

**Lourdes B. Avilés**

Professor of Meteorology

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**EDUCATION**

- Ph.D. Atmospheric Sciences - 2004 - University of Illinois at Urbana-Champaign
- M.S. Physics - 1997 - University of Puerto Rico, Mayagüez
- B.S. Physics - 1992 - University of Puerto Rico, Mayagüez

**WORK EXPERIENCE**

- 2015-present – Professor of Meteorology
  - o 2017-present – Meteorology Program coordinator
- 2009-2015 – Associate Professor of Meteorology
- 2004-2009 – Assistant Professor of Meteorology  
(2004-2006 – Faculty-in-Residence)  
Meteorology and Physics Disciplines, Exploration and Discovery Cluster (2018-present)  
Department of Atmospheric Science and Chemistry (2007-2018)  
Department of Chemical, Earth, Atmospheric and Physical Sciences (2004-2007)  
Plymouth State University, Plymouth, NH
- 1996-2004 –Teaching/ Research Assistant (Atmospheric Sciences)  
Department of Atmospheric Sciences  
University of Illinois at Urbana-Champaign, Urbana, IL
- 1993-1995 – Adjunct Faculty (Mathematics, Physical Sciences)  
Department of Mathematics and Sciences  
Pontifical Catholic University of Puerto Rico, Mayagüez, PR
- 1992-1996 – Teaching/Research Assistant (Physics)  
Department of Physics  
University of Puerto Rico, Mayagüez, PR
- 1990-1992 – Summer Intern (Research Technician, Programmer, Data Analyst)  
Research (1992), Computing (1991) and Physics (1990) Departments  
Fermi National Accelerator Laboratory, Batavia, IL

**TEACHING AREAS AND INTERESTS**

- Have taught a variety of atmospheric science courses throughout the B.S. Meteorology core curriculum, as well as upper level elective and M.S. applied and specialized courses, and general education courses for non-majors
- Current course rotation:  
Dynamic Meteorology I and II, Atmospheric Physics, Air Quality, Tropical Weather and Climate, Severe and Hazardous Weather, Undergraduate Research, Graduate Thesis Research, Scientific Writing Workshop
- Courses previously taught (atmospheric sciences and meteorology):  
Introduction to Meteorology, Weather, Weather Laboratory, Climatology, Weather and Climate, Radio Forecasting Practicum, Multimedia Forecasting Practicum, Graduate Seminar
- Courses previously taught (physics and mathematics):  
Physical Sciences, Physics Laboratory for Engineers, Physics Laboratory for Biologists, College Algebra, Pre-Calculus, Remedial Mathematics

- Course ideas for potential future development:
  - History of Meteorology (special topic: upper level elective for majors, or general education past-and-present course), Climate, Weather and Society (past and present direction for general education program), Weather for Teachers (scientific inquiry direction for general education program)
- Interested in curriculum revision and development
  - o Current with American Meteorological Society curricular guidelines
  - o Fine-tune based on lessons learned, staffing resources, new general education program, new university guidelines

## RESEARCH AREAS AND INTERESTS

- History of Meteorology (currently active research)
  - Integrated history and science of atmospheric phenomena (atmospheric optics, etc.)
  - Integrated history and science of past weather events (hurricanes, blizzards, etc.)
  - Integrated history and science of weather folklore, sayings and myths
  - History of hurricane knowledge, forecasting, monitoring and general practices
  - History of forecasting, atmospheric monitoring (instrumentation) and data visualization
  - Historical figures in meteorology and related sciences
- Other areas of interest and past research
  - Atmospheric Optics
  - African easterly waves
  - Objective air quality forecasting methods
  - Air pollution meteorology case studies
  - Atmospheric Physics/Dynamics
  - Physical climatology and climate change
  - Societal impacts of weather and climate
  - Severe weather science and history
  - Pedagogy/best practices
  - Development/implementation of active learning activities
  - Appropriate use of technology in the classroom

## SELECT PUBLICATIONS AND PRESENTATIONS

Avilés, L. B., 2018: *Taken by Storm, 1938: A Social and Meteorological History of the Great New England Hurricane*, 2<sup>nd</sup> Ed.. American Meteorological Society, 384 pp.

Avilés, L. B., 2015: *North Carolina's Hurricane History, 4<sup>th</sup> Ed., by Jay Barnes*. Book Review. *Environmental History* 19(2), 375-377 pp.

