

# PMIP4-CMIP6 ice-sheet data

You will find on this page some of the boundary condition data that you have to use for

- [Last Glacial Maximum](#)
- [Last Deglaciation](#)
- [Penultimate Deglaciation](#)



Please make sure to read the [HOWTO](#) section in order to use the data correctly!

Get in touch with the following people if you have questions:

<a href="#">Masa Kageyama</a>	LGM
<a href="#">Ruza Ivanovic</a>	Last Deglaciation
<a href="#">Didier Roche</a>	LGM, Last Deglaciation
<a href="#">Laurie Menviel</a>	Penultimate Deglaciation
<a href="#">Emilie Capron</a>	Penultimate Deglaciation
<a href="#">Jean-Yves Peterschmitt</a>	Technical questions

## References

- Kageyama, M., Albani, S., Braconnot, P., Harrison, S. P., Hopcroft, P. O., Ivanovic, R. F., Lambert, F., Marti, O., Peltier, W. R., Peterschmitt, J.-Y., Roche, D. M., Tarasov, L., Zhang, X., Brady, E. C., Haywood, A. M., LeGrande, A. N., Lunt, D. J., Mahowald, N. M., Mikolajewicz, U., Nisancioglu, K. H., Otto-Bliesner, B. L., Renssen, H., Tomas, R. A., Zhang, Q., Abe-Ouchi, A., Bartlein, P. J., Cao, J., Li, Q., Lohmann, G., Ohgaito, R., Shi, X., Volodin, E., Yoshida, K., Zhang, X., and Zheng, W.: **The PMIP4 contribution to CMIP6 - Part 4: Scientific objectives and experimental design of the PMIP4-CMIP6 Last Glacial Maximum experiments and PMIP4 sensitivity experiments**, *Geosci. Model Dev.*, 10, 4035-4055, doi:[10.5194/gmd-10-4035-2017](https://doi.org/10.5194/gmd-10-4035-2017), 2017
- Ivanovic, R. F.; Gregoire, L. J.; Kageyama, M.; Roche, D. M.; Valdes, P. J.; Burke, A.; Drummond, R.; Peltier, W. R. and Tarasov, L.: **Transient climate simulations of the deglaciation 21-9 thousand years before present, version 1; PMIP4 Core experiment design and boundary conditions**, *Geosci. Model Dev.*, 9, 2563-2587, doi:[10.5194/gmd-9-2563-2016](https://doi.org/10.5194/gmd-9-2563-2016), 2016.
- Menviel, L. et al, **The penultimate deglaciation: protocol for PMIP4 transient numerical simulations between 140 and 127 ka, version 1.0**, GMD, 2019, [https://dx.doi.org/available\\_soon](https://dx.doi.org/available_soon)

## How to use the data

- Choose the type of boundary condition you want to use. Look at the available data below, and at the [ice-sheet gallery](#) page.
  - Do not forget to document what you have chosen!

- Read the appropriate paper(s) in the [References](#) above
- After processing the boundary condition data, send a copy the BC data *as seen by your model* to [Jean-Yves Peterschmitt](#): netCDF file and plot

## Ice-sheet data

The input data for the boundary conditions is available in **netCDF files** provided by Dick Peltier and Lev Tarasov. You will find below some technical details about the data, and the related publications to cite

### Data history

The data files may change a bit (rename or standardize the data, etc...) and you will find the change list below

### Data

- [Peltier ICE-6G-C for PMIP4](#)
- [Tarasov GLAC-1D for PMIP4](#)

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