Curriculum Vitae – Johannes Hahn

Personal information

Name, first name: Hahn, Johannes

Nationality: German

Date of birth: 28-July-1982

Place of birth: Halle (Saale), Germany

Research interests

- dynamics, ventilation and oxygen budget of oxygen minimum zones in the open ocean

- large-scale and mesoscale circulation and its variability on seasonal to multi-decadal time scales
- water mass and oxygen distribution and its variability in response to circulation changes
- velocity, hydrography and oxygen observations in the open ocean from different platforms
- combination of these ocean observations with model simulations

Employment

06/2013 - present	Postdoctoral fellow in the collaborative research centre SFB754 at GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany, RD Physical Oceanography
10/2009 – 05/2013	PhD student in the SFB754 at GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany, RD Physical Oceanography

Education

05/2013	Dr. rer. nat. (magna cum laude) 'Oxygen Variability and Eddy-driven Merdional Oxygen Supply in the Tropical North East Atlantic Oxygen Minimum Zone'
10/2009 - 05/2013	PhD student in the SFB754 at GEOMAR Helmholtz Centre for Ocean Research Kiel, Germany, RD Physical Oceanography
10/2003 - 09/2009	Diploma in Physics, Martin – Luther – University, Halle (Saale)

Peer reviewed publications

- [4] Karstensen, J., Fiedler, B., Schütte, F., Brandt, P., Körtzinger, A., Fischer, G., Zantopp, R. J., Hahn, J., Visbeck, M. and D. W. R. Wallace: *Open ocean dead-zone in the tropical North Atlantic Ocean*. Biogeosciences (BG), 12. DOI 10.5194/bg-12-2597-2015. (2015).
- [3] Brandt, P., Bange, H. W., Banyte, D., Dengler, M., Didwischus, S. H., Fischer, T., Greatbatch, R. J., Hahn, J., Kanzow, T., Karstensen, J., Körtzinger, A., Krahmann, G., Schmidtko, S., Stramma, L., Tanhua, T. and M. Visbeck: *On the role of circulation and mixing in the ventilation of oxygen minimum zones with a focus on the eastern tropical North Atlantic*. Biogeosciences (BG), 12. DOI 10.5194/bg-12-489-2015. (2015).
- [2] **Hahn, J.**, P. Brandt, R. J. Greatbatch, G. Krahmann and A. Körtzinger: *Oxygen variance and meridional oxygen supply in the Tropical North East Atlantic oxygen minimum zone*. Climate Dynamics, 43. DOI 10.1007/s00382-014-2065-0. (2014).
- [1] Brandt, P., R. J. Greatbatch, M. Claus, S.-H. Didwischus, V. Hormann, A. Funk, **J. Hahn**, G. Krahmann, J. Fischer and A. Körtzinger: *Ventilation of the equatorial Atlantic by the equatorial deep jets. Journal of Geophysical Research Oceans*, 117. DOI 10.1029/2012JC008118. (2012).

Manuscripts in review

[1] **Hahn, J.**, P. Brandt, S. Schmidtko, and G. Krahmann: *Decadal oxygen change in the eastern tropical North Atlantic*. Ocean Science Discussions, in review. DOI 10.5194/os-2016-102. (2017).

Teaching, coordination and memberships

2016 – present	Member of the collaborative research centre SFB 754 extended board and representative of the SFB 754 PostDocs
2014 – present	Supervision of students during various research cruises
2010 – present	Supervision of students within various seminars, literature works and internships
07/2016 - 11/2016	Assistance in coordination, planning and chairing of the SFB 754 one-week workshop for PostDocs in Gottin, Germany
06/2016 – 09/2016	Supervision of a student research assistant for testing of self-written MATLAB toolboxes and analysis of oceanographic data
12/2014	Preparation, coordination and chairing of an afternoon seminar during the <i>Nansen Tutu Summer School on Ocean, Climate and Marine Ecosystem</i> in Capetown, South Africa
09/2014 – 11/2014	Planning, coordination and PI of the physical oceanography measurement program during <i>R/V Polarstern</i> cruise PS88.2

08/2013	Chief scientist during two one-day cruises with <i>R/V Skagerak</i> and <i>R/V Oscar von Sydow</i> during the SFB 754 summerschool in Kristineberg, Sweden
08/2013	Supervision of an external student in the framework of an internship
06/2013 – 08/2013	Assistance in coordination and planning of a two week SFB 754 summerschool in Kristineberg, Sweden
07/2011 – 08/2011	Proposal for and supervision of an external student within the <i>DAAD RISE</i> program
10/2010	Research assistent during practical field work on R/V Alkor
Fundraising	
2014	Grant for funding of additional costs (,Restmittel' funding by the SFB754) for <i>R/V Polarstern</i> cruise PS88.2
2011	Grant for an external student within the DAAD RISE program
2010	Travel grant (by ISOS) for the summer school on <i>Ocean Observation with Remote Sensing Satellites</i>
Expeditions	
2017	R/V Ronald H. Brown cruise RB-17-01, Leg 2
2016	R/V Meteor cruise M130
2015	R/V Meteor cruise M119
2014	R/V Polarstern cruise PS88.2 (co-chief scientist and PI of the oceanographic research program)
2014	R/V Meteor cruise M106
2013	R/V Skagerak and R/V Oscar von Sydow (chief scientist during two one-day cruises in the framework of the SFB754 summer school)
2012	R/V Maria S. Merian cruise MSM22
2011	R/V Maria S. Merian cruise MSM18/2
2010	R/V Alkor (practical field work for students)
2009	R/V Meteor cruise M80/1

