

Invited Speakers Biographies

13th Annual AMS Student Conference

Opportunities in the New Job Climate and Beyond

February 1–2, 2014

Atlanta, GA



Howard Altschule

*President/Forensic Meteorologist
Forensic Weather Consultants, LLC*

Howard Altschule is a forensic meteorologist and the president of Forensic Weather Consultants, LLC, a New York-based weather expert firm that provides weather information, opinions and reports for claims, litigations and climate studies in the U.S. and abroad. Howard has worked on over 2,000 cases ranging from slip and fall on snow and ice cases to testifying in a double homicide trial in New York. Howard has appeared on The Today Show, MSNBC, NBC, Court TV, CNN, Fox, Fox Business News and many other outlets. He was appointed by the Governor of New York to serve on the Panel on Homeowners Insurance Coverage and holds his American Meteorological Society TV Seal of Approval. His website is www.weatherconsultants.com and he can be reached via email at HGA@WeatherConsultants.Com.



Kristen Averyt, Ph.D.

*Associate Director for Science
Cooperative Institute for Research in Environmental Sciences (CIRES)
University of Colorado*

Kristen Averyt is the Associate Director for Science at the cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado, and the Director of the NOAA-funded Western Water Assessment. Averyt received a Ph.D. in Geological and Environmental Sciences from Stanford University. She has earned several awards and honors, including a Fulbright Fellowship to New Zealand (1998), and a NOAA Congressional Fellowship (2005), during which she worked in the US Senate. As the staff scientist for Working Group I of the Intergovernmental Panel on Climate Change, she was one of the many scientists who receive the 2007 Nobel Peace Prize. Her research revolves around climate variability and change, with a particular focus on the interplay between climate mitigation and adaptation, including the energy-water nexus.



Lixion Avila, Ph.D.

*Senior Hurricane Specialist
National Hurricane Center*

Dr. Avila received his Bachelor of Science degree in Meteorology from the University of Havana (1973) and his Master of Science and Doctorate degrees in Atmospheric Science from the University of Miami (1983, 1993). Dr. Avila began his professional career in 1973 as a meteorologist with the Cuban Weather Service, providing hurricane forecast and warning information. He was a consultant to the National Hurricane Center from 1983 to 1987, providing warning information in Spanish for the radio and television press. He joined the National Hurricane Center as a meteorologist in 1987, and became a hurricane specialist in 1989. The position involves the issuance of track, intensity, and wind radii forecasts as well as associated watches and warnings for tropical cyclones in the Atlantic and eastern North Pacific Oceans.

Dr. Avila was awarded the National Hurricane Conference Outstanding Achievement Award (1999), the NOAA Administrators Award for Public Education (2000), the Bronze Medal Unit Award for Superior Federal Service (2000), and the National Weather Service Isaac M. Cline National Award for Outreach (2005). He is a Fellow with the American Meteorological Society. Dr. Avila has been twice nominated for an Emmy Award for his participation in a hurricane preparedness television program. Dr. Avila is heavily involved in coordinating vital hurricane information and training to the World Meteorological Organization agencies and people of the Caribbean and Central America. He has served as session chairman for the American Meteorological Society Tropical Meteorology Committee.



Justin Berk

Meteorologist

Stevenson University, Examiner.com and Wind for Change

Justin got his degree in meteorology from Cornell University and spent nearly 20 years broadcasting on TV and radio. His first two TV jobs were in Syracuse (WSTM) and Binghamton (WBGH) NY. In 1997, Justin moved to Maryland to work on TV in Baltimore, but also spent one year freelancing weekends in Philadelphia (WPHL). Over the next 14 years he became the first meteorologist in the region to achieve the CBM seal from the American Meteorological Society, was named Best in Baltimore by Baltimore Magazine 3 times, and co-founded a radio show called Weather Talk. He also taught weather classes at Stevenson University since 2000 and was elected twice to the Faculty Council. During that time he pioneered local weather blogging and experimented with a few web site designs. He also has written for Examiner.com, becoming one of their top 10 in the nation. In the past few years he grew his Facebook following to over 50,000, winning The Mobbies Award for best Facebook Page in Maryland for the past 2 years, including a Readers Choice Award in 2013.

As a snowboarder covering the Mid Atlantic region, Justin started a video series with Snowtime, Inc. in the winter of 2013. This included weekly updates from Liberty, Roundtop, and Whitetail. He now writes snow reports for the web site OpenSnow.com that reached 14 million visitors in 2013. His reports include his other favorite spots like Seven Springs, Wisp, and of course Snowshoe, WV.

Faith in the Flakes If there is a flake within 100 mile, hell gladly find it!

The crosshairs between technology and meteorology are where Justin lives today. In addition to other social media outlets like Twitter and Instagram, he is an app developer. In November 2012, he made Kid Weather App with one of his sons. In the first year it was featured many times by Apple iTunes and was downloaded in 29 different countries. Another app designed for grown ups will be released before spring this year. Education outreach is paramount to his charity program Wind For Change that raises money for The Cool Kids Campaign, where he sits on the Board of Directors. This combines an interactive education outreach assembly and contest measuring wind speed. In three years over \$60,000 has been raised to support and provide resources to pediatric cancer patients and their families.

As you can see, there is a lot more besides TV!

**Kyle Blount**

*Marine forecaster and service account manager
Weathernews Inc.*

Kyle Blount currently works for Weathernews Inc. as a marine forecaster and service account manager. Before working in Meteorology he worked as a deckhand/captain on board charter fishing vessels in my home state of Rhode Island. One day he found himself out in far worse weather than had been forecast and it was then he decided to learn more about the weather, as to avoid being in a similar situation again. In 2010 he graduated from Lyndon State with a BS in meteorology. A month after graduating he found a job at Weather Routing Inc., where he worked from July of 2010 to April of 2012, forecasting for mega yachts and cruise ships. In the spring of 2012 he changed jobs and now work at Weathernews Inc. At Weathernews Inc. He currently forecast weather for large cargo ships and tankers around the world, and also serve as an account manager for one of our many clients. He also is currently active in the AMS BPSM Mentorship program.



Thomas J. Bogdan, Ph.D.

President, University Corporation for Atmospheric Research (UCAR)

Dr Thomas J Bogdan is the 6th president of the University Corporation for Atmospheric Research (UCAR). As a researcher, administrator, educator, and science advocate and entrepreneur, Bogdan leads UCAR in its mission of providing science in service to society through innovative partnerships with UCARs 77 Member universities and 25 academic affiliates. A world authority on solar-terrestrial physics, Tom began his science career at the State University of New York at Buffalo, from which he graduated summa cum laude in 1979 with a degree in physics and mathematics. He earned a doctorate in physics from the University of Chicago in 1984, specializing in plasma astrophysics, and came to UCAR as a postdoctoral researcher to NCAR's High Altitude Observatory (HAO), where he researched solar magnetic activity and basic magnetohydrodynamics. He has completed advanced training programs in leadership and business management from the Federal Executive Institute and the E.I DuPont de Nemurs Corporation.

Bogdan spent time in Germany in the late 1980s and early 1990s as a Visiting Gauss Professor at Gttingen University Observatory and as a researcher at the Max Planck Institute. He returned to HAO in 1995 to lead the observatory's Solar-Terrestrial Research Program; during this time, he also began developing and teaching graduate courses at the University of Colorado Boulder. From 2001-2003, Bogdan served as the National Science Foundation's program director for solar-terrestrial physics in Washington, D.C., managing grant proposals totaling over \$6 million per year. He was instrumental in developing NSF's first bridged faculty program in the space sciences, which resulted in the creation of eight new tenure track faculty lines devoted to solar-terrestrial research and education at U.S. universities.

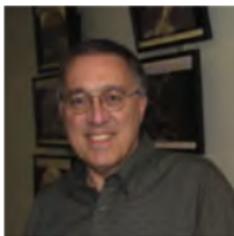
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Thomas J. Bogdan, Ph.D.
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Bogdan returned to NCAR in 2003 to assume senior management positions as the acting director of the Advanced Study Program and the acting associate NCAR director for societal and environmental programs. In 2006, he left NCAR to join the Senior Executive Service and lead the country's civil operational space weather program, NOAA's Space Weather Prediction Program. As director, he represented the space weather enterprise across every affected sector of government and society, working with federal and commercial stakeholders at home and abroad. Under Toms leadership, the NWS's National Centers for Environmental Prediction successfully transitioned the first numerical space weather prediction model into operations and increased its customer base six-fold between 2006 and 2012, when he left government service to rejoin UCAR.

Bogdan, who has published more than 100 scientific papers, is a fellow of the American Meteorological Society and the Royal Astronomical Society. He is an active member of numerous other scientific societies including the American Astronomical Society, the American Association for the Advancement of Science, the American Geophysical Union, the International Astronomical Union, Sigma Xi, National Defense Industry Association, and the American Institute of Aeronautics and Astronautics. He works closely with the World Meteorological Organization as the U.S. point of contact for space weather issues and has chaired and served on numerous NSF, NASA, and National Research Council committees and panels that advise federal agencies and policymakers. He has extensive experience working with a wide variety of federal stakeholders and developing international and commercial partnerships not only in basic research but also operational prediction. Bogdan is an adept administrator experienced in the formulation and execution of complex plans, budgets, and priorities. He is also an inspiring public speaker and a passionate advocate for the role of science in driving our global economic prosperity, safeguarding our national security, and bettering our society's ability to cope with the changing world of Century 21. He is deeply committed to UCAR's mission and to the success of the organization, its member communities, and its many diverse programs.

