

## Publications & Citation Guidance

### Guidance for ISMIP6 publications

Given the hard work from so many people, we will follow the CMIP6 guidance for acknowledgements and referencing models and key papers (see below). We are also using the ice2sea method of tracking ISMIP6 related papers, so when your manuscript is submitted or accepted, please email [ismip6@gmail.com](mailto:ismip6@gmail.com), so that we can assign you a contribution number, which will go in the acknowledgements as “*This is ISMIP6 contribution No X*”.

### Acknowledgments

Acknowledgements should have language similar to (if you only use CMIP5 forcing, remove CMIP6 and vice versa).

“We thank the Climate and Cryosphere ([CliC](#)) effort, which provided support for ISMIP6 through sponsoring of workshops, hosting the ISMIP6 website and wiki, and promoted ISMIP6. We acknowledge the World Climate Research Programme, which, through its Working Group on Coupled Modelling, coordinated and promoted CMIP5 and CMIP6. We thank the climate modeling groups for producing and making available their model output, the Earth System Grid Federation (ESGF) for archiving the CMIP data and providing access, the University at Buffalo for ISMIP6 data distribution and upload, and the multiple funding agencies who support CMIP5 and CMIP6 and ESGF. We thank the ISMIP6 steering committee, the ISMIP6 model selection group and ISMIP6 dataset preparation group for their continuous engagement in defining ISMIP6. This is ISMIP6 contribution No X.”

### References to be included in Greenland Standalone papers

**ISMIP6 Protocol papers:** Nowicki et al. (ISMIP6 Publication 1); Nowicki et al. (ISMIP6 Publication 9)

**Results of Greenland paper:** Goelzer et al. (ISMIP6 Publication 10); Payne et al. (ISMIP6 Publication 12)

**initMIP Greenland** (if applicable): Goelzer et al. (ISMIP6 Publication 2)

**Model selection paper:** Barthel et al. (ISMIP6 Publication 5)

**Forcing papers:** Slater et al. (ISMIP6 Publication 4); Slater et al. (ISMIP6 Publication 6); and when SMB remapping was used: Goelzer et al. (ISMIP6 Publication 7)

**CMIP6 protocol paper** (if applicable): “Eyring et al. (2016)

- Eyring, V., Bony, S., Meehl, G. A., Senior, C. A., Stevens, B., Stouffer, R. J., and Taylor, K. E.: Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization, *Geosci. Model Dev.*, 9, 1937–1958, <https://doi.org/10.5194/gmd-9-1937-2016>, 2016.

## References to be included in Antarctica Standalone papers

**ISMIP6 Protocol papers:** Nowicki et al. (ISMIP6 Publication 1), Nowicki et al. (ISMIP6 Publication 9)

**Results of Antarctica paper:** Seroussi et al. (ISMIP6 Publication 11); Payne et al. (ISMIP6 Publication 12)

**initMIP Antarctica** (if applicable): Seroussi et al. (ISMIP6 Publication 3)

**Model selection paper:** Barthel et al. (ISMIP6 Publication 5)

**Forcing papers:** Jourdain et al. (ISMIP6 Publication 8)

**CMIP6 protocol paper** (if applicable): “Eyring et al. (2016)

- Eyring, V., Bony, S., Meehl, G. A., Senior, C. A., Stevens, B., Stouffer, R. J., and Taylor, K. E.: Overview of the Coupled Model Intercomparison Project Phase 6 (CMIP6) experimental design and organization, *Geosci. Model Dev.*, 9, 1937–1958, <https://doi.org/10.5194/gmd-9-1937-2016>, 2016.

## ISMIP6 Publication List and Special Issue

ISMIP6 has initiated a Special Issue with [EGU journal The Cryosphere](#). Below is a list of all ISMIP6 publications and the corresponding publication number:

**(1) Nowicki et al. (2016)** present the framework for the Ice Sheet Model Intercomparison Project for CMIP6 (ISMIP6), including a protocol for coupled ice sheet-climate model simulations and standalone ice sheet models as part of CMIP6:

- Nowicki, S. M., A. Payne, E. Larour, et al. 2016. "Ice Sheet Model Intercomparison Project (ISMIP6) contribution to CMIP6." *Geoscientific Model Development* 9 (12): 4521-4545 <https://doi.org/10.5194/gmd-9-4521-2016>

**(2) Goelzer et al. (2018)** present an analysis of the initMIP-Greenland intercomparison, an effort that investigates the impact of initialization methods on standalone ice sheet projections:

- Goelzer, H., Nowicki, S., Edwards, T., Beckley, M., Abe-Ouchi, A., Aschwanden, A., Calov, R., Gagliardini, O., Gillet-Chaulet, F., Golledge, N. R., Gregory, J., Greve, R., Humbert, A., Huybrechts, P., Kennedy, J. H., Larour, E., Lipscomb, W. H., Le clec'h, S., Lee, V., Morlighem, M., Pattyn, F., Payne, A. J., Rodehacke, C., Rückamp, M., Saito, F., Schlegel, Seroussi, H., Shepherd, A., Sun, S., van de Wal, R., and Ziemen, F. A.: Design and results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison, *The Cryosphere*, 12, 1433-1460, <https://doi.org/10.5194/tc-12-1433-2018>, 2018.

