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## **Analysis and Design of Decision Support System Based** on Remote Sensing for the Yellow River Delta Wetland

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The Yellow River brought large sediment to the estuary every year, which forms a freshwater delta wetland system. In the later 28 years of the last century, the river course was with zero-flow up to more than 1000 days in thereinto 22 years, which causes the wetland area reduced rapidly, the ecosystem degraded greatly and the wetland's life was threatened. Since the water regulation controlled, the water from the river made the wetland eco-environment system recovered quickly. Water supply quantity and annual allocation is the determinant factor for maintaining health of wetland system. For ensuring water supply into wetland, a decision-making support system was proposed based on remote sensing monitoring in this paper. This system will include wetland environment information interpretation model, intelligent decision model and water supply model etc.