

Edward “Ned” K. Vizy

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EDUCATION

Cornell University, Ithaca, NY

Ph.D. in Atmospheric Sciences, 2003

M.S. in Atmospheric Sciences, 1999

State University of New York at Oswego, Oswego, NY

B.S. in Meteorology, minor in Mathematics, 1995

APPOINTMENTS

Research Engineering/Scientist Associate V **9/2008 – present**

Jackson School of Geosciences

University of Texas, Austin, Texas

Collaborative Research Scientist **6/2010 – 6/2013**

The Robert S. Strauss Center for International Security and Law

University of Texas, Austin, Texas

- Collaborative part-time work in the Strauss Center’s Climate Change and African Political Stability (CCAPS) program
- Design and conduct regional climate model simulations of climate change over Africa in consultation with other members of the CCAPS team.
- Assist in the analysis of model output, including the development of diagnostic tools.
- Assist the CCAPS team in obtaining and evaluating output from other atmospheric models.

Research Associate **7/2005 – 9/2008**

Dept. of Earth and Atmospheric Sciences

Cornell University, Ithaca, NY

- Work closely with group to adapt WRF for regional applications over South America and Africa.
- Assist in development of a coupled potential vegetation/ mixed layer ocean model version of MM5 and WRF.
- Devise and test strategies to initialize initial and lateral boundary conditions for paleoclimate and future climate applications.

- Instruct undergraduate and graduate students in how to use the regional model for research efforts.
- Assist in external grant writing process.
- Manage the in-house computer cluster and observational database.
- Undergraduate teaching responsibilities include *Atmospheric Modeling for Research* and *Synoptic II Meteorology*.

Post Doctoral Associate

5/2003 – 7/2005

Dept. of Earth and Atmospheric Sciences
Cornell University, Ithaca, NY

- Work closely with the modeling group to adapt MM5 for use in regional climate modeling applications.
- Responsible for training undergraduate and graduate students in using MM5.
- Manage in-house computer cluster and observational database.
- Assist in external grant writing.

Weather Assistant

1/1995 – 6/1996

ABC affiliate WSYR TV 9
Syracuse, NY

- Prepared short term and extended weather forecasts for broadcast.
- Assisted in the production of on-air forecast graphics.

Research Assistant

1/1994 – 5/1996

Department of Earth Sciences
State University of New York at Oswego, Oswego, NY

- Assisted with the collection and preparation of observational data as part of the Great Lakes Winter Storm Project using MM5
- Prepared figures of analysis of MM5 results.

ACTIVE GRANTS

NASA Grant Award # NNX13AQ76G: Influence of the equatorial Atlantic cold tongue and Angola current on Atlantic basin climate variability. **Lead P.I. E. K. Vizy**, Co-P.I. K.H. Cook; Organization University of Texas at Austin; Award date: 9/01/2013; Award Amount \$492,585.

NSF Grant Award #1444505: Role of mesoscale convective systems in determining the diurnal cycle of precipitation over sub-Saharan Northern Africa. **Lead P.I. E. K. Vizy**, Co-P.I. K.H. Cook; Organization University of Texas at Austin; Award date: 1/15/2015; Award Amount \$597,379.

NSF Grant Award #1356386: Regional climate resilience and sensitivity in the tropics and subtropics; Lead P.I. K.H. Cook, **Co-P.I. E. K. Vizy**; Organization University of Texas at Austin; Award date: 4/01/2014; Award Amount \$709,113.

NSF Grant Award #1036604: African Monsoon Systems: Basic dynamics and applications to interannual and decadal prediction; Lead P.I. K.H. Cook, **Co-P.I. E. K. Vizy**; Organization University of Texas at Austin; Award date: 2/15/2011; Award Amount \$457,282.

PAST GRANTS

USAID Climate Change Resilient Development Award #13-754-UTA: Climate forecasting, adaptation backcasting: Promoting resilient adaptation in Malawi; Lead P.I. B. McCusker, Co-P.I. K.H. Cook, **Co-P.I. E.K. Vizy**, Co-P.I. J. Chimphamba; Award date: Award date: 7/1/2013; Award Amount \$35,670.

