

## **Douglas W. Gamble**

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### **EDUCATIONAL BACKGROUND**

Undergraduate: Miami University (Ohio)  
Degree: Bachelor of Arts in International Studies, 1989

Graduate: University of Georgia  
Degree: Master of Arts in Geography, 1993  
Thesis: *Coevolutionary Development Theory as an Analytical Framework within Ecodevelopment: A Case Study of Agricultural Land Use in the Zhu Jiang Delta, Guangdong Province, China (Advisor: B. Ikubolajeh Logan).*  
Examination Fields: Hydrology, Water Resources, and Economic Development

University of Georgia  
Degree: Doctor of Philosophy in Geography, 1997  
Dissertation: *Climatic and Physiographic Features Associated with Extreme Unseasonable Floods in the Southeastern United States, 1950-1990, (Advisor: Vernon Meentemeyer).*  
Examination Fields: Applied Climatology, Hydrology, Environmental Geography, and Time Series Analysis

### **ACADEMIC EXPERIENCE**

1. Teaching Assistant, Lab Coordinator, and Part-Time Instructor, Department of Geography, University of Georgia, 1991-97.
2. Part-Time Instructor, Department of Geography, Georgia State University, 1995-1996.
3. Assistant Professor of Geography, Department of Geosciences, Mississippi State University, 1997-2000.
4. Assistant Professor of Geography, Department of Earth Sciences, UNC Wilmington, 2000-2006.
5. Associate Professor of Geography, Department of Geography and Geology, UNC Wilmington, 2006-Present.

### **PROFESSIONAL EXPERIENCE**

1. Fisheries Extensionist, United States Peace Corps, Kathmandu, Nepal, 1989.
2. Environmental Protection Specialist, U.S. EPA, Region V, Pesticides Section, Chicago, IL, 1990-91.

**AWARDS**

1. Outstanding Graduate Teaching Assistant Award, University of Georgia, 1993.
2. Outstanding Paper By A Graduate Student, Geography, Georgia Academy of Science Annual Meeting, 1994. Paper Title: "Causes of Flooding in the Ganges-Brahmaputra River Basin Viewed at Three Scales."
3. Honorable Mention, Climate Specialty Group Student Paper Competition, Association of American of Geographers, Annual Meeting, 1996. Paper Title: "An Event Based Flood Hydroclimatology for the Southeastern United States."
4. Honorable Mention, Climate Specialty Group Student Paper Competition, Association of American Geographers, Annual Meeting, 1997. Paper Title: "Extreme Unseasonable Floods in the Southeastern United States 1950-1990."
5. Distinguished Teaching Achievement Award, National Council for Geographic Education, 2005.
6. Nominated for Chancellor's Teaching Excellence Award, UNC Wilmington, 2007.

**INSTRUCTIONAL AND RESEARCH INTERESTS**

Applied Climatology and Hydrology

Island and Coastal Environments

Water Resource Development

Scale and Physical Processes

Regional Specialties: Caribbean and the southeastern United States

**RESEARCH ACTIVITIES****PUBLICATIONS (REFEREED JOURNALS)**

1. Gamble, D.W. and V. Meentemeyer, 1996. The role of scale in research on the Himalaya-Ganges-Brahmaputra interaction. *Mountain Research and Development*, 16(2): 149-155.
2. Mote, T., D.W. Gamble, S.J. Underwood, and M. Bentley, 1997. Synoptic-scale features common to heavy snowstorms in the Southeast U.S. *Weather and Forecasting*, 12(1): 5-23.
3. Gamble, D.W., 1997. The relationship between drainage basin area and flood seasonality in the southeastern United States. *Southeastern Geographer*, 37(1): 61-75.
4. Gamble, D. W. and V. Meentemeyer, 1997. A synoptic climatology of extreme unseasonable floods in the southeastern United States, 1950-1990. *Physical Geography*, 18(6): 496-524.
5. Gamble, D.W., T.J. Dogwiler\*, and J.E. Mylroie, 2000. Field assessment of the microclimatology of tropical flank margin caves. *Climate Research*, 16(1): 37-50.
6. Gamble, D.W., M.E. Brown, D. Parnell\*, D. Brommer\*, and P.G. Dixon\*, 2000. Lessons learned from field evaluation of Hurricane Floyd damage on San Salvador Island, Bahamas. *Bahamas Journal of Science*, 8(1): 25-31.
7. Jacaruso, J.\*, D.W. Gamble, and M. Benedetti, 2001. Hurricanes and snow: A common occurrence in eastern North Carolina? *The North Carolina Geographer*, 9: 13-23.
8. Gamble, D.W., D. Taborosi, J.E. Mylroie, J.W. Jenson, J.L. Carew, J.M.U. Jocson, J.R. Mylroie, and D.T. Vann, 2003. The use of water temperature to characterize groundwater discharge of a coastal fracture on Guam, U.S.A. *Journal of Coastal Research*, 19(2): 462-469.

