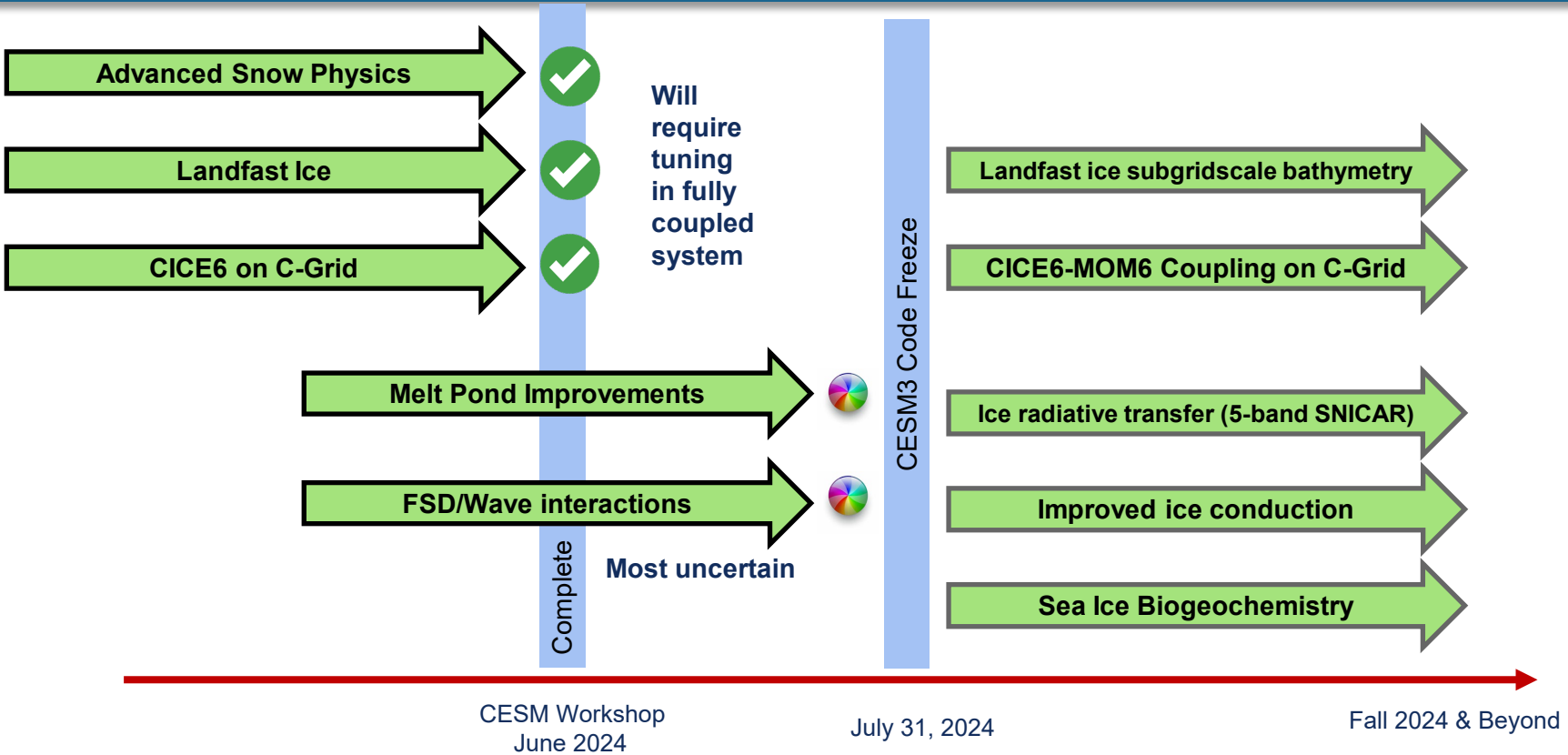


# PCWG Discussion topics

- New PCWG Co-Chair
- CESM3 development update
- Computing resources
  - If you have been allocated hours, use them please!
  - Fall 2024 CSL proposal
    - Community proposals accepted
    - PCWG community experiments
- Sea ice diagnostics withCuPiD
  - What is needed by community?
  - What CESM3 output is needed and on what timescale?
- Other topics