NSF Behavioral and Cognitive Sciences Award #1060403 : Collaborative research: Forecasting, adaptation backcasting: Coupling human response to climate change in Malawi; Lead P.I. B. McCusker, Co-P.I. K.H. Cook, **Co-P.I. E.K. Vizy** Organization University of Texas at Austin; Award date: 7/11/2011; Award Amount \$43,353.

DOE Grant Award #DE-FG02-10ER65092: Changes in intense precipitation events in West Africa and the Central U.S. under global warming; Lead P.I. K. H. Cook, **Co-P.I. E. K. Vizy**; Organization University of Texas at Austin; Award date: 9/01/2010; Award Amount \$462,550.

DOE Grant Award #DE-FG02-08ER64610: Influence of Atlantic SST thresholds on continental climate: Development and application of a coupled atmosphere/ocean/vegetation regional climate model; Lead P.I. K. H. Cook, **Co-P.I. E. K. Vizy**; Organization University of Texas at Austin; Award date: 8/01/2008; Award Amount \$498,617.

NSF Grant Award #0739965: SGER: Hydrodynamics of the Caribbean low-level jet and its relationship to drought; Lead P.I. K. H. Cook, **Co-P.I. E. K. Vizy**; Organization Cornell University; Award date: 10/01/2007; Award Amount \$29,587.

NASA Grant Award #05-NAMMA06-0034: Using AMMA and satellite observations to improve the simulation of tropical Atlantic cyclogenesis; Lead P.I. K. H. Cook, **Co-P.I. E. K. Vizy**; Organization Cornell University; Award date: 10/01/2007; Award Amount \$106,269.

NASA Grant Award # NNG05GR52G: Collaborative research: The influence of the Amazon and Orinoco River plumes on tropical Atlantic climate; Lead P.I. K. H. Cook, **Co-P.I. E. K. Vizy**, Co-P.I. P. A. Baker, Co-P.I. Chuanmin Hu; Organization Cornell University; Award date: 10/01/2005; Award Amount \$599,000.

FELLOWSHIPS AND AWARDS

- Marshall Space Flight Center NASA Graduate Student Research Program Fellowship, MSFC, Huntsville, AL (2001-2002)
- Outstanding Senior in Meteorology Award, State University of New York at Oswego, Oswego NY (1995)
- Foster S. Brown Scholar Award, State University of New York at Oswego, Oswego NY (1994)
- Distinguished Sophomore Award, State University of New York at Oswego, Oswego NY (1993)

STUDENTS SUPERVISED

Gang Zhang	Ph.D. committee member	August 2015
Caroline Binkley	M.S. committee member	current student

TEACHING

- GEO 347G/387G, "Climate System Modeling", Dept. of Geological Sciences, University of Texas at Austin, spring semester 2009, fall semesters 2011- 2013.
- GEO 391, "Dynamics of Atmospheres and Oceans", Dept. of Geological Sciences, University of Texas at Austin, spring semester 2010.

PROFESSIONAL SERVICE

Member US CLIVAR AMOC Science Team – Task Team 4: Climate Sensitivity to AMOC: Climate/Ecosystem Impacts, November 2014 – present.

Regular manuscript reviewer for peer-reviewed journals including Journal of Geophysical Research, Nature Geosciences, International Journal of Climatology, Climate Dynamics, Journal of Climate, and Bulletin of Atmospheric Meteorological Society, 2003 – present.

Regular reviewer for proposals submitted to the National Science Foundation and National Environment Research Council, 2013 – present.

Member of the West African Monsoon Modeling and Evaluation (WAMME) project. 2006 – 2009.

OUTREACH INVOLVEMENT

Active media point of contact for the University of Texas at Austin for addressing current extreme weather related questions. Over the past 4+ years I have conducted phone interviews on topics ranging from the May 2013 Moore Oklahoma tornado outbreak, the winter 2014 polar vortex outbreak, and the spring 2015 Texas rains.