## PUBLICATIONS (REFEREED JOURNALS)

9. Gamble, D.W., 2004. Rethinking the Region: SEDAAG and the Caribbean. *Southeastern Geographer*, 44(1): 8-14.
10. Parnell, D.B.\*, D. Brommer\*, P.G. Dixon\*, M.E. Brown, and D.W. Gamble, 2004. A survey of Hurricane Frances damage on San Salvador. *Bahamas Journal of Science*, 12(4): 2-6.
11. Crump, M.A.\* and D.W. Gamble, 2006. Hydroclimatic analysis of a carbonate island pond through the development of a Hydrologic Landscape Unit model. *Physical Geography* 27(6): 53-64.
12. Rodgers, J.C., D.W. Gamble, D.H. McCay, and S. Phipps, 2006. Tropical cyclone signal within tree-ring chronologies from Weeks Bay National Estuary and Research Reserve, Alabama. *Journal of Coastal Research*, 22(6): 1320-1329.
13. Jenkins, S.B.\*, D.W. Gamble, M. Benedetti, and J. Willey, 2006. The effects of local weather patterns on nitrate and sulfate rainwater concentrations in Wilmington, NC. *The North Carolina Geographer*, 14: 29-38.
14. Curtis, S. and Gamble, D.W., 2008. Regional variations of the Caribbean mid-summer drought, *Theoretical and Applied Climatology* 94:25-34.
15. 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, *International Journal of Climatology* 28: 343-350.
16. Gamble, D.W. and S. Curtis, 2008. Caribbean precipitation: Review, model, and prospect. *Progress in Physical Geography* 32(3): 265-276.
17. Rodgers, J.C. and D.W. Gamble, 2008. The impact of Hurricane Frances (2004) on the invasive Australian pine (*Casuarina equisetifolia*, L.) San Salvador Island, The Bahamas, *Journal of the Torrey Biological Society* 135(3): 367-376.

\*= student co-author.

## PUBLICATIONS UNDER REVIEW (REFEREED JOURNALS)

1. Dumas, C.F., J.H. Herstine, D.W. Gamble and S.S. Meinhold. Willingness to pay for rip current awareness and education programs. Submitted to *Marine Resource Economics*, October 2008.
2. Gamble, D.W., D. Campbell, T. Allen, D. Barker, S. Curtis, D. McGregor, and J. Popke. Climate change, drought, and Jamaican agriculture: local knowledge and the climate record. Submitted to *Annals of the Association of American Geographers*, July 2009.

## PUBLICATIONS (PEER REVIEWED BOOK CHAPTERS)

1. Gamble, D.W., 2004. Water resource development on small carbonate islands: Solutions offered by the hydrologic landscape concept. In B. Warf, D. Janelle, and L.K. Hansen, eds., *WorldMinds: Geographic Perspectives on 100 Problems* (Dordrecht: Kluwer Academic Publishers), pp. 503-508.
2. Gamble, D.W., 2008. Looking beyond the lecture: Engaged learning in large classes. In M. Solem, K. Foote, J. Monk, B. Schlemper, eds., *Teaching College Geography* (Washington D.C.: Association of American Geographers), pp. 81-95.

## PUBLICATIONS (PEER REVIEWED BOOK CHAPTERS)

3. Speights-Binet, J. and D.W. Gamble, 2008. Teaching in the field. In M. Solem, K. Foote, J. Monk, B. Schlemper, eds., *Teaching College Geography* (Washington D.C.: Association of American Geographers), pp. 96-110.
4. Gamble, D.W., In press, 2009. Caribbean vulnerability: An appropriate climatic framework. In D. McGregor, D. Dodman, and D. Barker, eds., *Global Change and Caribbean Vulnerability: Environment, Economy and Society at Risk?* (Mona, Jamaica: The UWI Press).