**Lance Bosart, Ph.D.**

*Distinguished Professor, Department of Atmospheric and Environmental Sciences
University at Albany/SUNY and NCAR Affiliate Scientist*

Dr. Lance F. Bosart is a distinguished professor in the Department of Atmospheric and Environmental Sciences at the University at Albany, State University of New York. He joined the University at Albany faculty after he received his Ph.D. in meteorology from the Massachusetts Institute of Technology in 1969. He has been a distinguished professor since 2004. He is a weather scientist with a strong research interest in synoptic-dynamic meteorology. He and his students work on a variety of mesoscale, synoptic-scale and planetary-scale research problems in the tropics, midlatitudes, and polar regions. He also works with his students on operationally oriented research problems through cooperative research projects with staff members of the National Weather Service under the auspices of the Cooperative Meteorology Education and Training (COMET) program run by the University Corporation for Atmospheric Research and the Collaborative Science, Technology, and Applied Research (CSTAR) Program sponsored by the National Weather Service. He is a member of the American Meteorological Society and the Royal Meteorological Society. He was the recipient of the American Meteorological Society's Jule Charney Award in 1992. He was also the first recipient of the American Meteorological Society's Teaching Excellence Award (now the Edward N. Lorenz Teaching Award) in January 2002. Additionally, he was the recipient of the University at Albany/SUNY Award for Excellence in Research, 2001, and the State University of New York and the Research Foundation Board of Directors Award Honoring Research in Science, Engineering and Medicine, 2001. He is a past editor of the *Monthly Weather Review*, a journal published by the American Meteorological Society. Currently (1 July 1998-30 September 2013), he holds an affiliate scientist appointment at the National Center for Atmospheric Research.



David P. Brown, Ph.D.

*Regional Climate Services Director, Southern Region
National Oceanic and Atmospheric Administration*

Dr. David P. Brown is the Regional Climate Services Director (RCSA) for NOAA's Southern Region, based in Fort Worth, TX. As RCSA, Dr. Brown is charged with building and sustaining intra- and inter-agency partner networks at the regional level to support the development and delivery of place-based climate information and services. Prior to joining NOAA, he served as Assistant Professor of Geography at Louisiana State University, and as Assistant Professor of Geography and New Hampshire State Climatologist at the University of New Hampshire. He holds Ph.D. and M.A. degrees in Geography from the University of Arizona, and a B.S. degree in Meteorology from Penn State University. For over a decade, Dr. Brown has been active in the climate services community as a researcher, state climatologist, and member of three NOAA Regional Integrated Sciences and Assessments (RISA) projects. Most recently he has been an investigator with the Southern Climate Impacts Planning Program, the first RISA to co-locate and formalize research, operations, and outreach linkages to both a NOAA regional climate center and a state climatologist office. Dr. Brown's research interests include synoptic and applied climatology, human-environment interactions, and global climate change, and his work has been published in a number of scientific journals including the International Journal of Climatology, Climate Research, Journal of Geophysical Research, Geophysical Research Letters, and the Professional Geographer. He is also an accomplished educator, having taught introductory, advanced, and graduate courses in climatology, meteorology, and physical geography at three universities.



Kenneth (Ken) Carey

*Vice President for Science and Engineering
Earth Resources Technology (ERT), Inc.*

With over 30 years experience supporting NOAA, the Department of Defense, and NASA, Ken is passionate about excellence in operational meteorology, and creating and implementing solutions for challenging weather, science, systems engineering problems and issues. He has demonstrated a unique combination of technical, leadership, management, operational and people focused expertise, proactively working to bring weather forecasters, scientists, media providers, and software developers together to produce the best possible outcome to benefit communities. Ken leads ERT's initiatives in customer-valued science and engineering services and solutions. He has provided strategic planning, systems engineering, project management and technical outreach support for NOAA and Joint Center for Satellite Data Assimilation. Working with a team of emergency managers, Ken helped develop a prototype coastal flooding and inundation tool that is capable of aiding decisions to protecting critical infrastructure and the public. Ken's 21 year service in the United States Air Force included operational analysis of force structure projections for senior Department of Defense leaders, toxic dispersion modeling, command of a weather organization supporting front-line combat units and warfighter on the Korean peninsula, and directing training and software applications. Ken is very active in the NWA and AMS, a Fellow of the AMS, and NWA Councilor. He is also especially proud to have helped, for the last nine years, develop the curricula for and hosted Weather Camps for high school teenagers, facilitated the NWAs Speed Mentoring and mentored numerous students in meteorology.

**Heidi Centola**

*Manager of Strategic Relations
WeatherBug by Earth Networks*

With more than 10 years in the field of professional meteorology, Heidi Centola serves as manager of strategic relations for the WeatherBug Professional brand of Earth Networks. In this role, Centola manages strategic relations within the energy sector, working with key players to foster and build partnerships. She also actively manages sales efforts with clients and prospects and works closely with marketing to oversee semi-annual energy seminars. Prior to her current role, Centola was a senior account executive with the energy sales team. She joined company in December 2005. Prior to WeatherBug, Centola worked for Weather Services International (WSI) for seven years, where she held various roles and worked with clients in markets that included industry, government, electric and gas utilities, and merchant energy. While at WSI, Centola played a key role in the growth and development of the Energy Forecast Center, which provided custom forecasts and consultative support services to U.S. electric and gas utilities. In 2000, she was promoted to senior regional account manager for utilities and energy trading, and also provided support as the WSI reseller manager. Centola earned a bachelors in meteorology with a minor in technical mathematics from Plymouth State University in New Hampshire. She is an active member of the AMS Energy Committee. In addition, she has presented at conferences such as IEEE and AMS.



Sarah Champion
Data Coordinator
Technical Support Unit, National Climate Assessment

Sarah began her professional career in 2003 after obtaining her Bachelor's Degree in Meteorology from Penn State, by receiving her commission in the U.S. Air Force as a Weather Officer. After two years of forecasting exclusively for Southwest Asia, she took this experience with her to the Naval Postgraduate School, upon being competitively selected to receive her Master's Degree. Here, she studied climatology, large-scale climate oscillations, teleconnections, and regional impacts to complete a thesis titled Long Range Operational Military Forecasts for Afghanistan. Upon graduation in 2007, Sarah was reassigned to the 14th Weather Squadron, in Asheville, NC. It was here that her thesis work was transitioned to operations, and she led the effort to develop the first-ever, operational long-range forecasts for multiple military regions of interest for the Department of Defense. Sarah separated from the Air Force in 2009, and took a brief position as a contractor for the U.S. Air Force Weather Headquarters with the Pentagon, working with air and space modeling and simulations. In 2010, Sarah returned to Asheville to work with the National Climatic Data Center, first utilizing her leadership and management skills in the Director's Office, and then transitioning to the Technical Support Unit for the National Climate Assessment in the fall of 2012. Here she has served as the Scientific Program Coordinator, and most recently as the Data Architect (or Coordinator) for Assessments, with the Cooperative Institute for Climate and Satellites and NC State University. Leveraging all previous experiences and expertise, Sarah is now charged with leading a multi-agency effort in managing all data associated with the National Climate Assessment and future Assessment products, to include traceability and metadata requirements, supporting infrastructure and processes for access and curation, as well as the design and communication of data content to the web. In her spare time, Sarah enjoys anything outdoors and being active! Sarah resides in Asheville with her husband, children, and dogs.



David Chandley

AMS certified meteorologist

Channel 2 Action News, WSB-TV Atlanta

David Chandley, AMS certified meteorologist, appears on Channel 2 Action News at 5 p.m. Monday through Friday and is involved in team coverage whenever severe weather breaks. He joined the Action News team in November 1988.

A graduate of the University of Georgia with a degree in broadcast journalism, he also completed the broadcast meteorology program at Mississippi State University. David holds the CBM (Certified Broadcast Meteorologist) designation from the American Meteorological Society. This is the highest mark of distinction and recognition available in broadcast meteorology.

David's broadcast career has been all over Georgia, with stops in Albany, Macon and Columbus. He has been honored with numerous awards, including 5 Southeast Emmy Awards and 15 nominations. David has also received the Associated Press Best Weather Reporting Award 11 times, most recently in 2012.

David and his wife Lynn, also a UGA graduate, have two daughters. They are active members of Passion City Church in Atlanta where he serves as a DoorHolder. David has been involved with many organizations and charities, including Gwinnett County Schools, where he served as PTA president and School Council Member.

David has hosted many events for Atlantas Ronald McDonald House Charities, Children's Healthcare of Atlanta, Georgias Academic Decathlon and Happy Tails Pet Therapy. He also serves as a Board Member for NATAS/Southeast, and is Master of Ceremonies for the annual Lilburn Christmas Parade.

David is an avid golfer and CrossFit enthusiast. David was a student trainer at the University of Georgia and was a member of the 1980 National Championship Football team.