-Greenland model simulations can be found:

**Goelzer, H.**, Nowicki, S., Edwards, T., Beckley, M., Abe-Ouchi, A., Aschwanden, A., Calov, R., Gagliardini, O., Gillet-Chaulet, F., Golledge, N. R., Gregory, J., Greve, R., Humbert, A., Huybrechts, P., Kennedy, J. H., Larour, E., Lipscomb, Le clec'h, S., Lee, V., Morlighem, M., Pattyn, F., Payne, A. J., Rodehacke, C., Rückamp, M., Saito, F., Schlegel, Seroussi, H., Shepherd, A., Sun, S., van de Wal, R., and Ziemen, F. A.: Results of the ice sheet model initialisation experiments initMIP-Greenland: an ISMIP6 intercomparison, <https://doi.org/10.5281/zenodo.1173088>, 2018.

**et al. (2019)** present an analysis of the initMIP-Antarctica intercomparison, an effort that investigates the initialization methods on standalone ice sheet projections:

Sassi, H., Nowicki, S., Simon, E., Abe-Ouchi, A., Albrecht, T., Brondex, J., Cornford, S., Dumas, C., Gillet-Chaulet, F., Goelzer, H., Golledge, N. R., Gregory, J. M., Greve, R., Hoffman, M. J., Humbert, A., Huybrechts, P., Joughin, I., Larour, E., Leguy, G., Lipscomb, W. H., Lowry, D., Mengel, M., Morlighem, M., Pattyn, F., Pollard, D., Price, S. F., Quiquet, A., Reerink, T. J., Reese, R., Rodehacke, C. B., Schlegel, N.-J., Shepherd, A., Sun, S., Sutter, J., Van Breedam, J., van de Wal, R. S. W., Winkelmann, R., and Zhang, T.: initMIP-Antarctica: an ice sheet model initialization experiment of ISMIP6, *The Cryosphere*, 13, 1441-1471, <https://doi.org/10.5194/tc-13-1441-2019>, 2019.

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Model simulations can be found on:

Nowicki, S., Simon, E., Abe-Ouchi, A., Albrecht, T., Brondex, J., Cornford, S., Dumas, C., Gillet-Helzer, H., Golledge, N. R., Gregory, J. M., Greve, R., Hoffman, M. J., Humbert, A., Huybrechts, P., Jourdain, E., Leguy, G., Lipscomb, W. H., Lowry, D., Mengel, M., Morlighem, M., Pattyn, F., Payne, A. J., Pfeffer, S. F., Quiquet, A., Reerink, T. J., Reese, R., Rodehacke, C. B., Schlegel, N.-J., Shepherd, A., Sun, Y., van Breedam, J., van de Wal, R. S. W., Winkelmann, R., and Zhang, T.: initMIP-Antarctica: an ice sheet initialization experiment of ISMIP6, <https://doi.org/10.5281/zenodo.2651652>

at the submarine melting oceanic forcing for the Greenland projection:

Anna Straneo, Denis Felikson, Chris Little, Heiko Goelzer, Xavier Fettweis, and James Holte: Estimating glacier retreat driven by submarine melting, *The Cryosphere*, 13, 2489–2509, <https://doi.org/10.5194/tc-13-2489-2019>, 2019.

Framework for selecting climate models to be used in the development of atmospheric and oceanic forcing for the CMIP5 model ensemble

Christopher M. Little, Tore Hatterman, Nicolas C. Jourdain, Heiko Goelzer, Sophie Nowicki, Helene and Thomas J. Bracegirdle, CMIP5 model selection for ISMIP6 ice sheet model forcing: Greenland and Antarctica, 4, 855–879, <https://doi.org/10.5194/tc-14-855-2020>, 2020.

methods for implementing oceanic forcing for the Greenland projection:

Anna Straneo, Heiko Goelzer, Christopher M. Little, Mathieu Morlighem, Xavier Fettweis, and Sophie Fettweis: Oceanic forcing of the Greenland ice sheet for modelling of sea level contribution , *The Cryosphere*, 14, 985–999, <https://doi.org/10.5194/tc-14-985-2020>, 2020.

Mapping of Greenland surface mass balance which can be used when the ice sheet spatial extent and sheet (a result of initialization):

Xavier Fettweis, J. M. Gregory, W. H. Lipscomb, R. S. W. van de Wal, and M. R. van den Broeke: Surface mass balance anomalies for large ensemble sea-level change projections, *The Cryosphere*, 14, 3111–3127, <https://doi.org/10.5194/tc-14-3111-2020>, 2020.

Antarctic ice sheet:

Winkelmann, Fiammetta Straneo, Helene Seroussi, Christopher M. Little, and Sophie Nowicki, 2020: A protocol for Antarctic ice sheet projections, *The Cryosphere*, <https://doi.org/10.5194/tc-14-3111-2020>.