PEER REVIEWED PUBLICATIONS

Submitted

- Cook, K.H., and E.K. Vizy, 2015: The Congo Basin Walker circulation. *Submitted Clim. Dyn.*
- Thiaw, W. M., S. Janicot, E. Bekele, K.H. Cook, B. Fontaine, A. Mekonnen, O. Ndiaye, P.-H. K. Tamo, and E. K. Vizy, 2015: AMMA forecaster's handbook: Chapter 7: Subseasonal forecasting. *Submitted for review.*
- Zhang, G., K. H. Cook, and E. K. Vizy, 2015: The diurnal cycle of warm season rainfall over West Africa: Observations and high-resolution simulation. *Submitted J. Geophys. Res.*

Published

2015

- Cook, K.H., and E. K. Vizy, 2015: Detection and analysis of an amplified warming of the Sahara Desert. *J. Climate*, doi:10.1175/JCLI-D-14-00230.1.
- Crétat, J., E. K. Vizy, and K. H. Cook, 2015: The relationship between African easterly waves and daily rainfall over West Africa. Observations and regional climate simulations. *Clim. Dyn.*, 44, 385-404. doi:10.1007/s00382-014-2120-x.
- Rodrigues-Fonseca, B., E. Mohino, C.R. Mechoso, C. Caminade, M. Biasutti, M. Gaetani, J. García-Serrano, E. K. Vizy, K. Cook, Y. Xue, I. Polo, T. Losada, L. Druyan, B. Fontaine, J. Bader, Francisco J. Doblas-Reyes, L. Goddard, S. Janicot, A. Arribas, W. Lau, A. Colman, M. Vellinga, D. P. Rowell, F. Kucharski, and A. Voldoire, 2015: Variability and Predictability of West African Droughts. A review in the role of Sea Surface Temperature Anomalies. *J. Climate*, 28, 4034-4060. doi:10.1175/JCLI-D-14-00130.1.
- Vizy, E.K., and K.H. Cook, 2015: Understanding long-term (1982-2013) multi-decadal change in equatorial and subtropical South Atlantic climate. *Clim. Dyn.* doi:10.1007/s00382-015-2691-1.
- Vizy, E.K., K.H. Cook, J. Chimphamba, and B. McCusker, 2015: Projected changes in Malawi's growing season. *Clim. Dyn.* doi:10.1007/s00382-014-2424-x.

2014

- Busby, J.W., K.H. Cook, E.K. Vizy, T.G. Smith, and M. Bekalo, 2014: Identifying hot spots of security vulnerability associated with climate change in Africa. *Climatic Change*, 124, 717-731. doi:10.1007/s10584-014-1142-z.
- Crétat, J., E. K. Vizy, and K. H. Cook, 2014: How well are daily intense rainfall events captured by current climate models over Africa? *Clim. Dyn.*, 42, 2691-2711. doi:10.1007/s/00382-013-1796-7.
- Vizy, E. K., and K. H. Cook, 2014: Impact of cold air surges on rainfall variability in the Sahel and wet African tropics: A multi-scale analysis. *Clim. Dyn.*, 43, 1057-1081. doi:10.1007/s00382-013-1953-z.
- Vizy, E. K., and K. H. Cook, 2014: Capturing the Atlantic cold tongue and coastal upwelling in an intermediate-level ocean model coupled to a regional climate model. *Clim. Dyn.*, 42, 345-366. doi:10.1007/s00382-013-1807-8.

2013

- Cook, K. H., and E. K. Vizzy, 2013: Projected changes in East African rainy seasons. *J. Climate*, 26, 5931-5948. doi:10.1175/JCLI-D-12-00455.1.
- Vizy, E. K., K. H. Cook, J. Crétat, and N. Neupane, 2013: Projections of a wetter Sahel in the 21st century from global and regional models. *J. Climate*, 26, 4664-4687.

2012

- Cook, K. H., and E. K. Vizzy, 2012: Impact of climate change on mid-21st century growing seasons in Africa. *Clim. Dyn.*, 39, 2937-2955.
- Pu, B., E. K. Vizzy, and K. H. Cook, 2012: Warm season response over North America to a shutdown of the Atlantic meridional overturning circulation and CO₂ increases. *J. Clim.*, 25, 6701-6720.
- Vizy, E. K., and K. H. Cook, 2012: Mid-21st century changes in extreme events over northern and tropical Africa. *J. Clim.*, 25, 5748-5767.

