

# **The Impact of Deforestation on Carbon Sequestration**

**Cameron Allen**

PhD

University of Copenhagen

Nørregade 10, 1165 København, Denmark

**Pat Turner**

Dr.

University of Helsinki

Yliopistonkatu 4, 00100 Helsinki, Finland

**Kim Martinez**

Prof.

University of Chile

Av. Libertador Bernardo O'Higgins 1058, Santiago, Chile

**Abstract.** This article examines the impact of deforestation on carbon sequestration capabilities of forests. By analyzing changes in biomass and carbon storage, the study highlights the critical role forests play in mitigating climate change. The research urges for effective conservation policies to preserve these essential carbon sinks.

**Keywords:** Deforestation, Carbon Sequestration, Biomass, Climate Change, Conservation Policies

## **Introduction**

Forests are vital carbon sinks that absorb and store carbon dioxide, thereby playing a crucial role in mitigating climate change. However, deforestation poses a significant threat to these natural carbon sequestration processes. This study investigates the impact of forest clearing on biomass and carbon storage, revealing the extent to which deforestation undermines the capacity of forests to act as carbon reservoirs. By highlighting the importance of preserving forest ecosystems, the research advocates for the implementation of effective conservation policies to maintain their role in climate regulation.

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## **References**

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