

Curriculum Vitae

Gunnar Voet

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I. Personal Details:

Citizenship: Germany

II. Education:

- 2010 PhD in Physical Oceanography, University of Hamburg.
Thesis: *On the Nordic Overturning Circulation.*
- 2006 Diplom Physik (similar to Msc. Physics), University of Hamburg.
Thesis: *Entrainment in the Denmark Strait Overflow Plume by meso-scale Eddies.*

III. Appointments held:

- 2014 – ongoing Assistant Project Scientist at the Scripps Institution of Oceanography,
University of California, San Diego.
- 2012 – 2014 Postdoctoral Researcher at the Applied Physics Laboratory at the University of Washington.
- 2011 Research associate at the German Federal Maritime and Hydrographic Agency.
- 2010 – 2011 Software development at the German Federal Waterways Engineering and Research.
- 2006 – 2010 Research associate at the Institute of Oceanography, University of Hamburg.

IV. External Funding:

- 2017-2020 **Voet, G.**, M. H. Alford, L. J. Pratt, J. B. Girton, G. S. Carter. Hydraulic Processes in the Samoan Passage. *National Science Foundation*, \$714,202.
- 2015-2019 Alford, M. H., J. A. MacKinnon, **G. Voet**. Flow Encountering Abrupt Topography. *Office of Naval Research*, \$1,185,083.

V. Refereed Publications:

- 2017 Thorpe, S. A., J. Malarkey, **G. Voet**, M. H. Alford, J. B. Girton, G. S. Carter. Application of a model of internal hydraulic jumps. *Journal of Fluid Mechanics*, submitted.
- 2017 Savage, A. C., B. K. Arbic, J. G. Richman, J. F. Shriver, M. H. Alford, M. C. Buijsman, J. T. Farrar, H. Sharma, **G. Voet**, A. J. Wallcraft, L. Zamudio. Frequency content of sea surface height variability from internal gravity waves to mesoscale eddies. *Journal of Geophysical Research*, 122.
- 2016 **Voet, G.**, J. B. Girton, M. H. Alford, G. S. Carter, J. M. Klymak, J. B. Mickett. Warming and weakening of the abyssal flow through Samoan Passage. *Journal of Physical Oceanography*, 46(8), 2389-2401.
- 2015 **Voet, G.**, M. H. Alford, J. B. Girton, G. S. Carter, J. B. Mickett, J. M. Klymak. Pathways, Volume Transport and Mixing of Abyssal Water in the Samoan Passage. *Journal of Physical Oceanography*, 45(2), 562-588.
- 2013 Alford, M. H., J. B. Girton, **G. Voet**, G. S. Carter, J. B. Mickett and J. M. Klymak. Turbulent mixing and hydraulic control of abyssal water in the Samoan Passage. *Geophysical Research Letters*, 40, 1-7.
- 2010 **Voet, G.** and D. Quadfasel. Entrainment in the Denmark Strait overflow plume by meso-scale

- eddies. *Ocean Science*, 6, 301-310.
- 2010 **Voet, G.**, D. Quadfasel, K.-A. Mork and H. Søiland. The mid-depth circulation of the Nordic Seas derived from profiling float observations. *Tellus A*, 62.
- 2010 Fer, I., **G. Voet**, K. Seim, B. Rudels and K. Latarius. Intense mixing of the Faroe Bank Channel overflow. *Geophysical Research Letters*, 37, L02604.
- 2008 Dickson, B., S. Dye, S. Jónsson, A. Köhl, A. Macrander, M. Marnela, J. Meincke, S. Olsen, B. Rudels, H. Valdimarsson and **G. Voet**. The Overflow Flux West of Iceland: Variability, Origins and Forcing. In: *Arctic-Subarctic Ocean Fluxes*, edited by R.R. Dickson et al., Springer, 443-474.