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P6 standalone ice sheet projections and all the forcing (atmospheric and oceanic) in the same place

mb, W. H., Abe-Ouchi, A., Agosta, C., Alexander, P., Asay-Davis, X. S., Barthel, A., Bracegirdle, T. J., Ermann, T., Jourdain, N. C., Kuipers Munneke, P., Larour, E., Little, C. M., Morlighem, M., Nias, I., T., Trusel, L. D., van den Broeke, M. R., and van de Wal, R.: Experimental protocol for sea level Cryosphere, 14, 2331–2368, <https://doi.org/10.5194/tc-14-2331-2020>, 2020

heets driven by CMIP5 models

omb, W. H., Gregory, J., Abe-Ouchi, A., Shepherd, A., Simon, E., Agosta, C., Alexander, P., Czzone, J., Dumas, C., Edwards, T., Felikson, D., Fettweis, X., Golledge, N. R., Greve, R., Humbert, A., P., Morlighem, M., Nias, I., Quiquet, A., Rückamp, M., Schlegel, N.-J., Slater, D., Smith, R., Straneo, future sea-level contribution of the Greenland ice sheet: a multi-model ensemble study of ISMIP6, The

en by CMIP5 models

Ouchi, A., Agosta, C., Albrecht, T., Asay-Davis, X., Barthel, A., Calov, R., Cullather, R., Dumas, C., man, M. J., Humbert, A., Huybrechts, P., Jourdain, N. C., Kleiner, T., Larour, E., Leguy, G. R., Lowry, D. A., Reese, R., Schlegel, N.-J., Shepherd, A., Simon, E., Smith, R. S., Straneo, F., Sun, S., Trusel, L. D., T., and Zwinger, T. 2020: ISMIP6 Antarctica: a multi-model ensemble of the Antarctic ice sheet [14-3033-2020](https://doi.org/10.5194/tc-14-3033-2020).

driven by CMIP6 models. These CMIP6 models were chosen based on their availability.

.. & Zwinger, T. (2021). Future sea level change under CMIP5 and CMIP6 scenarios from the Greenland [doi.org/10.1029/2020GL091741](https://doi.org/10.1029/2020GL091741).

MIP6 projections:

er, T. (2021). Projected land ice contributions to twenty-first-century sea level rise. Nature, 593(7857),

om the ABUMIP simulations

Goelzer, N. Golledge, R. Greve, M. Hoffman, A. Humbert, E. Kazmierczak, T. Kleiner, G. Leguy, W. Schlemm, J. Sutter, R. van de Wal, R. Winkelmann, and T. Zhang, 2020. Antarctic ice sheet response to [jog.2020.67](https://doi.org/10.5194/tc-14-3033-2020)

ulations as well as a comparison with LARMIP-2 experiments

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strength of the oceanic forcing in sea-level projections from Antarctica with the Parallel Ice Sheet Model,

tions of ocean-forced Antarctic Ice Sheet evolution using the Community Ice Sheet Model, The

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higher-order simulations: the AWI contribution to ISMIP6-Greenland using ISSM, *The Cryosphere*, 14,

y, J. G. Fyke, W. H. Lipscomb, M. Löfverström, and W. J. Sacks, Accelerated Greenland Ice Sheet mass S002031. <https://doi.org/10.1029/2019MS002031>.

M. Lenaerts, W. H. Lipscomb, and M. Löfverström (2020), Greenland Ice Sheet contribution to 21st [org/10.1029/2019GL086836](https://doi.org/10.1029/2019GL086836)

. Okuno (2020) Studies on the variability of the Greenland Ice Sheet and climate, in press, *Polar*

e SICOPOLIS model, driven by CMIP5 and CMIP6 climate models.

COPOLIS. Technical report, Zenodo, <http://doi.org/10.5281/zenodo.3971232>

OPOPLIS model, driven by CMIP5 and CMIP6 climate models.

[tp://doi.org/10.5281/zenodo.3971251](http://doi.org/10.5281/zenodo.3971251)

RISLI model, driven by CMIP5 and CMIP6 climate models.

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osphere, 15, 1015–1030, <https://doi.org/10.5194/tc-15-1015-2021>, 2021.

del, driven by CMIP5 and CMIP6 climate models.

, 15, 1031–1052, <https://doi.org/10.5194/tc-15-1031-2021>, 2021.

th Environ 2, 221, <https://doi.org/10.1038/s43247-021-00289-2>, 2021

, 68 (269), 605-617, <https://doi.org/10.1017/jog.2021.124>, 2022.

<https://doi.org/10.1017/jog.2022.9>, 2022.

re, 16, 4637–4657, <https://doi.org/10.5194/tc-16-4637-2022>, 2022.

<https://doi.org/10.1017/jog.2023.41>, 2023

2023

Iledge, N. R., Gregory, J. M., Greve, R., Hatterman, T., Hoffman, M. J., Humbert, A., Huybrechts, P., Trusel, L. D., Van Breedam, J., Van Katwyk, P., van de Wal, R. S. W., Winkelmann, R., Zhao, C., 2023

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<https://doi.org/10.1029/2023MS003899>, 2023