Avilés, L. B., 2014: *Fire Island Past, Present, and Future: The Environmental History of a Barrier Beach*. Book Review. *Environmental History* 19(2), 375-377 pp.

Avilés, L. B., 2013: *Taken by Storm, 1938: A Social and Meteorological History of the Great New England Hurricane*. American Meteorological Society, 384 pp.

Nielsen-Gammon, J. W., L. B. Avilés and E. Joseph, 2009: What Does it Take to Get Into Graduate School. *Bull. Amer. Meteor. Soc.*, 90, 1698-1705.

Mock, C. J., D. O. Mayes, J. Simmons, E. Rohland, and L. B. Avilés, 2015: A Temporal and Spatial Approach on the Memory of Hurricanes and Typhoons. 16<sup>th</sup> International Conference of Historical Geographers, London, UK.

Avilés, L. B., 2015: Taken by Nature: The Science, History and Art of the Great New England Hurricane of 1938. Force of Nature: Exploring the Power of the Feminine Juried Exhibition invited presentation. Women's Caucus for Art, Karl Drerup Gallery, Plymouth, NH

Hoffman, E. G., L. B. Avilés, S. Miller, B. Hoch, and J. M. Cordeira, 2015: NOAA ESRL Snow Level Radar Observations of Mixed Precipitation Events in Plymouth, NH. 40<sup>th</sup> Annual Northeastern Storm Conference, Saratoga Springs, NY.

Avilés, L. B., 2014: Using Historical Data to Inform a General-Audience-Level Narrative of the Great New England Hurricane of 1938. 31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology, San Diego, CA.

Avilés, L. B., 2014: Finding the Storm: Resource and Archival Research on the Great New England Hurricane of 1938. 17<sup>th</sup> Conference of Atmospheric Science Librarians International, 94<sup>rd</sup> Annual Meeting of the American Meteorological Society, Atlanta, GA.

Avilés, L. B., 2014: Seventy Five Years Later: Little Known, Updated and New Information Related to the Great New England Hurricane of 1938. 12<sup>th</sup> History Symposium, 94<sup>rd</sup> Annual Meeting of the American Meteorological Society, Atlanta, GA.

Avilés, L. B., 2014: Introducing General Audiences to Atmospheric Science Topics through Historical Weather Events: The Great New England Hurricane of 1938. 23<sup>rd</sup> Symposium on Education, 94<sup>rd</sup> Annual Meeting of the American Meteorological Society, Atlanta, GA.

Avilés, L. B., 2014: Seventy Five Years Later: Little Known, Updated, and New Information Related to the Great New England Hurricane of 1938. 39<sup>th</sup> Northeastern Storm Conference, Rutland, VT

Avilés, L. B., D. Vallee, B. Avery and S.A. Jasko, 2014: The 1938 Hurricane, a Junior Forecaster, and Public Understanding. 105<sup>th</sup> Annual Eastern Communication Association Convention, Providence, RI.

Avilés, L. B. (curator), 2013: The Great Blowdown: Effects of the 1938 Hurricane in Northern New England. Museum of the White Mountains panel exhibit.

Avilés, L. B., 2013: 75 Years After the Great New England Hurricane. 14<sup>th</sup> Southern New England Weather Conference, Canton, MA

Avilés, L. B., 2013: On the Nuances Associated with Analyzing Historical Rainfall Observations before and during the Great New England Hurricane of 1938. 11<sup>th</sup> History Symposium, 93<sup>rd</sup> Annual Meeting of the American Meteorological Society, Austin, TX.

Avilés, L. B., 2013: On the Actions and Inaction of the U.S. Weather Bureau During the Great New England Hurricane of 1938. 38<sup>th</sup> Northeastern Storm Conference, Rutland, VT

Avilés, L. B., 2012: On the Actions and Inaction of the U.S. Weather Bureau During the Great New England Hurricane of 1938. 10<sup>th</sup> History Symposium, 92<sup>rd</sup> Annual Meeting of the American Meteorological Society, New Orleans, LA.

