

Work  
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## SCOTT CURTIS

(Walter Robert Scott Curtis III)

### FACULTY APPOINTMENT

East Carolina University (ECU)

**Associate Professor in the Department of Geography** FA 09 – present  
**Assistant Director for the Center for Natural Hazards Research** SP 06 – present  
**Member, Coastal Resources Management Ph.D. Steering Committee** SP 08 – present  
**ECU Ambassador to Universiti Malaysia Terengganu, Malaysia** SP 08 – present  
**Affiliated Faculty of the Center for Sustainable Tourism** SP 08 – present  
**Assistant Professor in the Department of Geography** FA 03 – SU 09

- RESEARCH: Tropical climate variability with emphasis on precipitation and ENSO. Climatology of Atlantic coastal storms, and applications of GIS in climatology.
- TEACHING:  
GEOG 1250: **The Water Planet** 6 semesters  
GEOG 2200/1300: **Weather and Climate** 4 semesters  
GEOG 3510: **Physical Meteorology (new course)** 4 semesters  
GEOG 3520: **Dynamic Meteorology** SP 06  
GEOG 4540/6540: **(Advanced) Coastal Storms (new course)** FA 05, 07, SP 09  
HNRS 2316: **Global Warming and Climate Change** SP 07  
Independent studies: **"The 2004 NC Hurricane Season", "Perceptions of ENSO", "Analysis of Forecast Models"**

University of Maryland, Baltimore County (UMBC)

**Affiliate Assistant Professor in the Department of Geography and Environmental Systems** SP 02 – SU 03  
**Associate Member of the UMBC Graduate Faculty** SU 02 – SU 03  
**Research Assistant Professor in the Joint Center for Earth Systems Technology (JCET)** SP 02 – SU 03  
**Assistant Research Scientist in JCET** SP 00 – SP 02  
**Research Associate in JCET** SP 98 – SP 00

- TEACHING:  
GEOG 415: **Climate Change** SP 01, 03  
Independent Study: **"El Niño vs. La Niña in Florida"**

### EDUCATION

University of Wisconsin—Madison **Ph.D.**

Thesis: *Circulation Mechanisms of Climatic Variability in the Tropics*; Advisor: Stefan Hastenrath

Major: **Atmospheric & Oceanic Sciences**, Minor: **Computer Science**

FA 94 – SP 98

University of Wisconsin—Madison **MS**

Thesis: *Evolution of Tropical Atlantic Sea Surface Temperature Anomalies*; Advisor: Stefan Hastenrath

Major: **Atmospheric & Oceanic Sciences**

FA 93 – SU 94

University of Virginia **BA**

Major: **Environmental Sciences**, Minor: **Physics**

FA 89 – SP 93

### CONTINUING EDUCATION

NASA Goddard Space Flight Center

**Two-day workshop on ArcGIS**

SU 03

University of Maryland, Baltimore County

Passed: **Applications for Geographic Information Systems**

SP 99

### AWARDS

**College Research Award (2007)**

- Teaching requirements for Spring 2007 waived to complete the project "The El Niño and La Niña climate states and their impacts on extreme precipitation events"

**Laboratory for Atmospheres Best Senior Author Publication Award (2002)**

- For his outstanding article [*GRL*, 2002] describing interconnections between Indian Ocean precipitation patterns and the initiation of El Niños

**Mesoscale Atmospheric Processes Branch Exceptional Scientific Support Award (2001)**

- For outstanding analysis of global precipitation variations and characteristics in relation to the El Niño / Southern Oscillation

#### Wahl Award (1997)

- Most outstanding Teaching Assistant in the Dept. of Atmospheric & Oceanic Sciences, UW-Madison

#### American Meteorological Society Global Change travel scholarship (1996)

#### Schwerdtfeger Award (1994)

- Most outstanding first year graduate student in the Dept. of Atmospheric & Oceanic Sciences, UW-Madison

#### GRANTS AND FELLOWSHIPS

NASA Energy and Water Cycle Sponsored Research (NEWS), “Global Precipitation Variations and Extremes”,  
Co-Investigator, **\$100k: 4/30/2009 to 3/29/2013**

NASA Earth and Space Science Fellowship (NESSF), on behalf of Sol Wuensch, **\$9k: 9/1/2008 to 8/31/2009 (declined because Wuensch graduated early)**

ECU Research Development Award Grant, “Mesoscale Convective Systems in the Coastal Environment of Malaysia: A Collaborative Initiative Between ECU and KUSTEM”, **\$22k: 7/1/2007 to 6/30/2008**

