VITA

Jay Stanley Hobgood

POSITIONS

- 2015-2021. Coordinator of the Committee on Academic Misconduct, Ohio State University.
- 2013-2014. Faculty Fellow in the Office of Academic Affairs, Ohio State University
- 1992-2021. Associate Professor, Ohio State University
- 1995-2014. Director, Atmospheric Sciences Program, Ohio State University
- 1987-1992. Assistant Professor, Ohio State University
- 1979-1987. Assistant Professor, University of Nebraska-Lincoln
- 1978-1979. Graduate Teaching Associate, Ohio State University

1977-1978. Graduate Research Associate, Ohio State University

1974-1977. Graduate Teaching Associate, Ohio State University

EDUCATION

- Ph.D. 1984, Geography, Ohio State University
- M.A. 1976, Geography, Ohio State University
- B.A. 1974, Geography, Ohio State University

AWARDS

- 2010. Faculty Award for Distinguished University Service, Ohio State University
- 2001. Special Award, American Meteorological Society
- 1996. Alumni Distinguished Teaching Award, Ohio State University

1979. Huntington Award, Department of Geography, Ohio State University

REFEREED JOURNAL ARTICLES

- 2012. "R. G. Mauk and J. S. Hobgood, "Tropical Cyclone Formation in Environments with Cool SST and High Wind Shear over the Northeastern Atlantic Ocean", *Weather and Forecasting*, 27, 1433-1448.
- 2011. M.C. Kruk, P.A. Hennon, E.J. Gibney, J. Hobgood and J. Weyman. "[Tropics] Tropical Cyclones 3) Eastern North Pacific Basin" (in .State of the Climate in 2010.], *Bulletin of the American Meteorological Society*, 92, S121-S123.
- 2007. K. Law and J.S. Hobgood, "A Statistical Model to Forecast Short-Term Hurricane Intensity, *Weather and Forecasting*, **22**, 967-980.
- 2005. C. Hennon, C. Marzban and J.S. Hobgood, "Improving Tropical Cyclogenesis Statistical Model Forecasts through the Application of a Neural Network Classifier", *Weather and Forecasting*, 20, 1073-1083.
- 2003. C. Hennon and J.S. Hobgood, "Forecasting Tropical Cyclogenesis over the Atlantic Basin Using Large-Scale Data", *Monthly Weather Review*, 131, 2927-2940.
- 2003. J.S. Hobgood, "The Maximum Potential Intensity of Tropical Cyclones Near Socorro Island Mexico", *Weather and Forecasting*, **18**, 1129-1139.
- 2000. K.R. Petty and J.S. Hobgood, "Improving Tropical Cyclone Intensity Guidance in the Eastern North Pacific Ocean", *Weather and Forecasting*, **15**, 233-244.
- 1998. J.S. Hobgood, "The Effects of Climatological and Persistence Variables over the Eastern North Pacific Ocean, *Weather and Forecasting*, **13**, 632-639.
- 1998. J.G.W. Kelley, J.S. Hobgood, K.W. Bedford, and D.J. Schwab, "Generation of Three-Dimensional Lake Model Forecasts for Lake Erie", *Weather and Forecasting*, **13**, 659-687.
- 1997. L.D. Whitney and J.S. Hobgood, "The Relationship Between Sea Surface Temperatures and Maximum Intensities of Tropical Cyclones in the Eastern North Pacific Ocean", *Journal of Climate*, **10**, 2921-2930.
- 1992. R.S. Cerveny and J.S. Hobgood, "Meteorological Implications of the First Voyage of Christopher Columbus", *Bulletin of the American Meteorological Society*, **73**, 173-178.

- 1991. J.N. Rayner, D.A. Howarth and J.S. Hobgood, "Dynamic Climatology: Its History and Future", *Physical Geography*, **12**, 207-219.
- 1991. J.A. Harrington, R.S. Cerveny and J.S. Hobgood, "Contests as Learning Experiences: The Role of Weather Forecasting Contests in Geography Programs", *Journal of Geography*, **90**, 27-31.
- 1989. J.S. Hobgood and J.N. Rayner, "A Test of Convective Parameterizations in a Tropical Cyclone Model", *Monthly Weather Review*, **117**, 1221-1226.
- 1988. R.S. Cerveny and J.S. Hobgood, "Ice-age Hurricanes and Tropical Storms", *Nature*, **333**, 243-245.
- 1986. J.S. Hobgood, "A Possible Mechanism for the Diurnal Oscillations of Tropical Cyclones", *Journal of the Atmospheric Sciences*, **43**, 2901-2922.
- 1986. J.S. Hobgood, "The Influence of Relative Humidity on the Development of Tropical Cyclones", *Physical Geography*, **7**, 282-291.
- 1986. S. Lavin, J.S. Hobgood, and P. Kramer, "Dot-density shading: A Technique for Mapping Continuous Climatic Data", *Journal of Climate and Applied Meteorology*, **25**, 679-690.