Nielsen-Gammon, J. W., L. B. Avilés, A. Hansen, A. Roebuck, J. Horel, 2010: Bachelor's Degree in Atmospheric Science: an Information Statement of the American Meteorological Society (adopted by the AMS Council on 22 September 2010). [Available online at [http://www.ametsoc.org/policy/2010degree\\_atmosphericsscience\\_amsstatement.html](http://www.ametsoc.org/policy/2010degree_atmosphericsscience_amsstatement.html)]

Avilés, L. B., 2007: Integration of Lecture, Laboratory and Hands-On Activities in an Introductory Severe Weather Course for Non-Majors. 16<sup>th</sup> Symposium on Education, 87<sup>th</sup> Annual Meeting of the American Meteorological Society, San Antonio, TX.

Bixby, B., K. Franceour, L. Landry, L. B. Avilés, E. G. Hoffman, J. K. Koermer, S. T., Miller and J. Zabransky, 2007: Development of Regional Ozone Case Studies as Tools for Air Quality Forecasting. 8<sup>th</sup> Conference in Atmospheric Chemistry, 87<sup>th</sup> Annual Meeting of the American Meteorological Society, San Antonio, TX.

Hoch, B. and L. B. Avilés, 2007: Using Podcasts to Distribute Real Time Multimedia Meteorological Products. 16<sup>th</sup> Symposium on Education, 87<sup>th</sup> Annual Meeting of the American Meteorological Society, San Antonio, TX.

Avilés, L. B., 2006: The Pakistani Teachers Institute 2005-2006. 7<sup>th</sup> International Conference on School and Popular Meteorological and Oceanographic Education, Boulder, CO.

Avilés, L. B., 2006: Meteorology Week – Pakistani Teachers Institute 2005. 15<sup>th</sup> Symposium on Education, 86<sup>th</sup> Annual Meeting of the American Meteorological Society, Atlanta, GA.

Avilés, L. B., 2006: Why So Many Hurricanes? Is Global Warming to Blame? Plymouth Magazine, XXII, 14-15.

Avilés, L. B., 2004: *African Easterly Waves: Their Evolution and Their Role in Tropical Cyclone Formation*. Ph.D. Dissertation, University of Illinois, 211 pp.

Bramer, D. J., D. Charlevoix, G. McFarquhar, R. Herman, L. B. Avilés, L. DiGirolamo, M. Ramamurthy, R. Wilhelmson, 2003: Developing Interactive Models to Support a Digital Collection of Earth System Science Resources. 12<sup>th</sup> Symposium on Education, 83<sup>rd</sup> Meeting of the American Meteorological Society, Long Beach, CA.

Charlevoix, D. and L. B. Avilés: 2003: Assessment of Interactive, Hands-On Meteorology Exercises in a Course of Undergraduate Non-Majors. Extended abstract, 12<sup>th</sup> Symposium on Education, 83<sup>rd</sup> Meeting of the American Meteorological Society, Long Beach, CA.

Avilés, L. B., 2000: The Energetics of the African Easterly Wave Life Cycle: A Case Study. Extended Abstract, 24<sup>th</sup> Conference on Hurricanes and Tropical Meteorology, Fort Lauderdale, FL.

Avilés, L. B., 1999: Tropical Easterly Wave Activity Observed Using NCEP/NCAR Reanalysis Data. Extended Abstract, 23<sup>rd</sup> Conference on Hurricanes and Tropical Meteorology, 79<sup>th</sup> Annual Meeting of the American Meteorological Society, Dallas, TX.

Avilés, L. B., 1997: *Evaluation of the Quasielastic Dynamic Structure Factor for Anharmonic Potentials*. M.S. Thesis, University of Puerto Rico, Mayagüez, 151 pp.

## **HONORS AND AWARDS**

2013 Atmospheric Science Librarians International History Choice Award

*Taken by Storm, 1938: A Social and Meteorological History of the Great New England Hurricane*

Citation: "ASLI's Choice for its comprehensive account of this major storm, from its inception to aftermath."