**Allison Chinchar**

Meteorologist
WXIA-TV Atlanta

Allison Chinchar is a meteorologist here at WXIA-TV in Atlanta. Prior to Atlanta, Allison worked at WKRN in Nashville, Tennessee and WTVC in Chattanooga, Tennessee. She has covered all types of major weather events including the super tornado outbreak on April 26-27, 2011, the ice/snow storm of January 2011 which effectively shut down the city of Atlanta and the northern half of the state, and she also covered Hurricane Isaac live from New Orleans in August 2012. Allison is no stranger to a variety of weather, but says that winter is her favorite season. She earned her meteorology degree from The Ohio State University, and also helped establish, along with another fellow meteorology club student, an on air weather program for the student run television station. She grew up in Ohio, but says she has no real desire to move back, "I have enjoyed not owning a snow shovel for the last few years". When she is not covering weather, Allison enjoys running (her favorite was the Disney World Half-Marathon), kayaking, and playing with her golden retriever Joppy, who was rescued from the Joplin, Missouri EF5 tornado. She is also an active member of the ASPCA, NWS, IABM, and AMS.

**Jason Deese***Lead Forecaster**National Weather Service, Peachtree City, GA*

Jason Deese is a lead forecaster with the National Weather Service in Peachtree City, GA where he serves as Severe Weather and GIS focal point. After completing many of his core classes in his home state of North Carolina at NC State University and UNC Charlotte, Jason completed his meteorology degree at the Florida Institute of Technology in Melbourne, FL while also obtaining a minor in Aviation Management in 1998. This was also his first involvement with the NWS, serving as a student volunteer with the Melbourne office. This served him well as he was recruited by NetJets Aviation in Columbus, OH for his first job out of college in 1999. After serving such high profile clients as Tiger Woods and Warren Buffett (who eventually bought the company), it was off to begin his NWS Career with an intern position in Jacksonville, FL. After brief stints in Birmingham, AL and Tampa, FL, it was back to Jacksonville where he was a journeyman forecaster from 2003 to 2010 and served as Aviation and GIS focal point. At the Peachtree City office, current interest and energy is being devoted to utilizing a gridded database to create derived graphical products while leveraging the emerging social media market.



Bruce Doddridge, Ph.D.

*Head of the Chemistry and Dynamics Branch in the Science Directorate
NASA Langley Research Center*

Dr. Bruce Doddridge is Head of the Chemistry and Dynamics Branch in the Science Directorate at the NASA Langley Research Center located in Hampton, VA, where his responsibilities include formulating and developing research programs and managing both the technical and administrative aspects of these programs in support of the NASA Science Mission Directorate. He also holds an adjunct faculty position at the rank of Full Professor in the Department of Atmospheric and Oceanic Science at the University of Maryland College Park. He received his B.Sc. with First Class Honours and Ph.D. degrees in chemistry from University of Adelaide, South Australia. Prior to his retirement from University of Maryland in 2006 his research group published on a variety of topics in atmospheric science, primarily focusing on field experiments and modeling studies of key players contributing to photochemical ozone production and fine particle haze, but also including contributions to the fields of hurricane chemistry and dynamics, interannual variability and climate teleconnections, air pollution meteorology, and satellite validation. He has also served on detail as a program officer managing the Atmospheric Chemistry Program at the National Science Foundation and managing the Tropospheric Chemistry Program at NASA Headquarters. He is a member of the American Meteorological Society, the American Geophysical Union and the American Association for Aerosol Research. He and his wife Susan reside in Yorktown, VA and have three grown children attending college. Dr Doddridge is available on Facebook (often) and Twitter (occasionally).
<https://www.facebook.com/bruce.doddridge>; @BruceDoddridge



Timothy S. Dye, CCM

Senior Vice President

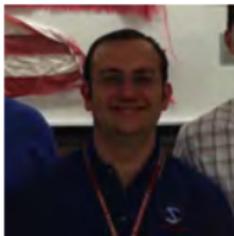
Division Manager, Meteorological and Air Quality Operations and Measurements

Tim, with STI since 1990, provides strategic and senior oversight of our operational and public outreach and education programs, and oversees our domestic and international business development activities. For more than a decade, Tim has directed his knowledge and creativity toward the design and development of innovative information systems, such as AirNow, AirNow International, and SmogCity2. He leads several efforts to conduct low-cost, citizen-based air quality monitoring. His enthusiasm for finding ways to communicate air quality information effectively also led him to explore the fusion of environment, technology, and art in our everyday world.

Tim is accredited by the American Meteorological Society (AMS) as a Certified Consulting Meteorologist. He serves on the Management Review Board for the National Oceanic and Atmospheric Administrations Cooperative Research and Development Agreement as well as AMSs Board on the Urban Environment and Board of Certified Consulting Meteorologists. He earned B.S. and M.S. degrees in Meteorology from Millersville University and Penn State, respectively.

**Mark Elliot***On Camera Meteorologist**The Weather Channel*

Mark Elliot is an On Camera Meteorologist for The Weather Channel, in Atlanta Georgia. He received his Bachelor's Degree with a double major in Meteorology and Environmental Science Physics from Rutgers University (2004) and his Masters of Science in Earth and Atmospheric Sciences from The Georgia Institute of Technology (2008). While an undergrad, Mark completed several internships including at the National Weather Service (Mt. Holly), and News 12 New Jersey, worked at the Photochemical Assessment Monitoring Station, and was involved in all forms of campus media including the Weather Watcher program for RU-TV, forecasts and columns for The Daily Targum and The Green Print newspapers, and radio weather forecasts for WRSU. This combination of classwork, internships, and media experience helped Mark get a job at The Weather Channel Radio Network (2004). This eventually transitioned to his television role which he currently holds. Mark is a member of the American Meteorological Society and National Weather Association, and the Social Media Manager for the Atlanta AMS / NWA Chapter.

**Robert Garcia***Meteorologist**National Weather Service, Tampa, FL*

Robert Garcia is a meteorologist with the National Weather Service in Tampa. He graduated from the Florida State University with a BS in meteorology in 2010, served as Outreach Coordinator for the North Florida Chapter of the AMS, and cheered on his Seminoles. Robert began his career as a student trainee with the National Weather Service steps from where he grew up in Miami and lived in Metro Atlanta for two and a half years as a Meteorologist Intern with the National Weather Service in Peachtree City. While in Atlanta, he completed a GIS graduate certificate at FSU. In 2012, Robert returned to his home state of Florida as a general forecaster where he leads the office programs in radar, winter weather, and Spanish language outreach. He attended the 2010 AMS Student Conference in Atlanta and maintains active AMS involvement with the West Florida Chapter. Robert lives in the Tampa Bay area where he still cheers for his beloved Noles!



Jonathan Gourley, Ph.D.

Research Hydrologist, National Severe Storms Laboratory, NOAA

Affiliate Associate Professor, School of Meteorology, University of Oklahoma

Dr. Jonathan Gourley is a Research Hydrologist with the NOAA/National Severe Storms Laboratory and an Affiliate Associate Professor with the School of Meteorology at the University of Oklahoma. His primary research interests include hydrologic prediction across scales ranging from water resources management down to early warning of extreme events such as flash floods, rainfall estimation from remote-sensing platforms such as satellite-based measurements and dual-polarization radar, and improving theoretical understanding of water fluxes through mobile observation. He was instrumental in proving the usefulness of dual-polarization radar in France, and MeteoFrance has upgraded their network with this capability. He was the principal inventor of a multisensor rainfall algorithm that has now been expanded to encompass all radars in North America and has been deployed to several foreign countries for operational use. He assembled a comprehensive database of flooding in the US for community research purposes based on stream gauges, trained spotter reports, and witness reports collected directly from the public through an experiment he coordinated. This database is being used to develop and evaluate a prototype modeling system called FLASH, which is being designed to provide state-of-the-art forecasts of flash flooding in real time over the US. Dr. Gourley has won the Department of Commerce Bronze and Silver Medal Awards as well as the American Meteorological Society Journal of Hydrometeorology Editors Award. More information about his educational background and research can be found here: <http://blog.nssl.noaa.gov/jjgourley/> and <http://blog.nssl.noaa.gov/flash/>.

**Eric Holthaus**

*Lead Meteorologist and Weather Editor
Weathermob*

Meteorologist and weather editor, Weathermob, Inc.

Eric Holthaus is lead meteorologist and weather editor of Weathermob. Eric also contributes to Quartz, a publication of The Atlantic magazine and is the technical lead of a climate change adaptation project in Ethiopia that aims to provide weather-based agricultural insurance for subsistence farmers. Eric is a meteorologist specializing in the human side of weather. Before joining Weathermob, Eric led weather coverage for the Wall Street Journal and worked at Columbia University's International Research Institute for Climate and Society developing adaptation strategies to climate variability and climate change in more than a dozen countries worldwide.

His forecasts and reports in New York City during Hurricane Sandy gathered millions of pageviews and recognition by the American Meteorological Society at last year's annual meeting. He has a special interest in translating weather and climate data into actionable knowledge – because after all, experiencing the weather is one thing that everyone, everywhere on earth has in common. After reading the recent Intergovernmental Panel on Climate Change (IPCC) report in September, Eric publicly vowed to reduce his carbon footprint in half by committing to never fly again, a decision which has gained international recognition. Eric has a very active presence on Twitter (@EricHolthaus) and has contributed to MarketWatch, Columbia University's State of the Planet, and the Washington Post's Capital Weather Gang. He has also been quoted in and made media appearances for the New York Times, San Francisco Chronicle, the Guardian, Reuters, Salon.com, Slate, The Daily Beast, TreeHugger, ThinkProgress, Huffington Post, The Weather Channel, WNYC's On the Media, NPR's All Things Considered, PRI's The World, the BBC World Service, CTV (Canada), ABC (Australia) and NDTV in India. Eric holds a degree in meteorology from Saint Louis University and a masters in Climate and Society from Columbia University in New York. He has also studied at the University of Oklahoma and the University of Arizona.