CHAPTERS IN EDITED BOOKS

- 2016. J. Hobgood, "Tropical climate/Hurricanes" in *The Encyclopedia of Geography: People, the Earth, Environment and Technology*, Wiley.
- 2011. J. Hobgood, "Climate Change, Climate Models and Geoengineering the the Earth" in *Engineering Earth: The Impacts of Megaengineering Projects*, Stanley D. Brunn, ed. Springer Science & Business Media 2185-2200.
- 2005. J. Hobgood, "Tropical Cyclones" in *Encyclopedia of World Climatology*, John E. Oliver, ed., Springer, pp. 750-756.

CONFERENCES PROCEEDINGS AND PREPRINTS

- 1998. J.S. Hobgood, "A Comparison of Thermodynamic and Empirical Maximum Potential Intensities over the Eastern North Pacific Ocean", *Preprints of the Symposium on Tropical Cyclone Intensity Change*, 129-130.
- 1997. J.S. Hobgood, "The Effects of Climatological Factors on the Intensities of of Tropical Cyclones over the Eastern North Pacific Ocean", *Preprints of*

the 22nd Conference on Hurricanes and Tropical Meteorology, 282-283.

- 1996. J.G.W. Kelley, D.J.S. Welsh, K.W. Bedford, J.S. Hobgood and B. Hoch, "High-resolution Short-term Lake Forecasts for Lake Erie", *Estuarine and Coastal Modeling IV, Proceedings of the 4th International Conference*, 367-378.
- 1994. Y.P. Chu, K.W. Bedford, C.J. Merry and J.S. Hobgood, "Impact of GOES Data on Surface Heat Flux Predictions", *National Conference on Hydraulic Engineering*, 212-216.
- 1994. J.G.W. Kelley, C.-C.J. Yen, K.W. Bedford, J.S. Hobgood and D.J. Schwab, "Coupled Lake Erie Air-Sea Storm Resolving Forecasts and Predictions, the Viento Project", *Estuarine and Coastal Modeling III, Proceedings of the 3rd International Conference*, 202-215.
- 1994. J.G.W. Kelley, C.-C.J. Yen, J.S. Hobgood, D.J. Schwab and K.W. Bedford, "Short-term Forecasts for Lake Erie", *Proceedings of the 1994 Hydraulic Engineering Conference*, 227-231.
- 1993. J.G.W. Kelley, J.S. Hobgood and C.D. Sawyer, "Mesoscale Rainfall Distribution in Southern New England Associated with Hurricane Bob (1991)", *Preprints of the 13th Conference on Weather Analysis and Forecasting*, 428-429.
- 1991. J.S. Hobgood and J.N. Rayner, "November/December Hurricanes in the 1980s", *Preprints of the 19th Conference on Hurricanes and Tropical Meteorology*, 367-368.
- 1989. R.S. Cerveny and J.S. Hobgood, "Ice-age Tropical Cyclones over the South Pacific Ocean", *Proceedings of the Third International Conference On Southern Hemisphere Meteorology and Oceanography.*
- 1984. J.S. Hobgood, "A Method for Including Radiative Fluxes in a Model Tropical Cyclone", *Modeling and Simulation Volume 15, Part: 1: Geography-Regional Sciences,* 315-319.
- 1977. J.S. Hobgood, "A Preliminary Experiment in Hurricane Prediction Using Interactive Computer Graphics", *Preprints of the 11th Conference on Hurricanes and Tropical Meteorology*, 413-415.

RESEARCH REPORTS

1993. K. Bedford, A. Brown, W. Carlson, P. Buerger, J. Hobgood, J. Kelley, S.F. May, F. Phillips, S. Spencer, K. Varadhan, D. Wintringham, J. Yen, Online Steering of Scientific Simulations Using the NASA ACTS: A Report On the Viento Project, OSU-ACCAD-1/93-TR3.

1981. A.V. Douglas and J.S. Hobgood, *Short-term Climate Forecast Models*, Final Project Report for the Nebraska Public power District.

RESEARCH GRANTS

- 1988. K.W. Bedford and J.S. Hobgood, "COPE: An Image-based Analysis and Forecasting System for Coastal Planning, Engineering and Design."
- 1980. J.S. Hobgood, "Short-range Weather Forecasting Model".

