Sea level in CESM2
An idea for community-driven scientific analysis
CESM2 and towards CESM3

• CESM2 has improvements relative to CESM1 with regard to SL

• Are we far enough to already present our model output to policymakers (regional SLR)? We don’t think so.

• Model work is necessary on ocean and land ice side (-> CESM3)
Idea: CESM2 Sea Level scientific paper

• Highlight improvements in CESM2 relative to CESM1 – analyze the pieces of SLR possible in CESM2

• Pinpoint weak or missing SLR components in CESM2, and suggest ways of including those in future models (MOM6, CISM Antarctica, ...)

• Multi-WG team: ocean, land, land ice, atmosphere,...
Possible structure and timeline

• Structured along SLR components
  • Ocean thermal expansion (Susan Bates, Aixue Hu, ?)
  • Ocean dynamics (Susan Bates, Aixue Hu, ?)
  • Land ice dynamics (Bill Lipscomb, ?)
  • Land ice SMB (Jan Lenaerts, ?)
  • Land (?)
  • Atmosphere (?)

• Provisional timeline
  • Now-summer 2018: team assembly and division of tasks, first analyses
  • Summer 2018: cross-WG session with presentation of first CESM2 results
  • Winter Meeting 2018: submission and presentation of paper
  • Summer 2019: paper publication?
Call for interest

Interest in joining the team? Anyone is welcome!

Talk to us or send us an email!

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