ECU Research/Creative Activity Grant, “Explaining the Caribbean Mid-summer Drought”, Principal Investigator, **\$12k: 7/1/2007 to 6/30/2008 (forced to decline in order to accept 2007 ECU Research Development Award Grant)**

NSF Geography and Regional Science and , “Collaborative Research and RUI: Physical Mechanisms Behind the Caribbean Mid-summer Drought”, Principal Investigator, **\$112k: 8/15/2007 to 2/15/2011**

NASA Energy and Water Cycle Sponsored Research (NEWS), “Global Precipitation Analysis for Climate and Weather Studies”,  
Co-Investigator, **\$55k: 2/1/2006 to 1/31/2009**

NASA Faculty Fellowship Program: **5/16/2004 to 6/26/2004**

NASA Research Opportunities for Precipitation Measurement Missions, “Intraseasonal Variations in Precipitation from the Indian to Western Pacific Oceans as a Forcing Mechanism for El Niño/Southern Oscillation” (PMM-0024-0081), Principal Investigator, **\$265k: 12/15/2003 to 12/14/2007**

#### REFEREED PUBLICATIONS

1. Wuensch, S., and S. **Curtis**, 2010: Can satellites be used to detect extreme precipitation events?: An example from the Carolinas. *Southeastern Geographer*, submitted.
2. Gamble, D.W., D. Campbell, T.L. Allen, D. Barker, S. **Curtis**, D.F.M. McGregor, and E.J. Popke, 2010: Climate change, drought, and Jamaican agriculture: Local knowledge and the climate record. *Annals of the Association of American Geographers*, submitted.
3. **Curtis**, S., and R.F. Adler, 2009: ENSO’s influence of the frequency of precipitation extremes: An application of high-resolution precipitation products. *Int. J. Climatol.*, in review.
4. Salahuddin, A., and S. **Curtis**, 2009: Evolution of Mesoscale Convective Systems and Its relationship with the Madden-Julian Oscillation in the Indo-Pacific Region. *The Open Atmospheric Science Journal*, 3, 141-154.
5. Adler, R.F., G. Gu, J.-J. Wang, G. J. Huffman, S. **Curtis**, and D. Bolvin, 2008: Relationships between global precipitation and surface temperature on inter-annual and longer time scales (1979-2006). *JGR-Atmospheres*, 113, D22104, doi:10.1029/2008JD010536.
6. Gamble, D.W., and S. **Curtis**, 2008: Caribbean precipitation: review, model, and prospect. *Progress in Physical Geography*, 32, 265-276.
7. **Curtis**, S., and D. W. Gamble, 2008: Regional variations of the Caribbean Mid-Summer Drought. *Theoretical and Applied Climatology*, 94, 25-34.
8. **Curtis**, S., 2008b: The El Niño/Southern Oscillation and global precipitation. *Geography Compass* (INVITED) 2, 600-619.
9. Gamble, D. W., D. B. Parnell, and S. **Curtis**, 2008: Spatial variability of the Caribbean mid-Summer drought and relation to the north Atlantic high circulation. *Int. J. Climatol.*, 28, 343-350.
10. **Curtis**, S., 2008a: The Atlantic multidecadal oscillation and extreme daily precipitation over the US and Mexico during the hurricane season. *Climate Dynamics*, 30, 343-351.
11. **Curtis**, S., T. W. Crawford, and S. A. Lecce, 2007: A comparison of TRMM to other basin-scale estimates of rainfall during the 1999 Hurricane Floyd flood. *Natural Hazards* (INVITED), 43, 187-198.
12. **Curtis**, S., A. Salahuddin, R. F. Adler, G. J. Huffman, G. Gu, and Y. Hong, 2007: Precipitation extremes estimated by GPCP and TRMM: ENSO relationships. *J. Hydrometeor.* (GEWEX Special Issue), 8, 678-689.
13. Hong, Y., R. F. Adler, F. Hossain, S. **Curtis**, and G. J. Huffman, 2007: Estimate gridded and time-variant runoff curve numbers using satellite remote sensing and geospatial data. *Water Resources Research*, 43, W08502, doi:10.1029/2006WR005739.
14. Gu, G., R. F. Adler, G. J. Huffman, and S. **Curtis**, 2007: Tropical rainfall variability on interannual-to-interdecadal/longer-time scales derived from the GPCP monthly product. *J. Climate*, 20, 4033-4046.
15. **Curtis**, S., R.F. Adler, G. J. Huffman, G. Gu, D.T. Bolvin, and E.J. Nelkin, 2006: Comments on ‘El Niño: Catastrophe or Opportunity’, *J. Climate*, 19, 6439-6442.
16. **Curtis**, S., 2006: Developing a Climatology of the South’s ‘Other’ Storm Season: ENSO Impacts on Winter Extratropical Cyclogenesis. *Southeastern Geographer*, 46, 231-244.
17. Salahuddin, A., R.H. Isaac, S. **Curtis**, and J. Matsumoto, 2006: Teleconnections between the Sea Surface Temperature in the Bay of Bengal and Monsoon Rainfall in Bangladesh. *Global and Planetary Change*, 53, 188-197.

