

Transient Climate Response to cumulative carbon

Emissions (TCRE) Assessment

TCRE Workshop follow-up meeting

Online, 16 December 2024, 13:30 - 18:00 BST/GMT (All times BST/GMT)

Agenda – Version 2, 13 December 2024

13:30 Session 1

Welcome/recap, outline aims and goals, go over basic structure of workshop and aims for an assessment report. We can begin scoping out chapters. Note of EGU and side meeting coming.

Updates for each topic area:

1. **14:00. Frameworks.** Need to have one – for TCRE and ZEC
 - a. Ric Williams – on ZEC framework development
 - b. Alex Borowiak on significance of ZEC and measuring T at branch point.
 - c. Other? / discussion
2. **14:30. Processes.** Bottom up expertise on processes – understand what we've got, things we haven't got
 - a. Ocean – Natassa Romanou and AMOC
 - b. Land – Spencer Liddicoat TCRE from processes and new runs for ZEC
 - c. Laura Gibbs/Andy Wiltshire – GWL dependence of ZEC. Role of heat uptake vs carbon uptake at different levels
 - d. Permafrost? Other? / discussion

15:00 Coffee break

15:30 Session 2

1. 15:30 Constraints

- a. Emergent constraints
 - i. Roland/Aurelian
- b. Simple models/history matching
 - i. Chris Smith – constrain on ZEC?
 - ii. Sofia Palazzo Corner– MAGICC runs
 - iii. Other? / discussion

2. 16:10 Synthesis/application

- a. Aera-MIP – Thomas Frölicher
- b. Hugo Lambert – correlations between feedbacks
- c. Lessons from ECS – Kate Marvel

3. 16:30 CMIP

- a. CMIP7 fast track – recap and timeline
- b. Flat10-MIP – Charlie Koven, Ben Sanderson
- c. C4MIP – Vivek Arora/Tatiana Ilyina
- d. CDRMIP – Nadine Mengis/David Hohn

4. 17:00 Next steps / next meeting – EGU, beyond...

- a. Want to get some regular working group meetings on each strand – sign up for interest
- b. Submit EGU abstract!

17:30 Close