Ethan D. Coffel

Contact Information	E-mail: ec2959@columbia.edu Web: www.ethancoffel.com		
Academic Appointments	Dartmouth College, Hanover, NHFall 2018Neukom Institute Postdoctoral FellowDepartments of Geography and Earth Science		
Education	Columbia University, New York, NY2013 - 201Ph.D Atmospheric ScienceNational Science Foundation Graduate Research Fellowship recipient Advisers: Dr. Radley Horton, Dr. Arlene Fiore, Dr. Richard Seager2013 - 201		
	Columbia University, New York, NY M.A. Atmospheric Science, May 2015		
	Northwestern University, Evanston, IL2009 - 201B.A. with honors, Computer Science, Integrated Science		
Publications: In Progress	8. Coffel, E. D., Keith, B., Lesk, C., Bower, E., Lee, J., Horton, R. M., More frequent concurrent hot and dry years in the Nile basin despite increasing precipitation. In Preparation.		
	7. Coffel, E. D., Mankin, J. S., Winter, J. M., Horton, R. M., Seasonal warming amplification and land-air coupling. In Preparation.		
Published Peer-Reviewed Articles	6. Coffel, E. D., Horton, R. M., de Sherbinin, A., 2017: Temperature and humidity based projections of a rapid rise in global heat stress exposure during the 21st century. Environmental Research Letters.		
	5. Coffel, E. D., Thompson, T. R., Horton, R. M., 2017: The impact of rising temperatures of aircraft takeoff performance. Climatic Change Letters.		
	4. Lesk, C., Coffel, E. D. , D'Amato, T., Dodds, K., Horton, R. M., 2017: Significant threat to North American forests from Southern Pine Beetle with warming winters. Nature Climate Change.		
	3. Horton, R. M., Mankin, J. S., Lesk, C., Coffel, E. D. , Raymond, C., 2016: A Review of Recent Advances in Research on Extreme Heat Events. Current Climate Change Reports.		
	2. Horton, R. M., Coffel, E. D. , Winter, J. M., Bader, D. A., 2015: <i>Projected changes in extreme temperature events based on the NARCCAP model suite</i> . Geophysical Research Letters.		
	1. Coffel, E. D., Horton, R. M., 2015: Climate change and the impact of extreme temperatures on aviation. AMS Weather, Climate, and Society.		
Published Book Chapters	1. Coffel, E. D., Sherbinin, A. de, Horton, R. M., Lane, K., Kienberger, S., Wilhelmi, O., 2018 "The Science of Adaptation to Extreme Heat". <i>Resilience: The Science of Adaptation to Climat</i> <i>Change.</i> Eds. Frank, T., Zommers, Z. Elsevier.		
Honors & Funding	Dartmouth College Neukom Institute Postdoctoral Fellowship, 2018 – 2020. NASA NPP Postdoctoral Fellowship (<i>declined</i>). National Science Foundation Graduate Research Fellowship, 2015 – 2018, \$138,000.		

