

**Christopher C. Hennon, Ph.D.**  
Chair and Professor, Department of Atmospheric Sciences  
The University of North Carolina at Asheville  
CPO #2450  
One University Heights  
Asheville, NC 28804-8511

Phone: (828) 232-5159  
Email: [chenon@unca.edu](mailto:chenon@unca.edu)

## Education

---

- 1998 - 2003            Ph.D. (Atmospheric Science)  
Ohio State University, Atmospheric Science Program, Department of Geography,  
Columbus, OH
- 1994 – 1996            Master of Science (Atmospheric Science)  
Purdue University, Department of Earth and Atmospheric Sciences,  
West Lafayette, IN
- 1991 – 1994            Bachelor of Arts (Aeronautics/Mathematics)  
Miami University, Department of Physics, Oxford, OH  
*cum laude with honors*

## Professional Employment

---

- 2017 -                    Professor, Department of Atmospheric Sciences  
University of North Carolina at Asheville  
Asheville, NC
- 2015 -                    Chair, Department of Atmospheric Sciences  
University of North Carolina at Asheville  
Asheville, NC
- 2014 -                    Cooperative Institute for Climate and Satellites (CICS) Visiting Research Scholar  
North Carolina State University  
Asheville, NC
- 2011 - 2017             Associate Professor, Department of Atmospheric Sciences  
University of North Carolina at Asheville  
Asheville, NC
- 2005 - 2011             Assistant Professor, Department of Atmospheric Sciences  
University of North Carolina at Asheville  
Asheville, NC
- 2004 - 2005             University Corporation for Atmospheric Research Visiting Scientist  
NOAA Tropical Prediction Center / National Hurricane Center  
Miami, FL
- 2004 - 2005             Adjunct Faculty, Department of Chemistry, Physics, and Earth Sciences,  
Miami Dade College, Miami, FL
- 2003 - 2004             University Corporation for Atmospheric Research Post-Doctoral Fellow  
NOAA Tropical Prediction Center / National Hurricane Center  
Miami, FL
- 2003                     Instructor, Department of Geography  
Ohio State University, Columbus, OH

2003, 1998-2001	Graduate Instructor Ohio State University, Columbus, OH
2001 – 2002	Research Assistant, Polar Meteorology Group Byrd Polar Research Center, Ohio State University, Columbus, OH
1996 – 1998	Meteorologist / Software Engineer TASC, Inc., Reading, MA
1994 – 1996	Research and Teaching Assistant Purdue University, West Lafayette, IN

## Teaching Experience

---

2017 -	<i>Professor</i> , University of North Carolina at Asheville, Asheville, NC
2011 - 2017	<i>Associate Professor</i> , University of North Carolina at Asheville, Asheville, NC
2005 - 2011	<i>Assistant Professor</i> , University of North Carolina at Asheville, Asheville, NC
2004	<i>Adjunct Faculty</i> , Miami-Dade College, Miami, FL
2003	<i>Instructor</i> , Ohio State University, Columbus, OH
1999 – 2001	<i>Graduate Instructor</i> , Ohio State University, Columbus, OH
1999 – 2001	<i>Lab instructor/teaching assistant</i> , Ohio State University, Columbus, OH
1994 – 1996	<i>Lab instructor/teaching assistant</i> , Purdue University, West Lafayette, IN

## Courses Taught

---

Introductory:	Introduction to Meteorology, Weather and History, Our Troubled Atmosphere, Geography in Meteorology, Mathematics in Meteorology, Weather Analysis
Climatology:	Physical Climatology, Applied Climatology, Fundamentals of Climate Change Science
Meteorology:	Kinematics and Dynamics, Tropical Meteorology, Weather Forecasting
Integrative:	Scientific Writing, Physical Oceanography
Other:	Racquetball

## Research Experience

---

2005 -	Collaborative research with undergraduates, including improving satellite wind retrievals, wind vector verification in tropical cyclones, tropical cloud cluster tracking, Asheville ozone pollutant observation and prediction, hurricane intensity change, and crowd sourcing hurricane intensity
2003 – 2005	<i>Post-Doctoral Research</i> . Improving passive and active wind retrievals in tropical cyclone environments.
1998 – 2003	<i>Doctoral Research</i> . Linking large-scale atmospheric and oceanic factors to tropical cyclogenesis probability through a neural network. Jay Hobgood, advisor. Atmospheric Science Program (Department of Geography), Ohio State University, Columbus, OH.

