Newsletter April 2022

Dear PalMod members,

we are happy to announce upcoming PalMod related events in person, in hybrid formats or online - you find more information below.

Important: the registration for the GA in May in Travemünde is open.

- Please register (www.palmod.de) and book your rooms in time. You find the details and the agenda below.

Moreover, contact Swati (gehlot@dkrz.de) if you can provide PalMod model data, to test the CMOR workflow at DKRZ (details below).

Please remember, that the reporting period is starting

… and contact Kerstin (kfieg@geomar.de) if you present your PalMod results at EGU this year.

I hope to see many of you in Travemünde in person.

1. SAVE THE DATES

The final **General Assembly** of PalMod Phase II will be held **16. & 17. May 2022** in Travemünde

- Find the details below

The **Annual Assemblies**

- of **WG1** and **WG2** will take place back-to-back to the GA on 17. May 2022 in the afternoon
- of **CC2** will take place Mon. 26. April 2022 as an online event. Find the agenda and the zoom link HERE.
- of **CC1** will take place Mon. 12. April 2022 <u>in person</u> in Hamburg. Please contact Hendryk Bockelmann for details.

The postponed CC1 **PalMod - ESM - Tools workshop** (cancled in Dez. 2021) will take place in person in Hamburg from 20. - 21. April. Please contact Hendryk Bockelmann for details.

The **International Open Science Conference (IOSC)** of PalMod will be held between **6. & 8. September 2022**
- official announcement, details with location and agenda will follow in time.

2. Details on the General Assembly 16. & 17. 05.2022

Please register for participation, you find the link at www.palmod.de or HERE.

Accommodation:
The event will take place at the Maritim Strandhotel in Travemünde, that can be reached directly by train from Hamburg Hbf and is located some 500 m from the train station in Travemünde.

We were able to block book a limited number of rooms at the conference Hotel Maritim for a discounted price of 100€ (Standard) / 120 € (Comfort) incl. breakfast. Please contact reservierung.trv@maritim.de and reference to "PalMod" to get the special price.

First come, first served, the discounted rooms are available until 15. April, after that rooms may still be available but for the regular price again.

We will provide a number of poster walls and the agenda will offer two long slots for poster sessions. This will give all project members the opportunity to present their results (individually or in groups) to the SAB, the Projektträger and all PalMod colleagues.

Agenda (status 01.04.2022)
Mon. 16.05.2022

10:00 – 10:45	*Welcome Coffee* Set up poster for the poster session		45 min
10:45 – 12:30			**105 min**
	Welcome and Intro	M. Latif	15 min
	Housekeeping	K. Fieg	5 min
	Update from Projektträger	PT	15 min
	REPORTING PalMod II		
	CC – who is who CC in context of PalMod	K. Rehfeld / H. Bockelmann	15 min
	CC1 Highlight Presentation (15''+5')		20 min
	CC2 Highlight presentation (15''+5')		20 min
	Buffer		*15 min*
12:30 – 14:00	*Lunch*		
14:00 – 15:00			**60 min**
	WG3 – who is who WG3 in context of PalMod	U.Herzschuh / S. Mulitza	15 min
	WG3 Highlight Presentation (15''+5')		20 min
	WG3 Highlight Presentation (15''+5')		20 min
	Buffer		*5 min*
15:00 – 16:30	***Poster session with Coffee***		***90 min***

16:30 – 17:30			**60 min**
	WG2 – who is who WG2 in context of PalMod	T. Ilyina / C. Völker	15 min
	WG2 Highlight Presentation (15''+5')		20 min
	WG2 Highlight Presentation (15''+5')		20 min
	Buffer		*5 min*
18:00 - xxx	***Conference Dinner @MARITIM Hotel***		

