

Open call for membership of the Task Team on Data Access for CMIP7

The demand for and interest in CMIP data is growing rapidly with users coming from an increasingly diverse range of backgrounds beyond the climate research community including climate services, impact modelling, regional and local policy/decision makers, and indigenous communities from across the globe. The CMIP6 Community Survey highlighted a number of opportunities for increasing equitable access to, and the utility of, CMIP data. These include:

- Streamlining and making the processes for supplying CMIP-compatible data more accessible.
- Simplifying the user experience for data provisioning, access, and use.
- Facilitating community tool development.
- Supporting wider access to compute and analysis platforms.
- Reducing technical and resource-limitation barriers particularly for those in the global south.

This task team will seek to smooth the path between the conception of experiments and the use of the resulting data.

Desired experience

We hope to assemble a diverse and multidisciplinary team of 8-12 experts representing the range of CMIP-like data providers, data users, and infrastructure providers. We are especially keen to ensure representation from all global regions and across career stages. We welcome applicants with some or all of the following skills and experience:

- Experience in providing data to coordinated experiments including but not necessarily limited to CMIP.
- Experience in the large-scale use of CMIP or CMIP-like data including under strong resource constraints.
- Experience in the distribution of data to user communities at large scale.
- Experience in the provisioning of computing services to user communities.
- Technical communication and moderation skills applicable to the climate science domain, experience in dealing with transdisciplinary projects, working across cultures and time zones, understanding, and achieving diversity goals.

Task Team Objectives

This task team will build on the CMIP6 Community Survey feedback and conduct further community and stakeholder engagement to determine the data provisioning and access needs for CMIP7 and related activities. We will then prioritise key areas of action and work with users, CMIP-related infrastructure teams, and other stakeholders (e.g., IPCC) across the globe to deliver user co-created solutions. These will guide the implementation in the CMIP7 cycle, within the limitations of available or projected human and financial resources.

Early TT objectives will be to:

- identify key barriers to data provisioning and access across a wide range of roles, especially data providers and data users with varying levels of access to resources.
- explore ways to lighten and/or generalise CMIP processes for design, specification, and coordination among and between projects.
- survey and synthesise activities and plans from existing activities including the evolving ESGF, the Pangeo community, and others.
- identify opportunities for reuse and generalisation of data provisioning and access tools including encapsulation/containerization.
- explore a wide range of models for co-location of computational and data resources including the addition of computing to ESGF nodes, use of commercial and non-commercial clouds, and possibilities for leveraging intergovernmental or commercial interest in CMIP and related data.

Coordination with other CMIP TT, WCRP activities and wider stakeholders

This Task Team will be coordinating closely with the other CMIP7 task teams, relevant WCRP core projects, particularly Earth System Modelling and Observations (ESMO), as well as WCRP activities including the Coordinated Regional Downscaling Experiment (CORDEX) and Lighthouse Activities, especially the activities on My Climate Risk and Digital Earths. The team will seek to complement the many existing efforts including the evolving Earth System Grid Federation (ESGF), national facilities (e.g., JASMIN in the UK), and efforts by the Pangeo community.

Time commitment

Meetings are expected to take place regularly, every 2-3 months, and more frequently as required and at the discretion of the TT leads. There may be times when there is more or less work depending on the activities undertaken (e.g., a peak period may be associated with a workshop or paper published by the TT). WG members are expected to commit appropriate time to this activity, at around 5-10% FTE. Most meetings will be online, with some out-of-hours working required to the challenges of time zone coordination. It is envisioned that the timescale of this TT will be 18 months.

Remuneration

These are not paid roles.

How to apply

Applications should be submitted via [this form](#) before Monday 23rd January 2023.

Contact and further information

The point of contact for this task team is Robert Pincus, Lamont-Doherty Earth Observatory, Columbia University, USA. A co-lead will be identified when the team is assembled.

Please contact the CMIP-IPO (cmip-ipo@esa.int) if you have any questions or require further information.