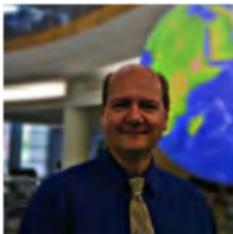
Jana Houser, Ph.D.

*Assistant Professor
The Ohio University*

Originally from Allentown, PA, Dr. Houser was passionate about weather from an early age and new that meteorology would be her career. She received her B.S. in meteorology from Penn State University in 2004. She then pursued graduate education in meteorology at the University of Oklahoma under the mentorship of Dr. Howard Bluestein. She received her Masters degree in 2008 for her thesis entitled: Mesoscale Observations of a Cold-Frontal Winter-Storm Event in Central Oklahoma. The study utilized fixed-site polarimetric, Doppler radar observations to analyze a variety of precipitation structures associated with various phases of a winter storm including a cold-frontal convective line that generated heavy freezing rain, sleet and thunder; transitional convective and stratiform sleet and snow, and stratiform snow associated with the wrap-around precipitation of an upper-level low. Dr. Houser was recently awarded her Ph.D. from the University of Oklahoma in June, 2013 for her dissertation, Rapid-Scan, Polarimetric, Doppler Radar Observations of Supercell Tornado Evolution on 24 May 2011. This study examined the temporal and spatial evolution of rotation associated with two tornadoes as they formed, intensified, and decayed, and related storm-scale and sub-storm-scale features to the behavior of tornado evolution. Currently, Dr. Houser is an assistant professor at The Ohio University, where she teaches synoptic and mesoscale meteorology, along with several introductory courses. She plans on continuing her studies in tornado morphology and hopes to expand her area of research to examining the climatology of severe weather events of both the past and future. She has been married for eight years and has a one year old daughter. When she is not working, she enjoys running, cooking, hiking, playing the piano and flute, singing, and gardening.

**Rebecca Jennings***Hurricane Program Specialist**FEMA Region IV*

Rebecca Jennings is the Hurricane Program Specialist for the Federal Emergency Management Agency (FEMA) Region IV. Ms. Jennings received her Bachelor of Science Degree in Communication from Ohio University in Athens, Ohio, and her Master of Science Degree in Earth and Atmospheric Science from the Georgia Institute of Technology in Atlanta. Her primary responsibilities include managing Hurricane Evacuation Studies (HES) and Post Storm Assessments (PSA), most recently as the FEMA Study Manager for the Mississippi and Alabama HES and the Hurricane Irene and Isaac PSAs. Additionally, she provides training and technical support to federal, state and local partners in preparation and planning for hurricane evacuation response and operations as part of the Operational Planning Branch in the FEMA Region IV Response Division. Rebecca is a Regional Team Leader for the FEMA Hurricane Liaison Team (HLT) and has deployed to the National Hurricane Center since 2008. As part of the HLT, she received the FEMA Administrators Award for Excellence in 2009. Ms. Jennings joined FEMA's Region IV team in 2007. Prior to joining FEMA, Rebecca worked for The Weather Channel and has previous consulting experience for Fortune 500 clients. Email: rebecca.jennings@fema.dhs.gov



Kevin Kloesel, Ph.D.

Director, Oklahoma Climatological Survey

Associate Dean for Public Service and Outreach, University of Oklahoma

Kevin Kloesel is Director of the Oklahoma Climatological Survey and Associate Dean for Public Service and Outreach in the College of Atmospheric and Geographic Sciences at the University of Oklahoma. He is directly responsible for outreach programs and tours for the over 50,000 people that visit the National Weather Center facility in Norman annually. His teaching and research interests range from synoptic meteorology to societal impacts and decision making in weather-impacted situations. He is also the Co-Chair of the Steering Committee for the Oklahoma Mesonet. He led the team that won the Innovations in American Government Award from Harvard University and the Ford Foundation for their work with the emergency management community in Oklahoma. Currently, he works directly with thousands of K-12 students and teachers, as well as hundreds of emergency management agencies in finding appropriate applications for weather data in local education and decision-making. He was also a content designer for Scholastic's The Magic School Bus Kicks Up a Storm children's museum exhibit that is currently touring the US. He works closely with the Norman Chamber of Commerce and Norman Economic Development Coalition to provide continuing education opportunities to the growing private weather enterprise in Norman. Internationally, Kevin serves as a trainer for operational forecasters at the Korea Meteorological Administration, the Shanghai Meteorological Bureau and the Central Meteorological Service in Taiwan. Previously, he served as director of the Florida Climate Center in Tallahassee, FL. While a tenured faculty member at Florida State University, he served as a research fellow with the Cooperative Institute for Tropical Meteorology, and co-directed an outreach project, EXPLORES!, that provided NOAA satellite data ingest capabilities to over 200 schools throughout Florida.



Richard Knabb, Ph.D.

Director

National Hurricane Center

Dr. Richard Knabb is the Director of NOAA's National Hurricane Center in Miami, Florida. Dr. Knabb received his Bachelor's Degree in Atmospheric Science from Purdue University (1990) and his Masters of Science and Doctorate in Meteorology from the Florida State University (1993, 1999). He completed his postdoctoral work at the University of Hawaii (2000). Dr. Knabb was a Research Meteorologist and Lead Forecaster at the Mauna Kea Weather Center from 1999 to 2001. He joined Risk Management Solutions, Inc., in Newark, California, in 2001 as an Assistant Product Manager for Weather Risk. Later that year, he joined NOAA's National Hurricane Center as the Science and Operations Officer, and was a senior hurricane specialist there in 2005-2008. In 2008, Dr. Knabb became the Deputy Director of NOAA's Central Pacific Hurricane Center in Honolulu, Hawaii. He served in that capacity until 2010, when he joined The Weather Channel in Atlanta, Georgia, as its on-air Hurricane Expert and Tropical Science Program Manager. Dr. Knabb is a member of the American Meteorological Society.



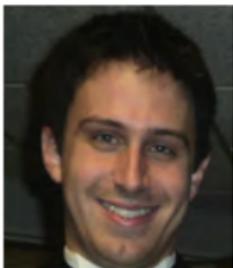
Paul Kocin

Meteorologist

Weather Prediction Center

Paul Kocin is currently a meteorologist with the Weather Prediction Center at NCEP in College Park, MD. His primary responsibility is winter weather forecasting. He has co-authored The AMS monographs Snowstorms Along the Northeastern Coast of the United States 1955 to 1985 and Northeast Snowstorms Volumes 1 and 2. He has also written numerous journal articles, papers and given many presentations as well as served as Chief Editor of Weather and Forecasting.

Paul was the Winter Weather expert at the Weather Channel from 1999 to 2006 and also worked at NASA/ Goddard Spaceflight Center in Greenbelt MD. He is currently working on Northeast Snowstorms Volume 3: The 21st Century.



Matt Kumjian, Ph.D.

Assistant Professor

Pennsylvania State University

Dr. Matthew Kumjian is a brand new Assistant Professor in the Department of Meteorology at Penn State University. In his research, he uses dual-polarization radar measurements to study precipitation physics in a variety of storms, including deep convection and winter storms. He has published about 25 journal articles on these and other topics and currently serves as an associate editor with the AMS journal, *Monthly Weather Review*. Next fall, he will be teaching a course on radar meteorology. He was born in Baltimore, MD and grew up in Chesapeake, VA. Ever since he was seven years old, he has been fascinated by the sky and weather, especially storms of all kinds. In 2003, he took that fascination with the weather to the University of Oklahoma (OU) to pursue his Bachelor of Science degree in meteorology. During his senior year he interned with the Storm Prediction Center, and also developed an interest in radar meteorology. He started graduate school in 2006, working with scientists at the National Severe Storms Laboratory (NSSL). After receiving his M.S. degree in 2008, he continued on at OU and NSSL to get his Ph.D. in 2012. In the fall of 2012, Dr. Kumjian moved to Boulder, CO for a postdoc position as part of the Advanced Study Program at the National Center for Atmospheric Research. He stayed there for just over a year before taking the assistant professor position at Penn State, which he started in January. In addition to his career in academia, Dr. Kumjian stays active in music, most recently as a violist in the Boulder Symphony Orchestra. His time in Boulder also led him to be a bit of a craft beer snob. He also loves to travel around the world, especially for trying out the local food and experiencing different cultures. Feel free to stop by and chat or ask any questions you may have, whether they are related to life in academia, science, or anything else!

