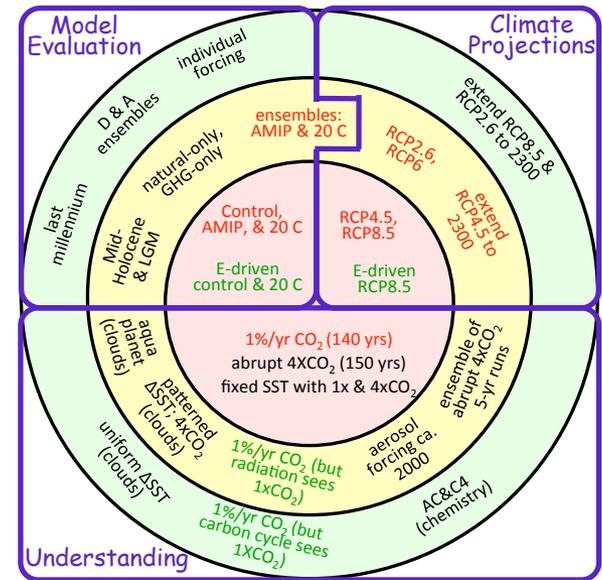


An Overview of CMIP5 and the Experiment Design

Objectives:

- Introduce the CMIP5 experiment design and the purposes it serves
- Explain how CMIP5 output can be accessed
- Discuss issues that complicate interpretation of CMIP5 results



CMIP5 long-term experiments will provide projections and opportunities to assess and understand model differences.

Research: Competing needs of various communities have led to a diverse and integrated set of climate model experiments that build on previous phases of CMIP, but include for the first time initialized decadal predictions and new “earth system models”.

Impact:

CMIP5, now underway, promises to produce a state-of-the-art multi-model dataset open to researchers worldwide which will advance our knowledge of climate variability and climate change.

Reference: K. E. Taylor, R. J. Stouffer, G. A. Meehl: An Overview of CMIP5 and the Experiment Design. *Bull. Amer. Meteorol. Soc.*, 93, 485-498, doi:10.1175/BAMS-D-11-00094.1, 2012.