	NSF Funding for the AMS Summer Policy Colloquium, 2016, \$5,000. Lamont Climate Center Grant, 2015, \$3,140. Columbia Graduate Student Travel Grant, 2015, \$250. Northeast Climate Science Center Fellow, 2013 – 2018. NOAA Hollings Scholarship, 2011 – 2013, \$24,000. NASA Reduced Gravity Student Flight Opportunities Program, 2010 – 2011.
Oral Presentations	Coffel, E. D., Mankin, J. S., Winter, J. M, Horton, R. M. Seasonal warming amplification and land-air coupling. AGU Fall Meeting, New Orleans, LA, 2017.
	Coffel, E. D., Thompson, T. R., Horton, R. M. Climate change and aircraft weight restriction. AGU Fall Meeting, New Orleans, LA, 2017.
	Coffel, E. D. (invited) , Sherbinin, A. de, Horton, R. M., Lane, K., Kienberger, S., Wilhelmi, O. The Science of Adaptation to Extreme Heat. IAPSO-IAMAS-IAGA Assembly, Cape Town, South Africa, 2017.
	Coffel, E. D., Thompson, T. R., Horton, R. M. Climate change and aircraft weight restriction. AMS Annual Meeting, New Orleans, LA, 2016.
	Coffel, E. D., Horton, R. M., de Sherbinin, A. M. Rapid rise in heat stress exposure during the 21st century. AGU Fall Meeting, San Francisco, CA, 2015.
	Coffel, E. D., Horton, R. M. Climate change and the impact of extreme temperatures on aviation. ICNS 2015, Washington, DC, 2015.
	Coffel, E. D., Horton, R. M. Climate change and the impact of extreme temperatures on aviation. AMS Annual Meeting, Phoenix, AZ, 2015.
	Coffel, E. D., Horton, R. M. Climate change and the impact of extreme temperatures on aviation. AGU Fall Meeting, San Francisco, CA, 2014.
Poster Presentations	Coffel, E. D., Mankin, J. S., Winter, J. M, Horton, R. M. Seasonal warming amplification and land-air coupling. AMS Annual Meeting, Austin, TX, 2018.
	Coffel, E. D., Thompson, T. R., Horton, R. M. Climate change and aircraft weight restriction. AMS Annual Meeting, Austin, TX, 2018.
	Coffel, E. D., Thompson, T. R., Horton, R. M. Climate change and aircraft weight restriction. AMS Annual Meeting, Seattle, WA, 2017.
	Coffel, E. D., Horton, R. M. Geographic extent of future heat waves. AGU Fall Meeting, San Francisco, CA, 2016.
	Coffel, E. D., Horton, R. M., de Sherbinin, A. M. Rapid rise in heat stress exposure during the 21st century. Graduate Climate Conference, Woods Hole, MA, 2015.
	Morelli T. L, Palmer R., Coffel E. D. . Regional collaborations to combat climate change: the climate science centers as strategies for climate adaptation. AGU Fall Meeting, San Francisco, CA, 2014.
	Coffel, E. D., Horton, R. M. Climate change and the impact of extreme temperatures on aviation. Columbia First Year Symposium, New York, NY, 2014.

	Coffel, E. D. . Tornado Detection with Machine Learning. Northwestern Undergraduate Research Symposium, Evanston, IL, 2013.			
	Coffel, E. D Development and Performance Analysis of a Cyclone Tracker for use in Sea Hurricane Prediction. NOAA Hollings Scholarship Program Conference, Silver Spring, MD, 2			
Conferences & Workshops	 AMS Summer Policy Colloquium. Washington, DC, Jun. 2016. University of Graz "Climate change thresholds" workshop. Graz, Austria, Feb. 2016. Northwest Climate Science Center "Climate boot camp." Oregon, Aug. 2014. South Central Climate Science Center "Communicating climate change" workshop. Dallas, TX, Feb. 2014. 			
TEACHING				
	Teaching Assistant. Regional Climate and Climate Impacts. Teaching Assistant. Introduction to Sustainable Development. Teaching Assistant. Dynamics of climate variability and climate change.	Spring 2017 Fall 2016 Fall 2014 - 2015		
	Northwestern University, Evanston, IL			
		t. 2012 – March 2013 t. 2010 – March 2012		
Communication	COMMUNICATION Media: Coverage in over 500 news outlets including The New York Times, The Wash The Guardian, NPR, Science, National Geographic, and Scientific American.			
	Blogger. Northwestern Science in Society.	June 2012 – 2015		
GENERAL	3. Coffel, E. D., 2017. Climate change and infrastructure impacts. Early Career Climate Forum.			
PUBLICATIONS	2. Coffel, E. D., Horton, R. M, 2017. <i>How hot weather and climate change affect airline flights.</i> The Conversation.			
	1. Coffel, E. D., 2016. Climate science in the Trump years. Early Career Climate Forum.			
Service	Journal referee: Environmental Research Letters, Climatic Change, Journal of Applied Meteo ogy and Climatology, International Journal of Climatology, and Journal of Air Transport Mana ment.			
	Conference session organizer: Climate change impacts on transportation. AGU Fall Meeting, 2016.			
TECHNICAL SKILLS	Python, Matlab, C/C++, Java, C#, HTML/CSS, IATEX, Unix/Linux, machine learning			
Professional Societies	American Meteorological Society American Geophysical Union	$egin{array}{llllllllllllllllllllllllllllllllllll$		