Tue. 17.05.2022

09:00 – 10:00			**60 min**
	WG1 – who is who WG1 in context of PalMod	G. Lohmann / U. Mikolajewicz	15 min
	WG1 Highlight Presentation (15''+5')		20 min
	WG1 Highlight Presentation (15''+5')		20 min
	Buffer		*5 min*
10:00 – 11:00	***Poster session part II with Coffee***		***60 min***
11:00 – 12:30			**90 min**
	The integrative perspective of PalMod		
	Antarctic Focus Group	R. Winkelmann	30 min
	Model intercomparison in PalMod	G.Knorr / M. Kapsch / M. Prange	30 min
	Model and proxy data perspective	L. Jonkers / K. Rehfeld	30 min
12:30 – 13:30	*Lunch*		
13:30 – 14:30			**60 min**
	Comments from the SAB		30 min
	Outlook / Final Discussion	All	30 min
15:00 – 17:00	**Annual Assemblies**		**120 min**
	AA WG1 (Rm. Timmendorf)	WG1	
	AA WG2 (Rm. Kiel)	WG2	

3. PalMod Zwischenberichte

Remember to prepare your reports!
For all opting for a "kostenneutrale Verlängerung" of the PalMod positions, please note, that the Projektträger DLR will decide on every prolongation individually - based on the project report!!

- Submit the report in time!!
  - The deadline for most of the reports is **30.04.2022**, if you are in doubt, contact your administration.
- Please provide me with a copy (kfieg@geomar.de)

4. Update on the PalMod data @DKRZ

Status

- MPI-ESM data (6 experiments, 26KYr each) are CMORized and ready for ESGF publication, two more subsets of MPI-ESM data are in process of CMORization.
- a subset of test data from MARUM arrived at DKRZ to test the CMORization workflow
- a subset of test data from AWI arrived at DKRZ to test the CMORization workflow
- the CMORized PalMod Data is planned to be published DKRZ ESGF page https://esgf-data.dkrz.de/projects/palmod/

To further facilitate the communication

- Swati will provide an "open hour" meeting once a week (or every second week)
  - Please contact her (gehlot@dkrz.de) for more information and dates
- **Please provide more representative test data for the specific model in order to finalize the specific workflow in cooperation between the modellers and DKRZ**

5. Update on Milestones and Deliverables (Status 31.03.2022)

If you meet a M or D or / and report it in your Zwischenbericht, please let me know (kfieg@geomar.de), so I can remove it from the list!

Overdue M&D until March 2022

WP	WG	Due To	DAYS	Responsible	Task
WG3	WP3.1 D6	30.09.21	-181	Marum	Updated version of PaleoDataView including DTW functionality
WG2	WP2.1 M1	30.06.21	-273	AWI	Adjust REcoM model for simulating prognostic atmospheric CO2 concentrations, including fluxes from weathering, and volcanism.
WG2	WP2.1 M2	30.06.21	-273	AWI	Include iron sources from marine shelves, rivers, hydrothermal activity and sea ice in REcoM
WG2	WP2.2 M3	30.06.21	-273	PIK	Quantification of carbon cycle feedbacks operating through shelf processes during glacial inception and deglaciation with CLIMBER-X
WG2	WP2.3 M5	30.11.21	-120	MPI-C	Analysis of methane sink in transient simulations, publication draf
WG2	WP2.3 D1	30.09.21	-181	MPI-M	Publication on transient deglaciation experiments with methane sinks submitted
WG2	WP2.3 D3	30.11.21	-120	MPI-C	Publication on transient deglaciation experiments with methane sinks submitted
WG2	WP2.2 M5	30.12.21	-90	UNI HH	Mapping of the geochemical and lithological characteristics of the continental shelves
WG2	WP2.2 M4	30.12.21	-90	PIK	Spin-up and initialization procedures for permafrost and peat carbon pools and marine sediment state
WG2	WP2.3 M3	30.12.21	-90	MPI-M	Transient experiment glacial inception performed, publication draft
WG1	WP1.2 M3	30.12.21	-90	AWI, Marum, MPI	Data from first asynchronosly coupled MIS3 simulations available to the PalMod community
WG1	WP1.3 M4	30.09.21	-181	PIK	Analysis of climate and carbon cycle feedbacks
WG1	WP1.3 D1	30.09.21	-181	PIK	Providing early doagnostics in the ice sheet-climate system based on full glacial cycle CLIMBER-X simulations
WG1	WP1.4 D1	30.12.21	-90	GFZ, MPI	Refine reference viscosity structure for solid earth component in global ESM runs in collaboration with WPs 1.1 - 1.3
CC	CC1 M5	30.12.21	-90	CAU	Realization of modified, advection-adapted parareal method for FESOM, documentation of convergence and efficiency results
CC	CC1 M10	30.12.21	-90	MPI	Dynamic lake model successfully integrated into the MPI-ESM1 PalMod setup and coupled to the atmosphere
CC	CC2 M6	28.02.22	-30	HZG	Set of ensemble tools documented and available to PalMod
CC	CC2 D5	28.02.22	-30	HZG	Plugin for ensemble metrics documented and ready for integration in toolbox
CC	CC1 M7	30.12.21	-90	CAU	Micro-macro parareal version running for ocean component, documentation of convergence and efficiency results