**Ross Lazear***Instructor**Department of Atmospheric and Environmental Sciences at the University at Albany, SUNY*

Since 2008, Ross Lazear has been an instructor in the Department of Atmospheric and Environmental Sciences at the University at Albany, SUNY. Originally from Minneapolis, Minnesota, he received his Bachelors and Masters degrees in Atmospheric and Oceanic Sciences from the University of Wisconsin, Madison in 2005 and 2007, respectively. For his Masters work, Ross was advised by Dr. Michael Morgan, studying the effects of diabatic heating in block development and tropical cyclone outflow circulation. While a graduate student at Wisconsin, Ross had the opportunity to lead his own lab section under Dr. Jonathan Martins introductory atmospheric science class. This experience inspired him to want to be a teacher, and helped land him a teaching position at the University at Albany. At the University at Albany, Ross teaches undergraduate courses in synoptic-scale weather analysis, forecasting, and severe weather. In addition to running the local forecasting contests at Albany, he also advises undergraduate research, works with the National Weather Service in coordinating the undergraduate internship program, and runs the departments weather map room. Ross also loves forecasting and experiencing extreme weather, and had the opportunity to chase Hurricane Katrina along with several Great Plains severe weather outbreaks.

**Julie LeStage***Founder and CEO**Weathermob, Inc.*

Julia LeStage is founder and CEO of Weathermob, Inc., a social weather media company. LeStage is a 25-year veteran of the media industry and is a former Head of Daytime and Reality at Channel 4 (a UK National TV Broadcaster) and was responsible for commissioning the first series of Big Brother in the UK, which has continued to be the most successful television show in the history of British Television. LeStages commissions have won Royal Television Awards, Broadcast Awards, Peoples Choice Awards and BAFTAs. After leaving Channel 4, American-born and Boston-based LeStage founded and ran her own content production company. Prior to joining Channel 4 (UK), LeStage worked in all aspects of the television development and production at: Thames Television Limited/Pearson Television (UK), Brook Associates (UK), Nickelodeon (UK), WGBH-TV (Boston), WCAX-TV (a CBS affiliate), MTV Europe and McNeil/Lehrer Productions (New York). She was educated at Oxford University, Middlebury College and Harvard Business School.

**Michael Lowry**

Hurricane Specialist, The Weather Channel

Mr. Lowry is Hurricane Specialist at The Weather Channel (TWC), based in Atlanta. As Hurricane Specialist he is featured during TWC's tropical weather coverage and contributes his expertise to the development of new tropical weather content. Prior to joining TWC in September of 2012, he worked as a forecaster and research scientist at NOAA's National Hurricane Center in Miami. Mr. Lowry has presented tropical related research at numerous scientific meetings and symposia, including conferences of the American Meteorological Society and the American Geophysical Union. He has been an invited speaker at international meetings addressing the role of climate change on hurricanes. From 2004-2007, Mr. Lowry served as meteorologist with the state of Florida Division of Emergency Management. During this time he engaged in key emergency management hurricane planning and response decisions, including seven Presidentially-declared hurricane disasters. Mr. Lowry is the recipient of numerous awards, including the 2013 National Hurricane Conference Outstanding Achievement Award in Meteorology for his work in storm surge forecasting, development, and outreach. Mr. Lowry holds a Bachelor of Science and Master of Science degree in Meteorology from The Florida State University.



Jonathan T. Malay

*Director, Civil Space & Environment Programs
Lockheed Martin Corporation Washington Operations*

As Director of Civil Space & Environment Programs at Lockheed Martin Corporation, Mr. Malay provides corporate liaison in Washington with NASA and NOAA for Earth and Space Science programs and for operational meteorological satellites.

After graduation from the U.S. Naval Academy where he majored in Oceanography, he earned a MS in Meteorology from the Naval Postgraduate School in Monterey, CA. Following his first tour of duty on a Pearl Harbor-based destroyer, he became an oceanographic and meteorological officer, with specializations in underwater acoustics and space-based remote sensing. In 1984, he was a finalist for NASA astronaut/mission specialist, but was instead assigned as meteorological officer aboard USS NIMITZ (CVN-68). He retired from active duty in 1993 after shore assignments at the Naval Space Command, the Office of the Oceanographer of the Navy, and the National Reconnaissance Office. As a civilian, he worked briefly at Orbital Sciences Corp. and with the Satellite and Information Service of NOAA, and then joined Ball Aerospace in 1995. Mr. Malay began his current position at Lockheed Martin in 2003, where he has supported the company's winning of contracts for the next generation geostationary meteorological satellite program, space-based solar observation instruments and spacecraft, and multiple spacecraft missions to Mars and other destinations in the solar system.

Very active in professional organizations, Jon Malay is a Fellow and Past-President of the American Meteorological Society (AMS), a Fellow and Past-President of the American Astronautical Society (AAS), and an Associate Fellow of the American Institute for Aeronautics & Astronautics (AIAA). Mr. Malay is the author of a first novel *Seraphim Sky*, co-author of the *National Geographic Encyclopedia of Space*, and creator/editor of the new AMS Publication *Partly to Mostly Funny: The Ultimate Weather Joke Book*.



Julie Malmberg, Ph.D.

*Project Manager
The GLOBE Program*

Julie Malmberg is a Project Manager with The GLOBE Program, a NASA sponsored international science and education program. She also is an adjunct instructor for American Public University, where she teaches meteorology and geography courses. Julie has her BS and MS in Atmospheric Sciences from the University of Illinois at Urbana-Champaign and her PhD in Geography from the University of Colorado at Boulder. Julie lives in Boulder, CO, with her husband, three daughters, and two dogs.



H. Mike Mogil

How The Weatherworks

Mike Mogil is a professional meteorologist based in Naples, Florida. Mike has 40 years of experience in meteorology, in a career that spans many different facets of the field. He has worked with the National Weather Service in various field office and Headquarters positions and served at NOAA's Storm Prediction Center, National Centers for Environmental Prediction and Satellite Applications Laboratory. He earned both his Bachelors and Master's Degrees in Meteorology from Florida State University, and he is among a select few having earned both CBM (Certified Broadcast Meteorologist) and CCM (Certified Consulting Meteorologist) certifications. Mike has received numerous honors and awards, including: National Weather Association (NWA) Member of the Year (1988), NWA Public Education Award (2013), and NOAA Satellite Applications Laboratory Trainer of the Year (1993) Mike owns and operates his weather consulting company, How The Weatherworks, which focuses on providing a wide array of services including forensic support, school learning programs, writing and editing, photography and forecasting. Mike serves as the Director of the nationwide weather camp program (now with more than a fourteen camp sites in operation). He and his wife also own and operate Mathworks, a tutoring company in Naples, FL, serving more than 100 students a year. Most recently, Mike and his wife formed The Learningworks Foundation, Inc., a not-for-profit company, dedicated to encouraging learning.



Michael C. Morgan, Ph.D.

*Director, Division of Atmospheric and Geospace Sciences
National Science Foundation*

Dr. Michael C. Morgan is Division Director for the Division of Atmospheric and Geospace Sciences at the National Science Foundation. Since June 2010, he has been on an intergovernmental personnel act assignment at NSF from the University of Wisconsin-Madison, where he is a professor in the Department of Atmospheric and Oceanic Sciences. Dr. Morgan's research interests are on the analysis, diagnosis, prediction, and predictability of mid-latitude and tropical weather systems. His recent work has focused on developing synoptic interpretations of adjoint-derived forecast sensitivity fields.

Dr. Morgan has competed in the National Collegiate Weather Forecasting Contest finishing first place in the graduate student division (1991-1992) and in the faculty/staff division in (2002-2003). He has been chair of his departments undergraduate program (2005-2007, 2008-2010) and chair of the Curriculum Committee of the College of Letters and Science at UW-Madison during the 2009-2010 academic year. Morgan has served the American Meteorological Society (AMS) community as a member of the Board on Women and Minorities (2007-2009) and on the AMS Scientific and Technological Activities Commission for Atmospheric and Oceanic Fluid Dynamics (2005-2007). While on sabbatical leave during the 2007-2008 academic year, Morgan was an AMS/University Corporation for Atmospheric Research (UCAR) Congressional Science Fellow. During his fellowship year, he worked in the office of U.S. Senator Benjamin Cardin (MD) as a senior legislative fellow. His work in Senator Cardin's office, which focused on energy and environment issues, was recognized for his work in a Congressional Record statement on 31 July 2008. Dr. Morgan served also on the 2009 UCAR NCEP review panel for NCEPs EMC and NCO.

Morgan received his S.B. (1988) and Ph.D. (1994) degrees from the Massachusetts Institute of Technology.

**Marshall Moss***Vice President, Forecasting and Graphics Operations**Senior Meteorologist*

Marshall Moss began his AccuWeather career in 1994 as an Operational Meteorologist monitoring severe weather. Quickly, Moss established himself as a leader within the department, advancing to the initial departmental shift manager as Morning Manager of Forecasting Operations. In this role, Moss focused on improving the companys forecast operation and took the leading role in the advancement of our digital forecasting database. Throughout his career, he has played a critical role in maximizing efficiency, accuracy, and customer service to our various media and business clients.

In his current role as Vice President of Forecasting and Graphics Operations, Moss works with all facets of the organization to ensure AccuWeathers forecasting is the worlds most accurate, and is presented in the most actionable manner possible. Moss is instrumental in making certain AccuWeathers globally-recognized Superior Accuracy™ is delivered in every presentation from our own award-winning mobile applications and web properties to our broadcast services and severe weather warnings and updates for clients around the world. Moss earned his Bachelor of Science degree in Meteorology from The State University of New York at Oswego.

Originally from New York, Moss now lives in State College with his wife and family.



William (Bill) Murtagh, Ph.D.