Pre 2012

- Cook, K. H., and E. K. Vizzy, 2010: Hydrodynamics of the Caribbean low-level jet and its relationship to precipitation. *J. Climate*, 23, 1477-1494.
- Druyan, L., J. Feng, K. H. Cook, Y. Xue, M. Fulakeza, S. M. Hagos, A. Konare, W. Moufouma-Okia, D. P. Rowell, and E. K. Vizzy, 2010: The WAMME regional model intercomparison study. *Clim. Dyn.*, 35, 175-192. DOI 10.1007/s00382-009-0676-7.
- Vizy, E. K., and K. H. Cook, 2010: Influence of Amazon/Orinoco plume on the summertime Atlantic climate, *J. Geophys. Res.*, 115, D21112, doi:10.1029/2010JD014049.
- Vizy, E. K., and K. H. Cook, 2009: Tropical storm development from African easterly waves in the eastern Atlantic: A comparison of two successive waves using a regional model as part of NASA AMMA 2006. *J. Atmos. Sci.*, 66, 3313-3334.
- Vizy, E. K., and K. H. Cook, 2009: A mechanism for African monsoon breaks: Mediterranean cold air surges. *J. Geophys. Res.*, 114, D01104, doi:10.1029/2008JD010654.
- Cook, K. H., and E. K. Vizzy, 2008: Influence of the Amazon/Orinoco plume on Atlantic hurricanes. *Bull. Amer. Meteorol. Soc.*, 89, 1645-1646.
- Cook, K. H., E. K. Vizzy, Z. S. Launer, and C. M. Patricola, 2008: Springtime intensification of the Great Plains low-level jet in coupled GCM simulations of the 21st century. *J. Climate*, 21, 6321-6340.
- Cook, K. H., and E. K. Vizzy, 2008: Effects of 21st century climate change on the Amazon rainforest. *J. Climate*, 21, 542-560.
- Vizy, E. K., and K. H. Cook, 2007: Relationship between Amazon and High Andes Rainfall. *J. Geophys. Res. – Atmos.*, 112 (D7107), doi:10.1029/2006JD007980, 2007.
- Cook, K. H., and E. K. Vizzy, 2006: South American climate during the Last Glacial Maximum: Delayed onset of the South American monsoon. *J. Geophys. Res.*, 111 (D2), 2110, doi:10.1029/2005JD005980, 2006.

- Cook, K. H., and E. K. Vizy, 2006: Coupled model simulations of the West African monsoon system: 20th century simulations and 21st century predictions. *J. Climate*, 19, 3681-3703.
- Vizy, E. K., and K. H. Cook, 2005: Evaluation of Last Glacial Maximum sea surface temperature reconstructions through their influence on South American climate, *J. Geophys. Res.*, 110, D11105, doi:10.1029/2004JD005415.
- Vizy, E. K., and K. H. Cook, 2003: Connections between the summer East African and Indian rainfall regimes. *J. Geophys. Res.*, 108 (D16), 4510, doi:10.1029/2003JD003452, 2003.
- Vizy, E. K., and K. H. Cook, 2002: Development and application of a mesoscale climate model for the tropics: Influence of sea surface temperature anomalies on the West African monsoon, *J. Geophys. Res.- Atmos.*, 107 (D3), 10.1029/2001JD000686, 2002.
- Vizy, E. K., and K. H. Cook, 2001: Mechanisms by which Gulf of Guinea and Eastern North Atlantic sea surface temperatures can influence African rainfall. *J. Climate*, 14, 795-821.

CONFERENCE PRESENTATIONS

2015

- Vizy, E. K.**, and K. H. Cook, 2015: Understanding the long-term 1982-2013 multi-decadal change in the South Atlantic climate. AGU Chapman Conference: The width of the Tropics: Climate variations and their impacts, 27 – 31 July, Santa Fe, NM.
- Vizy, E. K.**, and K.H. Cook, 2015: Understanding decadal variations in the Southeastern Atlantic climate. 95nd American Meteorological Society's Annual Meeting, 4-8 January, Phoenix, AZ.
- Vizy, E. K.**, and K.H. Cook, 2015: The future of Malawi's Growing Season. 95nd American Meteorological Society's Annual Meeting, 4-8 January, Phoenix, AZ.

2014

- Vizy, E. K.**, and K.H. Cook, 2014: Influence of mid-latitude cold air surges on rainfall variability in the Sahel and tropical Africa. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April, San Diego, CA.
- Cook, K.H., and **E.K. Vizy**, 2014: Intensification of the Saharan heat low: Observations, attribution, and implications for Sahel rainfall. 31st Conference on Hurricanes and Tropical Meteorology, 31 March – 4 April, San Diego, CA.

