

Study of Mangrove Forests Using Google Earth Engine

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Abstract:

Mangrove forests are crucial ecosystems that provide valuable goods and services while serving as carbon sinks. These ecosystems act as natural buffers against coastal erosion, mitigate the impacts of climate change, and support diverse biodiversity. However, they are increasingly threatened by rising sea levels, changing salinity patterns, and anthropogenic activities such as deforestation and urbanization. Monitoring the health of mangrove forests is critical for ensuring their conservation and long-term sustainability. This study investigates vegetation dynamics in a selected region using satellite-derived indices, specifically the Normalized Difference Vegetation Index (NDVI) and the Normalized Difference Chlorophyll Index (NDCI).

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