

What is the variation total water storage of Lake Chad?

The variation total water storage (TWS) of Lake Chad is the sum of SWS, groundwater and root zone soil moisture (called subsurface water storage; SSWS). The spatial temporal variation of TWS and root zone soil moisture are estimated using GRACE and GLEAM dataset, respectively, and the variation of SWS is estimated using Eq. (2) 64,67.

Does Lake Chad still have water?

With the supply of groundwater and tropical water sources, the water level and area of Lake Chad, as observed by altimetry and satellite images, have gradually recovered over the past two decades (Pham-Duc et al., 2020).

Why does Lake Chad have more groundwater?

Moreover, since the 2000s, groundwater, which contributes to ~70% of Lake Chad's annual water storage change, is increasing due to water supply provided by its two main tributaries.

Can Lake Chad be a solution to the water crisis?

Given time and cooperation, the people who rely on Lake Chad for water, fishing and daily life may be able to achieve a solution to the water crisis they face. With the natural disasters, sustainable tactics will be vital for restoring Lake Chad. Unfortunately, over the last few decades, Lake Chad's water supply has been diminishing.

Why does Chad have a low water supply?

Increased water extraction for irrigation is estimated to be responsible for at least 50 per cent of this decrease, although repeated severe drought is also to blame. Chad has the third-lowest level of access to safe water and the lowest level of access to adequate sanitation in all of Africa.

Why is Lake Chad so dangerous?

Since they can no longer find food or clean water, competition for these needs has created conflict in the region and the lack of water has also led to unsanitary conditions. The conditions of Lake Chad are not only hostile because of nature. Lack of water has an extreme effect on the human body and children can be among the most vulnerable.

Access to basic drinking water services is at 43 per cent and to sanitation is at 10 per cent (Joint Monitoring Programme, 2017). Less than one in two children has access to safe drinking ...

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Figure 1. (a) Lake Chad Basin's geographical location with its eight riparian countries, which share the interest from the basin, and Lake Chad with a small surface of water in its Southern part. Panel (a) also shows Ngadda Basin where the available in situ data were collected in Maiduguri station, shown in a green point. Panel (b) shows physical delimitations of Lake Chad Basin on ...

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Chad Tate is the author of Emergency Drinking Water Storage (0.0 avg rating, 0 ratings, 0 reviews) and Survival New Big Book Collection (0.0 avg rating, ...

TWS, revealed that water storage in LCB is controlled by sub-surface water since surface water seems to be insignificant, The dominant mode of TWS and SMS exhibited the increase in wetness from the northern to the southern part of the basin with values ranging from 0 to -300 mm and 0 to -200 mm respectively,

Considering the importance of the two river systems that nourishes Lake Chad, the inter-annual variations of water storage from these two drainage systems can be used to ...

Our results indicate that in tandem with groundwater and tropical origin of water supply, over the last two decades, Lake Chad is not shrinking and recovers seasonally ...

There is a national database of water boreholes, which in 2010 was reported to store information on more than 10,000 boreholes and wells across Chad (UNICEF 2010), with variable levels of ...

to the shrinking of Lake Chad. If Chad were to run out of water in the lake, 80% of the population would be out of jobs. In Chad, 57% of the population has limited or no access to food and water. (Chad: Hunger relief in Africa. Action Against Hunger. (2021, September 28)). This lack of water leaves people at risk for disease, regardless of ...

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