

## Plans for Sea Ice Component of CESM3 and Diagnostics

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## Why build a CICE Consortium?

# To enhance sea ice model development for and by the community

- Acceleration of scientific development
- Acceleration of R&D transfer to operational use
- Vehicle for collaboration and sharing

https://github.com/CICE-Consortium



#### **Draft CMIP7 Timeline**



NCAR

UCAR

#### **PCWG Sea Ice Plans**





## Methods – Single Column Modeling



Photo: J. Schaffer

Slide courtesy of D. Clemens-Sewall

#### "Old" Sea Ice Diagnostics

 qualitative comparisons to observations: NSIDC, IceSat, PIOMAS, ASPECt





Years



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## New Python Notebook

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