- 2001 – 2002      *Research Assistant.* Global climate modeling experiments using the NCAR Community Climate Model (CCM3) and regional analysis with the MM5. David Bromwich, advisor. Byrd Polar Research Center at Ohio State University, Columbus, OH.
- 1994 – 1996      *Research Assistant.* Large-scale atmospheric anomalies in the TOGA COARE domain. Dayton Vincent, advisor. Department of Earth and Atmospheric Sciences, Purdue University, West Lafayette, IN.

## Funded Projects/Initiatives

---

- 2014 – 2018      “ACES: A Scholarship Program for Atmospheric and Computer Science Exploratory Scholars”  
National Science Foundation (Co-Principal Investigator)  
\$613,609
- 2014 - 2016      “Cyclone Center: Toward a Global Reanalysis of the Tropical Cyclone Record”  
Risk Prediction Initiative (Principal Investigator)  
\$25,340
- 2010 – 2015      “Improved Active/Passive Ocean Vector Wind Retrievals”  
NASA ROSES 2009 (Co-Investigator)  
\$109,000 (\$608,000 grant total)
- 2010              “Enhancing Data Sharing at the University of North Carolina at Asheville to Foster Interdisciplinary Education, Research, and Community Outreach”  
Unidata Equipment Awards (Principal Investigator)  
\$16,000
- 2009 – 2011      “Enhancements to the Global Best Tracks Database (IBTrACS)”  
NOAA Climate Change Data and Detection (CCDD) Program (Collaborator)  
\$18,000 (\$269,000 grant total)
- 2006 – 2009      “Improved Ocean Vector Wind Retrievals in Extreme Wind Events”  
NASA ROSES 2005 (Co-Investigator)  
\$121,500 (\$502,000 grant total)

## Refereed Publications

---

- Phillips, C., D. Walshe, K.O. Regan, K. Strong, C.C. Hennon, K.R. Knapp, C. Murphy, and P.W. Thorne, 2017: Assessing Citizen Science Participation Skill for Altruism or University Course Credit. *Submitted, Citizen Science: Theory and Practice.*
- Knapp, K.R., J. Matthews, J.P. Kossin, and **C.C. Hennon**, 2016: Identification of Tropical Cyclone Storm Types Using Crowd Sourcing. *Monthly Weather Review*, **144**, 3783-3798.  
DOI: <http://dx.doi.org/10.1175/MWR-D-16-0022.1>
- Hennon, C.C.**, K.R. Knapp, C.J. Schreck III, S.E. Stevens, J.P. Kossin, P.W. Thorne, P.A. Hennon, M.C. Kruk, J. Rennie, J-M Gadea, M. Striegl, and I. Carley, 2015: Cyclone Center: Can Citizen Scientists Improve Tropical Cyclone Intensity Records? *Bulletin of the American Meteorological Society*, **96**, 591-607.  
DOI: <http://dx.doi.org/10.1175/BAMS-D-13-00152.1>
- Alsweiss, S., R. Hanna, P. Laupattarakasem, W.L. Jones, **C.C. Hennon**, and R. Chen, 2014: A Non-MLE Approach for Satellite Scatterometer Wind Vector Retrievals in Tropical Cyclones. *Remote Sensing*, **6**, 4133-4148,  
DOI: <http://dx.doi.org/10.3390/rs6054133>

