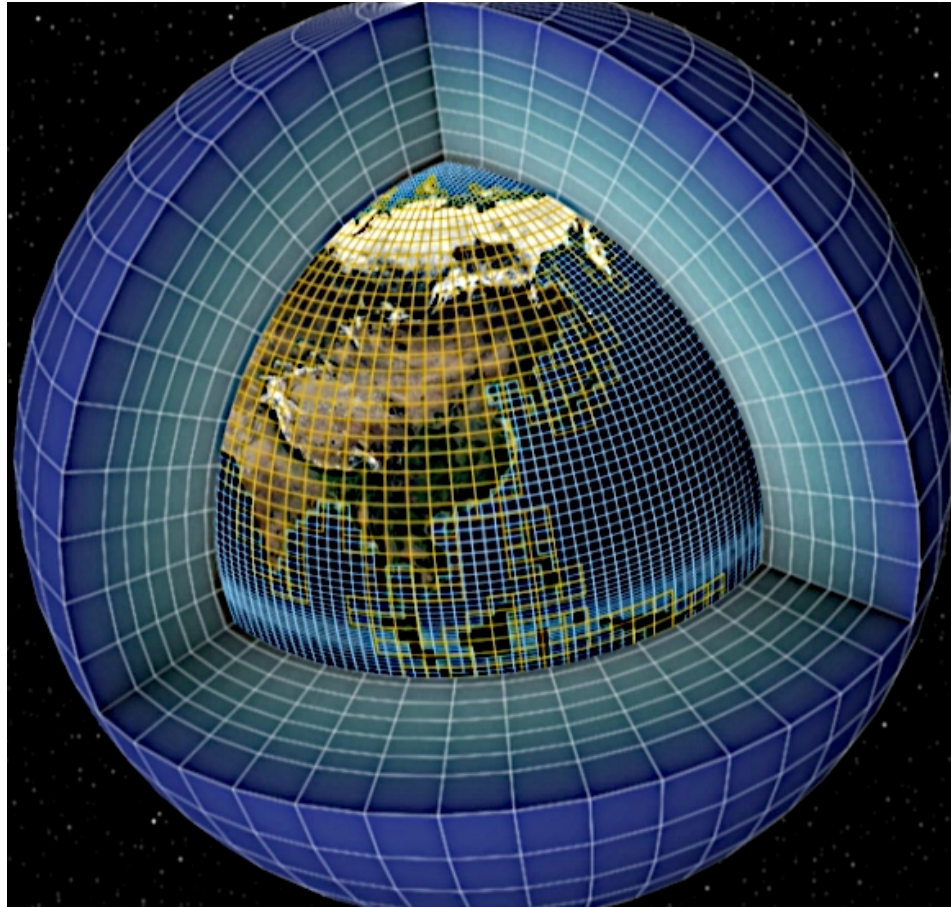


WCRP Working Group on Coupled Models (WGCM)



IPSL

Sandrine Bony (LMD/IPSL, France) & Cath Senior (MetOffice, UK)
Co-chairs

WGCM Missions

- **To review and foster the development of coupled ocean-atmosphere models and ESMs.**

e.g. Tuning workshop this week

- **To promote and facilitate the models evaluation and diagnosis of shortcomings**

e.g. Metrics Panel (WGNE/WGCM), T-AMIP (WGNE/WGCM), satellite simulators

- **To facilitate integrated research on climate and climate change**

e.g. collaborations with IAM, AIMES

- **To coordinate model intercomparisons :**

e.g. **CMIP** (Coupled Model Intercomparison Project), PMIP (Paleo), CFMIP (Cloud feedbacks)

WGCM aims at promoting research on climate and climate change by facilitating connections and coordination among global modelling groups and many communities within WCRP and beyond

Coupled Model Intercomparison Project (CMIP)

- **Aims to address three main science questions :**

- What are the origins and consequences of systematic model biases?
- How does the Earth system respond to forcing?
- How can we assess future climate changes given climate variability, climate predictability, and uncertainties in scenarios?

- **CMIP Panel :**

Veronika Eyring (chair), Jerry Meehl, Bjorn Stevens, Ron Stouffer, Karl Taylor

- **WGCM Infrastructure Panel (WIP) :**

V. Balaji and Karl Taylor (co-chairs)

- **Now preparing for the 6th Phase of CMIP (CMIP6)**

TODAY'S AGENDA (REVISED)

0830 – 0900

Introduction and welcome, logistics (V. Eyring)

Presentation of WGCM and of the meeting objectives (S. Bony or C. Senior)

0900 - 1030 – CMIP6 Overview

CMIP6 proposal (V. Eyring, 20 min)

CMIP6 infrastructure (V. Balaji or K. Taylor, 20 min)

Discussion (50 min)

1030-1100 - Coffee break

1100 – 1200

Overview of **WCRP Grand Challenges** or equivalent (S. Bony, 20 min)

Obs4MIPs, Metrics Panel and evaluation tools for CMIP6 (P. Gleckler, 15 min)

Discussion (25 min)

1200 – 1245 MIPs proposals for CMIP6 (1) Systematic biases

Synthesis of MIPs proposals related to systematic biases (~15 min, P. Gleckler)

Discussion (~30 min)

1245 - 1400 – Lunch

1400 – 1515 MIPs proposals for CMIP6 (2) Forcings and response

Synthesis of MIPs proposals related to forcings and response (~45 min, B. Stevens)

Discussion (30 min)

1515 - 1545 - Coffee break

1545 – 1645 MIPs proposals for CMIP6 (3) Variability, predictability and scenarios

Long-term climate projections (15 min, C. Tebaldi or D. van Vuuren)

Decadal Predictions (15 min, G. Meehl)

Discussion (30 min)

1645 - 1715 – CMIP6: Forcings and Timeline

Overview CMIP6 forcings (V. Eyring, 5 min)

Historical emissions and concentrations (J.-F. Lamarque, 5 min)

Future emissions and concentrations (D. van Vuuren)

Discussion (15 min): Implications for the CMIP6 Timeline

1715 - 1745 – Recap