

CICE/Icepack Users Workshop & Tutorial, February 3-5, 2020 - Summary



- 36 in-person attendees + ~10 online attendees for User's Workshop
 - 10 US universities, Poland, Australia, Norway; NSF merit-based support for 13 domestic students/postdocs.
- Workshop and tutorial presentations are available: <http://www.cesm.ucar.edu/events/2020/cice-icepack/>
- Tutorial participants performed quality control tests, compared CICE standalone and coupled results.
- It is very important to use CICE6 and Icepack as soon as possible to enable code sharing.
- User's Workshop action items:
 - Improve repositories and documentation: e.g. provide netcdf output from Icepack, document how to add Icepack diagnostic output, remove deprecated code, etc.
 - Reach out to the community through IARPC, AGU, ARCUS, IGS conferences, etc.
 - Set up topical, short-term working groups:
 - Snow on sea ice
 - Radiation effects including spectral emissivity
 - Data assimilation
 - Wave modeling
 - Validating the floe size distribution
 - C-grid dycore
 - Freshwater ice (lakes, iceberg interactions with sea ice)
 - Boundary conditions for regional configurations
- Longer-term physics priorities:
 - Dependence of rheology on model resolution
 - Snow on sea ice
 - Validating/improving sea ice hydrology (e.g. brine drainage, stability at the ice-ocean interface for nutrient exchange, double diffusive mechanisms)
- Challenges – Ongoing Discussion:
 - Interest on focusing effort on coordinating data and metrics against which community can evaluate and benchmark models rather than coordinating model analysis tools.
 - Extent of support for stand-alone models.
 - Porting from development versions of the models.
 - Software engineering assistance for model developers.
 - Reacting to changing computing platforms
- The Consortium Community Forum is the best place for discussion of these and other topics: <https://github.com/CICE-Consortium/About-Us/wiki/Resource-Index>