

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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