Minorities Graduate Incentive Program Fellowship  
1997-2000 – Illinois Board of Higher Education

## **PROFESSIONAL ASSOCIATION MEMBERSHIP AND PARTICIPATION**

- American Meteorological Society (AMS)
  - AMS Committee on the History of Atmospheric and Related Sciences (2017-2020 – Committee Chair)
  - AMS Board on Higher Education (former member)
  - AMS Board on Women and Minorities (former liaison)

- University Corporation for Atmospheric Research (UCAR)  
Plymouth State University UCAR member representative  
UCAR Membership Committee (former member)  
UCAR Nominating Committee (former member)
- National Weather Association
- American Geophysical Union
- National Association of Science Teachers
- Phi Kappa Phi Honor Society

## **OTHER PROFESSIONAL ACTIVITIES AND SERVICE**

### Invited Local and Regional Talks \*\*\*\*\*

- 2009-2015 – Great New England Hurricane of 1938  
Women’s Caucus for Art New Hampshire  
Newfound Audobon  
Squam Lakes Natural Science Center  
Eastern Communication Association Convention  
Plymouth Rotary Club  
Campton Public Library  
Northeastern Storm Conference  
Pease Public Library  
Mount Washington Observatory Weather Discovery Center  
Southern New England weather conference  
Thornton Historical Society  
Quincy Bog association  
Mount Washington Observatory - summit  
Campton Historical Society  
Taylor retirement community  
Environmental Science Colloquium
- 2013 Keynote speaker at President’s Commission on the Status of Women awards ceremony  
*One of the Boys: Reflections, Experiences and Historical Tidbits on being a Woman in Male-dominated Science Fields*

### Graduate Student Advising \*\*\*\*\*

- Historical Meteorology Research
- Tropical Meteorology Research  
Edward Dixon – Environmental characteristics in tornado-forming hurricanes 2012-2014  
Richard Giard – Characteristics of cyclogenetic African easterly waves - 2008-2010  
David Roache – Analysis of the effects of the ENSO neutral phases on Atlantic tropical cyclone activity - 2007-2008  
Edward Dixon – Environmental characteristics in tornado-forming hurricanes 2012-2013
- Atmospheric Optics
- Air Quality Research  
Laura Landry – Evaluation of air quality forecasting thresholds used by the New Hampshire Department of Environmental Services - 2008  
Gregory Garner – Development of regression trees for air quality forecasting in New Hampshire - 2006-2007  
Kimberly Jeffs – New Hampshire air quality climatology and development of criteria and regression equations for air quality forecasting - 2005-2006

### Teacher Workshop planning

- Weather Workshop for Teachers – 2007  
NASA Space Grant  
Planning and Presentation
- Pakistani Teachers Institute – 2005, 2006  
Meteorology/Physics/Pedagogy week instructor  
Curriculum design and general planning – 2006
- Indian Ocean Institute 2004

## Workshop on hurricanes and tsunamis

### Other Collaborative Activities

- Stormy Weather  
Workshop on hurricanes and tsunamis\*\*\*\*\*

### National Meteorology-Related Service and other Activities

- UCAR (University Corporation for Atmospheric Research) Activities
  - Member program representative – 2014-present
  - Nominating Committee – 2014-2017
  - Membership Committee – 2010-2014
  - Early career faculty guest - 2006
- Various AMS committees 2009-present
  - History Committee – 2017-2020 Chair
  - Edward Lorentz Award for Excellence in Teaching Committee
  - Board on Higher Education
  - Board on Women and Minorities
  - Committee on the History of Atmospheric Sciences
  - Education Symposium planning committee
  - History Symposium planning committee
  - Curricular guidelines drafting committee
  - Children's book award committee
  - History fellowship evaluation committee
- Session chair for AMS annual meeting symposia
  - History Symposium – program chair
  - Education Symposium – University Education session
- Anonymous reviewer – NSF atmospheric science program grant proposals
- Anonymous reviewer – BAMS (Bulletin of the American Meteorological Society)
- Feedback to Severe and Hazardous Weather textbook authors – 2004-present
- University of Puerto Rico presentation – 2005
  - Easterly wave characteristics
  - The Plymouth State Meteorology program
- NSF summer research programs for undergraduate students (informal and REU)
- Environmental History Journal book reviewer
- Panelist - \*\*\*\*communications, Hoffstra\*\*\*\*\*