# PCWG Sea Ice Plans for CESM3



# Example diagnostics in development



## CUPID: CESM Unified Postprocessing and Diagnostics

Python Framework for Generating Diagnostics from CESM

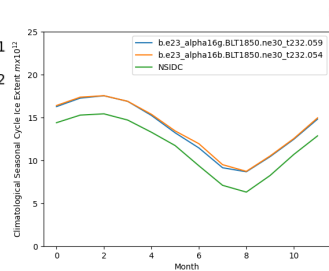
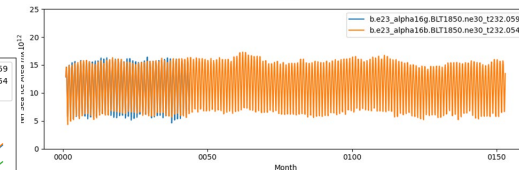
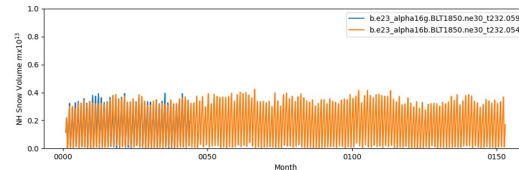
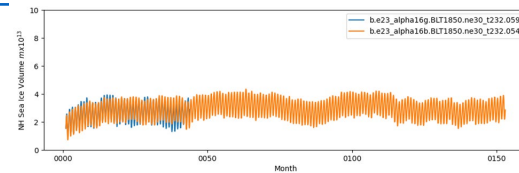
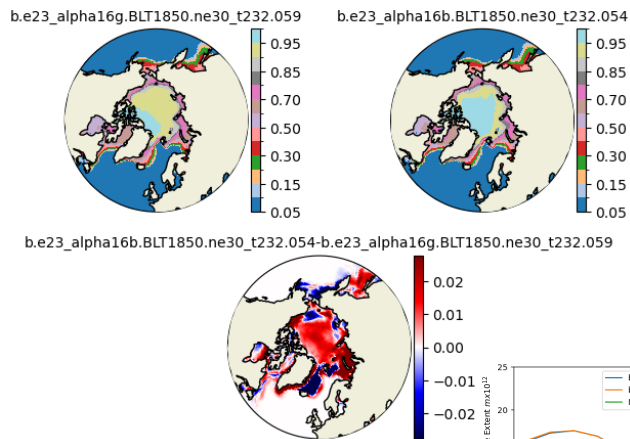
### Project Vision

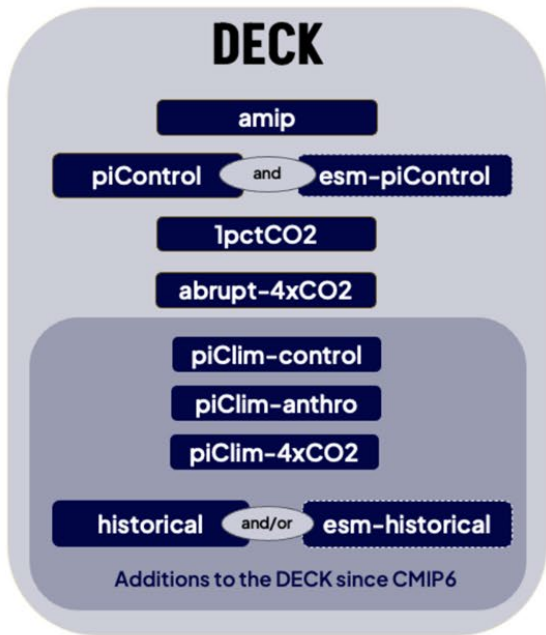
CUPID is a collaborative effort that unifies all CESM component diagnostics and provides

