

Extension Phase of Senior Fellowship for Dr. Lydia A. Olaka: "Quantification of Trends in Groundwater Storage over time and Development of Novel Tools for Sustainable Resource Management in the Central Kenya rift"

Initiative: Wissen für morgen – Kooperative Forschungsvorhaben im subsaharischen Afrika (beendet)

Ausschreibung: Postdoctoral Fellowships "Resources, their Dynamics and Sustainability - Capacity-Development in Comparative and Integrated Approaches"

Bewilligung: 26.06.2018

Laufzeit: 2 Jahre

Projekt-Website: <https://www.hydroshare.org/resource/2a4644eb61864cb2ac683d2de5e4d7db/>

Increased withdrawal of groundwater, has led to rapid depletion, quality deterioration, subsidence, loss of lakes and associated biodiversity in various parts of the world causing concern to users and groundwater managers. For countries in Africa to meet their Sustainable Development Goals on water, they have to deal with water scarcity, pollution and accelerated declines. In the recent years the central Kenya rift has experienced reduced groundwater levels and changes in water quality related to over abstraction in some parts, sustainable management of the groundwater, requires interventions guided by a proper understanding the dynamics and trends within the aquifers due to recharge and abstraction of groundwater. This requires collaboration between scientists and groundwater managers.

Projektbeteiligte

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CAN KENYA (EAST AFRICAN) RIFT BASALTS SEQUESTER CO₂?

Mineralogy and Element geochemistry of volcanic rocks and sediments from the central Rift in Kenya

Organochlorine pesticides in rain, rivers and groundwater in the Lake Naivasha basin and implications for their management.

Tectonic Control of Groundwater Recharge and Flow in Faulted Volcanic Aquifers

Holocene bidirectional river system along the Kenya Rift and its influence on East African faunal exchange and diversity gradients