Program Coordinator

Space Weather Prediction Center

Bill Murtagh is the Program Coordinator for the National Oceanic and Atmospheric Administration (NOAA), Space Weather Prediction Center (SWPC) in Boulder, Colorado. He is NOAA's space weather lead in coordinating preparedness and response efforts with industry, national and international agencies, emergency managers, and government officials around the world.

Bill is a member of the White House Working Group on geomagnetic disturbances, guiding national policy in response to space weather storms. He regularly briefs the White House and members of Congress and their staff on vulnerabilities of critical infrastructure. Bill recently provided expert testimony at the British Parliament on global impacts of space weather. He represents the United States in consultation with the European Union and specialized agencies of the United Nations. He is a regular guest speaker at universities, government agencies, and national and international conferences. Bill has provided numerous interviews to major media outlets and is featured in several documentaries on space weather. Before joining NOAA, Bill was a meteorologist and space weather forecaster in the U.S. Air Force. He coordinated and provided meteorological support for national security interests around the world. Bill transferred to the SWPC in 1997 as a space weather forecaster and liaison between NOAA and the U.S. Air Force. He joined NOAA in 2003 after retiring from the Air Force with 23 years of military service.



David Novak, Ph.D.

*Acting Deputy Director; Chief of Development and Training Branch
Weather Prediction Center*

Dr. David Novak is the Acting Deputy Director of NOAA/NCEP's Weather Prediction Center (WPC), and Chief of WPC's Development and Training Branch. WPC is responsible for providing national weather guidance to support national decision makers, local weather and river forecast offices, media, and the public. Dr. Novak is responsible for directing the WPC science and technology programs. He has served on several national committees confronting the challenge of generating, assessing, and communicating weather forecast uncertainty information. He has also led several national efforts to accelerate the transfer of promising research results into operational applications that improve weather forecasts, with particular focus on extreme precipitation. He is Chair of the American Meteorological Society's Board of Operational Government Meteorologists, Assistant Editor for *Weather and Forecasting*, and an active member of the National Weather Association. Dr. Novak was recently awarded NOAA's Bronze Medal for helping establish NOAA's Scientific Integrity Policy.

Prior to joining the National Weather Service, Dr. Novak worked as a Fire Weather Technician in Fairbanks, Alaska, and meteorological intern in Duluth, Minnesota. He has been with the National Weather Service since 2002, when he joined the Scientific Services Division of the Eastern Region Headquarters in Bohemia, New York. He moved to the Weather Prediction Center in 2009.

**Carrie Rose Pace***Meteorologist**WTVR CBS 6, Richmond, VA*

Emmy-award-winning meteorologist Carrie Rose (WTVR CBS 6, Richmond, Va.) can be seen weekdays on "CBS 6 This Morning," "Virginia This Morning," and "CBS 6 News at Noon." She is a Certified Broadcast Meteorologist in the American Meteorological Society and serves on the AMS Broadcast Board. Carrie joined the CBS 6 family in December 2008 after beginning her broadcast meteorology career at KWTW News 9 in Oklahoma City. Carrie graduated in May 2006 from the University of Oklahoma with a B.S. degree in Meteorology, with minors in Mathematics and Broadcast Journalism.

While at the University of Oklahoma (far from her home and family), Carrie realized the critical difference mentors made in her success and happiness as a student. She and her best friend in the program, Christine, created a Meteorology Mentoring Program that still thrives today, encouraging upperclassmen in the Meteorology program to reach out to and mentor Meteorology freshmen and sophomores. Carrie continues to share her love for mentoring by volunteering at the Science Museum of Virginia. She is also an American Red Cross volunteer, participating in community education and outreach initiatives.

Carrie welcomes you to contact her via email at crose@wtvr.com. You can also connect on social media on Twitter @SouthernRedRose, [facebook.com/CarrieRoseCBS6](https://www.facebook.com/CarrieRoseCBS6), and at WTVR.com.



Trisha Palmer

General Forecaster

NOAA/NWS WFO Peachtree City, GA

Trisha Palmer is a General Forecaster at NOAA/NWS WFO Peachtree City, GA, a position she has held since 2005. She earned her B.S. degree in Meteorology with Special Distinction (minor in math) from the University of Oklahoma in 2002, and her M.S. degree in Atmospheric Science Magna Cum Laude from North Carolina State University in 2004. While at NCSU, she received an AMS Graduate Fellowship (2002-2003). She began her career in the NWS in 1999 as a SCEP (Student Career Experience Program) student at WFO Little Rock, AR. She transferred to WFO Raleigh, NC, as a SCEP student in 2002, and was promoted to an Intern position there in 2003.

Trisha is an active member of both the AMS and the NWA. She currently serves on the NWA Professional Development Committee, the AMS 2014 Annual Meeting and WeatherFest Planning Committees, and the AMS Board for Operational Government Meteorologists. She has always been heavily involved in local AMS and NWA chapters including several officer positions. Most recently, she served as president (2008-2009) of the Metro Atlanta AMS/NWA and Program Chair of the Inland Impacts of Tropical Cyclones Conference in Atlanta in June 2009. She enjoys attending regional and national conferences and has given several oral and poster presentations.

Her meteorological interests are wide-ranging, from severe convection (all facets), to winter weather (especially CAD), to hydrometeorology. She particularly enjoys science sharing (especially R2O concepts) and training, and she loves working with students, as a pay-it-forward tribute to those who mentored her through her career. She also enjoys outreach to and decision support activities with NWS partners and customers.

Trisha is married to a meteorologist, Joshua Palmer, the Senior HAS Forecaster at the Southeast River Forecast Center, whom she met their freshman year at OU. When not at work, they mostly keep busy with their three-year-old son, Gabriel. She also volunteers for Promise Place, a shelter and community advocacy center for victims of domestic violence. Part of her work with Promise Place includes giving talks at area high schools about the dangers of teen dating violence.



Rajul (Raj) Pandya, Ph.D.

Director

AGU's Thriving Earth Exchange

Rajul (Raj) Pandya is the director of AGU's Thriving Earth Exchange, which aims to erase the boundaries that separate people from science by connecting scientists, communities, and sponsors worldwide and helping them work together to develop local solutions that have global reach. Prior to working with AGU, Raj worked as the Director of Spark: UCAR Education and Outreach. Spark's mission is to engage people and communities in the wonder and discovery of science, especially as related to the atmosphere. Raj has been lucky enough to manage internships and mentor students, collaborate with diverse communities internationally and in the US, and work in digital libraries. His PhD investigated the large-scale organization and impact of long-lived thunderstorms, and since then he has been part of research and application teams in topics that include student learning, citizen-science, and public health—all as they relate to the atmospheric sciences. Raj believes that scientists, especially Earth scientists, can help make the world a better place for all its residents. His career is about trying to make that easier for himself and others. He lives in Colorado with his wife Amy, a physician, their daughter, Maya, and their dog, Nala.



Kevin R. Petty, Ph.D.

*Chief Science Officer
Vaisala*

Kevin Petty is the Chief Science Officer for Vaisala, a company that delivers weather and climate-based products and solutions to meet a wide range of needs in the meteorological, transportation, energy, and defense industries. In addition, Vaisala provides environmental measurement and monitoring capabilities that support industrial applications and the life sciences sector.

Kevin is responsible for helping to define Vaisalas research and development strategy, setting technology research priorities, leading teams of scientists and engineers, and supporting global product development efforts. He also spends time interacting with the weather and climate enterprise, with a focus on identifying and establishing collaborations, supporting and promoting key initiatives, and fostering community.

Prior to joining Vaisala, Kevin held positions as a Project Scientist and Scientific Program Manager with the National Center for Atmospheric Research (NCAR) in Boulder, Colorado, overseeing research and development activities associated with weather-related decision support applications and technologies for the surface transportation and aviation industries. He has also served as a Senior Meteorologist/Accident Investigator for the National Transportation Safety Board (NTSB) in Washington, DC. He started his career as a high school math and geography teacher in Jacksonville, IL.

His personal and career experiences have supported and facilitated his interests in several areas including the advancement of science and its application, science policy, corporate governance, fostering innovation, and increasing diversity in the sciences.

Kevin earned his M.S. and Ph.D. in Atmospheric Science from Ohio State University and a B.S. in Mathematics/Secondary Education from Illinois College.



Lieutenant Christine Schultz

NOAA Commissioned Corps

LT Christine Schultz is an officer of the NOAA Commissioned Corps currently stationed at NOAA's Ocean Prediction Center in College Park, Maryland. She holds the Ocean Prediction Centers Technical Operations Coordination Meteorologist position, leading and engaging in many interagency and international projects which enhance marine forecasters ability to predict maritime weather.

LT Schultz began her scientific career studying meteorology at Penn State University. She graduated in 2006, immediately received her commission, and began training with the NOAA Corps at the US Merchant Marine Academy. LT Schultz first assignment was onboard NOAA Ship Rainier, a hydrographic research vessel based out of Seattle, WA. She spent three years as a junior officer working with sonar to chart coastal Alaskan waters. Christine traded in her life jacket for extreme cold weather gear during her next assignment with NOAA's Earth System Research Laboratory, Global Monitoring Division. LT Schultz served as the station chief for NOAA's Atmospheric Research Laboratory at the South Pole, Antarctica for 13 months conducting climate data acquisition and research. She also wintered at Summit Station, a remote climate research station on the Greenland ice sheet. During her next two years on land with the National Weather Service, LT Schultz is pursuing a Masters degree in Geographic Information Sciences and Technology from the University of Southern California. She will return to sea in 2015 to serve on NOAA Ship Fairweather, an Alaska-based hydrographic ship, as the field operations officer.



