



TRACMIP: Tropical Rain Belts...



Slab Ocean Aquaplanet + Idealized Continent

Present day + 4xCO2 + mid-Holocene

STATUS: the dataset is frozen and available for cloud access or download.

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TRACMIP

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TRACMIP IN PANGEO GOOGLE CLOUD STORAGE

Load in Python

```
from intake import open_catalog

cat = open_catalog("https://raw.githubusercontent.com/pangeo-data/pangeo-datastore/master/intake-catalogs/climate.yaml")
ds = cat.tracmip()
```

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


Main scientific outcomes




1. The relationship between ITCZ position and equatorial energy transport is not linear in the annual cycle and changes across climate states.
2. Diffusion of moist energy forces polar amplification under $4\times\text{CO}_2$
3. Wintertime cooling of the continent forces an equatorial cold tongue/double ITCZ system downstream
4. TRACMIP tropically confined continent supports a monsoon in the ITCZ-like regime (Africa-like), not in the angular-momentum conserving regime (India-like).





Outlook

We currently build upon TRACMIP to investigate the effect of land characteristics and their interaction with resolved convection in the ICON model.

<https://gitlab.phaidra.org/climate/tracmip>


 **TRACMIP** 
Project ID: 590 



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22 Commits  1 Branch  0 Tags  76.3 MB Files  76.3 MB Storage

Repository of the TRACMIP: Tropical Rain belts with an Annual cycle and a Continent Model Intercomparison Project.



TRACMIP is led by Aiko Voigt (University of Vienna) and Michela Biasutti (Lamont-Doherty Earth Observatory).


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Web IDE

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 Update README.md
Aiko Voigt authored 2 months ago

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