- Python code that
  - i. runs in an easy-to-generate conda environment, and
  - ii. can be launched via CIME workflow or independently
- Diagnostics for single/multiple runs and single/multiple components
- Ability to call post-processing tools that other groups are working on
- An API that makes it easy to include outside code
- Ongoing support and software maintenance

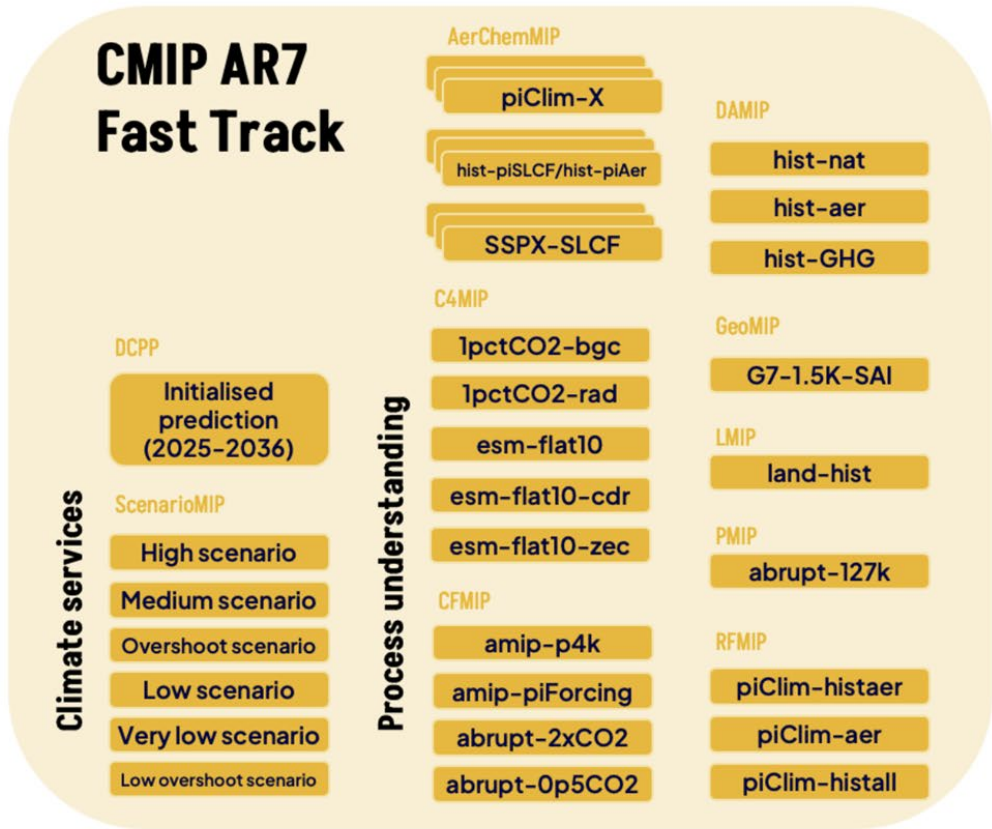
[https://webext.cgd.ucar.edu/BLT1850/b.e23\\_alpha16g.BLT1850.ne30\\_t232.059/ice/b.e23\\_alpha16g.BLT1850.ne30\\_t232.059-b.e23\\_alpha16b.BLT1850.ne30\\_t232.054/seaice.html](https://webext.cgd.ucar.edu/BLT1850/b.e23_alpha16g.BLT1850.ne30_t232.059/ice/b.e23_alpha16g.BLT1850.ne30_t232.059-b.e23_alpha16b.BLT1850.ne30_t232.054/seaice.html)

### Sea Ice Concentration





CESM3 will be emissions driven (ESM)  
Not specified CO2



# Proposed CESM Timelines (as of 6/11/2024)