- Hennon, C.C.**, P.P. Papin, C.M. Zarzar, J.R. Michael, J.A. Caudill, C.R. Douglas, W.C. Groetsema, J.H. Lacy, Z.D. Maye, J.L. Reid, M.A. Scales, M.D. Talley, and C.N. Helms, 2013: Tropical Cloud Cluster Climatology, Variability, and Genesis Productivity. *Journal of Climate*, **26**, 3046-3066.  
DOI: <http://dx.doi.org/10.1175/JCLI-D-12-00387.1>
- Hennon, C.C.**, 2012: Citizen Scientists Analyzing Tropical Cyclone Intensities. *EOS*, **93**, No. 40, 2 October 2012, pp. 285, 287. DOI: <http://dx.doi.org/10.1029/2012EO400002>
- Hennon, C.C.**, C.N. Helms, K.R. Knapp, and A.R. Bowen, 2011: An Objective Algorithm for Tracking Tropical Cloud Clusters: Implications for Tropical Cyclogenesis Prediction. *Journal of Atmospheric and Oceanic Technology*, **28**, 1007-1018.  
DOI: <http://dx.doi.org/10.1175/2010JTECHA1522.1>
- Knapp, K.R., S. Ansari, C.L. Bain, M.A. Bourassa, M.J. Dickinson, C. Funk, C.N. Helms, **C.C. Hennon**, C.D. Holmes, G.J. Huffman, J.P. Kossin, H-T Lee, A. Loew, and G. Magnusdottir, 2011: Globally Gridded Satellite (GridSat) Observations for Climate Studies. *Bulletin of the American Meteorological Society*, **92**, 893-907.  
DOI: <http://dx.doi.org/10.1175/2011BAMS3039.1>
- Laupattarakasem, P., W.L. Jones, **C.C. Hennon**, J.R. Allard, and A.R. Harless, 2010: Improved Hurricane Ocean Vector Winds using SeaWinds Active/Passive Retrievals. *IEEE Transactions on Geoscience and Remote Sensing*, **48**, 1-15. DOI: <http://dx.doi.org/10.1109/TGRS.2010.2043110>
- Brennan, M., **C.C. Hennon**, and R. Knabb, 2009: The Operational Use of QuikSCAT Ocean Vector Winds at the National Hurricane Center. *Weather and Forecasting*, **24**, 621-645.  
DOI: <http://dx.doi.org/10.1175/2008WAF2222188.1>
- Adams, I.S., **C.C. Hennon**, W.L. Jones, and K. Ahmad, 2006: Evaluation of Hurricane Ocean Vector Winds from WindSat. *IEEE Transactions on Geoscience and Remote Sensing*, **44**, No. 3, 656-667.  
DOI: <http://dx.doi.org/10.1109/TGRS.2005.862506>
- Hennon, C.C.**, C. Marzban, and J.S. Hobgood, 2005: Improving Tropical Cyclogenesis Statistical Model Forecasts through the Application of a Neural Network Classifier. *Weather and Forecasting*, **20**, 1073-1083.  
DOI: <http://dx.doi.org/10.1175/WAF890.1>
- Hennon, C.C.**, and J.S. Hobgood, 2003: Forecasting tropical cyclogenesis over the Atlantic Basin using large-scale data. *Monthly Weather Review*, **131**, 2927-2940.  
DOI: [http://dx.doi.org/10.1175/1520-0493\(2003\)131<2927:FTCOTA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0493(2003)131<2927:FTCOTA>2.0.CO;2)

## Manuscripts

---

- Hennon, C.C.**, and E. Wright, 2017: Modern Tropical Cyclone Wind Observation and Analysis. Hurricanes and Climate Change, Vol. 3 (Chapter 4), Springer, Jennifer Collins and Kevin Walsh, Editors, pp. 91-115, ISBN 978-3-319-47594-3. <http://www.springer.com/us/book/9783319475929>
- Hennon, C.C.**, 2006: Tropical Meteorology – A First Course. *Course Textbook* (unpublished), Department of Atmospheric Sciences, University of North Carolina at Asheville, 147 pp.
- Hennon, C.C.**, 2003: Investigating Probabilistic Forecasting of Tropical Cyclogenesis over the North Atlantic Using Linear and Non-linear Classifiers. Dissertation, Department of Geography, The Ohio State University, 164 pp. <http://library.ohio-state.edu/record=b5637263~S7>
- Hennon, C.C.**, and D.G. Vincent, 1996: Climatology during the TOGA-COARE Intensive Observing Period (November 1992 – February 1993) compared to a recent climatology (1985-1990). Purdue University, 95 pp.
- Hennon, C.C.**, 1996: Large-scale Atmospheric Conditions for TOGA-COARE IOP Compared to a Recent Climatology. Masters Thesis, Department of Earth and Atmospheric Sciences, Purdue University, 149 pp.
-

