CAM/WACCM/CHEM Discussion

Co-Chairs
CESM2: Atmosphere Configurations

- **CAM6**: L32, 29 species (simplified chemistry)
  - 1°: F2000, FHIST, F1850, B1850, BHIST
  - Simpler Models (Aquaplanet, Idealized, Test Cases, SCAM)
  - Specified Dynamics (FSDHIST)
  - SE Dynamical Core: ne120, Variable Mesh (CONUS, Tropics)
  - ’Low Resolution’ (2° FV)

- **WACCM/CHEM**: L70, 228 Species (TSMLT)
  - 1° FW2000, FWHIST, BW1850,
  - Specified Dynamics: FWSDHIST
  - Specified Chemistry: FWSCHIST, FWSC2000, BWSCHIST
  - WACCM-X (2°, WACCM4 physics, 126L, 750km lid)

- **CHEM** (can run with either WACCM or CAM)
  - TSMLT: 228 Species
  - TSMLT: ’SOA’ Mechanism
Available but not full science support

**WACCM**

- Higher Vertical resolution (110L), MA chemistry (88 species), D-region Ion chem (MAD), 2°

**CAM**

- UNICON, SPCAM, ZM Convective Microphysics, MAM7, Prescribed Aerosol

**CHEM**

- Mechanism with extended SOA, different complexity, Specified Dynamics
What else is desired for CESM2?