SDWG Computing Projects

SDWG Winter Meeting

February 8, 2016

Background

Computing time for CESM WGs allocated based on bi-annual proposal to NCAR's Climate Simulation Laboratory

2012-2014: ~9M hours, decided by co-chairs

 land use, iESM, donation to community ensembles

2014-2016: ~11M hours, open proposal process

 9 projects

2016-2018: hours? open proposal process

 particular topics of more interest (e.g., CMIP6-related)?

Current Projects

9 projects, see SDWG web page

THESIS development
(P. Lawrence, NCAR, Tuesday a.m.)

Land cover, CMIP6
(P. Lawrence, NCAR, Tuesday a.m.)

Historical land use uncty
(A. DiVittorio, LBL, Tuesday a.m.)

Carbon cycle disturbance
(J. Holm, LBL)

CESM PPE, hydrology
(C. Anderson, ISU, Monday p.m.)

Hydrologic impacts sens.
(M. Clark, NCAR)

Geoengineering, overshoot
(S. Tilmes, B. Sanderson, NCAR, Mon.)

Output processing tools
(C. Ammann, NCAR, Monday p.m.)

VHR reference data
(C. Ammann, NCAR)

Proposal criteria

Scientific question to be addressed or broader purpose the runs would serve

Relevance to the goals of the SDWG, including to the broader research community

Computing details

  Computing time and storage space required

  Who will do the runs

  How will results be archived and made available

  Readiness to run

Possible upcoming process

Feb/March?   call for computing project proposals, to SDWG list

June?   submission deadline for project proposals

July?   co-chairs produce SDWG proposal

August   SDWG proposal to CESM