## PUBLICATIONS (EDITED PROCEEDINGS, \*= student co-author)

1. Leigh, D.S. and D.W. Gamble, 1997. Survey of nonpoint trace metal inputs to Lake Lanier. In *Proceedings of the 1997 Georgia Water Resources Conference*, ed. K. Hatcher, 170-171. Athens, GA: Institute of Ecology, University of Georgia.
2. Gamble, D.W., 1998. A comparison of seasonal flood frequency for annual-peak and partial-duration flood series in Mississippi. In *1998 Proceedings Mississippi Water Resources Conference*, ed. B.J. Daniel, 20-26. Mississippi State, MS: Water Resources Research Institute, Mississippi State University.
3. Wax, C.L. and D.W. Gamble, 1998. Keynote address: El Nino -- The child, the myth, the legend (Perception, the Press, and reality). In *1998 Proceedings Mississippi Water Resources Conference*, ed. B.J. Daniel, 1-3. Mississippi State, MS: Water Resources Research Institute, Mississippi State University.
4. Gamble, D.W., T.J. Dogwiler\*, and J.E. Mylroie, 1999. A comparison of tidal and non-tidal cave temperatures on San Salvador Island, Bahamas: A preliminary analysis. In *Proceedings of The 9th Symposium on the Geology of the Bahamas and Other Carbonate Regions 1998*, eds. H.A. Curran and J.E. Mylroie, 58-68. San Salvador, Bahamas: Bahamian Field Station Incorporated.
5. Gamble, D.W., J.E. Mylroie, J.W. Jenson, J.L. Carew, D. Taborosi, J.M.U. Jocson, D.T. Vann, and J.R. Mylroie, 2001. Fresh water resources on Guam: Calculating halocline position and fresh water discharge via temperature profile. *Proceedings 10th Pacific Science Inter-Congress 2001: The Integration of Natural and Social Sciences in the New Pacific Millennium*, 104. Mangilao, Guam: University of Guam Graduate School and Research and Pacific Science Association.
6. Gamble, D.W., J. Arnette\*, M.A. Crump\*, and D. Glenn\*, 2004. A 2001 weather summary for San Salvador, Bahamas: Implications and applications for the geosciences. In *Proceedings of the 11<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions 2002*, eds. R. Lewis and B. Panuska, 117-126. San Salvador, Bahamas: Gerace Research Center, College of the Bahamas.
7. Crump, M.A.\*, and D.W. Gamble, 2004. Climate-derived water budget and synoptic scale precipitation pattern analysis. In *Proceedings of the 11<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions 2002*, eds. R. Lewis and B. Panuska, 127-134. San Salvador, Bahamas: Gerace Research Center, College of the Bahamas.
8. Gamble, D.W. and R.D. Jordan\*, 2006. Spatial variability of precipitation on San Salvador, Bahamas 2001-2003. In *Proceedings of the 12<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions 2004*, eds. R.L. Davis and D.W. Gamble, 52-60. San Salvador, Bahamas: Gerace Research Center, College of the Bahamas.

## PUBLICATIONS (EDITED PROCEEDINGS, \*= student co-author)

9. Moore, P.J.\*, J.B. Martin, and D.W. Gamble, 2006. Carbonate water mixing in a modern flank margin cave. In *Proceedings of the 12<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions 2004*, eds. R.L. Davis and D.W. Gamble, 123-129. San Salvador, Bahamas: Gerace Research Center, College of the Bahamas.

## PUBLICATIONS (GRANT AND TECHNICAL REPORTS)

1. Gamble, D.W., 2000. *QR124: Field evaluation of hurricane damage to the water resources, tourism infrastructure and emergency response of San Salvador Island, Bahamas*. Boulder, CO: Natural Hazards Research and Applications Information Center, University of Colorado (<http://www.colorado.edu/hazards/qr/qr124/qr124.html>).
2. Gamble, D.W., J. Arnette, and M.A. Crump, 2002. *2001 Weather and climate summary for San Salvador, Bahamas CD-ROM*. Wilmington, NC: LACR, UNCW.
3. Gamble, D.W., 2003. *2002 Weather and climate summary for San Salvador, Bahamas CD-ROM*. Wilmington, NC: LACR, UNCW.
4. Janis, M.J., and D.W. Gamble, 2004. *NOAA/CSC/20215-PUB Workshop Report: Planning for coastal climatologies in the Southeastern United States*. Charleston, SC: Coastal Services Center, National Oceanic and Atmospheric Administration, 66 pp. (<http://www.csc.noaa.gov/climatology/products.html>).
5. Gamble, D.W. and L. Leonard, 2005. *Final Report: Coastal climatology products for recreation and tourism end users in southeastern North Carolina. Report EA133C-04-SE-1277*. Charleston, SC: Coastal Services Center, National Oceanic and Atmospheric Administration, 51 pp (<http://www.csc.noaa.gov/climatology/products.html>).
6. Bingham, F.M., L.B. Cahoon, W.J. Cleary, E.K.C. Covan, R. Cutting, C.F. Dumas, D.W. Gamble, J. Lambert, L. Leonard, S. McFarland, M.H. Posey, R.D. Shew, S.A. Skrabal, A.M. Szmant, C.R. Tobias, C.R. Tomas, and W.D. Webster, 2008. *The potential impacts of climate change on coastal North Carolina: A report by the faculty of the University of North Carolina Wilmington for Erskine Bowles, President, The University of North Carolina*. Wilmington, NC: UNC Wilmington, 104 pp.

## PUBLICATIONS (THESES AND DISSERTATIONS)

1. Gamble, D.W., 1993. Thesis: *Coevolutionary development theory as an analytical framework within Ecodevelopment: A case study of agricultural land use in the Zhu Jiang Delta, Guangdong Province, China*. Athens, GA: University of Georgia, pp. 80.
2. Gamble, D.W. 1997. Dissertation: *Climatic and physiographic features associated with extreme unseasonable floods in the southeastern United States, 1950-1990*. Athens, GA: University of Georgia, pp. 160.

## PUBLICATIONS (FIELD GUIDES)

1. Curran, H.A., J.E. Mylroie, D.W. Gamble, M.A. Wilson, R.L. Davis, N.E. Sealey, and V.J. Voegeli, 2004. *Geology of Long Island, Bahamas: A field trip guide*. San Salvador, Bahamas: Gerace Research Center, College of the Bahamas, pp. 27. ISBN 0-935909-74-5.