Due to 31.03.2022

WP	WG	Due To	DAYS	Responsible	Task
WG3	WP3.2 M1	30.03.22	0	GFZ	Synchronization of lacustrine and marine data-bases
WG3	WP3.3 M2	30.03.22	0	Marum, AWI-B	Transient simulations of the Holocene and last glacial inception set up and ready to run
WG3	WP3.1 M2	30.03.22	0	Marum	Updated marine proxy synthesis that includes temperature reconstructions without benthic δ18O chro
WG3	WP3.1 D2	30.03.22	0	Marum	Extended marine paleoclimate data synthesis
WG3	WP3.2 M3	30.03.22	0	GFZ	Improved proxy-system models for key climate proxies including varve thickness data
WG3	WP3.2 M8	30.03.22	0	MUN	Revised calibrated distribution of last glacial cycle ice sheet chronologies and associated 1D regional Earth models
WG3	WP3.2 D2	30.03.22	0	GFZ	Update of the PALIM data-base to integrate chronological links to the marine data-base
WG2	WP2.2 M6	30.03.22	0	UNI HH	Manuscript about the role of shelf weathering on land-ocean biogeochemical matter fluxes
WG1	WP1.2 M2	30.03.22	0	AWI, Marum, MPI	Analysis of ice sheet stability in ice sheet - solid earth simulations
WG1	WP1.3 M2	30.03.22	0	AWI, Marum, MPI, PIK	Analysis on the effect of ice sheet initalisation on glacial inception; re-tuning of model parameters
WG1	WP1.3 M3	30.03.22	0	AWI, Marum, MPI, PIK	Investigation of the individual roles of greenhouse gas and orbital forcing
WG1	WP1.4 D4	30.03.22	0	GEOMAR	Sensitivity of Southern Ocean circulation and deep convection to eddy and diffusion parameterisation yielding paramerisation suggestions for WP1.1 - 1.3
CC	CC2 M18	30.03.22	0	GEOMAR	Volcanic forcing data files constructed and tested
CC	CC1 M6	30.03.22	0	CAU	Asymptotic method realized and evaluated; Software, documentation of convergence and efficiency results
CC	CC1 D2	30.03.22	0	DKRZ	Hardware-aware optimized version of MPI-ESM1 and AWI-ESM for PalMod simulations with special focus on SIMD vectorization
CC	CC1 D3	30.03.22	0	DKRZ	Fully asynchronous execution of components in MPI-ESM1 and AWI-ESM operational
CC	CC2 M15	30.03.22	0	UHD, Uni Bonn	Final plugins from SP2/SP3 integrated in the toolbox
CC	WS CC2 -3	30.03.22	0	DKRZ, HZG, UHD	Workshop on model-data comparison for PalMod phase II simulations and paleodata syntheses in cooperation with WGs 1-3

If you have to shift a milestones or deliverables, please contact me (kfieg@geomar.de)