

README

Dataset for “Reduced ice loss from Greenland under stratospheric aerosol injection”

Zip archives

- SICOPOLIS_Scalar.zip
14 netCDF output files for scalar variables as functions of time produced by SICOPOLIS
- ElmerIce_Scalar.zip
14 netCDF output files for scalar variables as functions of time produced by Elmer/Ice

14 model experiments

- HIST_MIROC5-RCP85: Historical simulation 1990–2015.
- CTRL_PROJ: Unforced projection control experiment 2015–2090.
- <GCM>-<Scenario>: Future climate experiments 2015–2090,
where <GCM> = {BNU-ESM, HadGEM2-ES, MIROC-ESM, MIROC-ESM-CHEM}
and <Scenario> = {RCP85, RCP45, G4}

Scalar variables (every full year)

t	–	Time
delta_ts	–	Surface temperature anomaly (average over ice sheet)
SMB	–	Total surface mass balance
calv	–	Total calving rate
V_tot	–	Ice volume
V_af	–	Ice volume above flotation
V_sle	–	Ice volume above flotation in sea-level equivalent (SLE)
A_grounded	–	Area covered by grounded ice
A_floating	–	Area covered by floating ice

For further details, please see the metadata in the netCDF files and the manuscript.