### PROFESSIONAL DEVELOPMENT ACTIVITIES

- Professional Conferences
  - American Meteorological Society Annual Meeting
  - National Weather Association Annual Meeting
  - Conference on Hurricanes and Tropical Meteorology
  - International Conference on School and Popular Meteorological and Oceanographic Education
  - Northeastern Storm Conference
  - Southern New England Weather Conference
- NSF workshop – Proposal preparation – Geosciences programs
- AMS workshop – Scientific Inquiry in the Classroom
- Unidata workshop – Integrated Data Viewer
- Unidata workshop – Unidata users workshop – use of data in teaching
- Several local workshops  
(Advising undergraduate students, scholarship at a teaching institution, students with disabilities, critical thinking, writing across the curriculum, integral theory in the classroom, plagiarism, grant writing and submission, academic expectations and assessment, classroom technologies, promotion and tenure guidelines, Mahara online portfolio, Degree Works advising tool, using iPad for teaching/grading, etc)
- Reflective Practice groups
  - Created/led hybrid Facebook/face-to-face group – 2011-2015
  - Member (general, science) – 2007-2011, 2016-present

## **DEPARTMENT, COLLEGE AND UNIVERSITY SERVICE**

### **Faculty Governance**

- Meteorology Program Coordinator - 2017-present
- Atmospheric Science and Chemistry Department Promotion and Tenure Committee Chair - 2010-present
- Faculty Speaker- 2013-2014, 2016-2017
  - Speaker Elect with responsibilities - 2012-2013, 2015-2016
  - Faculty Parliamentarian - 2014-2015, 2017-2018
- Faculty Steering Committee - 2012-2014, 2015-2017
  - Chair - 2012-2013, 2015-2016
- Faculty Representative to the USNH Board of Trustees - 2014-2015
- Faculty Representative - PAT (Professional/Academic/Technology staff) Senate
  - Elected for several one-year terms - 2005-2010, 2014-2015
- General Education Committee - 2007-2011
  - Appointed 2007
  - Elected for three-year term - 2008-2011
- President's Commission on Diversity
  - Appointed 2004-2008
- Faculty Welfare Committee - New Faculty Observer
  - Appointed for academic year 2004-2005

### **Academic Searches**

- \*\*\*\*\*
- Tenure track faculty - Computer Science - 2013
- Three tenure track faculty - Mathematics - 2013
- Tenure track faculty - Meteorology - 2012
- Three Contract Faculty - Mathematics - 2012
- Chief Information Officer - 2011
- Tenure track faculty - Mathematics - 2008
- Director - Center for the Environment - 2007
- Tenure track faculty - Meteorology - 2007
- Tenure track faculty - Computer Science - 2007
- Contract faculty - Computer Science - 2006
- Contract faculty - Meteorology - 2005

### **Promotion and Tenure Committees**

Meteorology (2), Chemistry, Biology, Center for the Environment, Computer Science (2), Environmental Science and Policy

### **Student-related Service**

- Schedule Planning - New Student Orientation - 2005-present
- Individual orientation meetings and tours for prospective students - 2004-present
- Academic Life Presentation - "First Class" - New Student Orientation - 2006-20089

### **Class Guest Visits**

- Integrated Art Education - 2017
- Hispanic Culture in the U.S. - 2006, 2007, 2008, 2010
  - Personal experiences as a Hispanic professional woman in the U.S. - informal presentation (Course Instructor: Wilson Garcia)
- Weather - 2009
  - The Great New England Hurricane of 1938 (Course Instructor: Lisa Doner)
- Weather - 2008
  - Basics of Tropical Meteorology (Course Instructor: Sam Miller)
- Composition - 2006

#### Other University Service

- As Faculty Speaker (2014)
  - President's extended cabinet
  - Distinguished PAT staff award selection committees
  - Distinguished OS award selection committee
- Faculty Week
  - Teaching, Scholarship and Service aspects of Hurricane Research – 2014
  - The Great New England Hurricane – 2009
  - Using PowerPoint in the Classroom workshops – 2007, 2008
  - Effective Teaching - discussion group leader – 2006
  - New Faculty orientation support 2005, 2006, 2007 – “Our Academic Lives” activity – lunch
- Yellow Jacket volunteer – Spring Fling 2008
- Pakistani Teachers Institute
  - Curriculum and general planning – 2006
- Out of WAC (Writing across the curriculum) newsletter article
  - “What I Learned from Assigning Papers to Non-Majors” – Vol. 14, No. 2 – 2006-2007
- Diversity panel participant – 2006
  - Discussions about diversity in America following showing of the movie “Crash”
- College Learning Assessment test proctor – 2008

