

Anne Morée

Curriculum Vitae
Anne.Moree@uib.no



Date of birth
Nationality

Personalia

28th of March, 1989 in Haarlem, The Netherlands
Dutch

Profile

Enthusiastic marine biogeochemist with a broad interest across the Earth Sciences. I am a modeler (development and analysis), and my research is focused on the role of the Southern Ocean in global biogeochemical cycles. I like the challenge of research, and enjoy motivating others. Interests: Global biogeochemical cycling, paleoceanography, Southern Ocean, global climate, teaching, organization.

Education and work

2014-now

PhD education - University of Bergen/Bjerknes Centre for Climate Research
Topic: 'The Role of the Southern Ocean in Global Biogeochemical Cycling'.
Main tasks: Global modeling with the Norwegian Earth System Model, (big) data analysis, teaching. Focus on carbon-13 and paleo climate.
Supervisors: Christoph Heinze, Jörg Schwinger, Mario Hoppema.
Highlights:

- 25% teaching position (Teaching Assistant)
- Four-month research visit to ETH, supervised by N. Gruber
- Participation summerschool ACDC2018
- Active member of research schools CHES and ResClim
- Conference attendance and presentation at ICDC2018
- Visit and seminar presentation in Bern and at AWI
- Attendance annual learning conference at the university

2011-2013

Research Master hydrology and geochemistry - University of Utrecht
Cum laude (GPA 4.0). Focus on groundwater hydrology and paleo-oceanography. Master research on global urban nitrogen and phosphorus production and discharge to surface water (Morée et al., 2013).
Supervisors: A.F. Bouwman, A. Beusen, J. Middelburg.

2013

Internship - Nutrient Management Institute (NMI)
Topic: Sustainable soil management in The Netherlands
Main tasks: Reporting on the current knowledge and status of sustainable soil management and development of a tool for quantitative soil quality assessment.

2012-2013

Internship - PBL Netherlands Environmental Assessment Agency
Topic: Global nitrogen and phosphorus flows in urban wastes
Main tasks: Data-collection and –analysis at PBL for my master thesis research. Programming and modeling using Python.

2010-2011

Project assistant - CSO
Main tasks: Writing reports on soil analysis results, site visits, soil- and groundwater sampling, writing a memo on the opportunities for CSO in hydrogeology and data analysis for the annual sustainability report.

2007-2010 **Bachelor of Earth Sciences** - University of Utrecht
With distinction (top 10%). Specialization in hydrogeology. Bachelor thesis on bioremediation of toluene in soil- and groundwater. Geological, hydrological and geographical fieldwork in 2008 (French Alps) and 2009 (Spanish Pyrenees). Erasmus exchange to Oslo (fall 2009): courses in glaciology, environmental geology, evolution of life and Norwegian.

2001-2007 **Pre-university education** - Stedelijk Gymnasium Haarlem
Nature Profile (Biology, Chemistry, Physics and Math) combined with many languages. Participation in two MUN's (Model United Nations).

Scientific work

Morée, A. L. and J. Schwinger: A Last Glacial Maximum forcing dataset for ocean modelling, in prep.

Morée, A.L., T. Sun, A. Bretones, E.O. Straume, K. Nisancioglu, and J. Gebbie: Cancellation of the precessional cycle in benthic $\delta^{18}O$ records during the Early Pleistocene, in prep.

Morée, A., Schwinger, J.: Last Glacial Maximum minus pre-industrial anomaly fields for use in forced ocean 15 modelling, based on PMIP3, Norstore, <https://doi.org/10.11582/2019.00011>, 2019.

Morée, A. L., J. Schwinger, and C. Heinze (2018): Southern Ocean controls of the vertical marine $\delta^{13}C$ gradient – a modelling study, *Biogeosciences*, 15, 7205-7223, <https://doi.org/10.5194/bg-15-7205-2018>.

Morée, A. L., A. H. W. Beusen, A. F. Bouwman, and W. J. Willems (2013): Exploring global nitrogen and phosphorus flows in urban wastes during the twentieth century, *Global Biogeochem. Cycles*, 27, 836–846, doi:10.1002/gbc.20072.

Outreach

2019 **Article 'What's in mud'?** on www.scisnack.com

2016 **Ekte Data** Contribution to the school project by developing exercises

2014 **Article 'Urban Metabolism'** based on Morée et al. (2013) on www.scisnack.com, translated to Norwegian for newspaper *Aftenposten*

Additional activities

2014-now **Active (board) member and skipper** in the student sailing club of Bergen (BSI Seiling), where I have taught ~100 students how to sail.

2008-now **President/Board member** of owners association, organizing the maintenance, economy and administration of up to seven apartments.

2011 **President** of the 9th Lustrum of study society Drift '66
Coordinating and organizing with highlights being the gala in the Dom tower of Utrecht, wine tasting, the lustrum almanac and excursions abroad.

2010-2011 **Board** of study society Drift '66
Managing the club's external relations, focused at networking and acquisition of sponsors and leading multiple commissions.

Other experiences

Languages Dutch mother tongue. Fluent English and Norwegian. Passive French and German.

IT HPC, FORTRAN, Matlab, Ubuntu, Windows, ODV, CDO, NCO.

Funding acquisition Meltzer funding for AGU Fall Meeting (~2 k€, 2019), Meltzer and SEMP funding to stay at ETH Zürich (~5 k€, 2018), funding for workshop in Trieste on Data Assimilation (~3 k€, 2014), Sponsoring for the study society Drift '66 (~10 k€, 2011)

Hobbies Sailing, (big) tropical aquaria, baking bread