2013

- Cook, K.H., and **E.K. Vizy**, 2013: Impact of climate change on mid 21st century growing season in Africa. 93nd American Meteorological Society's Annual Meeting, 6-10 January, Austin, TX.
- Crétat, J., K. H. Cook, and **E. K. Vizy**, 2013: How well is the physics of intense rainfall events in the Sahel captured by a regional climate model? 93nd American Meteorological Society's Annual Meeting, 6-10 January, Austin, TX.

Vizy, E. K., and K.H. Cook, 2013: Projections of a wetter Sahel in the 21st century from global and regional models. 93nd American Meteorological Society's Annual Meeting, 6-10 January, Austin, TX.

Vizy, E. K., and K.H. Cook, 2013: Capturing the Atlantic cold tongue and coastal upwelling in a coupled atmosphere/ocean regional model. 93nd American Meteorological Society's Annual Meeting, 6-10 January, Austin, TX.

2012

Cook, K. H., and **E. K. Vizy**, 2012: East African climate prediction: shorter long rains and longer short rains. 30th Conference on Hurricanes and Tropical Meteorology, 15-22 April, Ponte Vedra, FL.

Cook, K. H., **E. K. Vizy**, J. Crétat, and N. Neupane, 2012: 21st century climate prediction for West Africa and the Sahel. 4th African Monsoon Multidisciplinary Analyses International Conference, 2 – 6 July 2012, Toulouse, France.

Crétat, J., K. H. Cook, and **E. K. Vizy**, 2012: How well are extreme rainfall events captured by a regional climate model over West Africa. 4th African Monsoon Multidisciplinary Analyses International Conference, 2 – 6 July 2012, Toulouse, France.

Vizy, E. K., and K. H. Cook, 2012: Impact of Climate Change on mid-21st century growing seasons in Africa. 92nd American Meteorological Society's Annual Meeting, 22-26 January, New Orleans, LA.

Vizy, E. K., and K. H. Cook, 2012: Mid-21st century changes in extreme events over northern and tropical Africa. 30th Conference on Hurricanes and Tropical Meteorology, 15-22 April, Ponte Vedra, FL.

Pre 2012

Brown, M. G. L., **E. K. Vizy** and K. H. Cook 2011: Combined effects of global warming and an AMOC shutdown on West African and European climate. 91st American Meteorological Society's Annual Meeting, 23-27 January, Seattle, WA.

Brown, M. G. L., **E. K. Vizy** and K. H. Cook 2011: Combined effects of global warming and a shutdown of the Atlantic meridional overturning circulation on West African and European climate. American Geological Society's Fall Meeting, 5-9 December, San Francisco, CA.

Neupane, N., **E. K. Vizy**, and K. H. Cook 2011: The potential for an abrupt failure of the West African monsoon as climate warms. AMS 25th Conference on Hydrology, 23-27 January, Seattle, WA.

Pu, B., M. G. L. Brown, **E. K. Vizy**, and K. H. Cook, 2011: Warm season climate responses over North America, Europe, and Africa to an AMOC shutdown under global warming. U.S. Department of Energy P.I. meeting, 19-22 September 2011, Washington D.C.

Cook, K. H., and **E. K. Vizy**, 2010: Influence of Atlantic SST thresholds on continental climates. U.S. DOE Climate Change Prediction Program Meeting, 30 March – 1 April 2010, Gatesville, MD.

Neupane, N., **E. K. Vizy**, and K. H. Cook, 2010: Abrupt climate change in the West African monsoon system in response to Atlantic warming. In Proceedings of the