## Conference Proceedings

---

- Hennon, C.C.**, 2014: Crowd Sourcing Science. *International Workshop on Tropical Cyclones (IWTC)-VIII*, World Meteorological Organization, Jeju, South Korea.  
[http://www.wmo.int/pages/prog/arep/wwrp/new/documents/SF1c\\_CrowdSourcingScience.pdf](http://www.wmo.int/pages/prog/arep/wwrp/new/documents/SF1c_CrowdSourcingScience.pdf)
- Hennon, C.C.**, C.N. Helms, and K.R. Knapp, 2010: Toward a Global Climatology of Tropical Cloud Clusters. *29<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Tucson, AZ.  
<https://ams.confex.com/ams/pdfpapers/167841.pdf>
- Laupattarakasem, P., W. L. Jones, **C.C. Hennon**, P. Black, J.R. Allard, and A.R. Harless, 2008: Q-Winds satellite hurricane wind retrievals and H\*Wind comparisons. *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Orlando, FL.  
<https://ams.confex.com/ams/pdfpapers/137942.pdf>
- Ruf, C.S., A.M. Mims, and **C.C. Hennon**, 2008: The Dependence of the Microwave Emissivity of the Ocean on Hurricane Force Wind Speed. *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Orlando, FL. <https://ams.confex.com/ams/pdfpapers/136616.pdf>
- Jones, W.L., P.G. Black, S.S. Chen, R.E. Hood, J.W. Johnson, C.S. Ruf, A. Mims, and **C.C. Hennon**, 2008: Next Generation Airborne Hurricane Imaging Radiometer (HIRad) – Improved Forecast Skill with Wide Field Imagery. *Tropical Meteorology Special Symposium*, American Meteorological Society, New Orleans, LA.  
<https://ams.confex.com/ams/pdfpapers/134825.pdf>
- Hennon, C.C.**, D. Long, and F. Wentz, 2006: Validation of QuikSCAT Wind Retrievals in Tropical Cyclone Environments. *14<sup>th</sup> Conf. on Satellite Meteorology and Oceanography*, American Meteorological Society, Boston, MA. <https://ams.confex.com/ams/pdfpapers/99478.pdf>
- Adams, I., **C.C. Hennon**, W.L. Jones, and K. Ahmad, 2005: Hurricane Wind Vector Measurements from WindSat Polarimetric Radiometer. *IGARRS 2005*, IEEE, New York, NY, Vol. 6, pp 4014-4017.
- Jones, W.L., I.S. Adams, and **C.C. Hennon**, 2005: Hurricane Wind Vector Measurements from WindSat Polarimetric Radiometer. *59<sup>th</sup> Inter-Departmental Hurricane Conference*, Jacksonville FL.
- Hennon, C.C.**, 2004: A Statistical Model for Forecasting Tropical Cyclogenesis over the Atlantic Basin. *26<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Boston, MA, pp. 76-77. <https://ams.confex.com/ams/pdfpapers/75273.pdf>
- Hines, K.M., **C.C. Hennon**, and D.H. Bromwich, 2003: Antarctic Sea Ice and a West Pacific Teleconnection in the NCAR Community Atmosphere Model. *7<sup>th</sup> Conference on Polar Meteorology and Oceanography*, American Meteorological Society, Hyannis, MA. <https://ams.confex.com/ams/7POLAR/webprogram/Paper61530.html>
- Hennon, C.C.**, 2002: Prospects for Operational Tropical Cyclogenesis Forecasting. *25<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Boston, MA, pp. 224-225.  
<https://ams.confex.com/ams/pdfpapers/36725.pdf>
- Hennon, C.C.**, 2000: A Climatology of Hurricane Maximum Potential Intensity in the Atlantic Basin. *24<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Boston, MA, pp. 7-8.
- Hennon, C.C.**, and D.G. Vincent, 1997: Large-scale Atmospheric Conditions during TOGA-COARE IOP Compared to a Recent Climatology. *7<sup>th</sup> Conference on Climate Variations*, American Meteorological Society, Boston, MA, pp. 292-295.

## Poster Presentations (\* = Presenting Author)

---

- Hennon, C.C.\***, M. Kruk, K.R. Knapp, C. Schreck III, J.P. Kossin, and P. Thorne, 2016: Determining Uncertainty In Historical Tropical Cyclone Intensity Analyses. *32<sup>nd</sup> Conference on Hurricanes and Tropical Meteorology*, San Juan, Puerto Rico.

