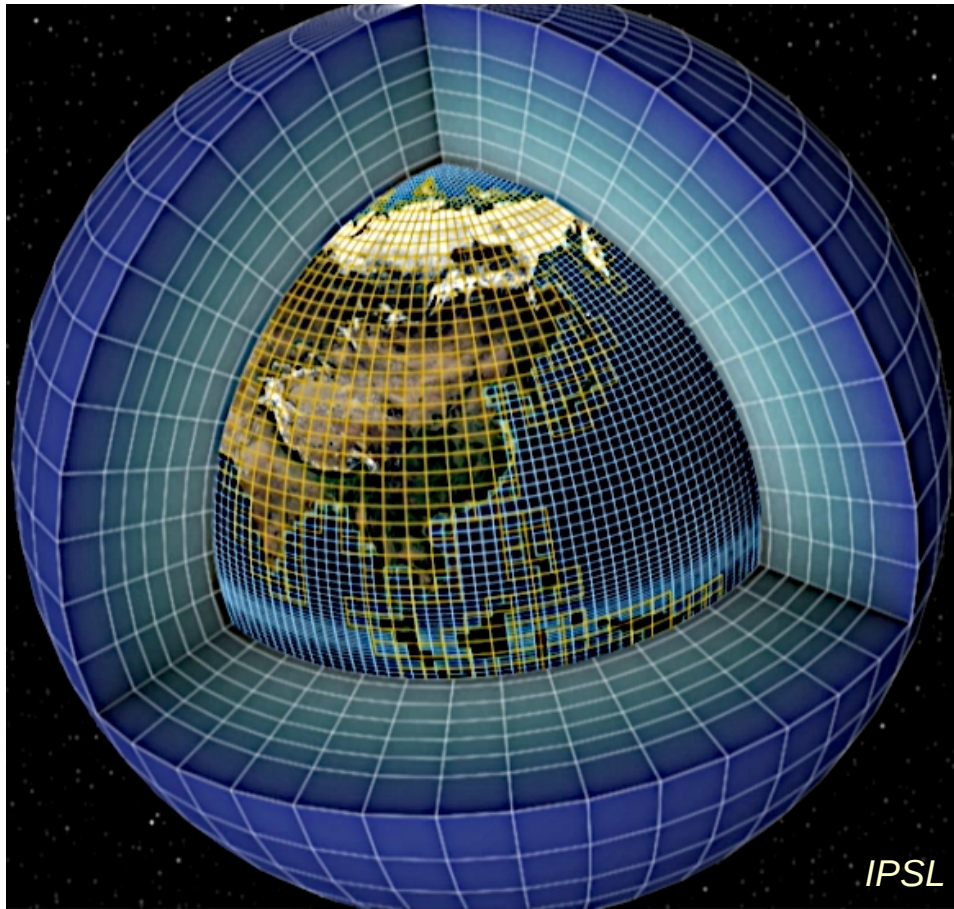


WCRP Working Group on Coupled Models (WGCM)



Jerry Meehl (NCAR, USA)
&
Sandrine Bony (LMD/IPSL, France)

Co-chairs

Cath Senior (MetOffice, UK):
Incoming co-chair
(starting next year)

WGCM Missions

- **Review and foster the development of coupled ocean-atmosphere models, and now Earth System Models (i.e. with coupled carbon cycle, chemistry, aerosols, vegetation....),**
- **Coordinate model intercomparisons to :**
 - better understand natural climate variability
 - predict the climate response to natural & anthropogenic perturbations
 - assess the climate predictability at the decadal timescale

e.g. CMIP (Coupled Model Intercomparison Project), PMIP (Paleo), CFMIP (Cloud feedbacks)
Transpose-AMIP (WGNE/WGCM, climate models used in NWP mode)
- **Promote and facilitate the models evaluation and diagnosis of shortcomings, and understanding of processes and feedbacks in the climate system.**

Done in collaboration with many partners, including : AIMES (carbon cycle), WGNE (atmospheric processes) and WGSIP (decadal climate predictability)... and in interaction with many MIPs and communities.

**WGCM promotes a balance between
simulation – evaluation - understanding**

Coupled Model Intercomparison Project (CMIP)

- **Objective : Understanding of past, present and future climate variability and change through a coordinated international multi-model experiment design.**
- **Overseen by the CMIP Panel :**
 - Véronika Eyring (incoming chair)
 - Natalie Mahowald
 - Jerry Meehl
 - Bjorn Stevens
 - Ron Stouffer
 - Karl Taylor

Responsible for :

 - Experimental design
 - Infrastructure (data format, documentation, data distribution..)
- **Coordinated across multiple climate science communities... within WCRP and beyond (e.g. IAMC, AIMES..)**
- **Now preparing for the 6th Phase of CMIP (CMIP6)**
 - CMIP6 to be centered around science questions....
 - including some of direct relevance to AIMES interests and expertise
 - ... motivating this joint AIMES/WGCM meeting....