

Deforestation Cloud Regimes Visualization

This repository contains Python code and precomputed `.pkl` data files, as well as the related shapefile used to generate the figures for the paper “*Deforestation Triggers State-dependent Cloud Regimes in the Amazon*”, submitted to AGU Journal: *Earth's Future*. The code visualizes cloud fraction changes (ΔCF) over forested and non-forested regions and produces Figures 1–6 from the manuscript main text.

Usage

1. Place the `.pkl` files and all components of the shapefile (`.shp`, `.shx`, `.dbf`) in the same folder as the script, or update the `data_path` variable accordingly.
2. Run the Python script to reproduce all figures.

Requirements

- Python 3
- Packages: `numpy`, `matplotlib`, `cartopy`