18. **Curtis, S.**, and A. Salahuddin, 2006: Interannual Changes of 20-50 and 50-70 Day Climate Variability in the Indo-Pacific Sector in Austral Summer. *Journal of the Meteorological Society of Japan*, 84, 567-579.
19. Wuensch, S., J. Ast, and S. **Curtis**, 2004: The 2004 hurricane season: Impacts in North Carolina. *North Carolina Geographer*, 12, 34-40. (INVITED)
20. **Curtis, S.**, R. F. Adler, G. J. Huffman, G. Gu, 2004: Westerly wind events and precipitation in the eastern Indian Ocean as predictors for El Niño: Climatology and case study for the 2002-03 El Niño. *JGR-Atmospheres*, 109, D20104, doi:10.1029/2004JD004663.
21. **Curtis, S.**, 2004: Diurnal cycle of rainfall and surface winds and the mid-summer drought of Mexico/Central America. *Climate Research*, 27, 1-8.
22. Gu, Guojun, R. F. Adler, G. J. Huffman, and S. **Curtis**, 2004: African easterly waves and their association with precipitation. *JGR-Atmospheres*, 109, D04101, doi:10.1029/2003JD003967.
23. Adler, R. F., G. J. Huffman, A. Chang, R. Ferraro, P. Xie, J. Janowiak, B. Rudolf, U. Schneider, S. **Curtis**, D. Bolvin, A. Gruber, J. Susskind, and P. Arkin, 2003: The version-2 Global Precipitation Climatology Project (GPCP) monthly precipitation analysis (1979-present). *J. Hydrometeorol.*, 4, 1147-1167.
24. Gu, Guojun, R. F. Adler, G. J. Huffman, and S. **Curtis**, 2003: Summer synoptic-scale waves over tropical West Africa observed by TRMM. *Geophys. Res. Letters*, 30(14), 1729, doi:10.1029/2003GL017402.
25. Xie, P., J. E. Janowiak, P. A. Arkin, R. Adler, A. Gruber, R. Ferraro, G. J. Huffman, and S. **Curtis**, 2003: GPCP pentad precipitation analyses: an experimental data set based on gauge observations and satellite estimates. *J. Climate*, 16, 2197-2214.
26. **Curtis, S.**, and R. F. Adler, 2003: The evolution of El Niño-precipitation relationships from satellites and gauges. *JGR-Atmospheres*, 108(D4), 4153, doi:10.1029/2002JD002690.
27. Adler, R. F., C. Kummerow, D. Bolvin, S. **Curtis**, and C. Kidd, 2003: Status of TRMM monthly estimates of tropical precipitation. *Meteorological Monographs*, 29, 223-234.
28. **Curtis, S.**, 2002: Interannual variability of the bimodal distribution of summertime rainfall over Central America and tropical storm activity in the far-eastern Pacific. *Climate Research*, 22(2), 141-146.
29. **Curtis, S.**, G. J. Huffman, and R. F. Adler, 2002: Precipitation anomalies in the tropical Indian Ocean and their relation to the initiation of El Niño. *Geophys. Res. Letters*, 29(10), 1441, doi:10.1029/2001GL013399.
30. **Curtis, S.**, R. Adler, G. Huffman, E. Nelkin, and D. Bolvin, 2001: Evolution of tropical and extratropical precipitation anomalies during the 1997-1999 ENSO cycle. *Int. J. Climatol.*, 21, 961-971.
31. Huffman, G. J., R. F. Adler, M. Morrissey, D. T. Bolvin, S. **Curtis**, R. Joyce, B. McGavock, and J. Susskind, 2001: Global precipitation at one-degree daily resolution from multi-satellite observations. *J. Hydrometeorol.*, 2, 36-50.
32. Adler, R. F., G. J. Huffman, D. T. Bolvin, S. **Curtis**, and E. J. Nelkin, 2000: Tropical rainfall distributions determined using TRMM combined with other satellite and raingauge information. *J. Appl. Meteor.* (TRMM Special Issue), 39, 2007-2023.
33. **Curtis, S.**, and R. Adler, 2000: ENSO indices based on patterns of satellite-derived precipitation. *J. Climate*, 13, 2786-2793.
34. **Curtis, S.**, and S. Hastenrath, 1999b: Trends of upper-air circulation and water vapor over equatorial South America and adjacent oceans. *Int. J. Climatol.*, 19, 863-876.
35. **Curtis, S.**, and S. Hastenrath, 1999a: Long-term trends and forcing mechanisms of circulation and climate in the equatorial Pacific. *J. Climate*, 12, 1134-1144.
36. **Curtis, S.**, and S. Hastenrath, 1997: Interannual variability of circulation and climate in the tropical Pacific and Australasia related to the Southern Oscillation. *J. Meteor. Soc. Japan*, 75, 4, 819-829.
37. **Curtis, S.**, and S. Hastenrath, 1995: Forcing of anomalous sea surface temperature evolution in the tropical Atlantic during Pacific warm events. *JGR-Oceans*, 100, C8, 15835-15847.