## PUBLICATIONS (BOOK REVIEWS)

1. Gamble, D.W., 1997. Schmidlin and Schmidlin, eds., Thunder in the Heartland: A chronicle of outstanding weather events in Ohio. *Annals of the Association of American Geographers*, 87(4): 750-751.
2. Gamble, D.W., 2004. Collier and Webb, Floods, droughts, and climate change. *The Professional Geographer*, 56(2): 317-318.
3. Gamble, D.W., 2005. Hardy, Climate change: Causes, effects, and solutions. *The Bulletin of the American Meteorological Society*, 86(4): 553-554.

## PUBLISHED ABSTRACTS (ACCOMPANIED BY ORAL OR POSTER PRESENTATION)

1. Gamble, D.W., 1994. Ecodevelopment, ecological economics, and coevolution: Implications for geographical research. *1994 Association of American Geographers Annual Meeting Abstracts, 29 March-2 April*, San Francisco, CA.
2. Gamble, D.W., 1994. Flooding in Bangladesh: A multi-scale perspective. *Association of American Geographers Southeastern Division Annual Meeting Abstracts, November 19-22, 1994*, Virginia Beach, VA, p. 12.
3. Underwood, S.J. and D.W. Gamble, 1995. A geography of suspended particulate Air Pollution for the State of Georgia. *1995 Association of American Geographers Annual Meeting Abstracts, 14-18 March*, Chicago, IL, p. 309.
4. Gamble, D.W., 1995. A flood hydroclimatology for the southeastern United States. *Abstracts of Papers for the Fiftieth Annual Meeting Association of American Geographers Southeastern Division, November 18-21, 1995*, Knoxville, TN, p. 7.
5. Gamble, D.W., 1996. An event-based flood hydroclimatology for the southeastern United States 1938-1988. *1996 Association of American Geographers Annual Meeting Abstracts, 9-13 April*, Charlotte, NC, p. 96.
6. Gamble, D.W., 1996. A synoptic climatology of extreme unseasonable floods in the Blue Ridge-Piedmont Region 1950-1990. *Abstracts for the Fifty-first Annual Meeting Association of American Geographers Southeastern Division, November 24-26, 1996*, Athens, GA, p. 8.
7. Gamble, D.W., 1997. Extreme unseasonable floods in the southeastern United States 1950-1990. *1997 Association of American Geographers Annual Meeting Abstracts, 1-5 April*, Ft. Worth, TX, p. 87.
8. Gamble, D.W. and V.G. Meentemeyer, 1997. Physiographic variables associated with extreme unseasonable flood events in the southeastern United States. *Abstracts for the Golden Anniversary Meeting Association of American Geographers Southeastern Division, November 22-25, 1997*, Birmingham, AL, p. 7.
9. Gamble, D.W., 1998. Land surface-atmospheric interaction associated with unseasonable floods in the southeastern United States. *Journal of the Mississippi Academy of Sciences*, 43(1): 38.
10. Gamble, D.W., 1998. A comparison of seasonal flood frequency of annual-peak and partial-duration flood series across the United States. *The Association of American Geographers 94th Annual Meeting 1998 Abstract Volume*, p. 272
11. Gamble, D.W., T.J. Dogwiler and J.E. Mylroie, 1998. Variation in cave temperatures on San Salvador Island, Bahamas: A preliminary analysis. *1988 NSS Convention Program*, Sewanee, TN, p. 76.

