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Hydrologic Drivers of Harmful Algal Blooms in two Piedmont Reservoirs

Abstract:

Reservoirs are central to freshwater resource management in the Southeast, but are often at risk of eutrophication and recurring harmful algal blooms. While the extreme hydrologic events such as flooding and drought are thought to control the onset and success of these blooms, the spatiotemporal dynamics are yet to be fully understood. This study looked at the systems of blooms, storms, and drought in Lake Allatoona and Lake Lanier using historical datasets and satellite remote sensing, and modeled the relationships in time and space.

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