SELECTED PRESENTATIONS

- 2018. "The Myth That Tropical Cyclones Can't Form Near the Equator", presented at the 33rd Conference on Hurricanes and Tropical Meteorology.
- 2018. "An Experimental Wind Intensity Size Index", poster presented at the 33rd Conference on Hurricane and Tropical Meteorology.
- 2016. "The Myth That Tropical Cyclones Can't Form Near the Equator", presented at the 112th Annual Meeting of the Association of American Geographers.
- 2015. "An Experimental Hurricane Wind Intensity Size Index", presented at the 111th Annual Meeting of the Association of American Geographers.
- 2014. "Rapid Intensification of Tropical Cyclones: A Comparison of Flight Level and Surface Winds", presented at the *31st Conference on Hurricanes and Tropical Meteorology*.
- 2014. "Rapid Intensification of Tropical Cyclones: A Comparison of Flight Level and Surface Winds", presented at the 110th Annual Meeting of the Association of American Geographers.
- 2012. "Rapid Intensification of Tropical Cyclones and Changes in the Drag Coefficient", presented at the 30th Conference on Hurricanes and Tropical Meteorology.
- 2012. "Rapid Intensification of Tropical Cyclones", presented at the 108th Annual Meeting of the Association of American Geographers.
- 2011. Gelber, B., J. Hobgood, and P. Lore, "Extreme Weather", invited panel discussion presented at the Columbus Metropolitan Club.

- 2010. "Ike and the Windstorm over Ohio", presented at the 29th Conference on Hurricanes and Tropical Meteorology.
- 2010. "Hurricane Ike (2008) and the Windstorm over Ohio", presented at the 106th Annual Meeting of the Association of American Geographers.
- 2009. "Tropical Cyclone Activity in a Changing Climate", invited webinar presented to the *Casualty Actuarial Society's Climate Change Committee*.
- 2008. "A Reexamination of the Relationship Between Central Pressure and Maximum Sustained Wind Speed", presented at the 28th Conference on Hurricanes and Tropical Meteorology.
- 2008. "Characteristics of Category 5 Hurricanes", presented at the 104th Annual Meeting of the Association of American Geographers.
- 2008. "Characteristics of Category 5 Hurricanes", presented at the *Department* of Homeland Security Hurricane Mitigation Workshop.
- 2007. "Factors Leading to the Quiet 2006 Atlantic Hurricane Season", presented at the 103rd Annual Meeting of the Association of American Geographers.
- 2006. "A Comparison of Hurricanes Katrina (2005) and Camille (1969), presented at the 27th Conference on Hurricanes and Tropical Meteorology.
- 2006. "A Record Atlantic Hurricane Season", presented at the 102nd Annual Meeting of the Association of American Geographers.
- 2005. "Florida Hurricanes in 2004", presented at the 101st Annual Meeting of the Association of American Geographers.
- 2004. "Spatial and Temporal Distribution of Tropical Cyclones over the Atlantic and Eastern North Pacific Oceans", presented at the 26th Conference on Hurricanes and Tropical Meteorology.
- 2004. "Tropical Cyclone Frequency over the Atlantic and Eastern North Pacific", presented at the 100th Annual Meeting of the Association of American Geographers.
- 2003. "Rapid Intensification of Tropical Cyclones Over the Atlantic Ocean, presented at the 99th Annual Meeting of the Association of American Geographers.
- 2003. "Tropical Storm Barry (2001): A Case of Short-Term Rapid Intensification", presented at the 57th Interdepartmental Hurricane

Conference.

- 2002. "MPI, Shear and Rapid Intensification of Hurricanes", presented at the 25th Conference on Hurricanes and Tropical Meteorology.
- 2002. "Are There Thresholds for the Onset of Rapid Intensification of Hurricanes", presented at the 98th Annual Meeting of the Association of American Geographers.
- 2001. "Potential Intensities of Eastern North Pacific Tropical Cyclones from Reanalysis Data", presented at the 97th Annual meeting of the Association of American Geographers.
- 2001. "Are There Thresholds for the Onset of Rapid Intensification", presented at the 55th Interdepartmental Hurricane Conference.
- 2000. "Minimum Potential Pressures of Tropical Cyclones over the Eastern North Pacific Ocean", presented at the 24th Conference on Hurricanes and Tropical Meteorology.
- 2000. "Maximum Potential Intensities of Tropical Cyclones", presented at the 96th Annual Meeting of the Association of American Geographers.
- 1999. "Maximum Potential Intensities of Tropical Cyclones Near Socorro Island, Mexico", presented at the 95th Annual Meeting of the Association Of American Geographers.
- 1999. "The Maximum Potential Intensity of Tropical Cyclones Near Socorro Island, Mexico", presented at the 23rd Conference on Hurricanes and Tropical Meteorology.
- 1998. "A Comparison of Thermodynamic and Empirical Maximum Potential Intensities over the Eastern North Pacific Ocean", presented at the *Symposium on Tropical Cyclone Intensity Change*.
- 1998. "Maximum Potential Intensities of Tropical Cyclones over the Eastern North Pacific Ocean", presented at the 94th Annual Meeting of the Association of American Geographers.
- 1997. "The Effects of Climatological Factors on the Intensities of Tropical Cyclones over the Eastern North Pacific Ocean", presented at the 22nd Conference on Hurricanes and Tropical Meteorology.
- 1997. "Factors Affecting the Intensities of Eastern Pacific Tropical Cyclones", presented at the 93rd Annual Meeting of the Association of American Geographers.

