Three-change reform water storage

The driving forces of water demand and their effects on water demand variation are obtained based on both the modeling results and the literatures. The structural change in ...

Given the diverse impact of these alterations in individual hydrological flux on the land water budget, changes in terrestrial water storage emerge as an intuitive indicator for ...

Accurate estimation of water storage estimates is important for the reliable assessment of regional water resources and climate variability. The purpose of this study is to ...

While ecological restoration has been promoted for curbing degradation and improving ecosystem health, the impacts on water flux and storage have been understudied. ...

Abstract. We applied Gravity Recovery and Climate Experiment (GRACE) Tellus products in combination with Global Land Data Assimilation System (GLDAS) simulations and data from ...

This study utilized TWSA data derived from the GRACE and GRACE-FO missions to examine water storage dynamics within the context of climate change and ...

Climate change and anthropogenic activities have driven significant terrestrial water storage changes (TWSC) in the Three Rivers Source Region (TRSR), exerting profound ...

Terrestrial water storage (TWS) is the vertical sum of all water component changes, including snow/glacier, canopy water, soil moisture, surface water, and groundwater ...

Global terrestrial water storage (TWS) anomalies reached a record low of -6697 km 3 in 2023, decreasing 759 km 3 from 2022. These reductions reflect widespread droughts ...

The State Council Information Office held a press conference Wednesday in Beijing on making solid progress in water management and comprehensively upgrading the country"s capacity to ...

1 Water reform: background and scope of the 2003 National Competition Policy assessment The Council of Australian Governments (CoAG) agreed in 1994 on a water resource policy and ...

These studies have quantitatively assessed the Terrestrial Water Storage (TWS) changes from GRACE and surface water volume changes from satellite altimetry and imagery, ...

In this study, we implement a statistical downscaling approach that assimilates 0.5° × 0.5°

water storage fields from the WaterGAP hydrology model (WGHM), precipitation ...

This Article uses water law reform as a vehicle for examining how legal transitions prompted by climate change might match the urgency of this slow--but inexorable--process. Climate ...

These changes are leading to an intensification of the water cycle that manifests as more frequent and stronger droughts in some areas, and pluvials in others.

Large-scale vegetation restoration has markedly enhanced ecosystem services in the Three-North (TN) region, concurrently exacerbating the pre-existing water resource crisis stemming from ...

Specifically, studies by Tollnerm et al. (1990) and Broersma et al. (1995) showed that land use changes from natural and semi-natural vegetation to cultivated and grazed lands ...

The construction and operation of large-scale hydraulic projects improve water resource utilization efficiency, but negatively impact ecology and envi...

The Water Services Reform Programme has four key outcomes: safe, reliable drinking water. better environmental performance of wastewater and stormwater services. efficient, ...

This paper compares the spatial and temporal differences of the TWSC estimates by the three methods comprehensively with the GRACE data during the 2002-13 ...

o Three ML methods bridged data gap between two generations of GRACE satellites. o Variability and trends of terrestrial water storage anomaly across China was analyzed.