

Strategies of Coastal Tidal Flats Protection and Restoration Management In the Yellow River Delta, China

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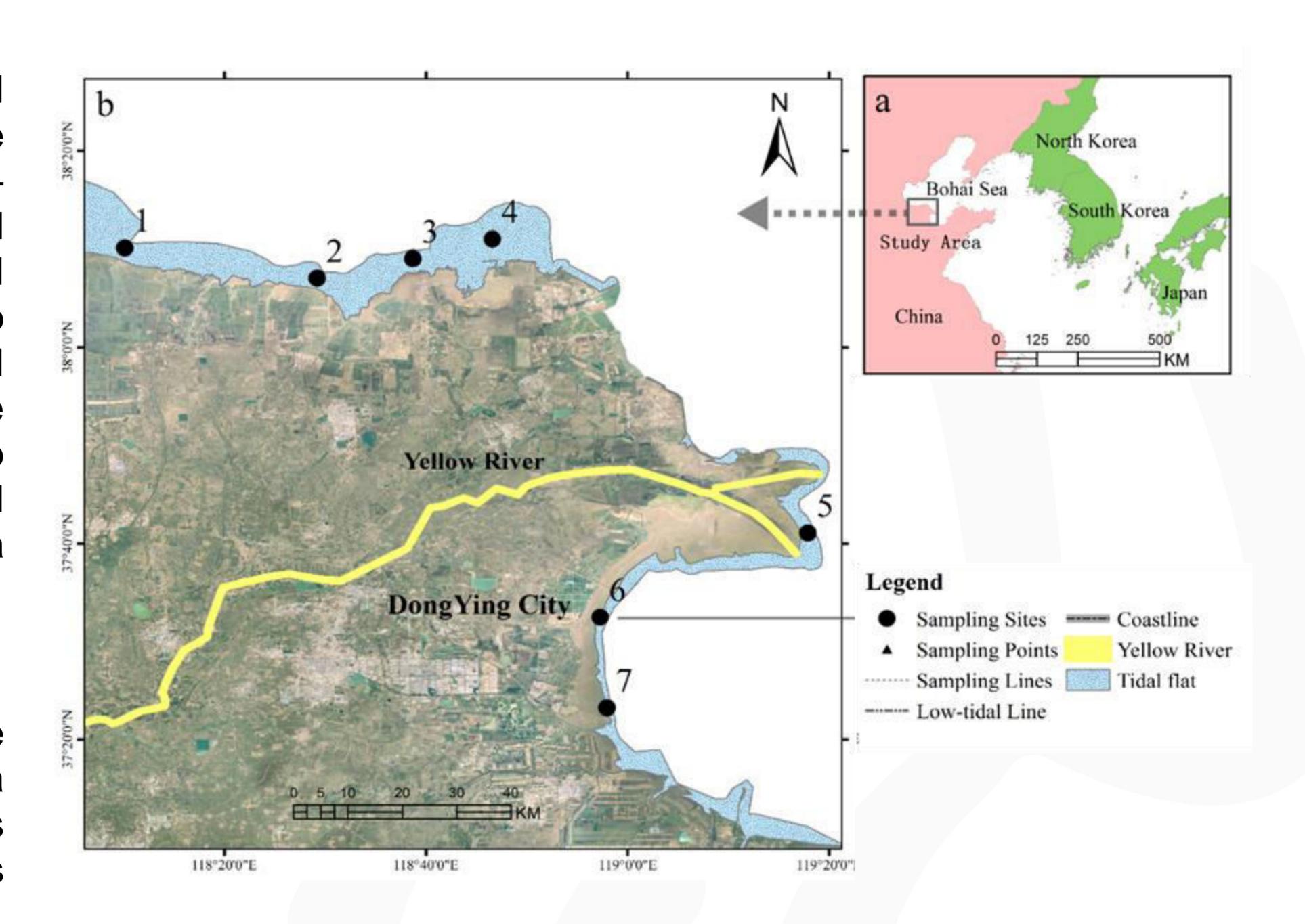
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Objectives

The coastal tidal flat is the most important natural wetland in the Yellow River Delta, facing the pressure of the landscape fragmentation, subhealth of ecosystem, biological invasion and environmental pollution. Carrying out ecological conservation and restoration is an urgent need to implement China's national strategy of "Ecological conservation and high-quality development of the Yellow River Basin". This study is expected to provide reference to the conservation and restoration management of the Yellow River Delta coastal wetland.

Methods

Based on the literature and field investigation, the ecological environment of the Yellow River Delta coastal tidal flats was analyzed, the current status of conservation and restoration management was sorted out.



Management Problems

- •The ecological and environmental management of coastal wetlands were inconsistent between administrative regions in the Yellow River Delta.
- •No integrated maritime and land regulatory mechanism, that can achieve refined and efficient management, has been established.
- •The effectiveness of ecological and environmental restoration projects was not monitored.
- •There was little public participation in ecological and environmental protection in the Yellow River Delta.



Management Suggestion

- •The top-level design of improve laws and regulations to ensure the consistency of laws and regulations between administrative regions.
- •Regional comprehensive coordination and management institutions shall be established to realize regional coordination, departmental coordination and superior subordinate linkage mechanisms to improve management efficiency.
- •A coordinated and integrated maritime and land regulatory mechanism is established, including red line demarcation, management systems, industrial layout planning, pollution source control, monitoring systems, and national parks.
- •A supervision system for ecological and environmental restoration project is established, in order to promote information management and long-term mechanism.
- •Popularization of science is strengthened, and public participation platforms, think tanks and judicial mechanisms are built.