## PUBLISHED ABSTRACTS (ACCOMPANIED BY ORAL OR POSTER PRESENTATION)

12. Gamble, D.W., 1998. A multi-scale flood hydroclimatology for the Big Black Watershed, Mississippi. In *Papers and Proceedings of the Applied Geography Conferences*, ed. F.A. Schoolmaster, 21: 461.
13. Gamble, D.W., 1998. Drainage basin scale, storm type, and floods in the Big Black hydrologic sub-region of Mississippi. *Abstracts: Southeastern Division of the Association of American Geographers 1998 Annual Meeting*, Memphis, TN, p. 8.
14. Gamble, D.W., M.E. Brown, D. Parnell, D. Brommer, and P.G. Dixon, 1999. Field evaluation of Hurricane Floyd damage to the water resources, tourism infrastructure of San Salvador, Bahamas. *Abstracts: Southeastern Division of the Association of American Geographers 1999 Annual Meeting*, Tampa, FL, p. 6. [Poster]
15. Gamble, D.W., J.E. Mylroie and J. Jenson, 2000. The use of cave air and water temperatures to assess the Guam aquifer. *Association of American Geographers 96<sup>th</sup> Annual Meeting Abstracts Volume*, Pittsburgh, PA, p. 241.
16. Gamble, D.W., J.R. Mylroie, J.E. Mylroie, D.S. Taborosi and J. Jenson, 2000. Field Assessment of coastal fracture discharge on the NW coast of Guam using temperature sensors. *Conference Abstracts of Limestone Island Aquifers: Developing More Accurate Models*, Mangilao, Guam.
17. Mylroie, J. R., D.W. Gamble, D.S. Taborosi, J.W. Jenson, J.M.U. Jocson and J.E. Mylroie, 2000. Air and water cave temperature variation in three cave types in Guam, USA: Implications for aquifer characteristics. *Journal of Cave and Karst Studies*, 62(3): 196-197.
18. Gamble, D.W. and J.R. Mylroie, 2000. Field evaluation of condensation-corrosion on small tropical islands. *Abstracts: Southeastern Division of the Association of American Geographers Annual Meeting*, Chapel Hill, NC, p. 5.
19. Rodgers, J.C, D.H. McCay, D.W. Gamble and S. Phipps, 2001. The use of tree-ring chronologies to determine the effects of tropical cyclones on a coastal Alabama bottomland forest. *Association of American Geographers Annual 96<sup>th</sup> Meeting Abstract Volume*, New York, NY p. 804.
20. Gamble, D.W., M.A. Crump, D. Parnell, and P.G. Dixon, 2001. Latitudinal variation of rainfall on San Salvador, Bahamas. *Abstracts: Southeastern Division of the Association of American Geographers 2001 Annual Meeting*, Lexington, KY, p.14.
21. Gamble, D.W., M.A. Crump, D. Parnell and P.G. Dixon, 2002. Latitudinal variation of rainfall on San Salvador, Bahamas. *Association of American Geographers 98th Annual Meeting March 19-23, 2002 Los Angeles, CA 2002 Abstract Volume*, p. 197.
22. Gamble, D.W., E. Fournier, K.E. Foote, and L.J. Marzen, 2002. New geography faculty development: A report on the First Annual Geography Faculty Development Alliance workshops. *Southeastern Division of the Association of American Geographers Abstracts, November, 2002*, Richmond, VA, p.15. [Poster]
23. Gamble, D.W., 2003. Heavy precipitation in the Northern Caribbean: Fronts or hurricanes? *Abstracts of the Association of American Geographers 99th Annual Meeting March 5-8*, New Orleans, LA.
24. Crump, MA., and Gamble, D.W., 2003. April showers, may flowers and June monsoons: Spring precipitation and flood hydroclimatology in the headwaters of the Black Warrior River. *GSA Abstracts with Programs, Vol. 35, No. 6, September*, Abstract # 66233. [Poster]

## PUBLISHED ABSTRACTS (ACCOMPANIED BY ORAL OR POSTER PRESENTATION)

25. Snellings, T., M.A. Crump, and D.W. Gamble, 2003. Mixed flood distributions and flood hydroclimatology: Tropical and non-tropical weather patterns of 2001-2002. *GSA Abstracts with Programs, Vol. 35, No. 1, February, 2003*, Abstract # 49798. [Poster]
26. Gamble, D.W., B. Simpson, and M. Janis, 2004. End user requirements for coastal climatologies of the southeastern United States. *The Association of American Geographers Centennial Meeting, March 14-19, 2004 Philadelphia, PA, 2004 Abstract Volume CD-ROM*.
27. Gamble, D.W., 2004. Flood hydroclimatology: The importance of scale. *Abstracts: 2<sup>nd</sup> Annual Mississippi State University Department of Geosciences Graduate Symposium, Floods: Investigations in Science and Society*, Starkville, MS, April, 2004, p. 5.
28. Gamble, D.W. and R.D. Jordan, 2004. Spatial variability of precipitation on San Salvador, Bahamas, 2001-2003. *Abstracts and Program: The 12<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions, June 3- June 7, 2004*, p. 16, Gerace Research Center, San Salvador, Bahamas.
29. Moore, P.J., J.B. Martin, and D.W. Gamble, 2004. Does modern fresh water and seawater mixing enhance growth of isotope substage 5E flank margin caves? An Example from Majors Cave, San Salvador Island, Bahamas. *Abstracts and Program: The 12<sup>th</sup> Symposium on the Geology of the Bahamas and other Carbonate Regions, June 3- June 7, 2004*, p. 23-24, Gerace Research Center, San Salvador, Bahamas. [Poster]
30. Crump, M.A., R.L. Davis, and D.W. Gamble, 2004. Surface water features in carbonate island karst landscapes: Small oceans inside a small island. *GSA Abstracts with Programs, Vol. 36, No. 5, November, 2004* Abstract # 80832. [Poster]
31. Saal, L.B., D.W. Gamble, and L.A. Leonard, 2005. An assessment of TSS concentrations in a southeastern North Carolina tidal creek before and after intense rain events. *Abstracts: ERF 2005, 18<sup>th</sup> Biennial Conference of the Estuarine Research Foundation*, Norfolk, VA, p. 56.
32. Gamble, D.W. and L. Leonard, 2005. An end-user defined coastal climatology product for recreation and tourism in southeastern North Carolina. *Abstract Book: NOAA U.S. Climate Change Science Program Workshop: Climate Science in Support of Decision Making, November*, p. 71, Arlington, VA. [Poster]
33. Gamble, D.W., 2005. Spatial analysis of the Caribbean mid-summer drought. *Abstracts, 60<sup>th</sup> Annual Meeting of Southeastern Division of the Association of American Geographers*, West Palm Beach, FL, November 20-22, 2005.
34. Gamble, D.W., 2006. The development of a modified Bermuda High index for assessment of Caribbean mid-summer drought variability. *The Association of American Geographers Annual Meeting Abstract Volume, March 7-11, 2006 Chicago, IL, Abstract Volume*, p. 189.
35. Gamble, D.W. and S. Curtis, 2006. Spatial patterns in the Caribbean mid-summer drought and their link to the Bermuda High. *Conference Programme and Abstracts: Global Change and Caribbean Vulnerability: Environment, Economy and Society at Risk?*, University of the West Indies, July 24-28, 2006, p. 13, Mona, Jamaica.
36. Gamble, D.W. and J.C. Rodgers, 2006. Tropical flank margin cave microclimatology: External or internal control? *Abstracts: 61<sup>st</sup> Annual Meeting of Southeastern Division of the Association of American Geographers*, Morgantown, WV, November, 2006. [Poster]
37. Gamble, D.W., 2007. A hydroclimatic assessment of drought on small Caribbean carbonate islands. *Conference on Geography in the Americas: Collaboration on Research and Education*, La Serena, Chile, May, 2007. [Poster]

