

Name	Annette Rinke
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"> • 1988 Humboldt University Berlin, Berlin, Germany PhD in Meteorology • 1986 Humboldt University Berlin, Berlin, Germany M.Sc in Meteorology
Academic career	<ul style="list-style-type: none"> • 1992 to present Senior Scientist in the department of “Atmospheric Physics” at AWI Potsdam, Germany • 1988 – 1991 Research scientist, German Weather Service, Berlin, Germany
Teaching activities	<ul style="list-style-type: none"> • 2006 – 2016: Co-teaching of “Climate Physics” at the University Potsdam, Institute of Physics
Research and development projects during the past 5 years	<p>BMBF (German Ministry for Education and Research) project on “Quantifying Rapid Climate Change in the Arctic: regional feedbacks and large-scale impacts (QUARCSS)”, PI, 2017-2019</p> <p>DFG (German Research Foundation) Transregional Collaborative Research Centre TR172 on “Arctic amplification: Climate relevant atmospheric and surface processes, and feedback mechanisms (AC)³”, Cluster speaker and PI, 2016-2019</p> <p>Helmholtz Climate Initiative REKLIM “Regional climate change”, Topic Speaker Topic1 “Coupled regional climate models”, 2014-2018</p>
Significant publications during the past 5 years	<p>Total publications ca. 100</p> <p>Matthes, H., A. Rinke, X. Zhou, and K. Dethloff, 2017: Uncertainties in coupled regional Arctic climate simulations associated with the used land surface model, <i>J. Geophys. Res.</i>, doi: 10.1002/2016JD026213</p> <p>Rinke, A., M. Maturilli, R.M. Graham, H. Matthes, D. Handorf, L. Cohen, S.R. Hudson, and J.C. Moore, 2017: Extreme cyclone events in the Arctic: Wintertime variability and trends, <i>Envir. Res. Lett.</i>, doi:10.1088/1748-9326/aa7def</p> <p>Graham, R. M., L. Cohen, A. A. Petty, L. N. Boisvert, A. Rinke, S. R. Hudson, M. Nicolaus, and M. A. Granskog (2017), Increasing frequency and duration of Arctic winter warming events, <i>Geophys. Res. Lett.</i>, 44, 6974–6983, doi:10.1002/2017GL073395.</p> <p>Wendisch, M., M. Brückner, J.P. Burrows, S. Crewell, K. Dethloff, K. Ebell, C. Lüpkes, A. Macke, J. Notholt, J. Quaas, A. Rinke, and I. Tegen, 2017: Understanding causes and effects of rapid warming in the Arctic, <i>EOS</i>, 98, doi:10.1029/2017EO064803.</p> <p>Klaus, D., K. Dethloff, W. Dorn, A. Rinke, and D.L. Wu, 2016: New insight of Arctic cloud parameterization from regional climate model simulations, satellite-based and drifting station data, <i>Geophys. Res. Lett.</i>,</p>

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	<p>doi:10.1002/2015GL067530</p> <p>Wang, W., A. Rinke, et al., 2016: Evaluation of air-soil temperature relationships simulated by land surface models during winter across the permafrost region, <i>The Cryosphere</i>, 10, 1721–1737 doi:10.5194/tc-10-1721-2016</p> <p>Matthes, H., A. Rinke, and K. Dethloff, 2015: Recent changes in Arctic temperature extremes: Warm and cold spells during winter and summer, <i>Env. Res. Lett.</i>, 10, 114020, doi:10.1088/1748-9326/10/11/114020</p> <p>Khon, V. C., I.I. Mokhov, F.A. Pogarskiy, A. Babanin, K. Dethloff, A. Rinke, and H. Matthes, 2014: Wave heights in the 21st century Arctic Ocean simulated with a regional climate model, <i>Geophys. Res. Lett.</i>, 41, 2956–2961, doi:10.1002/2014GL059847.</p> <p>Akperov, M.G., I.I. Mokhov, A. Rinke, K. Dethloff, and H. Matthes, 2014: Cyclones and their possible changes in the Arctic by the end of the 21st century from regional climate model simulations, <i>Theor. Meteorol. Clim.</i>, doi:10.1007/s00704-014-1272-2</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 2017: Member of IASC Atmospheric Working Group • Since 2017: Member of the German National Committee SCAR/IASC • 2013-2015: Member of Working Group on Regional Climate (WGRC) of WCRP • 2014-2017: Contributing author to AACA (Adaptation Actions for a Changing Arctic) • Since 2013: PI of Arctic CORDEX (Coordinated Regional Downscaling Experiment) • 2008-2013: Member of WCRP CliC (Climate and Cryosphere) Scientific Steering Group