

C4MIP experiments: AIMES perspective

- Repeat CMIP5 1%-CO₂ experiments to quantify climate CO₂ feedback:
 - fully coupled (core experiment)
 - biogeochemically coupled
 - radiatively coupled

These runs would also allow to quantify effective radiative forcing of several biospheric components (e.g. fire emissions)
- Emission-driven historical simulation to benchmark C cycle against observations and emergent constraints
- Future runs (emissions-driven or concentration-driven)
- Interactive CH₄ and N₂O simulations;
- EMICs runs with CO₂-pulses to quantify atmospheric CO₂ fraction after 1000 and 10,000 years

CO₂ fraction in the atmosphere