Computing and programming skills

2004

- MATLAB (main usage), PYTHON, FORTRAN

R/V Meteor cruise M62/3

- MATLAB based programming of toolboxes for internal use in research devision (e.g. comprehensive instrument processing for calibration of mooring time series data)
- Mathematica, webpage programming (html, php, java)
- Adobe environment, TEX, Office package
- Linux/Windows/Mac environment

Conference and seminar talks

- [7] **Hahn, J.**, P. Brandt, S. Schmidtko, and G. Krahmann: Interplay of oxygen and hydrography *in the eastern tropical North Atlantic on decadal to multi-decadal time scales*. EGU General Assembly 2016, Vienna, Austria, 17/04/2016 22/04/2016.
- [6] **Hahn, J.**, H. C. Bittig, G. Krahmann, J. Karstensen, P. Brandt, and A. Körtzinger: *In situ calibration procedure for Aanderaa optodes with a focus on glider oxygen measurements*. 6. EGO Meeting and Final Symposium of the COST Action ES0904, Kiel, Germany, 16/06/2014 17/06/2014.
- [5] **Hahn, J.**, P. Brandt, R. J. Greatbatch, G. Krahmann, and A. Körtzinger: O_2 Variance and Meridional Oxygen Supply in the Tropical North East Atlantic Oxygen Minimum Zone. Ocean Sciences Meeting 2014, Honolulu, Hawaii, USA, 23/02/2014 28/02/2014.
- [4] **Hahn, J.**, T. Fischer, P. Brandt, R. J. Greatbatch, A. Körtzinger, T. Tanhua, M. Visbeck, D. Banyte, M. Dengler, and G. Krahmann: *Oxygen Supply to the Tropical North East Atlantic Oxygen Minimum Zone*. Talk, SFB754 Colloquium, Kiel, Germany, 08/01/2014.
- [3] Fischer, T., J. Hahn, P. Brandt, R. J. Greatbatch, A. Körtzinger, T. Tanhua, M. Visbeck, D. Banyte, M. Dengler, and G. Krahmann: *Oxygen Supply to the Tropical North East Atlantic Oxygen Minimum Zone*. Invited Talk, IOW Colloquium, Rostock, Germany, 18/11/2013.
- [2] **Hahn, J.**, P. Brandt, R. J. Greatbatch, G. Krahmann, and A. Körtzinger: *Current and Oxygen Variability in the Tropical North East Atlantic*. Talk, TAV Meeting / PIRATA-18 Meeting, Venice, Italy, 22/10/2013 25/10/2013.
- [1] **Hahn, J.**, P. Brandt, R. J. Greatbatch, G. Krahmann, and A. Körtzinger: O_2 variance and meridional O_2 supply in the Tropical North East Atlantic. Talk, TAV Meeting / PIRATA-17 Meeting, Kiel, Germany, 10/09/2012 15/09/2012.

Poster contributions

- [4] **Hahn, J.**, P. Brandt, R. J. Greatbatch, G. Krahmann, and A. Körtzinger: Meso- to submesoscale O_2 Variability in the oxygen minimum zone of the eastern tropical North Atlantic. EGU General Assembly 2015, Vienna, Austria, 12/04/2015 17/04/2015.
- [3] Hahn, J., P. Brandt, R. J. Greatbatch, G. Krahmann, and A. Körtzinger: O₂ Variability and

Meridional Oxygen Supply in the Tropical North East Atlantic Oxygen Minimum Zone. EGU General Assembly 2013, Vienna, Austria, 07/04/2013 - 12/04/2013.

- [2] **Hahn, J.**, P. Brandt, R. J. Greatbatch, A. Körtzinger, G. Krahmann, and A. Funk: O_2 variance at intermediate depth in the central tropical Atlantic along 23°W. EGU General Assembly 2012, Vienna, Austria, 22/04/2012 27/04/2012.
- [1] **Hahn, J.**, P. Brandt, A. Körtzinger, G. Krahmann, J. Karstensen, M. Schlundt, A. Funk: *Mesoscale and Finescale Oxygen Variability at the Southern Edge of the Tropical North East Atlantic Ocean Oxygen Minimum Zone*. EUR-OCEANS Conference, Toulouse, France, 24/10/2011 26/10/2011.