#### BOOK CHAPTERS

1. Adler, R. F., G. J. Huffman, and S. **Curtis**, 2007: World of Rain, pp. 30-35 in *Our Changing Planet: The View from Space*, M. D. King, C. L. Parkinson, K. C. Partington, and Robin G. Williams, Eds., Cambridge University Press, 391p.
2. Huffman, G.J., R.F. Adler, S. **Curtis**, D.T. Bolvin, and E.J. Nelkin, 2007: Global Rainfall Analyses at Monthly and 3-h Time Scales. Section 4, Chapter 23, pp. 291-305 of *Measuring Precipitation from Space: EURAINSTAT and the Future*, V. Levizzani, P. Bauer, and F. J. Turk, Eds., Springer, 722 p.

#### NON-REFEREED PUBLICATIONS

1. **Curtis, S.**, 2009: *La Nina*. Encyclopedia of Geography, accepted.
2. **Curtis, S.**, J. Arrigo, P. Long, and R. Covington, 2009: *Climate, Weather, and Tourism: Bridging Science and Practice*, East Carolina University Press, 14 pp.
3. **Curtis, S.**, 2008: Report of the Honors Committee, 2007. *Southeastern Geographer*, 48, 139-142.
4. Salahuddin, A., R. Issac, S. **Curtis**, and J. Matsumoto, 2005: Sea surface temperatures in the Bay of Bengal as a predictor for monsoonal rainfall in Bangladesh: A canonical correlation analysis. *CLIVAR Exchanges*, 10, 3, 22-24.
5. **Curtis, S.**, 2005: El Niño: Predicting Cause and Effect. *Geotimes*, 50, 30-33. (INVITED).
6. **Curtis, S.**, and R. Adler, 2002: ENSO related precipitation anomalies from the tropics to the extratropics. *CLIVAR Exchanges*, 7, 1, 8-9.
7. **Curtis, S.**, and R. F. Adler, 2002: GPCP precipitation anomalies in the Indian Ocean as precursors to El Niño. *GEWEX News*, 12, 1, 10

#### FIRST AUTHOR CONFERENCE PRESENTATIONS (BOLD INDICATES PROCEEDINGS PAPER)

1. ENSO's Global Influence on Extreme Rainfall, 2008 Fall Meeting, American Geophysical Union. San Francisco, CA, Dec. 2008.
2. ENSO's Global Influence on the Seasonal Distribution of Daily Rainfall, 63<sup>rd</sup> Annual SEDAAG Meeting. Greensboro, NC, Nov. 2008.

