Mineralogy. She studies the links between fluid, rock and microorganisms from mid-ocean ridges to subduction zones, and how these processes control the global geochemical cycles.

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