This study pioneers a combined eco-geomorphic and machine learning approach to predict the future of tidal marshes under rising sea levels and changing sediment supplies. Testing in Spanish marshes revealed potential losses of 6.7%–87.5%, emphasizing the urgency of action. The methodology offers global applicability, enabling precise, local-scale simulations to inform conservation and adaptation strategies. Explore the science behind this critical innovation and its implications for coastal ecosystems.

Read the article entitled **Eco-geomorphic modelling response of tidal marshes to sea level rise and changes in suspended sediment supply** by Beñat Egidazu-de la Parte, Stefano Balbi, Ferdinando Villa, Diego Bengochea, Andrea Celeste Curcio, Cristina Galván, Carlos J. González, José A. Juanes, Bárbara Ondiviela, Gloria Peralta, Araceli Puente, Elvira Ramos, Concepción N. Rodríguez-Rojo, Marta Pascual.

The full article is available at:
https://www.sciencedirect.com/science/article/pii/S0048969724083220

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