



**PAL
MOD**

GERMAN
CLIMATE
MODELING
INITIATIVE

Newsletter 11 / 2020

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

Dear PalMod II friends and project members,

thank you for your contributions to the 2021 DKRZ resource application, that we had to hand in end of October. The total amount of the requested resources are

	Computation time [node hours]	Storage WORK [GiB]	Storage ARCH [GiB]	Storage DOCU [GiB]
Total	3.064.080	3.173.120	2.293.100	818.000

We inform you on the decision of the WLA later this year.

Furthermore, we would like to draw your attention to the PalMod spotlight article on the DKRZ homepage: <https://www.dkrz.de/> and to a new highlight article on our PalMod homepage <https://www.palmod.de/home>).

PalMod Seminar Series:

The next talk will be given by Ulrike Herzschuh (AWI) & Anne Dallmeyer (MPI) on Wednesday, 18. November 2020, 10h:

Titel: Comparing simulated vegetation and climate change with pollen-based reconstructions

Contact details: PalMod Seminar Series Talk, Mi., 18. Nov. 2020 10:00 - 11:00 (CET)

<https://global.gotomeeting.com/join/959514749>

Zugangscode: 959-514-749

Milestones and Deliverables

updated traffic light, 02.11.2020

Please note: according to my book-keeping the following 4 deliverables and 8 milestones are overdue. So

- if you meet a milestone or deliverable please let me know, so I can remove it from the list
- if it is foreseeable that a milestones or deliverables has to be shifted to 2021, drop me a note (kfiege@geomar.de), so I can inform the Projektträger DLR.

The full list of Milestones and Deliverables:

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

		Due to				
WG1	WP1.3 M1	30.06.20	done / overdue	PIK		Investigation of the effect of asynchronous coupling
WG3	WP3.1 D3	30.06.20	done / overdue	Marum		Age modelling strategies beyond the radiocarbon domain
WG1	WP1.1 D1	30.09.20	done / overdue	AWI, Marum, MPI		Bi-hemispheric coupling of ice sheets with improved representation of the melt at the termini of the outlet glaciers in places with shelves or glacier tongues
WG1	WP1.4 M4	30.09.20	done / overdue	GEOMAR		Implementation of spatial refinement (1/10°) in FOCI with focus on the Atlantic Sector of the Southern Ocean Nest 1
WG2	WP2.1 M3	30.09.20	done / overdue	MPI		Successful implementation adjustments and extensions that are necessary in HAMOCC for the transient simulations in interactive carbon cycle mode
WG2	WP2.1 M4	30.09.20	done / overdue	CAU		Transient effect of aeolian dust deposition changes and of temperature and sea level variations on ballasting implemented in HAMOCC
WG2	WP2.3 M4	30.09.20	done / overdue	MPI-C		New, improved lightning NOx parameterization in EMAC and MPI-ESM
WG3	WP3.2 M1	30.09.20	done / overdue	GFZ		Synchronization of lacustrine and marine data-bases
CC	CC2 M4	30.09.20	done / overdue	HZG		Tests of initial set of ensemble metrics
CC	CC2 M10	30.09.20	done / overdue	U Bonn		Bayesian framework set up and examples of probabilistic evaluations of temperature and precipitation in time slice simulations against pollen synthesis / macro fossils available
CC	CC2 D4	30.09.20	done / overdue	HZG		Initial paleo-data metadata table
CC	CC2 D8	30.09.20	done / overdue	Uni Bonn		Integration in toolbox

Recent PalMod II - related Publications

J. Garbe, T. Albrecht, A. Levermann, J. F. Donges and R. Winkelmann, **The Hysteresis of the Antarctic Ice Sheet**, *Nature* (2020), 585, 538-544, DOI: 10.1038/s41586-020-2727-5

R. Reese, A. Levermann T. Albrecht, H. Seroussi and R. Winkelmann, **The role of history and strength of the oceanic forcing in sea-level projections from Antarctica with the Parallel Ice Sheet Model**, *The Cryosphere* (2020), 14, 3097–3110, DOI: 10.5194/tc-14-3097-2020

H. Seroussi, S. Nowicki, A. J. Payne, H. Goelzer, W. H. Lipscomb, A. Abe-Ouchi, C. Agosta, T. Albrecht, X. Asay-Davis, A. Barthel, R. Calov, R. Cullather, C. Dumas, B. K. Galton-Fenzi, R. Gladstone, N. R. Golledge, J. M. Gregory, R. Greve, T. Hatterman, M. J. Hoffman, A. Humbert, P. Huybrechts, N. C. Jourdain, T. Kleiner, E. Larour, G. R. Leguy, D. P. Lowry, C. M. Little, M. Morlighem, F. Pattyn, T. Pelle, S. F. Price, A. Quiquet, R. Reese, N.-J. Schlegel, A. Shepherd, E. Simon, R. S. Smith, F. Straneo, S. Sun, L. D. Trusel, J. Van Breedam, R. S. W. van de Wal, R. Winkelmann, C. Zhao, T. Zhang and T. Zwinger, **ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet evolution over the 21st century**, *The Cryosphere* (2020), 14, 3033–3070, DOI: 10.5194/tc-14-3033-2020

PalMod-related Presentations:

23.7.2020: IUP Seminar, Presentation by Ronja Reese: Ice-ocean interactions in Antarctica - what drives future sea-level rise?

28.09.2020: BMBF #FactoryWisskomm, Ricarda Winkelmann at the Panel Discussion together with Bundesbildungsministerin Anja Karliczek, Christian Drosten, Ranga Yogeshwar, Thora Schubert, Antje Boetius, Katja Becker

More useful news and links

The protocol of the last Steering Group Meeting, 19.10.2020 can be found:

<https://www.palmod.de/group/palmod/protocols>

As an outcome of the Steering Group Meeting we created an PalMod Twitter Account

Please follow us under: @palmod_project

- If there is someone, who is willing to support us twittering, please do not hesitate to contact kfieg@geomar.de