- U.S. DOE Climate Change Prediction Program Meeting, 30 March – 1 April 2010, Gatesville, MD.
- Neupane, N., **E. K. Vizy**, and K. H. Cook 2010: The potential for an abrupt failure of the West African monsoon as climate warms. AMS 29th Conference on Hurricanes and Tropical Meteorology, 10-14 May, Tucson, AZ.
- Vizy, E. K.**, and K. H. Cook, 2009: Mediterranean cold air surges: A mechanism for Northern African rainfall variability and monsoon breaks. In Proceedings of the African Monsoon Multidisciplinary Analyses 3rd International Conference, 20 – 24 July 2009, Ouagadougou, Burkina Faso.
- L. M. Druyan, J. Feng, K. H. Cook, Y. Xue, M. Fulakeza, S. M. Hagos, A. Konare, W. Moufouma-Okia, D. P. Rowell, and **E. K. Vizy**, 2009: Four climate models simulate the West African monsoon: a WAMME initiative. In Proceedings of the African Monsoon Multidisciplinary Analyses 3rd International Conference, 20 – 24 July 2009, Ouagadougou, Burkina Faso.
- Vizy, E.K.**, and K. C. Cook, 2009: Influence of Atlantic SST thresholds on continental climates: Development and application of a coupled atmosphere/ocean/vegetation regional climate model system. In Proceedings of the U.S. DOE Climate Change Prediction Program Meeting, 7-9 April 2009, Bethesda, MD.
- Cook, K. H., C. M. Patricola, and **E. K. Vizy**, 2008: Use of a coupled atmosphere/vegetation regional climate model for studying abrupt climate change: Green Sahara, brown Amazon, and atmospheric jet dynamics. In Proceedings of the 2008 American Geophysical Union fall meeting, 15 - 19 December, San Francisco, CA.
- Cook, K. H., and **E. K. Vizy**, 2008: Hydrodynamics of the Caribbean low-level jet and its relationship to drought. In Proceedings of NOAA's 33rd Climate Diagnostic and Prediction workshop, 20 - 24 October, Lincoln, NE.
- Vizy, E. K.**, and K. H. Cook, 2008: Monsoon breaks over Northern Africa: Role of cold air surges. In Proceedings of the 88th American Meteorological Society's Annual Meeting, 20 -24 January, New Orleans, LA.
- Vizy, E. K.**, and K. H. Cook, 2008: Debby vs. Ernesto: Tropical cyclogenesis in the Eastern Atlantic. In Proceedings of the 88th American Meteorological Society's Annual Meeting, 20 -24 January, New Orleans, LA.
- Cook, K. H., and **E. K. Vizy**, 2008: Influence of the Amazon/Orinoco plume on Atlantic Hurricanes. In Proceedings of the 88th American Meteorological Society's Annual Meeting, 20 -24 January, New Orleans, LA.
- Vizy, E. K.**, K. H. Cook, S. Hagos, C. M. Patricola, and E. Riddle, 2008: Designing regional model simulations of the West African monsoon: Lessons learned. In Proceedings of the 1st WAMME workshop, 20 January, New Orleans, LA.
- Vizy, E. K.**, and K. H. Cook, 2006: Relationship between Amazon and High Andes rainfall. In Proceedings of the 27th Conference on Hurricanes and Tropical Meteorology, 24 - 28 April, Monterey, CA.
- Vizy, E. K.**, and K. H. Cook, 2005: Coupled Model Simulations of the West African Monsoon System: 21st Century Predictions., Proceedings of the Second Northeast Tropical Workshop, 7-9 June, Rensselaerville, NY.

