## Coastal Processes and Erosion: Protecting Shoreline Ecosystems

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## **Abstract**

Coastal ecosystems worldwide are under increasing threat from coastal processes and erosion, exacerbated

protection strategies, such as soft and hard engineering approaches, integrated coastal zone management, and policy

to ensure the resilience and sustainability of coastal ecosystems in the face of ongoing environmental challenges.

e protection of shoreline ecosystems is paramount not only for biodiversity conservation but also for safeguarding coastal communities against the adverse eects of erosion [1] Eective management strategies must integrate scientic understanding of coastal processes with sustainable practices to mitigate erosion impacts while preserving the ecological integrity of these critical environments. Pexploring the intricate interactions between coastal dynamics, erosion phenomena, and ecosystem resilience, we can formulate holistic approaches to ensure the long-term sustainability of our coastlines and the invaluable ecosystems they support.

is introduction sets the stage for an exploration into the complexities of coastal processes, erosion dynamics, and the imperative of protecting shoreline ecosystems through informed and proactive management practices.

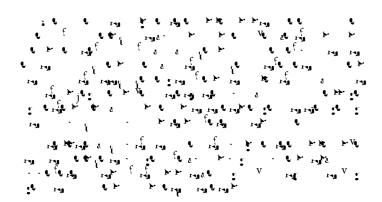
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