# Session 7 Discussion

- Future Programs and Projects, Collaborations
  - HiRES MIP
  - U.S. DOE ACME
  - Opportunities for collaboration within model families
- New & Revised CORES
  - CORE-3 (Gerdes)
  - CORE-CRF (Marshall)
  - CORE-HiRes
  - CORE-1/2 revised thermal damping, AMOC stability
- Scale Adaptive Parameterization in the Eddy-Admitting to Eddy-Rich regime
- Process investigations that would benefit from WGOMD coordination

Some Model Families
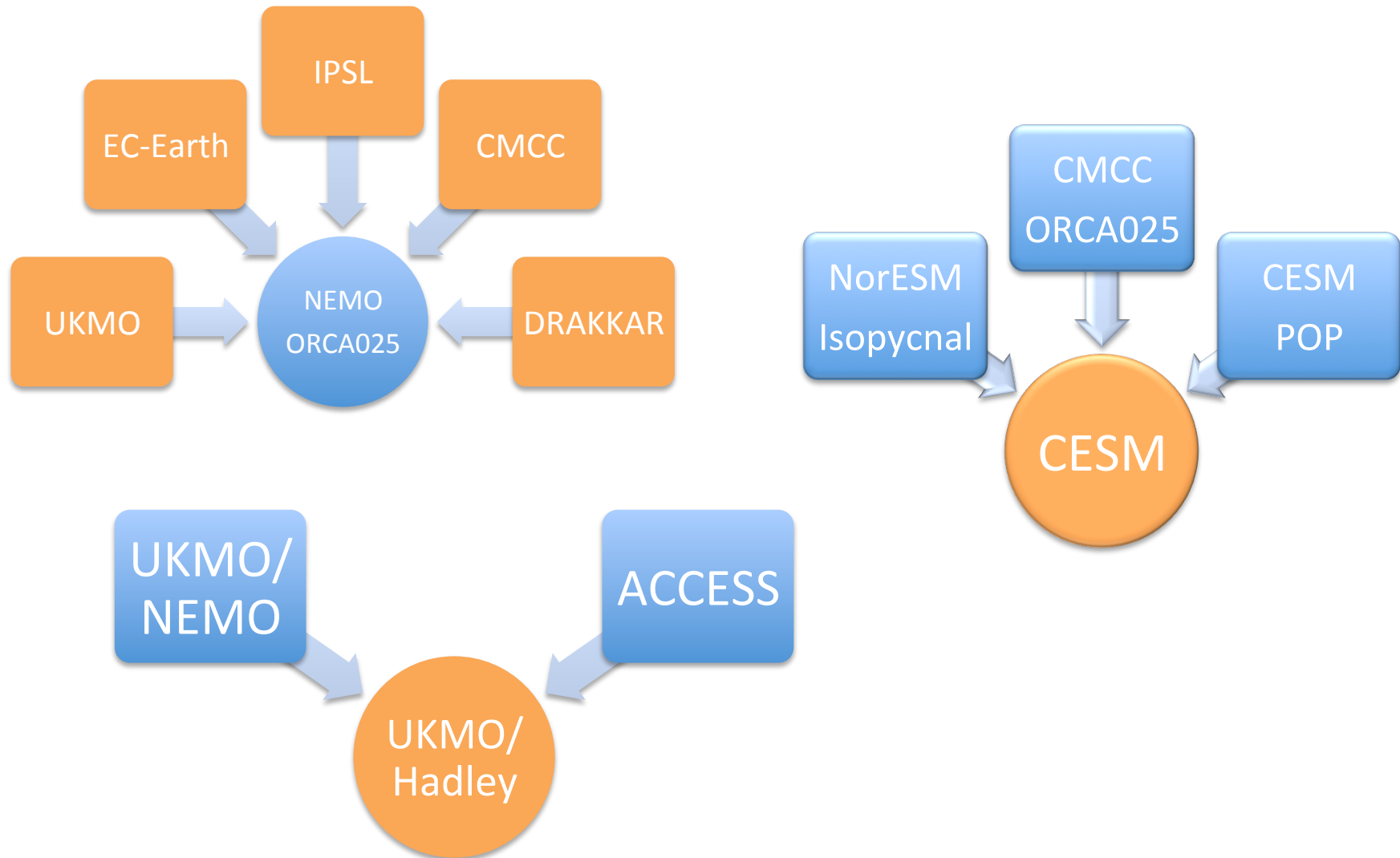
New and Revised CORES

- Climate Change COREs
  - CORE-3: Greenland FW impulse (Gerdes)
  - Climate Response Functions (Marshall)
- CORE-1/2 revision for AMOC/salinity drift
  - Scale selective & reduced strength thermal damping
- CORE-1/2-High Resolution
  - Forcing: resolution, thermal damping
  - Spin-up, integration protocol, ensembles
  - Assessment strategy, metrics, collaborative science

Forcing Considerations

- Ease of implementation across models
- Accuracy
- Global balance
- Space/time resolution appropriate for HR ocean models
- Forcing period
- Climatology and inter-annual?
- Utility in day-to-day development
- A champion and ongoing support

Parameterization

- Scale adaptivity
- Deterministic vs. stochastic
- Sharing modules/codes