## PUBLISHED ABSTRACTS (ACCOMPANIED BY ORAL OR POSTER PRESENTATION)

38. Gamble, D.W. and Lithman M., 2007. An operational definition for Caribbean drought. *Abstracts: 62nd Annual Meeting of Southeastern Division of the Association of American Geographers*, Charleston, SC, November 2007.
39. Curtis, W.S. and D.W. Gamble, 2008. Advancing our understanding of the Caribbean mid-summer drought with TRMM and QuikSCAT. *3<sup>rd</sup> International TRMM Science Conference*, Las Vegas, NV, February 2008.
40. Allen, T., S. Curtis, and D. W. Gamble, Jamaica's mid-summer "dry spell", 2008. *Climate Applications Science Workshop*, Chapel Hill, NC, March 2008.
41. Gamble, D.W. and S. Curtis, 2008. A multi-scale analysis of the Caribbean mid-summer drought variability. *The Association of American Geographers Annual Meeting Abstract CD-ROM, April 15-19, 2008 Boston, MA*.
42. Gamble, D.W. and M. Lithman, 2008. An assessment of the mid-summer drought on San Salvador, Bahamas. *The 14<sup>th</sup> Symposium on the Geology of the Bahamas and Other Carbonate Regions*, June, 2008.
43. Hillegass, D. and D.W. Gamble, 2008. Rain cloud development over San Salvador, Bahamas. *The 14<sup>th</sup> Symposium on the Geology of the Bahamas and Other Carbonate Regions*, June, 2008.
44. Gamble, D.W., 2008. The study of climatic variability on San Salvador: Challenges and solutions to isolation. *The Geologic Society of America Annual Meeting*, October 5-9, Houston, TX.
45. Gamble, D.W., M. Ball, and S. Curtis, 2008. Pentad scale variation of the Caribbean Mid-summer Drought and its association with the North Atlantic high pressure. *Abstracts: 63rd Annual Meeting of Southeastern Division of the Association of American Geographers*, Greensboro, NC, November 2008.
46. Allen, T., S. Curtis, and D.W. Gamble, 2008. Remote climate forcings of Jamaica's Mid-summer dry spell and vegetative response. *The Annual Meeting of the American Geophysical Union*, December, 2008, San Francisco, CA.

## INVITED COLLOQUIA, GUEST LECTURES, AND PANELS

1. (with Charles L. Wax). Keynote Address: El Nino -- The Child, The Myth, The Legend (Perception, The Press, and Reality). Mississippi Water Resources Conference, Jackson, MS, March, 1998.
2. Invited Lecture: Geomorphology and biogeography for K through 12. Annual Workshop Mississippi Geographic Alliance, Starkville, MS, June, 1998.
3. Invited Lecture: Applied climatology in broadcast meteorology. Mississippi State University Broadcast Meteorology Workshop, Birmingham, AL, August, 1999.
4. Chair, Panel: Status of physical geography in the southeastern United States, Southeastern Division of the Association of American Geographers Annual Meeting, Tampa, FL November, 1999.
5. Invited Colloquium: Island climatology: The missing link. Department of Geological Sciences, University of North Carolina, Chapel Hill, NC, October, 2001.
6. Invited Colloquium: Applied climatology research of tropical islands. Department of Geography, East Carolina University, Greenville, NC, March, 2001.