- Hennon, C.C.\***, K.R. Knapp, C.J. Schreck III, S.E. Stevens, and J.P. Kossin, 2015: Cyclone Center.org: Crowd Sourcing Hurricane Intensity. Poster 634, *20<sup>th</sup> Conference on Satellite Meteorology and Oceanography*, American Meteorological Society, Phoenix, AZ.
- Hennon, C.C.\***, K.R. Knapp, C.J. Schreck III, S.E. Stevens, and J.P. Kossin, 2013: Cyclone Center: Using Crowd Sourcing to Determine Tropical Cyclone Intensity. Poster IN23B-1426, *American Geophysical Union Annual Meeting*, San Francisco, CA.
- Hennon, C.C.**, K.R. Knapp, P.A. Hennon, J. Kossin, M. Kruk, J. Rennie, C. Schreck, L. Stevens, S. Stevens, and P. Thorne\*, 2012: CycloneCenter.org: Crowd Sourcing to Improve the Global Tropical Cyclone Record. *Extreme Meteorological Events Workshop*, Environmental Change Institute, University of Oxford, England.
- Hennon, C.C.\***, C.N. Helms, and K.R. Knapp, 2010: Toward a Global Climatology of Tropical Cloud Clusters. *29<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Tucson, AZ.
- Semazzi, F.H.M., S. Byrd, L. Bernstein, G. Comstock, M. Correa, J. Fountain, J.Fox, **C.C. Hennon\***, and co-authors, 2010: Developing an Interdisciplinary Graduate Program in Climate Change and Society. *19<sup>th</sup> Symposium On Education*, American Meteorological Society, Atlanta, GA.
- Helms, C.N., **C.C. Hennon\***, and K.R. Knapp, 2009: Augmenting Global Best Track Databases with Tropical Cloud Clusters. *World Meteorological Organization IBTrACS Users Workshop*, National Climatic Data Center, Asheville, NC.
- Jones, W.L.\* , P. Laupattarakasem, and **C.C. Hennon**, 2009: "Q-Winds OVV Retrievals in Extreme Wind Events". 2009 NASA Ocean Vector Winds Science Team Meeting (May 2009), Boulder, CO.  
[https://coaps.fsu.edu/scatterometry/meeting/docs/2009\\_may/abstracts/posters/jones2.pdf](https://coaps.fsu.edu/scatterometry/meeting/docs/2009_may/abstracts/posters/jones2.pdf)
- Helms, C.N.\* , **C.C. Hennon**, and K.R. Knapp, 2008: An Objective Algorithm for the Detection and Tracking of Tropical Convective Cloud Clusters. *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Orlando, FL.  
[https://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_138235.htm](https://ams.confex.com/ams/28Hurricanes/techprogram/paper_138235.htm)
- Jones, W.L.\* , P.G. Black, S.S. Chen, R.E. Hood, J.W. Johnson, C.S. Ruff, A. Mims, and **C.C. Hennon**, 2008: "Next Generation Airborne Hurricane Imaging Radiometer (HIRad) – Improved Forecast Skill with Wide Field Imagery". *Tropical Meteorology Special Symposium, 20<sup>th</sup> Conference on Climate Variability and Change*, American Meteorological Society, New Orleans, LA.  
[https://ams.confex.com/ams/88Annual/techprogram/paper\\_134825.htm](https://ams.confex.com/ams/88Annual/techprogram/paper_134825.htm)
- Hennon, C.C.\***, J.R. Allard, and A.R. Harless, 2007: Using Objective Analyses (H\*Wind) in Tropical Cyclone Wind Verification. *2007 EUMETSAT Meteorological Satellite Conference and 15<sup>th</sup> Conference on Satellite Meteorology and Oceanography*, American Meteorological Society, Amsterdam, Netherlands.
- Mims, A.\* , C. Ruf, and **C.C. Hennon**, 2007: WindSat Emissivity Sensitivity to Near Surface Wind Field in a Tropical Cyclone. *Michigan Space Grant Regional Conference*, Purdue University, West Lafayette, IN.
- Hennon, C.C.**, D.G. Long\*, and F.J. Wentz, 2006: Validation of QuikSCAT Wind Retrievals in Hurricanes. *27<sup>th</sup> Conference on Hurricanes and Tropical Meteorology (Monterey, CA)*, American Meteorological Society, Boston, MA.
- Hennon, C.C.\***, 2001: Representation of Incipient Tropical Cyclone Cloud Clusters in the NCEP/NCAR Reanalysis, *Association of American Geographers*, New York, NY.

#### Conference and Meeting Presentations (\* = Presenting Author)

---

- Hennon, C.C.\***, 2017: "Cyclone Center: A Community Reanalysis". *Global Tropical Cyclone Reanalysis Workshop*, Asheville, NC.
- Thorne, P.\* , **C.C. Hennon** and co-authors, 2015: "Cyclone Center: Insights on Historical Tropical Cyclones from Citizen Volunteers". *2015 American Geophysical Union Annual Meeting*, San Francisco, CA.  
<https://agu.confex.com/agu/fm15/meetingapp.cgi/Paper/67471>

