

How does Dongting Lake affect the Yangtze River?

Engineering projects like the Jingjiang River cutoff, Gezhou Dam, and Three Gorges have impacted runoff and sediment exchange between Dongting Lake and the Yangtze River. Chenglingji, at Dongting Lake's exit, receives significant runoff and debris as the Yangtze makes a sharp 90° turn.

What factors influenced the evolution of Dongting Lake?

Analysed spatiotemporal evolution and driving mechanisms in eastern and southern Dongting Lake. Meteorological, hydrological, and cultural factors shaped Dongting Lake's spatiotemporal dynamics. Analysed the impact of different key industries on the evolution of the lake.

Where is Dongting Lake?

Dongting Lake (Fig. 1) is located in northern Hunan Province, between 111°40'–113°10' E and 28°30'–30°20' N, on the south bank of the middle Yangtze River. The terrain slopes from south to north and comprises three sub-basins. Covering 262,800 km², it is China's second-largest freshwater lake with a complex water system.

Is Dongting Lake a channel erosion hazard?

A certain period of erosion is expected to occur in the middle and lower reaches of the Yangtze River, and alterations in the source and sink status of Dongting Lake reflect changes in the Yangtze River channel erosion state and the relationship between Dongting Lake and the Yangtze River to some extent.

Abstract Abstract: To prevent and reduce a variety of shipping traffic accidents caused by meteorological disasters, it analyzes and explores their "spatio-temporal change and driving factors by using the ...

Based on the advantages of remote-sensing images for lake monitoring, we used Landsat images to study the spatiotemporal evolution and driving mechanisms of Dongting Lake. Dongting ...

The time-domain buffeting response and fatigue performance of Yue yang Dongting Lake Suspension Bridge are realized by mixed programming with MATLAB and ANSYS.

Discover a more accurate approach to analyzing wind-rain-induced vibrations in the Dongting Lake Bridge. Our study proposes a wavelet-based nonstationary wind speed model, ...

China has sealed the dike breach along China's Dongting Lake. The breach occurred in a township in Hunan Province last Friday due to floods. Reporter Wang Mengjie talks to experts about ...

The Dongting Lake Basin is a typical regional study in humid southern China with data-scarce areas. This study improved the streamflow simulation by co...

the accuracy performance of three mainstream wind speed products in the Dongting Lake area, identified the best data fusion method, and generated an annual set of 1 km/h resolution wind ...

Abstract This paper is completed under the subsidy of Natural science fund project in Hunan Province and Subject of research association of sustainable development of Dongting-lake. Dongting-lake is ...

The Yangtze River-Dongting Lake link has gotten a lot of attention as a because of the Three Gorges Project. However, the hydrological dynamic process and future direction of the river ...

Dongting Lake, large lake in northern Hunan province, south-central China. It lies in a basin to the south of the Yangtze River (Chang Jiang) and is connected to the Yangtze by four channels. Typically, ...

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