- 1996. "Maximum Intensities of Hurricanes in the Eastern North Pacific Ocean", presented at the 92nd Annual Meeting of the Association of American Geographers.
- 1995. "The Relationship Between Sea Surface Temperature and the Maximum Intensity of Hurricanes in the Eastern North Pacific Ocean", presented At the 21st Conferences on Hurricanes and Tropical Meteorology.
- 1994, "An Improved Numerical Model of a Tropical Cyclone", presented at the 90th Annual Meeting of the Association of American Geographers.
- 1993. "Mesoscale Rainfall Distribution in Southern New England Associated with Hurricane Bob (1991)", presented at the 13th Conference on Weather Analysis and Forecasting.
- 1993. "Is there a Correlation Between the Frequencies of Tropical Cyclones in the Atlantic Ocean and in the Eastern North Pacific Ocean", presented at 20^{th} Conference on Hurricanes and Tropical Meteorology.
- 1993. "Are We Entering a Period of More Intense Atlantic Hurricanes", presented at the 89th Annual Meeting of the Association of American Geographers.
- 1992. "Climatological Aspects of the First Voyage of Christopher Columbus", presented at the 27th International Geographical Congress.
- 1992. "Feasibility of Using Short-Range Meteorological Predictions in the Lake Erie Information System", presented at the 35th Conference of the International Association for Great lakes Research.
- 1992. "Climatological Aspects of the First Voyage of Christopher Columbus", presented at the 88th Annual Meeting of the Association of American Geographers.
- 1991. "November/December Hurricanes in the 1980s", presented at the *19th Conference on Hurricanes and Tropical Meteorology.*
- 1991. "Late Season (November/December) Hurricanes in the 1980s", presented at the 87th Annual Meeting of the Association of American Geographers.
- 1989. "Animation of a Simulated Tropical Cyclone", presented at the *18th Conference on Hurricanes and Tropical Meteorology.*
- 1989. "Animation of a Simulated Tropical Cyclone", presented at the 85th Annual Meeting of the Association of American Geographers.

- 1988. "Ice-age Hurricanes and Tropical Storms", presented at the *First Ohio Supercomputer Symposium on Supercomputing.*
- 1988. "Computer Animation of a Simulated Tropical Cyclone", presented at the 43rd Meeting of the Southeastern Division of the Association of American Geographers.
- 1988. "Potential Tropical Cyclone Development During the Ice Age", presented at the 84th Annual Meeting of the Association of American Geographers.
- 1987. "A Five-layer Tropical Cyclone Model", presented at the 83rd Annual Meeting of the Association of American Geographers.
- 1986. "Parameterizing the effects of Cumuli in a Tropical Cyclone Model", presented at the 82nd Annual Meeting of the Association of American Geographers.
- 1985. "Cartographic Representation of Continuous Data Using Dot Density Shading", presented at the 81st Annual Meeting of the Association of American Geographers.
- 1984. "A Possible Mechanism for the Diurnal Oscillation of Tropical Cyclones", presented at the 80th Annual Meeting of the Association of American Geographers.
- 1983. "A Method for Including Radiative Fluxes in a Model Tropical Cyclone", presented at the 15th Annual Pittsburgh Conference on Modeling and Simulation.
- 1983. "Diurnal Oscillations in a Three-Dimensional Tropical Cyclone Model", presented at the 79th Annual Meeting of the Association of American Geographers.
- 1982. "Inclusion of Radiative Fluxes in Tropical Cyclone Model", presented at the 78th Annual Meeting of the Association of American Geographers.
- 1981. "An Attempt to Simulate Diurnal Oscillation of Tropical Cyclones", presented at the 77th Annual Meeting of the Association of American Geographers.
- 1980. "A Model Designed to Simulate Diurnal Oscillation of Tropical Cyclones", presented at the 76th Annual Meeting of the Association of American Geographers.

