

Where does water storage increase in China?

Specifically, Northeast China, the YR, and Southwest China, where deeper reservoirs predominate, witnessed a significant rise in total water storage, whereas the shallower reservoir-dominated Eastern China and Northwest China reported declining water storage.

Why does China need more water storage capacity?

This has led to a series of water and soil resources problems. The imbalance between supply and demand of water resources in China is mainly concentrated in these regions. To alleviate the problem, it is necessary to increase the water storage capacity.

When should a reservoir be stored in China?

This reveals a common reservoir management policy of keeping a high water level at the end of the wet season to meet the water demand for the forthcoming dry season. On the other hand, the minimum monthly reservoir storage occurs between March and April for Southern China but around June for Northern China.

How fast does water storage increase in Northeast China?

In Northeast China (NE), large reservoirs witnessed an expansion in both inundated area and water storage, with rates of $113 \pm 20 \text{ km}^2$ per year ($2.9 \pm 0.5\%$ per year) and $3.2 \pm 0.6 \text{ km}^3$ per year ($4.0 \pm 0.8\%$ per year) over the entire study period.

What factors influence reservoir water storage in China?

Inter- and intra-annual variability in reservoir water storage is mainly influenced by natural inflow in Northeast and Northwest China, while anthropogenic factors dominate in the YR, Eastern, and Southwest China. Reservoirs can supply water, control flood and provide electricity.

How many large reservoirs are inundated in China?

We derived monthly inundated areas for 721 out of 785 large reservoirs in China, and estimated monthly water storage changes at 662 reservoirs, encompassing a remarkable 93% of the total storage capacity of all large reservoirs in China.

Pumped Hydro Storage (PHS) is the most diffused electricity storage technology at the global level, and the only fully mature solution for long-term electricity storage. China has already the ...

The average annual regulated water storage of the reservoirs is estimated at 465.74 km^3 , accounting for 43.72% of the total designed water storage of reservoirs in China. ...

Water scarcity is a global crisis for social development in the present and future. As the world's most populous country, China's per capita freshwater resources are far below ...

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