Russ Schumacher, Ph.D.

Assistant Professor, Colorado State University

Russ Schumacher is Assistant Professor in the Department of Atmospheric Science at Colorado State University. He joined the faculty at Colorado State in the fall of 2011. He received his B.S. with majors in meteorology and humanities from Valparaiso University in Indiana in 2001, and earned his M.S. in 2003 and Ph.D. in 2008 from the Department of Atmospheric Science at Colorado State University. Russ received an Advanced Study Program Postdoctoral Fellowship from the National Center for Atmospheric Research, and spent 2008-2009 at NCAR in Boulder. From 2009-2011, he was assistant professor in the Department of Atmospheric Sciences at Texas A&M University.

Russ has research and teaching interests in mesoscale meteorology, atmospheric convection, precipitation extremes, numerical weather prediction, and societal impacts of weather. He received the National Science Foundation CAREER award in 2010 and was selected Outstanding Professor of the Year by the students of the CSU Department of Atmospheric Science in 2012.

**Kristen Seaman**

*Communications Coordinator
Aircraft Owners and Pilots Association*

Kristen Seaman is a 2009 graduate of Embry-Riddle Aeronautical University in Daytona Beach, FL, where she earned a Bachelor of Science degree in Applied Meteorology and a minor in Professional Communication. She previously worked as a contractor for the FAA's Aviation Weather Division and is currently in Communications at the Aircraft Owners and Pilots Association (AOPA), based out of Frederick, MD. She is an FAA Certificated Private Pilot and travels across the country to major air shows, where she represents AOPA and assists in the on-site weather monitoring for the company.

While at Embry-Riddle, Kristen served as president of the American Meteorological Society/National Weather Association club, as well as vice president of Chi Epsilon Pi, the meteorology honor society. At the 2008 AMS Student Conference in New Orleans, she sought out one of the speakers she enjoyed and discussed her love of weather and writing. This led to an internship for which she coauthored two articles in *Weatherwise* magazine that kicked off the 50 state climate and weather series. Kristen speaks about aviation weather at the NOAA Center for Atmospheric Sciences Weather Camp each year in Washington, D.C., in addition to local schools and other educational expos. Kristen is currently pursuing an MBA in Aviation through Embry-Riddle. Her hobbies include flying, fishing, triathlons, and, of course, tracking severe weather. Kristen hopes to impart the endless advantages of networking and the understanding that a passion for meteorology can lead you in a direction you likely never thought possible.



Mark Shafer, Ph.D.

Director of Climate Services

Oklahoma Climatological Survey

Mark Shafer is Associate State Climatologist with the Oklahoma Climatological Survey (OCS), Assistant Professor in the University of Oklahoma's Department of Geography and Environmental Sustainability, and co-Director of the Southern Climate Impacts Planning Program (SCIPP). Mark holds a B.S. degree in Atmospheric Sciences from the University of Illinois, an M.S. Degree in Meteorology from the University of Oklahoma, and a Ph.D. in Political Science from the University of Oklahoma.

Mark routinely interacts with state and local decision-makers to tailor weather and climate information to address specific needs. Mark established and is the University of Oklahoma lead for the Southern Climate Impacts Planning Program (SCIPP), a NOAA Regional Integrated Sciences and Assessments (RISA) Team at The University of Oklahoma and Louisiana State University. SCIPP and OCS focus on place-based applications of climate and weather information to improve community preparedness to a range of natural hazards. Mark was formerly Chair of the American Meteorological Societys Board on Societal Impacts and program co-chair for the Symposium on Policy and Socio-Economic Research and serves on the National Integrated Drought Information System (NIDIS) Implementation Team. He is also a coordinating lead author for the Great Plains Chapter of the 2013 National Climate Assessment.

His research interests focus upon communication between the scientific community and policy makers, particularly in managing societal response to extreme events. Primary areas of research include the influence of scientific and technical information on policy outcomes and institutional factors that can affect the flow of information.

**Rick Smith**

*Warning Coordination Meteorologist
National Weather Service, Norman, OK*

Rick Smith is the Warning Coordination Meteorologist at the National Weather Services Norman Forecast Office. He manages NWS Normans hazardous weather preparedness, outreach and education activities for the offices 56 county area of responsibility. Rick and the NWS Norman staff work closely with the media, emergency managers and other state, county, tribal and local government officials to ensure that communities in central and western Oklahoma and western north Texas are ready when hazardous weather threatens. Rick has been a meteorologist with the National Weather Service since 1992, working at offices in Memphis, Tennessee, Tulsa, Oklahoma and Fort Worth, Texas before coming to Norman in 2002.



Eric Snodgrass

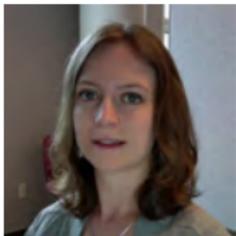
Director of Undergraduate Studies

Department of Atmospheric Science, University of Illinois at Urbana-Champaign

Eric Snodgrass is the Director of Undergraduate Studies for the Department of Atmospheric Sciences at the University of Illinois at Urbana-Champaign. Each year, he guides over 1500 students through the wild side of weather in ATMS 120: Severe and Hazardous Weather. He teaches advanced courses on General Physical Meteorology (ATMS 201), Meteorological Instrumentation (ATMS 391), Economics of Weather (ATMS 491) and supervises numerous Capstone Research projects. Snodgrass also teaches ENSU 310: Renewable and Alternative Energy for the Environmental Sustainability Program. He advises all undergraduate majors and minors in atmospheric science (100 students) and supervises graduate teaching assistants. He serves on numerous committees and boards on campus including the Illinois Teaching Advancement Board, Student Sustainability Committee, College of Liberal Arts and Science Planning Committee and the Provost Task Force on Improving Large Enrollment Courses. Snodgrass research initiatives focus on K-12 science education as well as weather forecasting applications in financial markets. He is the co-founder of Global Weather and Climate Logistics, LLC. which is a private company that provides logistical guidance and solutions to weather sensitive financial institutions. He has recently been awarded the LAS Teaching Excellence award and the Campus Teaching Excellence Award. Also, his online version of ATMS 120 was awarded the 2012 "Best Online Course" from the University Professional Continuing Education Association (a national organization). Currently, he is preparing this course to become a MOOC through Coursera.

**Keith Stellman***Meteorologist in Charge**Atlanta National Weather Service Office*

Keith Stellman is currently the Meteorologist in Charge of the Atlanta National Weather Service Office out of Peachtree City, GA. Keith took over in that role in Aug of 2012. Prior to coming to GA, Keith was the Warning Coordination Meteorologist in Shreveport LA from 2007-2012, a Techniques Development Meteorologist and Regional Training Officer at the NWS Southern Region HQ in Ft. Worth TX from 2004-2007, A Senior Hydrometeorological Analysis and Support Meteorologist at the West Gulf River Forecast Center in 2003-2004, A Senior Hydrologist at the Lower Mississippi River Forecast Center in Slidell, LA from 1999-2003, and an intern with the NWS in Tallahassee FL from 1997-1999. Keith has received numerous awards including the Louisiana Emergency Preparedness Association 2011 Leadership Award, The 2010 National Weather Association's Larry R Johnson Special Award for 10 years of GIS innovation within the NWS, 3 NOAA Administrator Awards including for the development and implementation of the NWS Radar webpages (radar.weather.gov), the NWS Precipitation Analysis Webpages (water.weather.gov), and the Damage Assessment Toolkit. His awards also include a National Isaac Cline Award in 2004 for accurately forecasting a flash flood event during the overnight hours across the Texas Hill Country, 2 Regional Isaac Cline Awards, a NOAA Bronze Medal, and 9 NWS Director Awards. Keith personally briefed President George W. Bush in 2005 during Hurricane Rita at the Texas State Operations Center and was deployed to the National Hurricane Center in 2004 where he worked with FEMA as part of a hurricane liaison team which involved briefing FEMA and the White House during Hurricane Ivan.

**Laura Stevens***Research Scientist**Cooperative Institute for Climate and Satellites - North Carolina*

Laura Stevens is a research scientist with the Cooperative Institute for Climate and Satellites, North Carolina (CICS-NC), based at NOAA's National Climatic Data Center in Asheville, NC. She provides primary science and technical support to the National Climate Assessment lead scientist and the NOAA Technical Support Unit, including the development of climate data analysis products and research on assessment-relevant topics. Her research involves the analysis of both observational and climate model data sets, which has led to the development of several figures included in the Third National Climate Assessment report. Prior to joining CICS-NC, Ms. Stevens completed a master's degree in atmospheric science at the University of Leeds, UK.



Christopher S. Strager

Acting Director

Office of Climate, Water and Weather Services National Weather Service

Christopher S. Strager is the Acting Director of the NWS Office of Climate, Water and Weather Services. Mr. Strager received his Bachelor of Science degree in Meteorology from the Pennsylvania State University in May 1983 and his Masters degree in Meteorology from Texas A&M University in 1989.

