



# Publications: applications of PISM

These are applications to real ice flow problems. There is also a [separate page](#) for publications on model development and numerical methods.

## 2012

- **W. J. J. van Pelt, J. Oerlemans** (2012) Numerical simulations of cyclic behaviour in the Parallel Ice Sheet Model (PISM). *Journal of Glaciology* 58 (208) pp. 347–360. doi [http://dx.doi.org/10.3189/2012JoG11J217] web [http://www.igsoc.org/journal/58/208/t11J217.pdf] bibtex
- **T. Albrecht, A. Levermann** (2012) Fracture field for large-scale ice dynamics. *Journal of Glaciology* 58 (207) pp. 165–176. doi [http://dx.doi.org/10.3189/2012JoG11J191] web [http://www.igsoc.org/journal/current/207/t11J191.pdf] bibtex
- **A. Levermann, T. Albrecht, R. Winkelmann, M. A. Martin, M. Haseloff, I. Joughin** (2012) Kinematic first-order calving law implies potential for abrupt ice-shelf retreat. *The Cryosphere* 6 pp. 273–286. web [http://www.the-cryosphere.net/6/273/2012/tc-6-273-2012.html] bibtex
- **R. Winkelmann, A. Levermann, K. Frieler, M. A. Martin** (2012) Uncertainty in future solid ice discharge from Antarctica. *The Cryosphere Discussions* 6 (1) pp. 673–714. web [http://www.the-cryosphere-discuss.net/6/673/2012/] bibtex
- **A. Solgaard, P. Langen** (2012) Multistability of the Greenland ice sheet and the effects of an adaptive mass balance formulation. *Climate Dynamics* doi [http://dx.doi.org/10.1007/s00382-012-1305-4] bibtex
- **F. Pattyn, C. Schoof, L. Perichon, 15 others** (2012) Results of the Marine Ice Sheet Model Intercomparison Project, MISMP. *The Cryosphere* pp. in press. web [http://www.the-cryosphere-discuss.net/6/267/2012/tcd-6-267-2012.html] bibtex
- **N. Golledge, A. Mackintosh, 8 others** (2012) Last Glacial Maximum climate in New Zealand inferred from a modelled Southern Alps icefield. *Quaternary Science Reviews* pp. in press. bibtex
- **R. Winkelmann, A. Levermann** (2012) Linear response functions to project contributions to future sea level. *Climate Dynamics* 38 pp. in press. web [http://www.pik-potsdam.de/~anders/publications/winkelmann\_levermann12c.pdf] bibtex
- **A. Aschwanden, G. Adalgeirsdottir, C. Khroulev** (2012) Using observations to address ice sheet model sensitivity to initial states. *SUBMITTED* bibtex

## 2011

- **A.M. Solgaard, N. Reeh, P. Japsen, T. Nielsen** (2011) Snapshots of the Greenland ice sheet configuration in the Pliocene to early Pleistocene. *Journal of Glaciology* 57 (205) pp. 871–880. web [http://www.ingentaconnect.com/content/igsoc/jog/2011/00000057/00000205/art00011] bibtex
- **M. A. Martin, R. Winkelmann, M. Haseloff, T. Albrecht, E. Bueler, C. Khroulev, A. Levermann** (2011) The Potsdam Parallel Ice Sheet Model (PISM-PIK) – Part 2: Dynamic equilibrium simulation of the Antarctic ice sheet. *The Cryosphere* 5 pp. 727–740. web [http://www.the-cryosphere.net/5/727/2011/tc-5-727-2011.pdf] bibtex
- **A. Levermann** (2011) When glacial giants roll over. *Nature* 472 pp. 43–44. web [http://www.pik-potsdam.de/~anders/publications/levermann11.pdf] bibtex