3. **Wintertime climate extremes in the equatorial South China Sea, 7<sup>th</sup> International Annual Symposium on Sustainability Science and Management. Kuala Terengganu, Malaysia, Jun. 2008.**
4. The climate-weather connection: examples from TRMM, 3<sup>rd</sup> NASA/JAXA International TRMM Science Conference. Las Vegas, NV, Feb. 2008.
5. Northern hemisphere climate modes and extreme precipitation over the US, NASA Energy and Water Cycle Study Science Team Meeting. Huntsville, AL, Sep. 2007.
6. Regional variations of the Caribbean Mid-Summer Drought, AGU Spring Meeting. Acapulco, Mexico, May 2007.
7. Center for Natural Hazards Research at East Carolina University, AGU Spring Meeting. Acapulco, Mexico, May 2007.
8. ENSO and global daily to 3-hourly precipitation extremes, 2007 Annual Meeting of the American Meteorological Society. San Antonio, TX, Jan. 2007.
9. Indo-Pacific climate variability at 20-50 and 50-100 day time scales and El Niño, 2006 Fall Meeting, American Geophysical Union. San Francisco, CA, Dec. 2006.
10. A comparison of TRMM to other basin-scale estimates of rainfall during the 1999 Hurricane Floyd flood, 61<sup>st</sup> Annual SEDAAG Meeting. Morgantown, WV, Nov. 2006.
11. Climatic variations of global precipitation extremes, NASA Energy and Water Cycle Study Science Team Meeting. College Park, MD, Sep. 2006.
12. Precipitation variability in the Maritime Continent: From local impacts to global climate change, NASA Precipitation Missions Science Team Meeting. Monterey, CA, Dec. 2005.
13. ENSO impacts on the climatology of winter extratropical cyclones in the Southeast U.S., 60<sup>th</sup> Annual SEDAAG Meeting. West Palm Beach, FL, Nov. 2005.
14. An analysis of the climatology and variation of precipitation extremes with GPCP and TRMM, Fifth International Scientific Conference on the Global Energy and Water Cycle Experiment. Costa Mesa, CA, Jun. 2005.
15. Climatology of winter storm observations in the Southeastern U.S. and adjacent oceans, 101<sup>st</sup> Annual Meeting of the Association of American Geographers. Denver, CO, Apr. 2005.
16. **An examination of the El Niño Onset Index (EOI) and the successful prediction of the 2002-03 El Niño. Combined Preprints CD-ROM, 2<sup>nd</sup> TRMM International Science Conference. Nara, Japan, Sep. 2004, 4 pp.**
17. Precipitation in the eastern Indian Ocean as a predictor for the onset of El Niño: What can TRMM and QuikSCAT tell us? First International CLIVAR Science Conference. Baltimore, MD, Jun. 2004.
18. The climate of the tropical Indian Ocean and the development of El Niño. Fifty-eighth Annual Meeting of the Southeast Division of the Association of American Geographers. Charlotte, NC, Nov. 2003.
19. Intraseasonal variations in precipitation from the Indian to western Pacific Oceans as a forcing mechanism for El Niño / Southern Oscillation. NASA Precipitation Missions Science Team Meeting. Greenbelt, MD, Oct. 2003.
20. **A case study of the Intertropical Convergence Zone at the Ocean Surface with High Resolution Satellite Data. Combined Preprints CD-ROM, 83<sup>rd</sup> AMS Annual Meeting; 12<sup>th</sup> Conference on Interactions of Sea and Atmosphere. Long Beach, CA, Feb. 2003, 2 pp.**
21. Forecasting the onset of El Niño based on GPCP precipitation: validation and future work. Proceedings of the Twenty-seventh Annual Climate Diagnostics and Prediction Workshop. Fairfax, VA, Oct. 2002.
22. Characterizing the North American monsoon with TRMM precipitation. 1<sup>st</sup> TRMM International Science Conference. Honolulu, HI, Jul. 2002.
23. ENSO variations in tropical precipitation. 1<sup>st</sup> TRMM International Science Conference. Honolulu, HI, Jul. 2002.
24. Forecasting El Niño with satellite observations of precipitation. AGU Spring Meeting. Washington D.C., May 2002.
25. The TRMM/NAME connection. 5<sup>th</sup> Panel Meeting of CLIVAR-VAMOS. San Jose, Costa Rica, Mar. 2002 (INVITED).
26. Global trends (1979-2001) in mean and extreme rainfall from a new satellite-gauge merged data set. 11<sup>th</sup> Conference on Satellite Meteorology and Oceanography. Madison, WI, Oct. 2001.
27. The precipitation component of ENSO. Fourth International Scientific Conference on the Global Energy and Water Cycle Experiment. Paris, France, Sep. 2001.
28. Climate variations in global monsoonal precipitation from 22 years of satellite data. 8<sup>th</sup> Scientific Assembly of IAMAS. Innsbruck, Austria, Jul. 2001.
29. Using global precipitation observations to monitor ENSO. 8<sup>th</sup> Scientific Assembly of IAMAS. Innsbruck, Austria, Jul. 2001.
30. The evolution of tropical and extratropical precipitation during ENSO events. 12<sup>th</sup> Symposium on Global Change and Climate Variations. 81<sup>st</sup> Annual AMS Meeting. Albuquerque, NM, Jan. 2001.
31. Long-term satellite precipitation data sets and TRMM: Applications to the global water cycle. US-Japan Workshop on Monsoon Systems. NASA/Goddard, MD, Nov. 2000 (INVITED).
32. **21-year variability in regional precipitation over the globe based on the GPCP version-2 data set. Proceedings of the Twenty-fifth Annual Climate Diagnostics and Prediction Workshop. Palisades, NY, Oct. 2000, pp 102-104.**
33. Applications of remotely sensed precipitation data sets to the goals of PACS and GCIP. 2000 Spring Meeting, American Geophysical Union. Washington D.C., May 2000.
34. The evolution of tropical precipitation patterns during ENSO events using 21+ years of GPCP merged data. 2000 Spring Meeting, American Geophysical Union. Washington D.C., May 2000.
35. **Global precipitation patterns associated with ENSO and tropical circulations. Proceedings of the Twenty-fourth Annual Climate Diagnostics and Prediction Workshop. Tucson, AZ, Nov. 1999, pp 142-144.**
36. **Using satellite estimates of precipitation to identify and monitor climate variability. Eighth Conference on Climate Variations. Denver, CO, Sep. 1999, pp 222-223.**
37. A global comparison of GPCP precipitation observations with model-generated estimates. IUGG, Birmingham, UK, Jul. 1999 (presented by R. Adler).

