Geowissenschaftliches Kolloquium

Marine water-rock interaction traced by Si isotopes -

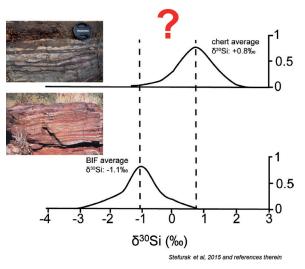
from the Archean to the modern ocean

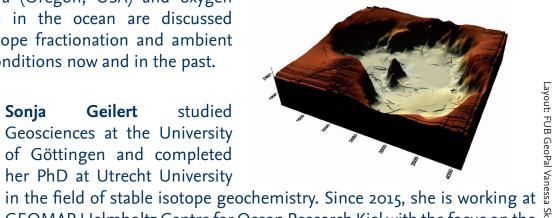
Donnerstag, 14. November 2019 - 16.15 Uhr

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Archean silica-rich sedimentary rocks like cherts and BIFs have been used to reconstruct properties of the early oceans through the study of their Si isotope signatures. However conditions of formation and Si isotope fractionation mechanisms are poorly understood. In this talk, modern Archean ocean analogues like a hydrothermally-influenced crater lake in the Newberry Caldera (Oregon, USA) and oxygen minimum zones in the ocean are discussed regarding Si isotope fractionation and ambient environmental conditions now and in the past.







GEOMAR Helmholtz Centre for Ocean Research Kiel with the focus on the , 201 marine silica cycle and how it is impacted by sediment-water interactions, seafloor alteration, and hydrothermalism through space and time.

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