Mr. Strager started his meteorological career as an enlisted weather observer with the Air Force in 1978. After tours as a weather officer at locations including K.I. Sawyer Air Force Base in Michigan and the United States Southern Command Headquarters in Panama City, Panama, he left Air Force active duty in May 1992 to begin his career with the NWS. Chris maintained his ties with the Air Force by serving as the Commander of the Pennsylvania Air National Guards 146th Weather Flight until his retirement in June 2012. His military awards include the Bronze Star for his leadership of a deployed Special Operations Weather Team during Operation Iraqi Freedom.

Mr. Strager started his career with the NWS at the Portland, ME, Weather Forecast Office. After various assignments across the NWS, Mr. Strager came to NWS Headquarters as the NWS Advisor for Science and Service Integration to develop the NWS Roadmap, which will implement the NWS Strategic Plan. This document will shape and guide NWS operations in the year 2020 and beyond. In March 2013 he was asked to lead the Office of Climate, Water and Weather as the Acting Director.

Contact information: Christopher.Strager@noaa.gov



Lieutenant Grant Talkington

Wing Weather Officer

Shaw Air Force Base, South Carolina

Grant Talkington commissioned as a 2nd Lieutenant in the United States Air Force after graduating from the University of Oklahoma in 2011 with a meteorology degree. While pursuing a Bachelors degree in Meteorology, he was an active cadet in the Reserve Officer Training Corps culminating as the Cadet Mission Support Group Commander. Since commissioning, he has been stationed at Shaw Air Force Base, SC and held various positions. He started as a Weather Officer for the 28th Operational Weather Squadron where he led a team of 30 forecasters for Southwest Asia and the surrounding region. Currently he is the Wing Weather Officer and coordinates all weather support requirements for the 20th Fighter Wing and other tenant units located at Shaw Air Force Base. During his time in the Air Force he has received numerous awards for his leadership and knowledge including the Company Grade Officer of the Quarter three times and was awarded the Distinguished Graduate from the Advance Weather Exploitation and Integration Course. Outside of professional interests, he is an avid runner, sports enthusiast, and enjoys living in South Carolina with his wife Megan and his dog Sam.

**Wendy Marie Thomas***Meteorologist, National Weather Service**Health advisor, Weather-Ready Nation Strategic Goal*

Wendy Marie Thomas is an AMS Member and meteorologist at NOAA/National Weather Service (NWS). At NWS she serves as the health advisor to the agency's Weather-Ready Nation (WRN) Strategic Goal, and supports its overall outreach activities. Her career path has been atypical starting with foreign policy and culminating to environment and health. She matriculated at the School of Foreign Service at Georgetown University, majoring in International Diplomacy, Politics, and Economics. Upon graduation she set her horizon on becoming an environmental lawyer with the intent of supporting foreign negotiations to impart grounded guidance on the world's treatment and utility of our shared natural resources. After several contemplative walks near the Potomac River, however, she realized that in order to be a credible environmental lawyer that she needed to know firsthand the rhythm and pulse of the atmosphere and oceans. This "bright light idea inspired her to then study climatology (Arizona State University) and later meteorology (University of Arizona), earning masters degrees in both. Upon graduation she earned an internship with NBC Universals then WeatherPlus program where she worked with the on-air talent to merge climate and weather information in ways that the public can understand. Her mentor, Dr. Bill Hooke, who was then the Director of the AMS Policy Program, invited her to apply to a position in his DC-based office. She was hired and worked for the AMS Policy Program for six years. Her first project was an autopsy into the failure of New Orleans' hospitals as a result of Hurricane Katrina. That rooted her career in environment and health investigations which later included scientific inquiries into using climate (and related) data for health surveillance and disease preparedness. Her research and involvement in this emerging hybrid science led to new activities within the Society, including the establishment of the AMS first Board on Environment and Health. Her successes at AMS made her a competitive candidate at the NWS for a position that focused on improving services to our Nation.



Louis W. Uccellini, Ph.D.

Assistant Administrator for Weather Services, NOAA

Director, National Weather Service

Dr. Louis W. Uccellini is the National Oceanic and Atmospheric Assistant Administrator for Weather Services and Director of the National Weather Service. In this role, he is responsible for the day-to-day civilian weather operations for the United States, its territories, adjacent waters and ocean areas. Prior to this position, he served as the Director of the National Centers for Environmental Prediction (NCEP) for thirteen years. Dr. Uccellini was the Director of the National Weather Services Office of Meteorology from 1994 to 1999, Chief of the National Weather Services Meteorological Operations Division from 1989 to 1994, and Section Head for the Mesoscale Analysis and Modeling Section at the Goddard Space Flight Center's Laboratory for Atmospheres from 1978 to 1989. Dr. Uccellini received his Ph.D. (1977), Masters (1972) and Bachelor of Science (1971) degrees in Meteorology from the University of Wisconsin-Madison. He has published over 60 peer-reviewed articles and chapters in books on subjects including analysis of severe weather outbreaks, snowstorms, gravity waves, jet streaks, cyclones and the use of satellite data in analysis and modeling applications. He is the co-author of a widely acclaimed two volume AMS Monograph Northeast Snowstorms published in 2004; and authored chapters in the 1990 AMS Publication Extratropical Cyclones, the 1999 AMS publication The Life Cycles of Extratropical Cyclones, and the 2008 AMS Publication, Synoptic Dynamic Meteorology and Weather Analysis and Forecasting. Dr. Uccellini has served on many national and international research and field experiment programs. He has received many awards in recognition of his research and operational achievements including the Maryland Academy of Sciences Distinguished Young Scientist Award (1981), the NASA Medal for Exceptional Scientific Achievement (1985), the American Meteorological Society's prestigious Clarence Leroy Meisinger Award (1985), and the National Weather Association's Research Achievement Awards for Significant Contributions to Operational Meteorology (1996). He was elected as a Fellow to the AMS in 1987 and served as Co-Chief Editor of Weather and Forecasting from 1988-1992. In 2001 he received the U.S. Presidential Meritorious Executive Rank Award and in 2006 he received the U.S. Presidential Distinguished Rank Award. In January 2012, Dr. Uccellini was elected the President of the American Meteorological Society and served from 2012-2013.

**Kurt M. Van Speybroeck***Incident Meteorologist**National Weather Service, Fort Worth Forecast Office*

My 20 year career as a professional meteorologist has been a pathway of nearly every aspect of operational meteorology within the National Weather Services (NWS). My career started as an intern at a radar observation site in central Alabama, to tropical and forecasting duties at Brownsville, TX. From Brownsville, I became a Severe Local Storms forecaster (SELS) in Kansas City, MO which eventually became the Storm Prediction Center (SPC) in Norman, OK. I have held Senior Meteorologist positions in Albuquerque NM and again in Brownsville, TX. While at Brownsville my career path lead to becoming a Science and Operations Officer in the NWS Southern Region. In 2007, my career returned to operations with a position as a Lead Forecaster at the Spaceflight Meteorology Group (SMG) in the Space Shuttle Program at NASA Johnson Space Center, Houston, TX. With the completion of the Space Shuttle mission, our entire group transitioned into the NWS Emergency Response Specialist (ERS) Pilot Project. This project has been a test period for the proof of concept for Decision Support Services (DSS) and operations within the Weather Ready Nation initiative. As an ERS meteorologist, I have completed certification as an Incident Meteorologist (IMET) to support large wildfire incidents as well as large scale FEMA operations such as Hurricane Sandy recovery and national events that require mobilization of FEMA resources throughout the country.

A B C D E G H J K L M N O P S T U V W

Lieutenant Rebecca J Waddington

NOAA Commissioned Corps



LT Rebecca J. Waddington is an officer of the NOAA Commissioned Corps currently in her operational assignment as an Aircraft Commander on NOAAs King Air (B300C) aircraft. When she is not flying, LT Waddington is stationed in NOAAs Remote Sensing Division in Silver Spring, MD acting as a liaison between the program office and NOAAs Aircraft Operations Center.

LT Waddington earned her Bachelor of Science degree in Meteorology from San Jose State University in 2004. She began her scientific career by working as a student intern at the National Weather Service Monterey, CA forecast office. Following graduation, LT Waddington received her commission and began Basic Officer Training Class in March 2005. LT Waddingtons initial assignment was aboard the NOAA Ship Kalmimoana, an oceanographic research vessel. During her sea tour, LT Waddington became the ships Navigation Officer and received her working diver certification.

LT Waddingtons first shore assignment was in the Storm Surge unit at the National Hurricane Center. In addition to predicting storm surge for all tropical cyclones impacting the US, she also spent time creating forecast products in the Tropical Analysis and Forecast Branch.

During her final year at the National Hurricane Center, LT Waddington applied for and was accepted to NOAAs flight program. By May 2010, she had earned her Commercial Multi-engine with Instrument pilot certificate. She moved to Silver Spring, MD and began her operational assignment aboard the King Air. NOAAs King Air is the premiere remote sensing airborne platform. LT Waddington has been involved in conducting surveys following major hurricane landfalls, tornados, and flooding events. In January 2013, she upgraded to Aircraft Commander and currently serves as Chief of the Flight Section in NOAAs Remote Sensing Division. During this time she also earned her Master Degree in Aviation Science from Everglades University.

LT Waddington has recently received orders for her next assignment. In June 2014, she will move to Kansas City, MO to serve as the Executive Officer of the Aviation Weather Center. Here she will be able to combine her aviation experience with her education in meteorology to best serve the public.