VI. Talks and posters at international conferences:

- 2016 Ocean Sciences Meeting.
Observed energy and momentum budget of a hydraulically controlled dense overflow in the Samoan Passage (oral presentation). New Orleans, Louisiana, USA.
- 2015 26th IUGG General Assembly.
Abyssal volume and heat transport through the Samoan Passage: A 16-month timeseries based on recent observations. Prague, Czech Republic.
- 2014 Ocean Sciences Meeting.
Volume Transports and Turbulent Mixing in the Samoan Passage (poster). Honolulu, Hawaii, USA.
- 2012 AGU Fall Meeting.
The Samoan Passage Abyssal Mixing Experiment (oral presentation). San Francisco, California, USA.
- 2010 Euro-Argo User Workshop, *Argo Floats in the Nordic Seas (oral presentation)*. Paris, France.
- 2009 MOCA-09 Joint Assembly, *The overflow across the Iceland-Faroe Ridge (poster)*. Montréal, Québec, Canada.
- 2008 Ocean Sciences Meeting, *The mid-depth circulation of the Nordic Seas from profiling floats (oral presentation)*. Orlando, Florida, USA.
- 2007 North Atlantic Subpolar Gyre Workshop, *Stirring and mixing in the Nordic overflow plumes (poster)*. Kiel, Germany.
- 2006 Rapid Climate Change International Science Conference, *Stirring and mixing in the Nordic overflow plumes (poster)*. Birmingham, UK.

VII. Major Research Cruises:

- 2017 Research cruise RR17078 on *R/V Roger Revelle*. Tropical Pacific north of Palau. Chief Scientist. CTD, LADCP, mooring work.
- 2016 Research cruise RR1607 on *R/V Roger Revelle*. Tropical Pacific north of Palau. Co-PI. SWIMS, fastCTD, MMP, CTD, LADCP, mooring work.
- 2015 Research cruise SKQ201511S on *R/V Sikuliaq*. Beaufort Sea & Bering Strait. SWIMS, MMP, CTD, LADCP, mooring work.
- 2015 Research cruises RR1501 & RR1503 on *R/V Roger Revelle*. Tasman Sea. CTD, LADCP and mooring work.
- 2014 Research cruise PS1415 on *R/V Point Sur*. Monterey Bay. Biosonics echosounder & CTD.
- 2014 Research cruise OC1408B on *R/V Oceanus*. Washington Shelf. SWIMS, MMP and mooring work.
- 2014 Research cruise TN305 on *R/V Thomas G. Thompson*. Samoan Passage. CTD, LADCP, VMP and mooring work.

2013	Research cruise MV1306 on <i>R/V Melville</i> . CLIVAR/Carbon P02E (Honolulu - San Diego). Co-Chief Scientist.
2012	Research cruise RR1209 on <i>R/V Roger Revelle</i> . Samoan Passage. CTD, LADCP, VMP and mooring work.
2008	Research cruise HM610 on <i>Håkon Mosby</i> . Faroe-Bank Channel. CTD, LADCP, VMP (vertical microstructure profiler).
2007	Research cruise MSM05-4 on <i>MS Merian</i> . Irminger Sea / Denmark Strait. CTD, LADCP and mooring work.
2006	Research cruise D311 on <i>RRS Discovery</i> . Irminger Sea / Denmark Strait. CTD, vmADCP and mooring work.
2005	Research cruise A0805 on <i>Árni Friðriksson</i> . Irminger Sea / Denmark Strait. CTD and mooring work.
2002	Research cruise 44/02/05 on <i>FS Alexander von Humboldt</i> . North Atlantic. CTD.

VIII. Professional Services:

Peer-review of scientific publications in *Journal of Physical Oceanography*, *Journal of Geophysical Research*, *Ocean Modelling*, *Ocean Science*, *Journal of Marine Research*, *Journal of Marine Systems*, *Oceanography*, *Chinese Journal of Oceanology and Limnology*.

Peer-review of research proposals for *NSF* and *NOAA*.

Member of *American Geophysical Union*.

IX. Stipends and Awards:

2007	Awarded with the <i>Annette-Barthelt-Preis für Meeresforschung</i> for an outstanding thesis in the field of seagoing ocean research, including a research grant from the German Federal Ministry of Education and Research (BMBF).
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X. Other qualifications:

2014	UNOLS Chief Scientist Training Workshop
2013	Co-Chief Scientist CLIVAR/Carbon P02E.
2008	3 rd EGO Workshop and "Glider School", NATO Undersea Research Centre, La Spezia, Italy.
2007	CKO International Summer School on Physical Oceanography, Les Diablerets, Switzerland. Organized by the <i>Netherlands Centre for Climate Research</i> .

XI. References:

Dr. Matthew Alford	Scripps Institution of Oceanography / University of California, San Diego 9500 Gilman Drive #0213 La Jolla, CA 92093-0213 email: malford@ucsd.edu
Dr. James Girton	Applied Physics Laboratory / University of Washington 1013 40 th Str NE Seattle, WA 98105 email: girton@apl.washington.edu