

Newsletter 01 / 2021

You find further details on PalMod II at https://www.palmod.de

Dear PalMod II members,

We wish alle readers of the PalMod Newsletter a happy and healthy new 2021!

PalMod Seminar Series

The next talk of the seminar Series will be given by Lukas and Gerrit:

Tue. 19. Jan 2021, 15 h:

- G.Lohmann (AWI): Simulation the Glacial Climate and Ocean Circulation: Challenges for PalMod
- **L. Jonkers** (MARUM): Are climate models underestimating spatial temperature variability?

Connection Details:

https://geomar.webex.com/geomar/j.php?MTID=me133300766e783acf187ed1a3224e8d9

Meeting number: 174 483 6013

Password: P5q2JTEmR6z

Save the dates for following upcoming Meetings

WG1: 25. Jan 2021
WG2: 03. Feb 2021
WG3: 23. Feb. 2021

• Mid Term Retreat with WG & WP heads: 2. & 3. Mar 2021

• CC: 17. & 18. Mar 2021 -> everyone is invited to attend, information will follow soon

PalMod General Assembly 2021: 27. & 28 May 2021

PalMod-related Presentations

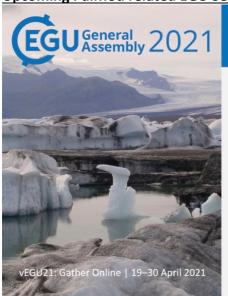
Recent Presentations

From the AGU Falls Meeting

V. Klemann (GFZ), Meike Bagge (GFZ) & Zdenek Martinec: Relaxation behavior of a laterally varying earth model in response to glacial loading

https://agu.confex.com/agu/fm20/webprogram/Paper719193.html (incl. recording)





Call for Abstracts

Submission deadline: 13 January 2021 at 13:00 CET

Session

CR3.9, co-organised by CL4/G3/GD8/GM7

Characterizing interactions between ice sheets, solid Earth and sea level by observations, data assimilation and coupled modelling

Conveners

Meike Bagge, Torsten Albrecht, Evelyn Powell, Kira Rehfeld, Ricarda Winkelmann



Call for Abstracts

Submission deadline: 13 January 2021 at 13:00 CET

Session

CL1.2, co-organised by BG2/NP1

Palaeoclimate modeling: from timeslices and sensitivity experiments to transient simulations into the future

Conveners

Kira Rehfeld, Heather Andres, Julia Hargreaves

meetingorganizer.copernicus.org/EGU21/session/40689

If you know of other EGU Sessions of interest to PalMod members, please contact me (kfieg@geomar.de)

New PalMod I or II - related Publications and Data

Dobslaw, H., Dill, R., **Bagge, M., Klemann, V.**, Boergens, E., Thomas, M., Dahle, C., & Flechtner, F. (2020). Gravitationally Consistent Mean Barystatic Sea Level Rise From Leakage-Corrected Monthly GRACE Data. *Journal of Geophysical Research: Solid Earth*, 125(11). https://doi.org/10.1029/2020JB020923

Gottschalk, J., Michel, E., Thöle, L.M. ..., **Butzin, M.** *et al.* Glacial heterogeneity in Southern Ocean carbon storage abated by fast South Indian deglacial carbon release. *Nat Commun* **11,** 6192 (2020). https://doi.org/10.1038/s41467-020-20034-1

Köhler, P., & Munhoven, G. (2020). Late Pleistocene carbon cycle revisited by considering solid Earth processes. Paleoceanography and Paleoclimatology, 35, e2020PA004020. https://doi.org/10.1029/2020PA004020

Milestones and Deliverables

NEW: Deliverable CC.2 D2 - Definition of PalMod-CMOR table is available for download from the internal PalMod pages:

(https://www.palmod.de/documents/1146045/1396800/Deliverable CC2 D2.pdf/61b2922 e-ea48-4347-bc7d-02465954b36d)

updated traffic light, 05.01.2021

WP	WG	Due To	DAY:-T	05.01.21	Responsible	Task
WG1	WP1.3 M1	30.06.20	-189	done/overdue	PIK	Investigation of the effect of asynchronous coupling
WG3	WP3.2 M1	30.09.20	<u> </u>	done/overdue	GFZ	Synchronization of lacustrine and marine data-bases
WG2	WP2.1 M3	30.09.20	<u> </u>	done/overdue	MPI	Successful implementation adjustments and extensions that are necessary in HAMOCC for the transient simulations in interactive carbon cycle mode
WG2	WP2.3 M4	30.09.20	97	done/overdue	MPI-C	New, improved lightning NOx parameterization in EMAC and MPI-ESM
WG3	WP3.3 M3	30.12.20	<u> </u>	done / overdue	AWI	Spectral estimation methods established and tested
WG3	WP3.3 D4	30.12.20	<u> </u>	done/overdue	AWI-P	Documentation of the spectral estimation method accounting for proxy biases
WG2	WP2.1 M1	30.12.20	<u> </u>	done/overdue	AWI	Adjust REcoM model for simulating prognostic atmospheric CO2 concentrations, including fluxes from weathering, and volcanism.
WG2	WP2.1 M2	30.12.20	- 6	done/overdue	AWI	Include iron sources from marine shelves, rivers, hydrothermal activity and sea ice in REcoM
WG2	WP2.1 M5	30.12.20	<u> </u>	done/overdue	MARUM	Transient simulations including marine carbon isotopes for an abrupt climate change event during MIS3 and Termination I set up in CESM and ready to run
WG1	WP1.4 M4	30.12.20	<u> </u>	done/overdue	GEOMAR	Implementation of spatial refinement (1/10°) in FOCI with focus on the Atlantic Sector of the Southern Ocean Nest $\bf 1$
WG1	WP1.4 M1	30.12.20	<u> </u>	done/overdue	GFZ	Set-up of reference 3d earth structure in VILMA for use in main GCMs for coupling to ice-sheet dynamics and for sea-level reconstructions
				. , .		Design of the toolbox interface completed, including scripts computing pseudo-proxy-tested metrics for variability changes in surface climate and environmental variables applicable to proxy and model
CC	CC2 M13	30.12.20		done/overdue	UHD	data
CC	CC2 M16	30.12.20	— -6	done / overdue	GEOMAR	Proxy eruption data compiled and homogenized, eruption frequency variations estimated

Please note: according to my bookkeeping 13 milestones are overdue. So

- if you met a milestone or deliverable please let me know, so I can remove it from the list
- if it foreseeable that you have to shift a milestones or deliverables to later, let me know (kfieg@geomar.de), so I can inform the Projektträger DLR.

The full list of Milestones and Deliverables:

https://www.palmod.de/group/palmod/milestones-deliverables

More useful news and links

The protocol of the last Steering Group Meeting, 14.12.2020 can be found: https://www.palmod.de/group/palmod/protocols

PalMod now has a twitter account: @PalMod_Project, please follow us! If you have something to twitter let me know, if you are interested to join the PalMod Twitter team, please contact me (kfieg@geomar.de).