## INVITED COLLOQUIA, GUEST LECTURES, AND PANELS

7. Invited Lecture: Global warming. Southeastern North Carolina United Nations Association, Wilmington, NC, September, 2002.
8. Environmental Lecture Series: Coastal weather and natural hazards. Bald Head Island Conservancy, Bald Head Island, NC, October 2002.
9. Panelist: Mentoring new geography faculty. Association of American Geographers Annual Meeting, New Orleans, LA, March, 2003.
10. Presidential Address: Climate change: The challenge of spatial scale. Sigma Xi – UNCW Chapter, Wilmington, NC, October, 2003
11. Keynote Address: Flood hydroclimatology: The importance of scale. Floods: Investigations in Science and Society, 2<sup>nd</sup> Annual Mississippi State University Department of Geosciences Graduate Symposium, Starkville, MS, April, 2004.
12. Chair, Panel: A Geographer's perspective of the 2004 hurricane season. Annual Meeting of the Southeastern Division of the Association of American Geographers, Biloxi, MS November, 2004.
13. Chair, Panel: Developing an active geography curriculum. Annual Meeting of the Southeastern Division of the Association of American Geographers, Biloxi, MS November, 2004.
14. Invited Lecture: Climate change, Rotary West Wilmington Chapter, Wilmington, NC, September, 2006.
15. Invited Lecture: An end-user defined coastal climatology product for recreation and tourism in southeastern NC. Marine/Wave Guidance Meeting, National Weather Service Wilmington Weather Forecast Office, October 2006.
16. Invited Lecture: Jamaica and Chile: My latest adventures. Randall-Zullo Speaker Series, Department of Geography and Geology, UNC Wilmington, October, 2007.
17. Panel: Writing and publishing for early career faculty and graduate students. Annual Meeting of the Southeastern Division of the Association of American Geographers, Charleston, SC November, 2007.
18. Invited Lecture: A Multi-scale Analysis of the Caribbean mid-summer drought, Department of Geography, UNC Greensboro, March, 2008.

## GRANTS AND CONTRACTS RECEIVED (TOTAL FUNDS: \$340,718)

Internal Sources:

1. Gamble, D.W., 1998. *Research Initiation Program, Office of Vice President for Research, Mississippi State University*. A hydroclimatic analysis of floods in the Big Black and Pearl River watersheds, 1960-1990. \$6,000 awarded.
2. Gamble, D.W., 2000. *Cahill Award for Faculty Research and Development, Office of Research Administration, UNC Wilmington*. A new investigation of rainfall spatial variability along coastal Southeast North Carolina: Baseline data and real time measurement. \$2,500 awarded.
3. Gamble, D.W., 2000. *Summer Research Initiative Grant, College of Arts and Sciences, UNC Wilmington*. Spatial variability in precipitation on San Salvador Island, Bahamas. \$3000 awarded.

## GRANTS AND CONTRACTS RECEIVED (TOTAL FUNDS: \$340,718)

Internal Sources:

4. Gamble, D.W., 2004. *Faculty Travel Grant, International Programs, UNC Wilmington*. Attend, present research, and co-chair the 12<sup>th</sup> Symposium on the Geology of the Bahamas and Other Carbonate Regions, San Salvador, Bahamas. \$500 awarded.
5. Gamble, D.W., 2006. *Faculty Travel Grant, International Programs, UNC Wilmington*. Attend and present research at the Conference on Global Change and Caribbean Vulnerability: Environment, Economy and Society at Risk?, University of the West Indies, Mona, Jamaica, July 24-28, 2006. \$500 awarded.
6. Gamble, D.W., 2007. *Cahill Award for Faculty Research and Development, Office of Research Administration, UNC Wilmington*. Satellite image analysis of San Salvador, Bahamas: Assessment of rainfall processes and hurricane damage. \$2500 awarded.

External Sources:

1. Gamble, D.W., 1999. *Quick Response Grant, Natural Hazards Research and Applications Information Center, University of Colorado*. Field evaluation of Hurricane Damage to the water resources, tourism infrastructure and emergency response of San Salvador Island, Bahamas. \$2450 awarded.
2. Gamble, D.W., 2001. *General Research Grant, Association of American Geographers*. Water resource development and San Salvador Island: A baseline study of spatial variability in precipitation. \$600 awarded.
3. Janis, M.J., and Gamble, D.W., 2003. *Contract, Coastal Services Center, National Ocean Service, National Oceanic and Atmospheric Administration*. Workshop and planning for a Coastal Climatology of the southeastern United States. \$49,857 awarded.
4. Brown, M.E., D.W. Gamble, D. Brommer, P.G. Dixon, and D.B. Parnell, 2004. *Quick Response Grant, Natural Hazards Research and Applications Information Center, University of Colorado*. Field evaluation of Hurricane Frances Damage to water resources, karst environments, tourism infrastructure, and emergency response of San Salvador Island, Bahamas. \$4300 awarded.
5. Gamble, D.W. and L. Leonard, 2004-2005. *Contract, Coastal Services Center, National Ocean Service, National Oceanic and Atmospheric Administration*. Coastal climatology products for recreation and tourism end-users in southeastern North Carolina. \$74,890 awarded.
6. Herstine, J., D.W. Gamble, C. Dumas, M. Imperial, and S. Meinhold, 2006. *Mini-Grant, NC Sea Grant Program*. An assessment of public awareness of rip currents in New Hanover County, NC. \$3982 awarded.
7. Gamble, D.W., 2007. *Renaissance Computing Institute (RENCI), UNC Chapel Hill*. Brunswick County flood monitoring. \$1770 awarded.
8. Gamble, D.W., 2007-2010. *National Science Foundation, Geography and Regional Science Program and Climate and Long-term Dynamics Program*. RUI: Physical mechanisms behind the Caribbean mid-summer drought. Collaborative Submission with S. Curtis, East Carolina University. \$187,869 awarded.