- Hennon, C.C.\***, 2014: "Cyclone Center: Using Citizen Science to Reconcile Global Tropical Cyclone Intensity". *Risk Prediction Initiative (RPI) Research Update Workshop*, Hamilton, Bermuda (September 2014).
- Hennon, C.C.\***, and coauthors, 2014: "Toward a Homogeneous Global Tropical Cyclone Intensity Record". *31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology* (April 2014), American Meteorological Society, San Diego, CA. <https://ams.confex.com/ams/31Hurr/webprogram/Paper245064.html>
- Laupattarakasem, P.\*, S. Alsheiss, W.L. Jones, and **C.C. Hennon**, 2011: A Novel Ocean Vector Winds Retrieval Technique for Tropical Cyclones. *IGARRS 2011*, IEEE, Vancouver, Canada.
- Hood, R.E.\*, R. Atlas, P. Black, S.S. Chen, **C.C. Hennon**, J.W. Johnson, W.L. Jones, T.L. Miller, C.S. Ruff, and E.W. Uhlhorn, 2008: "An overview of the Hurricane Imaging Radiometer (HIRad)". *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology* (April 2008), American Meteorological Society, Orlando, FL. [https://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_138363.htm](https://ams.confex.com/ams/28Hurricanes/techprogram/paper_138363.htm)
- Laupattarakasem, P.\*, W.L. Jones, **C.C. Hennon**, P. Black, J. Allard, and A. Harless, 2008: "Q-Winds Satellite Hurricane Wind Retrievals and H\*Wind Comparisons". *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology* (April 2008), American Meteorological Society, Orlando, FL. [https://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_137942.htm](https://ams.confex.com/ams/28Hurricanes/techprogram/paper_137942.htm)
- Miller, T.L.\*, R. Atlas, P. Black, S.S. Chen, **C.C. Hennon**, and coauthors, 2008: "Simulation of the Impact of New Ocean Surface Wind Measurements on H\*Wind Analyses". *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology* (April 2008), American Meteorological Society, Orlando, FL. [https://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_138352.htm](https://ams.confex.com/ams/28Hurricanes/techprogram/paper_138352.htm)
- Ruf, C.S.\*, A.M. Mims, and **C.C. Hennon**, 2008: "The Dependence of the Microwave Emissivity of the Ocean on Hurricane Force Wind Speed". *28<sup>th</sup> Conference on Hurricanes and Tropical Meteorology* (April 2008), American Meteorological Society, Orlando, FL. [https://ams.confex.com/ams/28Hurricanes/techprogram/paper\\_136616.htm](https://ams.confex.com/ams/28Hurricanes/techprogram/paper_136616.htm)
- Jones, W.L.\*, P. Laupattarakasem, and **C.C. Hennon** and co-authors, 2008: "Improved OVW Retrievals in Extreme High Wind Events Using QuikSCAT, 2008 NASA Ocean Vector Winds Science Team Meeting (November 2008), Seattle, WA. <https://coaps.fsu.edu/scatterometry/meeting/docs/2008/new/jones.pdf>
- Jones, W.L., P. Laupattarakasem, **C.C. Hennon\***, J.Allard, and A. Harless, 2007: "Improved SeaWinds Active/Passive Hurricane Wind Speed Retrievals and H-Wind Comparisons". NASA Ocean Vector Winds Science Team Symposium (September 2007), Amsterdam, The Netherlands.
- Adams, I.S.\*, Z. Jelenak, **C.C. Hennon**, and W.L. Jones, 2006: "Evaluation of WindSat Ocean Vector Wind Retrievals In Tropical Cyclones". *27<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Monterrey, CA. [https://ams.confex.com/ams/27Hurricanes/techprogram/paper\\_108925.htm](https://ams.confex.com/ams/27Hurricanes/techprogram/paper_108925.htm)
- Hennon, C.C.\***, 2005: "Issues in Surface Wind Vector Validation in Tropical Cyclones", NASA Ocean Vector Winds Science Team Meeting, Seattle, WA (March 2005).
- Hennon, C.C.\***, 2004: "Comparison of QuikSCAT and WindSat Wind Vectors in Hurricane Fabian (2003)", WindSat Cal/Val and Science Meeting (November 2004).
- Hennon, C.C.\***, 2004: "Impacts and Challenges of Integrating QuikSCAT into TPC Operations". Southern Region Marine Conference, Miami, FL (March 2004).
- Hennon, C.C.\***, 2003: "Probabilistic Tropical Cyclogenesis Forecasting". *3<sup>rd</sup> Conference on Artificial Intelligence*, American Meteorological Society (February 2003).
- Hennon, C.C.\***, 2002: "Prospects for Operational Tropical Cyclogenesis Forecasting." *25<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, San Diego, CA (May 2002). [https://ams.confex.com/ams/25HURR/techprogram/paper\\_36725.htm](https://ams.confex.com/ams/25HURR/techprogram/paper_36725.htm)
- Hennon, C.C.\***, 2000: "A Climatology of Hurricane Maximum Potential Intensity in the Atlantic Basin." *24<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, Ft. Lauderdale, FL (June 2000). <https://ams.confex.com/ams/last2000/webprogram/Paper12624.html>