38. **Climatic variability of precipitation from the seasonal cycle to ENSO using GPCP's merged data product and SSM/I-based microwave estimates.** Third International Scientific Conference on the Global Energy and Water Cycle Experiment. Beijing, China, Jun. 1999, pp 535-536.
39. An analysis of global precipitation during the 1997-98 ENSO using GPCP's satellite-gauge combined dataset. 79th Annual AMS Meeting. Dallas, TX, Jan. 1999.
40. **Comparison of GPCP and CMAP global monthly precipitation analyses.** Proceedings of the Twenty-third Annual Climate Diagnostics and Prediction Workshop. Miami, FL, Oct. 1998, pp 159-161.
41. Circulation anomalies in the tropical Pacific and Australasia associated with the Southern Oscillation. 1997 Fall Meeting, American Geophysical Union. San Francisco, CA, Dec. 1997.
42. **Evolution of tropical Atlantic SST anomalies.** Proceedings of the Nineteenth Annual Climate Diagnostics Workshop. College Park, MD, Nov. 1994, pp 168-170.

#### EDITORIAL BOARDS

The Open Atmospheric Science Journal (since 2007)  
 Geography Compass (since 2008)

#### INVITED TALKS AND SERVICE

##### **Guest Editor, *International Journal of Climatology***

Responsible for editing special issue on hydroclimatology

##### **"The El Niño-Southern Oscillation and Global Precipitation Patterns: A View from Space"**

University of North Carolina – Chapel Hill, Dept. of Geography, April 2009

##### **Organizing Chair**

Hurricane Floyd Symposium (Day 2), ECU

##### **Co-Convener and Co-Chair, AGU 2008 Fall Meeting, San Francisco, CA**

"Spatial and Temporal Trends in Hydrometeorological Records as Indicators of Climate Variability and Change" (2 sessions, oral and poster)

##### **Co-organizer, Welcoming speaker and Introducing speaker**

Climate, Weather, and Tourism Workshop, ECU

##### **Panel Member**

North Carolina premier of the movie *Sizzle: A Global Warming Comedy*

##### **Lead Author**

*Global Warming and Coastal North Carolina: A Response in Two Parts from East Carolina University to Senator Marc Basnight's Request Concerning Global Warming*

##### **Master of Ceremonies for ECU Geography panel**

*Wind and Water: The Science of Hurricane Forecasting and Impacts in a Changing Climate*

##### **Panel Member**

*Global Academic Workshop, Global Classroom, ECU*

##### **Chair, 3<sup>rd</sup> NASA/JAXA International TRMM Science Conference**

"Climate (2)"

##### **Chair, 2007 SEDAAG Meeting, Charleston, SC**

"Student Honors Competition I"

##### **"Climate Variability and Extreme Precipitation"**

East Carolina University, Dept. of Geology, October 2007

##### **Co-Convener and Co-Chair, AGU 2007 Joint Assembly, Acapulco, MEXICO**

"Midsummer Droughts: Causes and Implications" (2 sessions, oral and poster)

##### **Co-Convener and Co-Chair, AGU 2006 Fall Meeting, San Francisco, CA**

"Extreme Hydrometeorological Events" (3 sessions: posters, flood talks, climatology talks)

##### **Chair, 2006 SEDAAG Meeting, Morgantown, WV**

"Student Honors Competition II"

##### **Panelist, 2006 SEDAAG Meeting, Morgantown, WV**

"Finding Funding for Research"

##### **"Climate Change and Global Warming"**

Global Education Fall Institute, Edgecombe Community College, September 2006

##### **"El Niño / Southern Oscillation and Extreme Precipitation"**

Earth and Ocean Sciences Seminar Series, Duke University, March 2006.