- Vizy, E. K.**, and K. H. Cook, 2005: Future trends in West African precipitation., Proceedings of the Workshop on Analyses of Climate Model Simulations for the IPCC AR4, 1-4 March, Honolulu, Hawaii.
- Cook, K. H., and **E. K. Vizy**, 2005: Sensitivity of the West African monsoon to Gulf of Guinea SSTs., Proceedings of the Workshop on Analyses of Climate Model Simulations for the IPCC AR4, 1-4 March, Honolulu, Hawaii.
- Cook, K. H., and **E. K. Vizy**, 2004: Delayed onset of the South American monsoon during the Last Glacial Maximum., Proceedings from the AGU fall meeting, 13-17 December, San Francisco, California.
- Vizy, E. K.**, and K. H. Cook, 2004: South American rainfall during the Last Glacial Maximum: A regional modeling study., Proceedings of the 1st International CLIVAR Science Conference, Baltimore, MD.
- Patricola, C. M., **E. K. Vizy**, and K. H. Cook, 2004: Easterly waves in the tropical Atlantic: Climatology and variability., Proceedings of the 1st International CLIVAR Science Conference, Baltimore, MD.
- Cook, K. H., and **E. K. Vizy**, 2003: Mechanisms by which sea surface temperature anomalies perturb the West African monsoon system., Proceedings of the XXIII General Assembly of the International Union of Geodesy and Geophysics, Sapporo, Japan.
- Neary, N. J., **E. K. Vizy**, N. G. Saltzman, and K. H. Cook 2003: Regional paleoclimate modeling of the Last Glacial Maximum over South America. Proceedings of the XVI International Union for Quaternary Research Congress, Reno, NV.
- Neary, N. J., **E. K. Vizy**, N. G. Saltzman, and K. H. Cook 2003: Development of a mesoscale model for paleoclimate studies of the tropics. Proceedings of the XVI International Union for Quaternary Research Congress, Reno, NV.
- Neary, N. J., **E. K. Vizy**, and K. H. Cook 2003: Mesoscale modeling of the African Humid Period. Proceedings of the XVI International Union for Quaternary Research Congress, Reno, NV.
- Vizy, E. K.**, 2002: Connections between the East African and Indian rainfall regimes., In Proceedings of the 25th Conference on Hurricanes and Tropical Meteorology, San Diego, CA., 29 April - 3 May 2002, AMS, 273-274.
- Vizy, E. K.**, B. N. Belcher, and K. H. Cook, 2002: A mesoscale climate model for the tropics. Proceedings of the 25th Conference on Hurricanes and Tropical Meteorology, San Diego, CA.
- Vizy, E. K.**, and K. H. Cook, 2001: Atmospheric hydrodynamics of the response of the West African monsoon to SST anomalies. Proceedings of the 8th Scientific Assembly of the International Association of Meteorology and Atmospheric Sciences, Innsbruck, Austria.
- Vizy, E. K.**, and K. H. Cook, 2001: Development of the MM5 for climate modeling over Africa. Proceedings of the 11th PSU/NCAR Mesoscale Model Users' Workshop, Boulder, CO.
- Vizy, E. K.**, and K. H. Cook, 2000: Sensitivity of the West African Monsoon to Atlantic SST anomalies. Proceedings of the 24th Conference on Hurricanes and Tropical Meteorology, Fort Lauderdale, FL., 366-367.
- Vizy, E. K.**, and K. H. Cook, 2000: The influence of SST anomalies on West African precipitation in a mesoscale and a global climate model. Proceedings of the

Workshop on modeling the West African climate system with global and regional scale climate models: Relevance to understanding climate variability, land-use, and climate change, Washington, DC.

- Belcher, B. N., **E. K. Vizy**, and K. H. Cook, 2000: Development of MM5 for use as a tropical climate model. Proceedings of the 10th PSU/NCAR Mesoscale Model Users' Workshop, Boulder, CO., 159-161.
- Cook, K. H., and **E. K. Vizy**, 1999: Influence of regional SST anomalies on West African precipitation. Proceedings of the 24th Annual Climate Diagnostics and Prediction Workshop, Tucson, AZ., 201-204.
- Cook, K. H., and **E. K. Vizy**, 1999: Mechanisms connecting the West African monsoon with Gulf of Guinea SSTs. Proceedings of the International Workshop on West African Monsoon Variability and Predictability, Dakar, Senegal.
- Vizy, E. K.**, and K. H. Cook, 1998: Mechanisms by which SST anomalies can influence West African rainfall. Proceedings of the 23rd Annual Climate Diagnostics and Prediction Workshop, Miami, FL., 297-300.
- Ballentine, R., G. Byrd, **E. Vizy**, and D. Schleede, 1996: Mesoscale model simulation of a lake effect snowstorm: Implications for operational forecasting. Preprints, Joint Session of 15th Conference on Weather Analysis and Forecasting and 11th Conference on Numerical Weather Prediction, Norfolk, VA.
- Byrd, G. R., R. Ballentine, **E. Vizy**, and D. Schleede, 1996: Simulation of the 4-5 January 1995 central New York lake-effect snowstorm using the Penn State/NCAR mesoscale model (MM5). Preprints, 7th Conference on Mesoscale Processes, Amer. Meteor. Soc., Reading, U.K.
- Ballentine, R. J., L. Keshishian, E. Chermack, A. Stamm, **N. Vizy**, G. P. Byrd, and J. Hall, 1995: Observational and modeling studies of two intense lake-effect snowstorms. Proceedings of the 4th US/Canada Workshop on Great Lakes Operational Meteorology, Syracuse, NY.