



Water storage in east africa

Abstract. Water storage plays a profound role in the lives of people across the Middle East and North Africa (MENA) as it is the most water-stressed region worldwide. The lands around the ...

A small-scale water harvesting structure known as a sand dam has gained popularity across East Africa due to the efforts of non-governmental organizations. A sand dam is a subsurface water ...

It aims to characterise and analyse the interannual TWS variations compared to meteorological and geodetic observations of the water storage compartments (surface water, soil moisture, ...

This study investigates the variations in lake water level, surface area, and water storage in East Africa. Lake water levels were derived from ICESat-2 altimetry data, while surface areas were ...

Hydrological drought, a regular phenomenon that could heavily impact natural systems and human life, is aggravated by a water storage deficit. While Gravity Recovery and ...

This study provides new insights into the spatial patterns and temporal variability of groundwater recharge across Africa, highlighting the influence of climate variability on the ...

Water storage changes over Africa continent are assessed in this study in order to detect mass changes and its reasons. To achieve this goal, GRACE monthly gravity field ...

Evaluating the future total water storage change and hydrological drought under climate change over lake basins, East Africa

Discover the advancements in water storage technology transforming East Africa. Explore how innovative solutions are shaping a new era of efficiency and sustainability.

Drought is one of the most challenging climatic events. Recently, the drought influence in East Africa (EA) total water storage (TWS) is a serious problem, particularly in arid areas with ...

Groundwater Storage (GWS) is an important component of the water cycle and a vital resource for supplying water to millions of people as well as sustaining domestic and ...

East Africa's water challenges met with tailored solutions by African Aqua Solutions--offering off-grid filters and versatile storage for a resilient future.

Furthermore, according to the IWMI (International Water Management Institute) report [5] Mozambique is



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among the countries with greatest need for water storage. Therefore, the objective of the present study has been ...

The water depletion is most pronounced for groundwater and over arid and semiarid areas in the central to southern parts involving Iran, Saudi Arabia, Bahrain, and the ...

To disentangle the sources of these changes, we compare TWS with meteorological data and data of the water storage in the lakes, soil moisture, and groundwater.

Water scarcity remains one of the most pressing challenges in East Africa, where reliable, safe, and durable storage solutions are essential not only for households but also for businesses and institutions. ...

Over the last decades, East Africa (EA) region suffered a severe drought over consecutive months, resulting in declining water storage levels, lake storages, river streamflow, ...

The results of this study have implications for how water is managed, considering the measurable impact on water storage of human intervention through GW abstraction in ...

We analyzed multiple observational rainfall data sets for recent decadal trends in mean and extreme seasonal rainfall, as well as satellite-derived terrestrial water storage and soil moisture ...

Abstract The African continent hosts some of the largest freshwater systems worldwide, characterized by a large distribution and variability of surface waters that play a key ...

Rural communities in the Horn of Africa Drylands (HADs) are increasingly vulnerable to multi-season droughts due to the strong dependence of livelihoods on seasonal rainfall. We analyzed multiple ...

As Lake Victoria dominates the surface water storage variations in the region, we further investigate the lake and the downstream Nile River. The Nalubaale Dam regulates ...

The results of this study could help to understand the current regional and basin-scale TWS changes and are of great value to improve sustainable water management and ...

We hypothesize that using filtered water budget component data sets along with observed lake storage anomalies in isolating a groundwater signal from GRACE, more appropriately captures ...

We analyse the contributions of the water storage compartments (WSCs) of soil moisture, surface water storage, and groundwater storage to the interannual TWS variations in the following.

Climate-induced water stress already affects millions and may displace hundreds of millions by 2030. Addressing these challenges requires urgent investment in ...



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