**Hennon, C.C.\***, 2000: "The Next Generation of the OSU Weather Website." *4<sup>th</sup> Annual Ohio State Severe Weather Symposium*, Columbus, OH (April 2000).

## Invited Presentations

---

**Hennon, C.C.**, and K.R. Knapp, 2016: "Toward a Global Homogeneous Tropical Cyclone Data Record". *Invited Speaker, NOAA National Hurricane Center and Hurricane Research Division*, Miami, FL (October 2016).

**Hennon, C.C.\***, 2015: "Climate Change Observations and Projections for the Southeast United States". *2015 Blue Ridge Parkway Research and Science Symposium*, Asheville, NC (April 2015).

**Hennon, C.C.\***, 2015: "Chasing Ice" (Panel Discussion Member). Sponsored by the UNC Asheville Divestment Coalition, Asheville, NC (April 2015).

**Hennon, C.C.\***, 2015: "Cyclone Center: Why You Should Care that Historical Tropical Cyclone Data Are Poor and What You Can Do About It". *American Meteorological Society Asheville Chapter Meeting*, Asheville, NC (April 2015).

**Hennon, C.C.\***, 2014: "Cyclone Center and Tropical Cyclones". *Google Hangout Broadcast with KOCO-TV*, Oklahoma City, OK (July 2014).

**Hennon, C.C.\***, 2013: "Cyclone Center: Making Grandparents into Scientists", *UNC Asheville Brown Bag Seminar*, Asheville, NC (September 2013).

**Hennon, C.C.\***, 2011: "Climate Change and Tropical Cyclones: An Increasing Threat to North Carolina?" *AB-Tech Institute for Climate Education*, Asheville, NC (October 2011).

**Hennon, C.C.\***, 2006: "Season on Edge: The Historic 2005 Atlantic Hurricane Season". *9<sup>th</sup> Atmospheric Science Librarians International Conference*, American Meteorological Society, Atlanta, GA (February 2006).

**Hennon, C.C.\***, 2004: "WindSat Mission and Wind Vector Retrievals in Tropical Cyclones", *Tropical Prediction Center/National Hurricane Center Seminar*, Miami, FL (December 2004).

**Hennon, C.C.\***, 2003: "Objective Forecasting of Tropical Cyclogenesis". *Tropical Prediction Center/National Hurricane Center Seminar*, Miami, FL (December 2003).

**Hennon, C.C.\***, 2002: "Forecasting Tropical Cyclogenesis Using Large-Scale Data." *Ohio State University Geography Colloquium Series*, Columbus, OH (December 2002).

**Hennon, C.C.\***, 2002: "Forecasting Tropical Cyclogenesis: Current Approaches and Future Possibilities." *NASA Goddard Space Flight Center Mesoscale Atmospheric Processes Branch* (September 2002).

**Hennon, C.C.\***, 2001: "A Probabilistic Real-Time Prediction Scheme for Tropical Cyclogenesis over the Atlantic Basin." *Ohio State University Geography Colloquium Series*, Columbus, OH (May 2001).

**Hennon, C.C.\***, 2000: "Weather Data Ingest and Visualization at Ohio State." *American Meteorological Society Dayton Chapter seminar series*, Dayton, OH (November 2000).

**Hennon, C.C.\***, 1999: "New Capabilities for Interactive Weather Data Analysis and Visualization." *Ohio State Atmospheric Science Program Seminar*, Columbus, OH (October 1999).

## Student Research Projects Mentored

---

Published or Presented, Independent Projects (not class-related):

Clark, W.M., 2016: Modeling tropical cyclone damage risk using parametric wind profiles and real-time forecast advisories. Presentation, NOAA National Hurricane Center and Hurricane Research Division, Miami, FL.



