

Bass Weather Services, LLC

RANDALL BASS

Owner/President, Manassas, VA
Certified Consulting Meteorologist

EDUCATION

Texas A&M University, College Station, TX

M.S. Meteorology

1996

Thesis: A Lightning summary and decision model for thunderstorm prediction at Whiteman Air Force Base, Missouri

North Carolina State University, Raleigh, NC

B.S. Meteorology

1987

Air Command and Staff College (US Air Force)

2001

Squadron Officer School (US Air Force)

1994

RELATED EXPERIENCE

Bass Weather Services, LLC, Manassas, VA

Owner/President

2015 – Present

Provide services in areas such as weather forecasting; consulting; expert witness testimony; fact witness; accident investigation; weather forensics; and environmental assessments and analysis to include compliance to standards. Provide accurate and timely forecasts to industry, including timing and intensity of weather that may impact operations. Conduct comprehensive investigations to determine the conditions, circumstances, causes and impacts due to past weather events and phenomena. Deliver honest, in-depth finding via written report and/or verbal testimony to include depositions and court hearings. Assisted in over 50 cases where weather was a factor.

Federal Aviation Administration, Washington, DC

Division Manager

2022 – Present

Manager of the Aviation Weather Division—leads team of 30+ personnel and \$20+M budget formulating requirements, managing and funding applied research projects, and transitioning successful research projects to operations to minimize the impact of weather on the National Airspace System, including General Aviation.

Federal Aviation Administration, Washington, DC

Physical Scientist Manager

2018 – 2022

Managed the Aviation Weather Research Branch—led team of eight personnel managing and funding applied research projects to minimize

Bass Weather Services, LLC

the impact of weather on the National Airspace System, including General Aviation. Also led the Advanced Weather Radar Techniques program, which conducts research and development of radar technologies for aviation weather applications. Recognized meteorological subject matter expert throughout the agency.

Federal Aviation Administration, Washington, DC

Physical Scientist

2012 – 2018

Managed the convective weather research program, to include research to operations, to improve aviation operations and mitigate impacts of weather on flight. This research was primarily concerned with thunderstorms, lightning and associated phenomena for both CONUS and offshore areas.

Exelis, Inc, Herndon, VA

Capture Manager and Senior Meteorologist

2008 – 2012

Investigated and pursued potential business opportunities related to weather and the environment. Managed data compression and distribution programs to meet environmental data processing requirements, and led an initiative to provide real-time surveillance of weather events using existing open source camera infrastructures.

United States Air Force

Weather Officer (Major)

1988-2008

Honorably retired after 20 years as an Air Force Meteorologist with assignments throughout the United States and three deployments overseas to support various contingencies. Supported a myriad of aircraft types in all kinds of weather conditions, and spent almost 10 years supporting the Intelligence Community and satellite operations. Served at headquarters level and in the field as a Flight Commander with expertise in operational weather support.

CURRENT CERTIFICATIONS

Certified Consulting Meteorologist (CCM)
American Meteorological Society, License #703

2014

The CCM designation is issued by the American Meteorological Society to highly qualified meteorologists providing research and services to a wide variety of users of weather information. It is granted only to those who demonstrate a broad background in meteorology together with detailed knowledge in a particular field of specialization along with strong ethical and professional standards. Certification gives users of meteorological

Bass Weather Services, LLC

services greater confidence in the quality and reliability of the products or services they receive.

Contracting Officer Representative – Level III
Federal Aviation Administration **2013**

Program Manager – Level I
Federal Aviation Administration **2013**

AWARDS

Defense Meritorious Service Medal **2002 – 2005**
Meritorious Service Medal with 1 oak leaf cluster **1996 – 1999,**
2006 – 2008
Joint Service Commendation Medal **2005 – 2006**
Air Force Commendation Medal **1989 – 1994**
Air Force Achievement Medal **2001**
Southwest Asia Service Medal with 3 service stars **1990 – 2001**
Air & Space Campaign Medal **2002 – 2008**

PUBLICATIONS AND PAPERS

Federal Aviation Administration Service Update
Presentation at American Meteorological Society Annual Meeting, Denver, CO **2023**