#### Departmental Service

- Meteorology program coordinator – 2017-present
- P&T committee chair – 2011-present
- P&T guidelines revision – 2005, 2010
- Meteorology program curriculum revision – 2010, 2015-present
- Meteorology program work load plan – 2010, 2017
- Meteorology presentations and facility tours \*\*\*\*\*
  - Various elementary schools – 2004-2010
  - Child Development and Family Center – Pre-K class - 2005
- Other Service – 2004-present
  - Curriculum/Catalog updates
  - General Education course proposals,
  - Meteorology program review
  - Graduate student thesis committees

#### **OUTREACH AND MEDIA INTERVIEWS**

- Women in Science and Technology Forum for high school girls – 2004, 2005, 2006 panelist
- Meteorology Girls Night for meteorology seniors and juniors – 2007
  - Informal chat about being a female in a male-dominated field and about balancing family and career
- North Country Professional Development Day for teachers – 2006
  - Understanding Hurricanes and Tsunamis - workshop
- Weather Workshop for teachers – 2007
  - Amazing Hurricanes! – lunch presentation
- Weather Balloon Launches support
  - Spacetacular/Aerospacefest – McAuliffe-Shepard Discovery Center – 2005-2014
- TV interviews/appearances
  - TWC (The Weather Channel) skype interview – 2013
    - Great New England Hurricane of 1938
  - WMUR live streaming presentation – 2013
    - Science and History Stories of the Great New England Hurricane of 1938
  - NECN (New England Cable News) interview – 2008



Historical Perspective of July 24, 2008 tornado  
WMUR-TV interview – 2006  
Effects of Weather on fall foliage

- Radio Interviews

- WPCR – Plymouth State Radio – Philosophy 4 Life - Maria Sanders – 2014  
Great New England Hurricane of 1938
- NHPR – New Hampshire Public Radio - Chris Jensen – 2013  
Great New England Hurricane of 1938
- WCBS – New York City Newsradio 880 – 2013  
Great New England Hurricane of 1938
- WNTK – Encore89 news and entertainment news show – 2013  
Great New England Hurricane of 1938
- WBUR – Boston Public Radio – Radio Boston news show – 2011  
Hurricane Irene

- Newspaper interviews

- Associated Press – (The Great New England Hurricane of 1938 - published nationally under many different titles  
Lynne Touhy - September 20-25, 2013
- New Hampshire Union Leader – “PSU professor chronicles 1938 hurricane and how it laid claim to New England”  
Dan Seufert - September 24, 2013
- Boston Globe – “ Survivors, scientists recall ‘Great Hurricane’”  
Jeremy C. Fox - September 21, 2013
- New Hampshire Union Leader – “Lightning strike at Scout camp was ‘ground current,’ expert says”  
Dan Seufert - June 26, 2013
- Foster’s Daily Democrat – “Fall Foliage Expected to Dazzle on Time”  
Robert M. Cook - September 14, 2008
- The Laker – “Deadly Tornado Strikes Central NH: Is This Part of a New Weather Pattern”  
Christine H. Randall – August 11, 2008
- The Laconia Citizen – “Storm, Funnel Clouds Eyed as Possible Tornadoes”  
Jason G. Howe, John Koziol – July 25, 2008
- The Eagle Tribune – “Debate Swirls Over Chance of Hurricane Making Landfall in New England this Season”  
Courtney Paquette – July 30, 2006
- The Eagle Tribune – “Storm Helps Shed Light on Danger of Lightning Strikes”  
Courtney Paquette – July 13 2006
- Foster’s Daily Democrat – “Experts Say Northeast to Face More Hurricane Risk in Future”  
Robert – M. Cook - March 26, 2006  
Story picked up by Associated Press  
Boston Globe – “Meteorologists Say New England Could Get a Big One”  
Clarification published March 29, 2006 – “Clarification: Northeast Hurricane Story”
- The Laconia Citizen – “More to Snowflakes than Meets the Eye”  
Bethany Gordon – December 16, 2004

- Other media appearances

- WeatherBrains – video/audio podcast - Episode 411 – December 9, 2013  
General and Great New England Hurricane conversations
- The Barometer Bob Show – video/audio podcast – September 19, 2013  
Hurricanes and Great New England Hurricane
- Front Page – AMS Blog – YouTube channel - September 20, 2013  
Great New England Hurricane