## Christopher Philip Riedel

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Education	University of Oklahoma, Norman, OK						
	PhD Meteorology, Expected Completion Date: December 2019						
	• Dissertation Title: Investigation of the impacts of Arctic trop opause-based vortices on downstream predictability using MPAS-DART						
	University of Oklahoma, Norman, OK						
	M.S. Meteorology, May 2015						
	• Thesis Title: Improved Characterization And Prediction Of Antarctic Weather Through Ensemble Data Assimilation And Utilization Of The CONCORDIOSI Data Set						
	University of Oklahoma, Norman, OK						
	B.S. Meteorology with distinction, May 2013						
	Ottawa University, Ottawa, KS						
	B.A. Mathematics, May 2010						
Teaching Experience	University of Oklahoma, Sch	ool of Meteorology					
	Teaching Assistant	METR5002 Fundamentals of At-	Fall 2018				
	Teaching Assistant	METR5002 Fundamentals of At-	Fall 2016				
	Teaching Assistant	METR5002 Fundamentals of At-	Fall 2014				
	Teaching Assistant	mospheric Science METR1313 Programming for	Spring 2014				
	Teaching Assistant	Meteorology METR2011 Intro to Meteorology	Fall 2013				
	Teaching Assistant	I Laboratory METR2021 Intro to Meteorology II Laboratory	Spring 2013				
Publications	<ul> <li>Parsons, D.B., M. Beland, D. Burridge, P. Bougeault, G. Brunet, J. Caughey, S.M. Cavallo, M. Charron, H.C. Davies, A.D. Niang, V. Ducrocq, P. Gauthier, T.M. Hamill, P.A. Harr, S.C. Jones, R.H. Langland, S.J. Majumdar, B.N. Mills, M. Moncrieff, T. Nakazawa, T. Paccagnella, F. Rabier, J. Redelsperger, C. Riedel, R.W. Saunders, M.A. Shapiro, R. Swinbank, I. Szunyogh, C. Thorncroft, A.J. Thorpe, X. Wang, D. Waliser, H. Wernli, and Z. Toth, 2017: THORPEX research and the science of prediction. Bull. Amer. Meteor. Soc., 98, 807–830, doi.org/10.1175/BAMS-D-14-00025.1.</li> <li>Smith, T.M., J. Gao, K.M. Calhoun, D.J. Stensrud, K.L. Manross, K.L. Ortega, C. Fu, D.M. Kingfield, K.L. Elmore, V. Lakshmanan, and C. Riedel, 2014: Examination of a real-time 3DVAR analysis system in the Hazardous Weather Testbed. Wea. Forecasting, 29, 63–77. doi:10.1175/WAF-D-13-00044_1</li> </ul>						
Presentations	Riedel, C. P., Cavallo, S., 2018: MPAS-DART Ensemble Data Assimilation System in Polar Regions, 1st Annual Joint WRF and MPAS Users' Workshop, Boulder, CO,						

National Center for Atmospheric Research, poster.

Riedel, C. P., Cavallo, S., 2017: *The Development of the MPAS-DART Ensemble Data Assimilation System for Polar to Lower-Latitude Predictability Studies*, 18th Cyclone Workshop , Montreal, Canada, Cyclone Workshop, talk.

Riedel, C. P., Cavallo, S., 2017: Sensitivity of TPVs to a downstream forecast bust, 28th Conference on Weather Analysis and Forecasting / 24th Conference on Numerical Weather Prediction, Seattle, WA, American Meteorological Society, poster.

Riedel, C. P., Cavallo, S., 2017: Evaluation of a cycling mesocale ensemble prediction system over the Antarctic region, 14th Conference on Polar Meteorology and Oceanography, Seattle, WA, American Meteorological Society, talk.

Riedel, C. P., Cavallo, S., 2016: Ensemble Data Assimilation in the Antarctic Mesoscale Prediction System (AMPS) over the Southern Hemisphere, 2016 NJU-OU Symposium for Weather and Climate Research, Nanjing, People's Republic of China, Joint symposium between University of Oklahoma and Nanjing University, talk.

Riedel, C. P., Cavallo, S., 2016: Evaluation of the Spread-Skill Relationship on a Busted Forecast using a MPAS Pseudo-Ensemble, 17th Annual WRF Users' Workshop, Boulder, CO, National Center for Atmospheric Research, poster.

Riedel, C. P., Cavallo, S., 2015: Sensitivities in Cyclone Forecasts for the Antarctic Region using an EnKF Method with the AMPS Model, 17th Cyclone Workshop, Pacific Grove, CA, Cyclone Workshop, poster.

Riedel, C. P., Cavallo, S., 2015: Atmospheric Analysis Uncertainties over the Antarctic Region using an EnKF Method with the AMPS Model, International Symposium on Earth-Science Challenges, Norman, OK, Advanced Radar Research Center, talk.

Riedel, C. P., Cavallo, S., 2015: Atmospheric Analysis Uncertainties over the Antarctic Region using an EnKF Method with the AMPS Model, Conference On Weather Analysis And Forecasting/Conference On Numerical Weather Prediction, Chicago, IL, American Meteorological Society, talk.

Riedel, C. P., Cavallo, S., 2014: Ensemble Data Assimilation over Antarctica and the Southern Ocean, The World Weather Open Science Conference, Montreal, CA, World Meteorological Organization, talk.

TECHNICAL SKILLS Proficient: Shell-Scripting, Python, FORTRAN, Matlab, IATEX, CM1 Numerical Model, The Weather Research and Forecasting Model (WRF), Model for Prediction Across Scales (MPAS), EnKF Software provided by The Data Assimilation Research Testbed (DART), high performance computing (NCAR–Cheyenne, OU–Schooner, SOM local cluster–Arctic)

Awards	NCAR ASP Graduate Student Visitors Fellowship	Summer 2018
	Mentor: Jeffery Anderson	
	SOM Scholarship	Fall 2012
	School of Meteorology scholarship for excellent classwork	

Service	EMC NGGPS	Ensemble	Strategic	Implementation	Plan	(SIP)	2017–present
	Working Group						
	SOM Student Recruitment Committee Member				2014–present		