User Needs of NOAA Products and Services for Aviation
Presentation at American Meteorological Society Annual Meeting, Denver, CO **2023**

Deriving Turbulence Information from Routine Aircraft Surveillance Data
Presentation at National Weather Association Annual Meeting, Pittsburgh, PA **2022**

Implementing New and Future Weather Satellite Data into Operational Aviation Products and Decisions
Presentation at the 25th Conference on Satellite Meteorology, Oceanography, and Climatology, Madison, WI **2022**

Aviation Weather 101
Presentation to Experimental Aircraft Association at Air Venture, Oshkosh, WI **2022**

Weather Research Drivers for the FAA
Presentation at Friends and Partners of Aviation Weather, Tysons, VA **2022**

FAA Weather Satellite Uses and Needs
Virtual Presentation at NOAA Pathfinder Initiative Town Hall **2022**

Bass Weather Services, LLC

<i>Offshore Precipitation Capability for Air Traffic Control</i> The Journal of Air Traffic Control	2021
<i>Deriving Weather Information from Terrestrial Cameras</i> Virtual presentation at ENVI Users Symposium	2020
<i>Deriving Weather Information from Terrestrial Cameras</i> Virtual presentation at National Weather Association Annual Conference	2020
<i>Aviation Weather Research Activities at the Federal Aviation Administration</i> Poster presented at National Weather Association Annual Conference, Huntsville, AL	2019
<i>Using Cameras as Weather Sensors – Deriving Weather Data from Images</i> Presentation at American Meteorological Society Annual Meeting, Phoenix, AZ	2019
<i>Integrating Weather Satellite Data into Operational Aviation Products and Decisions</i> Presentation at National Weather Association Annual Conference, St Louis, MO	2018
<i>Implementing GOES-16 Data into Operational Aviation Products</i> Presentation at American Meteorological Society Annual Meeting, Austin, TX	2018
<i>Enhanced Ceiling and Visibility Information for Alaska</i> Presentation at National Weather Association Annual Conference, Garden Grove, CA	2017
<i>NOAA Satellite Conference GOES-R User Testimonials Session</i> Panelist representing the FAA at NOAA Satellite Conference, New York, NY	2017
<i>The Federal Aviation Administration's Convective Weather Research Program</i> Presentation at American Meteorological Society Annual Meeting, Seattle, WA	2017
<i>The FAA's Advanced Weather Radar Techniques Program</i> Presentation at American Meteorological Society Annual Meeting, New Orleans, LA	2016
<i>The Federal Aviation Administration's Offshore Precipitation Capability Program</i> Presentation at National Weather Association Annual Conference, Norfolk, VA	2016
<i>Ground Delays from Lightning Ramp Closures and Decision Uncertainties</i> Air Traffic Control Quarterly	2015

Bass Weather Services, LLC

Survey of Lightning Warning Procedures for Ramp Closures at US Airports
Presentation at American Meteorological Society Annual Meeting, Phoenix, AZ **2015**

Balancing Safety and Efficiency of Aircraft Operations Under Lightning Threats
The Journal of Air Traffic Control **2013**

The Value of Weather Data: Who Should Pay For Emerging Services?
AOL Government <http://gov.aol.com/2012/06/07/the-value-of-weather-data-who-should-pay-for-emerging-services/> **2012**

*Effect of the Earth Science Decadal Survey on NASA and NOAA—
Three Years Later*
Presentation at American Meteorological Society Annual Meeting, Atlanta, GA **2010**

Space-based Sensors for Monitoring Global Climate Trends
Meteorological Technology International Magazine **2010**

*The Need for New and Improved Satellite Data for Regional Climate
Models (RCM)*
Poster presented at National Weather Association Annual Conference,
Norfolk, VA **2010**

Improving Resolution – New Capabilities in Satellite Imaging
Meteorological Technology International Magazine **2010**

Blizzard Out of the Blue
Air Force Weather Observer **2001**

LANGUAGES

English – Native Language

MEMBERSHIPS

American Meteorological Society
National Weather Association
Association of Certified Meteorologists – Serve on Board of Directors
Served on Board of Certified Consulting Meteorologists (2018-2022)