

The Role of Wetlands in Carbon Sequestration

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Abstract. Wetlands play a crucial role in carbon sequestration, mitigating climate change effects. This article examines the capacity of different wetland types to store carbon and their potential in climate change mitigation. We evaluate restoration projects and propose strategies to enhance the carbon storage capabilities of degraded wetlands.

Keywords: Wetlands, Carbon Sequestration, Climate Mitigation, Ecosystems, Restoration

Introduction

Wetlands are vital ecosystems that contribute significantly to carbon sequestration, helping mitigate the effects of climate change. This study explores the potential of various wetland types, including marshes, swamps, and peatlands, to store carbon effectively. We assess the factors influencing their carbon sequestration capacity and examine the impact of human activities on these ecosystems. By analyzing restoration projects and current management practices, we propose strategies to enhance the carbon storage potential of degraded wetlands. Our findings emphasize the importance of wetland conservation and restoration in global climate change mitigation efforts, highlighting their role as natural carbon sinks that support biodiversity and ecosystem health.

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References

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