

## Dr. Gregor Knorr

**Degrees:** Ph.D., Geosciences, University Hamburg, Germany, (summa cum laude), 2005; Supervisors: Prof. Gerrit Lohmann and Prof. Klaus Fraedrich  
Masters Degree in Marine Geotechnics, University of North Wales, Bangor, UK, 2001  
Vordiplom in Geophysics (similar to BSc.), University Kiel, Germany, 1998

### Positions:

Since Oct 2014 Senior Scientist at the Alfred Wegener Institute, Bremerhaven, Germany  
2008 – 2014 Research associate at the Alfred Wegener Institute, Bremerhaven, Germany  
2006 – 2008 Research Lecturer at the School of Earth and Ocean Sciences, Cardiff University, Wales, U.K.  
2001 – 2005 Research associate at the Meteorological Institute, University Hamburg; the Department of Geosciences, University Bremen, and the Alfred-Wegener-Institute, Bremerhaven.

### Research Interests:

- Earth system modelling and interpretation of proxy data
- Large scale climate dynamics ranging from glacial-interglacial to tectonic timescales
- Mechanisms and feedbacks of abrupt climate changes
- Stability of the Atlantic overturning circulation

**Awards & Honours:** Bernd Rendel Prize of the DFG in 2004

Honorary Senior Research Fellow at Cardiff University in the School of Earth and Ocean Sciences since 2008

### Publications:

Hasenclever, J., Knorr, G., Rüpke, L. H., Köhler, P., Morgan, J., Garofalo, K., Barker, S., Lohmann, G. and I. R. Hall (2017): Sea level fall during glaciation stabilized atmospheric CO<sub>2</sub> by enhanced volcanic degassing, *Nature Commun.*, 8, doi: 10.1038/ncomms15867.

Niezgodzki, I., G. Knorr, G. Lohmann, J. Tyszka, and P. J. Markwick (2017): Late Cretaceous climate simulations with different CO<sub>2</sub> levels and subarctic gateway configurations: A model-data comparison, *Paleoceanography*, 32, doi:10.1002/2016PA003055.

Stärz, M., Jokat, W., Knorr, G. and G. Lohmann (2017): Threshold in North Atlantic-Arctic Ocean circulation controlled by the subsidence of the Greenland-Scotland Ridge, *Nature Commun.*, 8, doi:10.1038/ncomms15681.

Knorr, G. and G. Lohmann (2014): Climate warming during the Antarctic ice sheet expansion at the Middle Miocene transition, *Nature Geoscience* 7, 376–381 doi: 10.1038/ngeo2119.

Zhang, X., Lohmann, G., Knorr, G. and C. Purcell (2014): Abrupt glacial climate shifts controlled by ice sheet changes, *Nature*, 512 (7514), 290-294. doi: 10.1038/nature13592.