

## CMIP7 Task Teams

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# CMIP7 Governance Structure

"overseeing the evolving design of CMIP and .. coordinating the various activities contributing to the science and impact of CMIP" [Draft Terms of Ref.]

**Working Group on Coupled Models**

New in  
CMIP6

**CMIP Panel**

CMIP International  
Project Office

NEW!

**WGCM Infrastructure Panel**

NEW!

**TASK TEAMS**

"Serve the interests of the WGCM in establishing and maintaining standards and policies for sharing climate model output and derived products." [2014 Terms of Ref.]

- 6 established Task Teams
- 2 more being created
- Each task team has two co-chairs who are ex-officio members of the CMIP Panel

## Task Teams and Co-Chairs

- Forcings Paul Durack, Vaishali Naik
- Ensemble design Benjamin Sanderson, Isla Simpson
- Data request Martin Jukes, Chloe Mackallah
- Model benchmarking Birgit Hassler, Forrest Hofmann
- Model documentation David Hassell, Guillaume Levavasseur
- Data Citation Martina Stockhause, Sasha Ames

## Under Construction

- Scenarios and impacts Brian O'Neill (US)
- Data access Robert Pincus (US)

# EU Focus – abstractions and metadata

## **Data Request**

- Oversee the creation of the CMIP7 Data Request which should provide participating modelling centres with full details of CMIP7 output requirements from participating science teams.
- Ensure that the CMIP7 output requirements accurately reflect both the ambition of the science teams, the constraints of the data managing services and the resources of the modelling centres.

## **Model Documentation**

- The overarching goal of this task team is to design a strategy for documenting the CMIP7 workflow (from experimental design all the way to data analysis) that satisfies the needs of both data creators and data users.

## **Data Citation**

- The data citation service should be transformed into a sustainable, scalable and better integrated service, which can be provided for projects upon request and which meets provider and user needs.

# US Focus – Forcings, design, performance

## **Forcings**

- Evaluate the CMIP6 forcing collection and identify issues, coverage gaps or omitted fields (e.g., natural, not anthropogenic, CH<sub>4</sub> emissions).
- Identify next generation forcings for current and future generations of Earth System models.

## **Ensemble design**

- Consider how future best strategy for CMIP should address those evolving societal demands which can be met only by process-resolving computational Earth System Modelling. How to better represent both detailed climate impact and mitigation processes, given expectations of computational (and human) capacity over the timescale of CMIP7?

## **Model benchmarking**

- The aim of the Climate model benchmarking TT is to provide a systematic and rapid performance assessment of the expected models participating in CMIP7 with a set of new and informative diagnostics and performance metrics ideally along with the model output and documentation.

# CMIP Panel re-launch, January 2023

- Discussion of Terms of Reference
- Timeline for CMIP7: depends on timeline of IPCC which will not be set until end of 2023.
  - IPCC deadline for data publication expected 2027 or later.
  - Start of CMIP7 simulations 2025-2026?
- Support for concept of "core MIPs": MIPs with a central/essential role in CMIP7 and AR7. ScenarioMIP plus others (tbd).
- Process for identifying and supporting MIPs (tbd)
  - MJ preparing discussion paper for February panel meeting.
- CMIP Panel will hold monthly panel meetings

## THE CONSORTIUM

Coordinated by CNRS-IPSL, the IS-ENES3 project  
gathers **22 partners** in **11 countries**



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