- Wright, E., 2015: Exploring a Global Climatology of Tropical Cyclone Eye Sizes. Presentation, UNC Asheville Spring Research Symposium, Asheville, NC.
- Turnau, R., 2015: Improving Atlantic Hurricane Intensity Forecasts Using Neural Networks. Presentation, UNC Asheville Spring Research Symposium, Asheville, NC.
- Hargrove, Z., 2012: Lightning and Tropical Tornadogenesis. Preprints, *2012 BigSURS Conference*.
- Hargrove, Z., 2011: Validating a New Algorithm for Wind Vector Retrievals in Tropical Cyclones. Presentation, UNC Asheville Spring Research Symposium, 2012 BigSURS Conference (Winthrop University).
- Papin, P.P., 2011: Using the Rossby Radius of Deformation as a Forecasting Tool for Tropical Cyclogenesis. Preprints, *25<sup>th</sup> National Conference on Undergraduate Research*, Ithaca College, Ithaca, NY. Presentation, 2010 UNC Asheville Spring Research Symposium.
- Helms, C.N., 2009: An Objective Algorithm for the Identification of Convective Tropical Cloud Clusters in Geostationary Infrared Imagery. Paper, *UNC Asheville Journal*, Presented at 2008 UNC Asheville Spring Research Symposium and 2009 Big South Undergraduate Research Symposium.
- Ross, L., 2009: Developing 'First-Guess' Wind Fields for Tropical Cyclone Analyses in H\*Wind. Preprints, *23<sup>rd</sup> National Conference on Undergraduate Research*, University of Wisconsin-La Crosse, La Crosse, WI.
- Stone, M., 2008: Asheville Air Quality. Presentation, UNC Asheville Spring Research Symposium, Asheville, NC.
- Allard, J.R., 2007: Using H\*Wind to Improve Satellite-Based Wind Measurements in Tropical Cyclones. Poster, UNC Asheville Spring Research Symposium, Asheville, NC.
- Cromer, B., 2007: Oceanic and Atmospheric Forcings of Tropical Cyclone Rapid Intensification in the Gulf of Mexico During the 2005 Atlantic Hurricane Season. Presentation, UNC Asheville Spring Research Symposium, Asheville, NC.
- Erb, M.P., 2006: A Case Study of Hurricane Katrina: Rapid Intensification in the Gulf of Mexico. Preprints, *20<sup>th</sup> National Conference on Undergraduate Research*, Asheville, NC.
- Harless, A.R., 2006: Tropical Cyclone Hyperactivity in the Eastern and Central Caribbean Sea During the 2005 Atlantic Hurricane Season. Preprints, *20<sup>th</sup> National Conference on Undergraduate Research*, Asheville, NC.

Published Work (class related):

Hennon, C.C., P.P. Papin, C.M. Zarzar, J.R. Michael, J.A. Caudill, C.R. Douglas, W.C. Groetsema, J.H. Lacy, Z.D. Maye, J.L. Reid, M.A. Scales, M.D. Talley, and C.N. Helms, 2013: Tropical Cloud Cluster Climatology, Variability, and Genesis Productivity. *Journal of Climate*, **26**, 3046-3066.  
DOI: <http://dx.doi.org/10.1175/JCLI-D-12-00387.1>

## Reviewed Papers

---

Bulletin of the American Meteorological Society (1)  
 International Journal of Climatology (1)  
 Geophysical Research Letters (1)  
 Journal of Applied Meteorology (1)  
 Journal of Climate (1)  
 Journal of Geophysical Research – Atmospheres (2)  
 Monthly Weather Review (5)  
 National Science Foundation Grant Proposal (1)  
 Remote Sensing (1)  
 Risk Analysis: An International Journal (1)  
 Transactions on Geoscience and Remote Sensing (1)  
 Weather and Forecasting (1)

---

## Professional memberships

---

2003 – American Geophysical Union  
1996 – American Meteorological Society

## Awards and honors

---

2016 The Scholarly and Creative Achievement Award (UNC Asheville)  
*Recognition of scholarship achievements from 2011-2016*

2016 UNC Asheville Teaching Award (Nominated)

2012 Faculty/Staff National Champion, WxChallenge Forecast Competition (Miami, FL)

2004 NOAA Gold Medal (Team Award, Hurricane Isabel support)

2003, 2002 Council of Graduate Students (OSU) Professional Development Fund award

2001, 1999 American Meteorological Society student travel grant

1998 Selected participant, University Corporation for Atmospheric Research Advanced Study Program "Hurricanes at Landfall"

1994 Commencement speaker, Miami University, Oxford, OH

1991 Chapman scholar