- 1979. "Tropical Cyclones Forecasting and Interactive Computer Graphics", presented at the *12th Conference on Hurricanes and Tropical Meteorology*.
- 1978. "An Experimental Model of Hurricane Prediction Using Interactive Computer Graphics", presented at the 74th Annual Meeting of the Association of American Geographers.
- 1978. "The Recognition of Weather Map Symbols", presented at the 74th Annual Meeting of the Association of American Geographers.
- 1977. "A Preliminary Experiment in Hurricane Prediction Using Interactive Computer Graphics", presented at the 11th Conference on Hurricanes And Tropical Meteorology.
- 1977. "An Examination of the Sensitivity of the Three-Dimensional Tropical Cyclone Model to Changes in Surface Parameterizations", presented at The 73rd Annual Meeting of the Association of American geographers.
- 1975. "The Use of a Circularly Symmetric Tropical Cyclone Model to Simulate the Development of a Cold Core Seedling", presented at the 71st Annual Meeting of the Association of American Geographers.

PROFESSIONAL SERVICE

- 1. National Service
 - Members Representative, University Corporation for Atmospheric Research.
 Panel reviewer, NOAA Office of Education (OEd) Educational Partnership Program (EPP) with Minority Serving Institutions (MSI)
- 2. State Service

1988-1989.	Member, Computer Graphics Equipment Committee,
	Ohio Supercomputer Center.

- 3. University Service
 - 2013-2014. Faculty Fellow, Office of Academic Affairs, Ohio State University.
 - 2013- . Member, Speakers Committee, Department of Geography, Ohio State University.

1995- 2014.	Director, Atmospheric Sciences Program, Ohio State University.
2011	Member, Faculty Awards Committee, Graduate School, Ohio State University
2012.	Member, Enhancing the Student Learning Experience Arts and Sciences Strategic Plan Working Group, Ohio State University
2008-2011.	Member, Council on Academic Affairs (CAA), Ohio State University.
2010-2011.	Co-chair, Council on Academic Affairs, Ohio State University
2009-2010.	Chair, Council on Academic Affairs, Ohio State University.
2009-2012.	Member, Executive Coordinating Committee for Semester Conversion, Ohio State University.
2009.	Chair, CAA Subcommittee B, Ohio State University
2008-2009.	Member, Environmental Sciences Task Force (ESTF), Ohio State University.
2008-2009.	Chair, ESTF Survey of Existing Programs Working Group, Ohio State University.
2007-2009.	Member, College of Social and Behavioral Sciences Curriculum Committee, Ohio State University.
2008-2009.	Chair, College of Social and Behavioral Sciences Curriculum Committee, Ohio State University.
2004-2007.	Member, Arts and Sciences Faculty Senate, Ohio State University.
2005-2008.	Member, Arts and Sciences Committee on Curriculum and Instruction (CCI), Ohio State University.
2007-2008	Chair, CCI Subcommittee B, Ohio State University.
2006-2007.	Chair, CCI Subcommittee C, Ohio State University.

2006-2007. Member, Task Force on the Requirements for the B.S. Degree, Ohio State University. Faculty Adviser, Meteorology Club, Ohio State University. 1996-2012. 2006-2012. Member, Undergraduate Curriculum Committee, Department of Geography, Ohio State University. Coordinator, Workshop for new Teaching Associates in 2001-2009. Geography, Ohio State University. 2002-2007. Member, Speakers Committee, Department of Geography, Ohio State University. 2001-2002. Course Coordinator for Geography 120, Ohio State University. 1996-1998. Member, Alumni Distinguished Teaching Awards Committee, Ohio State University. Chair, Graduate Committee, Atmospheric Sciences 1994-1995. Program, Ohio State University. Alternate, Research and Graduate Council, Ohio State 1991-1993. University. Member, Instructional Computing Advisory Committee, 1990-1993. Ohio State University. Chair, Curriculum Committee, Department of Geography, 1985-1987. University of Nebraska-Lincoln. 1984-1987. Course Coordinator for Geography 251, Meteorology Laboratory, University of Nebraska-Lincoln. 1984-1987. Chief Undergraduate Adviser for B.S. Degree in Meteorology/Climatology, University of Nebraska-Lincoln. 1982-1987. Member, Curriculum Committee, Department of Geography, University of Nebraska-Lincoln. 1984-1985. Chair, Search Committee, Department of Geography, University of Nebraska-Lincoln.

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

Member, Association of American Geographers.

Member, American Meteorological Society.