## STUDENT ADVISEE GRANTS AND CONTRACTS RECEIVED (TOTAL FUNDS: \$35,107)

1. David Brommer, Harold L. Crowley, and Paul G. Dixon, 1998. *Northeast Mississippi Daily Journal Undergraduate Research Award, Northeast Mississippi Journal*, Tupelo, MS. Analysis of the link between tidal ponds and cave water temperatures on San Salvador Island, Bahamas. \$300 awarded.
2. Chris Moore, and Jeremie Pare, 1999. *Northeast Mississippi Daily Journal Undergraduate Research Award, Northeast Mississippi Journal*, Tupelo, MS. Assessment of Hurricane Floyd damage to water resource infrastructure and tourism on San Salvador Island, Bahamas. \$200 awarded.
3. John Cartwright, 2000. *Graduate Student Fellowship, Estuarine Reserves Division, National Oceanic and Aerospace Administration*, Silver Springs, MD. A GIS analysis of land use and its potential link to sedimentation in Weeks Bay, AL. \$29,882 awarded.
4. Adam Faircloth, and Abram Lambertson, 2000. *Undergraduate Student Travel Award, Honors Scholar Program, UNC Wilmington*, Wilmington, NC. Measurement of spatial variability in precipitation on San Salvador Island, Bahamas. \$300 awarded.
5. Nathan Joseph, and Steven Still, 2001. *Undergraduate Student Travel Award, Honors Scholar Program, UNC Wilmington*, Wilmington, NC. Measurement of spatial variability in precipitation on San Salvador Island, Bahamas. \$300 awarded.
6. Michael A. Crump, 2001. *Graduate Research Grant, Department of Earth Sciences, UNC Wilmington*, Wilmington, NC. A hydroclimatic analysis of water resources on San Salvador, Bahamas. \$300 awarded.
7. Michael A. Crump, 2001. *Graduate Research Grant, Southeastern Geological Society of America*. A hydroclimatic analysis of water resources on San Salvador, Bahamas. \$325 awarded.
8. Michael A. Crump, 2002. *Graduate Research Grant, Department of Earth Sciences, UNC Wilmington*, Wilmington, NC. A hydroclimatic analysis of water resources on San Salvador, Bahamas. \$300 awarded.
9. Michael A. Crump, 2002. *Graduate Research Grant, Southeastern Geological Society of America*. A hydroclimatic analysis of water resources on San Salvador, Bahamas. \$600 awarded.
10. Michael A. Crump, 2002. *Summer Graduate Research Stipend, Graduate School, UNC Wilmington*, Wilmington, NC. A hydroclimatic analysis of water resources on San Salvador, Bahamas. \$1000 awarded.
11. Melanie A. Wemple, 2004. *Research Travel Award, Center for the Support of Undergraduate Research and Fellowships, UNC Wilmington*. Present research at the Annual Meeting of the Southeastern Division of Association of American Geographers. \$500 awarded.
12. Matthew Ball, Daniel Hillegass, and Robert Romanowski, 2008. *Center for Support of Undergraduate Research and Fellowships Research and Travel Awards, UNCW*. Presentation of research at the 14<sup>th</sup> Symposium on the Geology of the Bahamas and Other Carbonate Regions. \$1200 awarded.
13. Matthew Ball and Dan Hillegass, 2008. *Department of Geography and Geology, UNCW, Student Research Grant*. Assessment of cloud development and hurricane vulnerability on San Salvador, Bahamas. \$900 awarded.

## RESEARCH EXPERIENCE

1. Research Assistant, 1995. Nonpoint toxic metals assessment for Lake Lanier, GA. SubProject #5 completed for the *Georgia Environmental Protection Division* under the U.S. EPA's Clean Lakes Program. (Principal Investigator: Dr. David S. Leigh, Department of Geography, University of Georgia.)
2. Research Consultant, 1999. Island karst hydrology of Guam and its incorporation into a General Carbonate Island Karst Model (CIKM), *United States Geological Survey Award Number 1434-HQ-96-GR-020665*. (Principal Investigators: John Jenson, University of Guam, and John Mylroie, Mississippi State University.)

## RESEARCH PERMITS

1. Douglas W. Gamble, 1997-Open. A field evaluation of San Salvador Island's climatology. *Field Research Project, Bahamian Field Station Research Committee, San Salvador, Bahamas and the Bahamas Department of Agriculture*. (Eighteen field research excursions to date.)