##### **Special Session Organizer and Chair, 2005 SEDAAG Meeting, West Palm Beach, FL**

"Storms in the South: Human and Physical Aspects"

##### **"New Insights on El Niño-Precipitation Relationships"**

University of North Carolina-Wilmington, Dept. of Earth Sciences, October 2005.

##### **Fred A. Anderson Elementary School (Bayboro, NC)**

Invited speaker on weather measurement, September 2005.

##### **"Predicting El Niño and LaNiña: When Will the Next One Occur?"**

Austin College (Sherman, TX), Earth Systems & Global Change Science Lecture Series, February 2005.

##### **"Predicting, Monitoring, and Understanding El Niño with Satellites"**

East Carolina University, Dept. of Geology, December 2003.

**"Global and Regional Precipitation Climatologies: A Perspective from Space"**

University of North Carolina - Charlotte, Dept. of Geography and Earth Science, March 2003.  
East Carolina University, Department of Geography, January 2003.  
Hampton University, Department of Physics, January 2002.  
UMBC Geography and Environmental Systems Affiliation Lecture, November 2001.

**"Career as an Earth Science Researcher"**

Fredrick County (MD) Public Schools Earth System Science Research Course, October 2002.

**2002 and 1999 Summer Institute on Atmospheric and Hydrospheric Sciences**

Selected as mentor for upper-level undergraduate student.

**"Understanding the Cause and Effects of El Niño with Satellite Estimates of Precipitation" (for science teachers)**

Maine Teachers Earth and Space Sciences Workshop, NASA/Goddard, August 2002.  
NASA Educators Workshop (NEW), NASA/Goddard, July 2002.  
Performance Assessments for Mathematics and Science (PAMS), NASA/Goddard, June 2002.

**Mentor (2002)**

Hosted a senior Physics student from Austin College (Sherman, TX) and oversaw a semester-long project.

**"Extending our Understanding of ENSO, Monsoons, and Climate Change Through Global Observations of Precipitation"**

Climate and Radiation Branch of the Laboratory for Atmospheres, NASA/Goddard, January 2001.

**"The El Niño - La Niña Phenomenon"**

UMBC Geography and Environmental Systems Dept. Seminar Series on Earth Systems and Environment, SP 00.

**Reviewer**

Journal of Climate, Quarterly Journal of the Royal Meteorological Society, Journal of Atmospheric and Oceanic Technology, Journal of Hydrometeorology, Journal of Hydrology, Journal of Geophysical Research–Atmospheres, Geophysical Research Letters, International Journal of Climatology, Climate Research, Southeastern Geographer, Open Atmospheric Science Journal, Atmospheric Chemistry and Physics, Continental Shelf Research, Sensors, Geography Compass, The Philippine Agricultural Scientist; NOAA, NASA, and NSF grant proposals

LEADERSHIP

<b>Chair, Honors Committee, Southeast Division of the American Association of Geographers</b>	<b>2007</b>
<b>Chair, Applied Atmospheric Science BS Degree Planning Committee</b>	<b>2006 – FA 09</b>
<b>Department Chair Advisory Committee (elected)</b>	<b>2005 – 06</b>
<b>Chair, Atmospheric Science Faculty Search Committee</b>	<b>FA 05</b>
<b>Chair, Curriculum Committee</b>	<b>FA 05 – FA 09</b>
<b>Co-developer and Coordinator of the Certificate of Atmospheric Sciences at ECU</b>	<b>FA 04 – present</b>

PROFESSIONAL MEMBERSHIPS

**American Meteorological Society** (since 1995), **American Geophysical Union (Hydrology/Precipitation Committee)** (since 1996), **Southeastern Division of the Association of American Geographers** (since 2003), and **North Carolina Geographical Society** (since 2003)

STUDENT GRADUATE COMMITTEE

Robbie Munroe, (MA Geography, ECU, advisor)  
Emily Wright, (MA Geography, ECU, committee)  
Stephanie Hill, (MA Geographahy, ECU, committee)  
Allen, Theodore, (MA Geography, ECU, advisor, 2009)  
Perez-Sanchez, Naomy, (MA Geography, ECU, committee, 2009)  
Fuhrmann, Christopher, (Ph.D. Geography, University of North Carolina-Chapel Hill, committee)  
Salahuddin, Ahmed, (Ph.D. Coastal Resources Management, ECU, advisor, 2008)  
Wuensch, Sol Xenos, (MA Geography, ECU, advisor, 2008)  
Twomey, Evan Michael, (MS Biology, ECU, committee, 2008)  
Sivaram, B., (adjudicated his PhD thesis, Andhra University, INDIA)  
Kotecki, Erica Susann, (MA Geography, ECU, committee, 2006)

