



Forcings Task Team Core Goals

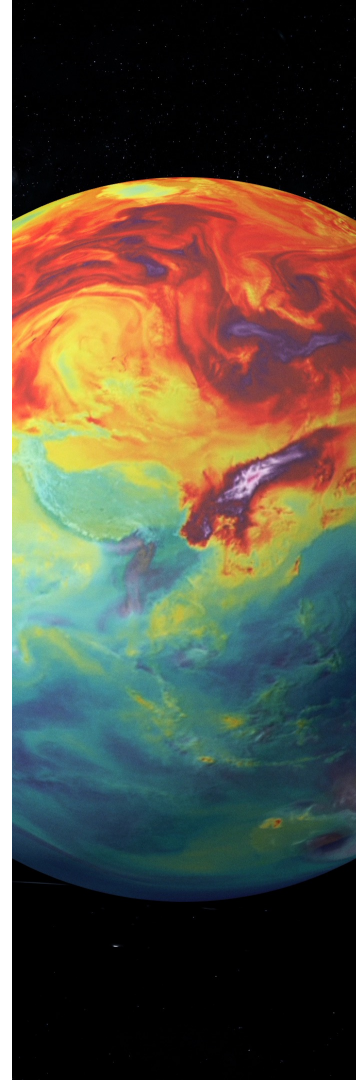
Approved by all TT members - April 2023



Goal 1

Evaluate and document the CMIP6-era forcing collection and identify issues, coverage gaps, or omissions through an open community survey.

- Catalogue development timelines, processes, and funding sources for CMIP6-era forcings, and use this information to identify development timelines
- Back-fill CMIP6 forcing datasets not published into input4MIPs (CMIP5, 3)





Goal 2

Identify forcings for current and next generation climate models in support of CMIPs.

- Identify easy format/standardisation updates
- Identify opportunities for consistency improvements across datasets

Goal 3

Work with teams to identify, develop, document and deliver an updated and expanded forcing collection to near real time.

- Deliver CMIP DECK/historical simulation forcings extended to at least 2021 by 2024
- Identify format/standardisation updates to facilitate “operational” use by modelling groups
- Coordinate with IAM community to ensure harmonization with future scenarios
- Facilitate and advocate funding of next generation forcing datasets
- Leverage and extend community tools to generate and evaluate datasets
- Aspire to deliver annual updates for all historical forcings, and work towards reducing roadblocks to achieve this aim.





Goal 4

Coordinate with modelling groups to define and perform routine experiments for evaluation, generate simulations and gather feedback with these new forcing collections.

- Use feedback to inform experimental design
- Coordinate across Model Benchmarking and Strategic Ensemble Design Task Teams
- Consider opportunities to connect to other modelling communities (e.g. IAMs and SCMs: FaIR, MAGICC, HECTOR, AIM, GCAM, IMAGE, MESSAGE-GLOBIOM, REMIND-MAGPIE, FIRE-MIP ...)
- Consider opportunities to connect to other projects that consider climate forcing (e.g. EU H2020 CONFESS (ECMWF) and Horizon Europe OptimESM (SMHI), WCRP ESMO EPESC, Global Carbon Project, IPBES, GCB, ...)