China s water storage

Validation results suggest that our proposed scheme can well reproduce the storage variations of China"s major reservoirs, and the coupled model exhibits a satisfactory ...

To obtain reliable water storage estimates for each reservoir and derive the ...

Model estimates of China"s terrestrial water storage variation due to reservoir operation

2 ???· NANJING, Dec. 13 (Xinhua) -- China"s reservoirs have witnessed a total increase in storage capacity of approximately 470 billion cubic meters, or 90.8 percent, since the year 2000.

China"s fresh water resources include 2500 cubic kilometers of mean annual run-off in its rivers and 828.8 cubic kilometers of groundwater recharge.As pumping water draws water from nearby rivers, the total available resource is less than ...

The enhanced monthly water coverage data can therefore provide a more accurate and continuous estimation on water level and water storage change for China"s lakes and reservoirs. Note, for enhanced monthly water coverage ...

In contrast, anthropogenic activities (agricultural irrigation, industrial water use, etc.) and accelerated glacial melting due to global warming are the dominant factors in the ...

Attributing terrestrial water storage variations across china to changes in ...

Our study uncovered the spatiotemporal characteristics of water storage change in China"s lakes and reservoirs and also demonstrated the advantage of combining Landsat derived products, ...

Model estimates of China"s terrestrial water storage variation due to reservoir ...

To obtain reliable water storage estimates for each reservoir and derive the total reservoir water storage in China, we developed and selected optimal multi-parameter fitting ...

The project diverts natural resources to one mega-region at the expense of another, adversely impacting the social well-being of the southern water-supplying region and challenging China"s domestic stability in the long ...

and its role in China"s terrestrial water storage (TWS) over recent decades. W e estimate that, ov er a seasonal cycle, China"s RW S variation is 15%, 16%, and 25% of TWS variation during ...

China s water storage

Terrestrial water storage (TWS) which includes groundwater, soil moisture, surface water bodies, glaciers, snow water equivalent, and canopy water play a key role in ...

Our findings unveiled compelling insights into the seasonal dynamics of reservoir water storage across diverse regions of China. We observed a consistent pattern of ...

The two GHMs are selected because they are two of the few GHMs that simulate human effects on water storage. WaterGAP simulates global water storage and ...

With all these unsolved issues, the water storage dynamics of China"s reservoirs and its interaction with China"s terrestrial water cycle over the long term have not been well ...

Here, we quantify the effect of coal mine closure on terrestrial water storage (TWS) in China using satellite data and a staggered difference-in-differences approach. Our ...

spatio-temporal evolution of terrestrial water storage and its components in nine major watersheds in China. The random forest method was used for analyzing the relative contribution rate of...

Attributing terrestrial water storage variations across china to changes in groundwater and human water use

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