MEDIA

ABC WCTI; FOX WFXI, WYDO Greenville, NC, July 28/29, 2009  
5pm, 10pm, 11pm, and 5:30am news story "Understanding El Niño"

"Bangladeshi scientist in USA uncovers new info on cyclone patterns"  
in *Bangladesh Observer, Bangladesh Today, Financial Express, New Nation, New Age* (all Bangladesh newspapers)  
May 5, 2009

*Pieces of Eight*, December 12, 2008  
"Researchers Study Climate's Effect on State Tourism"

*WTIB 94.3 FM and Channel 7 "Talk of the Town"*, November, 2008

“Advertising the Climate, Weather and Tourism Workshop”

*Exploration and Discovery*, September, 2008

“Center for Sustainable Tourism: Research Opportunities”

*Coastwatch*, Winter 2008

“International Climate Change Report Released”

*Pieces of Eight*, December 7, 2007

“ECU begins water conservation efforts”

*The East Carolinian*, November 8, 2007

“University works to conserve water”

*The East Carolinian*, June 13, 2007

“North Carolina Vulnerable for Active Hurricane Season”

*The East Carolinian*, May 16, 2007

“Heating up: Global temperatures sizzle, Global warming proves deadly”

NBC WITN, Greenville, NC, January 9, 2007

6pm News Story: “Global Warming Is One Reason For Wacky Weather”

*Sun Journal*, New Bern, NC, July 13, 2005

“Residents Optimistic about Return to Space”

*Pieces of Eight*, ECU Faculty and Staff Newspaper, January 21, 2005

“Curtis Collaborates on El Niño Model”

*The East Carolinian*, January 12, 2005

“Professor Works with NASA Scientists, Develops El Niño Predicting Device”

*The Daily Reflector*, December 13, 2004

“Climatologist, NASA Develop El Niño Prediction Model”

CBS WNCT, Greenville, NC, December 3, 2004

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FOX WYDO, Greenville, NC, December 3, 2004

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“ECU Climatologist, NASA Develop El Niño Prediction Model”

*Edge*, ECU Magazine of Research and Creative Activity, Spring 2004

“Scientist Seeks Way to Predict El Niño”

*Pieces of Eight*, ECU Faculty and Staff Newspaper, November 3, 2003

“Grant Funds ‘El Niño Study’”

*Geotimes* (web extra), October 3, 2003

“Defined at last: El Niño and La Niña”

Radio National Breakfast radio program, Australian Broadcasting Corporation, 2003

Based on 5/1/03 NASA news release

*Science in Action* radio program, BBC World Service, May 9, 2003

“El Niño”, based on 5/1/03 NASA news release

NASA News Release, May 1, 2003

“NASA Discovers a Soggy Secret of El Niño”

*Earth and Sky* radio program, February 8, 2003

“Predicting El Niño”, based on 5/28/02 NASA news release

*Science News*, December 21, 2002

“Science News of the Year 2002”, based on 5/28/02 NASA news release  
- *second place under the Earth Sciences category*

NASA News Release, May 28, 2002

“New Method Links Rainfall Patterns to Developing El Niños”

*Geotimes*, May 2002, pp. 6-7

“Wait and See for El Niño”, based on 1/18/01 NASA news release

*Science News*, March 2, 2002, p. 142

“El Niño’s Coming! Is That So Bad?”, based on 1/18/01 NASA news release

*Popular Science*, June 2001, p. 22

“Predicting El Niño”, based on 1/18/01 NASA news release

*USA Today* (web feature), January 21, 2001

“Dry Pattern May Foretell El Niño”, based on 1/18/01 NASA news release

*USA Today* (web feature), January 17, 2001

“Globe Wetter When El Niño, La Niña Around”, based on 1/16/01 NASA news release

NASA News Release, January 18, 2001

“Rainfall Change May Give Earlier Signal of El Niño”

NASA News Release, January 16, 2001

“More El Niños and La Niñas May Lead to More Global Rainfall Extremes”

Goddard Earth Science Update, September 3, 1999

“Trends of Upper-Air Circulation and Water Vapour Over Equatorial South America And Adjacent Ocean”