

Name	Dörthe Handorf
Position	Senior scientist
Affiliation	Alfred Wegener Institute Helmholtz Center for Polar and Marine Research (AWI), Potsdam, Germany
Higher education	<ul style="list-style-type: none"> • 1996 Humboldt University Berlin, Berlin, Germany PhD in Meteorology • 1990 Humboldt University Berlin, Berlin, Germany Diploma in Meteorology
Academic career	<ul style="list-style-type: none"> • 1999 to present Senior Scientist at the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI), Research department Potsdam, Germany • 1997-1999 Post-Doc at the Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research (AWI), Research department Potsdam, Germany • 1996-1997 Post-Doc at the German Weather Service, Meteorological Observatory Lindenberg, Germany • 1990 – 1995 PhD student at Humboldt University Berlin and at the Alfred-Wegener-Institute, Helmholtz Centre for Polar and Marine Research (AWI), Bremerhaven, Germany
Teaching activities	2002 – 2016: Co-teaching of “Decadal climate variability” at the University Potsdam, Institute of Physics
Research and development projects during the past 5 years	<ul style="list-style-type: none"> • QUAntifying Rapid Climate Change in the Arctic: regional feedbacks and large-scale impacts (QUARRCS) 2017-2020, funded by BMBF (German Ministry for Education and Research) under the framework of scientific-technical collaboration with Russia, Role: Workpackage leader • Towards regionally focused modelling of decadal climate predictions (TORUS) 2011-2015, funded by BMBF (German Ministry for Education and Research) within the MiKlip framework, Role: Coordinator
Significant publications during the past 5 years	<p>Total publications ca. 50</p> <p>Crasemann B, Handorf D, Jaiser R, Dethloff K, Nakamura T, Ukita J and K Yamazaki, 2017. Can preferred atmospheric circulation patterns over the North-Atlantic-Eurasian region be associated with Arctic sea ice loss? Polar Science (doi:10.1016/j.polar.2017.09.002).</p> <p>Rinke, A., M. Maturilli, R.M. Graham, H. Matthes, D. Handorf, L. Cohen, S.R. Hudson, and J.C. Moore, 201.: Extreme cyclone events in the Arctic: Wintertime variability and trends, Envir. Res. Lett., doi:10.1088/1748-9326/aa7def</p> <p>Handorf D, Dethloff K, Erxleben S, Jaiser R and MV Kurgansky, 2017. Arctic-Mid-Latitude Linkages in a Nonlinear Quasi-Geostrophic Atmospheric Model. Advances in Meteorology 2017: 2691368 (doi:10.1155/2017/269136).</p> <p>Jaiser R, Nakamura T, Handorf D, Dethloff K, Ukita J and K Yamazaki, 2016. Atmospheric winter response to Arctic sea ice changes in reanalysis data and model simulations. Journal of Geophysical Research: Atmospheres 121(13): 7564-7577 (doi:10.1002/2015JD024679).</p>

Name	Dörthe Handorf
	<p>Nakamura, T., Yamazaki, K., Honda, M., Ukita, J., Jaiser, R., Handorf, D., and Dethloff, K., 2016. On the atmospheric response experiment to a Blue Arctic Ocean. <i>Geophysical research letters</i>, 43. doi:10.1002/2016GL070526</p> <p>Handorf D, Jaiser R, Dethloff K, Rinke A and J Cohen, 2015. Impacts of Arctic sea ice and continental snow cover changes on atmospheric winter teleconnections. <i>Geophysical Research Letters</i> 42(7): 2367-2377 (doi:10.1002/2015GL063203).</p> <p>Wegmann, M., Orsolini, Y., Vázquez, M., Gimeno, L., Nieto, R., Bulygina, O., Jaiser, R., Handorf, D., Rinke, A., Dethloff, K., and Sterin, A., 2015. Arctic moisture source for Eurasian snow cover variations in autumn. <i>Environmental Research Letters</i>, 10, 054015. doi:10.1088/1748-9326/10/5/054015</p> <p>Sidorenko, D. , Rackow, T. , Jung, T. , Semmler, T. , Barbi, D. , Danilov, S. , Dethloff, K. , Dorn, W. , Fieg, K. , Gößling, H. F. , Handorf, D. , Harig, S. , Hiller, W. , Juricke, S. , Losch, M. , Schröter, J. , Sein, D. and Wang, Q., 2015. Towards multi-resolution global climate modeling with ECHAM6-FESOM. Part I: model formulation and mean climate. <i>Climate Dynamics</i>. 44, 757–780, doi:10.1007/s00382-014-2290-6</p> <p>Jaiser R, Dethloff K and D Handorf, 2013. Stratospheric response to Arctic sea ice retreat and associated planetary wave propagation changes. <i>Tellus A: Dynamic Meteorology and Oceanography</i> 65(1): 19375 (doi:10.3402/tellusa.v65i0.19375).</p> <p>Rinke, A., K. Dethloff, W. Dorn, D. Handorf, and J.C. Moore, 2013. Simulated Arctic atmospheric feedbacks associated with late summer sea ice anomalies, <i>J. Geophys. Res.</i>, 118, 7698–7714, doi:10.1002/jgrd.50584</p>
<p>Activities in scientific organizations and associations during the past 5 years</p>	<ul style="list-style-type: none"> • since 2013 Reviewer for journal articles: <i>Climate dynamics</i>, <i>Monthly weather review</i>, <i>Nature</i>, <i>International Journal of Climatology</i> • 2017 Reviewer for the Norwegian Research Council