

R. BRUCE TELFEYAN
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Experience/Work History

- Jan 2016 – Dec 2020, Deputy Chief, Plans and Programs (557 WW/XP), GS-1340-13

Supervisor: Mark T. Surmeier, GS-14

- Led effort to build GALWEM Transition Help Desk, serves as primary contact point for user community
- Transitioned customers to OGC Services and Moving Weather/Discover Weather for data receipt and dissemination
- Led efforts to provide ForeFlight LLC with datasets for Electronic Flight Bag
- Advisor in transition from WRF and GFS to GALWEM

- Nov 2008 – Dec 2016, Chief, Operations Exploitation (2 SYOS/DOR; AFWA/A3O; AFWA/XPO)

Supervisors: Robert T. Williams, Robert G. Hauser, Mark T. Surmeier

- Directed AFW-WEBS Characterization and Exploitation Team (ACE-T), brought 16 WS/WXP and OWSs (and other AFW-WEBS users) together for bi-weekly collaborations
- Authored over 400 tasks for AFW-WEBS capabilities; addressed customer needs
- Negotiated achievable solutions with customers to meet their weather support needs (numerical modeling, METSAT, visualization, and space weather concerns)

- Nov 1998 – Nov 2008: Chief, Technology Exploitation Branch (AFWA/DNXT)

Supervisors: Lt Col Jeffrey Cetola, Lt Col Trey Cade, Major Edward Bensman

- Led 20 person branch responsible for algorithm development, Visualizations, and initial efforts with GIS capabilities for AFW-WEBS
- Oversaw development, testing, and fielding of algorithms for contrails, stratospheric turbulence, dust concentration/visibility, hail size, visibility, wind gusts, convective wind gusts, severe thunderstorm potential, and many others.
- Directed and oversaw development of IGrADS; most frequently used visualization tool on JAAWIN. Responsible for numerous capabilities:
 - User-defined meteograms, vertical cross-sections, user-selected parameters on charts, looping forecast charts, four panel forecast charts, other capabilities.
- Recruited and mentored student summer hires including Evan Kuchera, Becky Selin, Stephen Augustyn, James McCormick, and Scott Rentschler. Also mentored five future NWS forecasters and one TV broadcast meteorologist.
- Supervised/mentored two future AFW Colonels (Alexander, Swanson), three future Lt Cols (Byerle, Weekley, Hidalgo) and six future Majors (Beberwyk, Stock, Nobis, Rozema, James Hughes, and Rugg).
- Key member of evaluation team in MM5 to WRF-ARW transition

- Sept 1995 – Nov 1998: Current Operations Manager, Air Force Weather Agency, Offutt AFB, NE

Supervisors: Michael Howland (GS-13), Major Sharon Buckley, Major Charles LeMay

- Expanded AFDIS (dial-in system, precursor to JAAWIN)
- Assisted with initial fielding of JAAWIN, subsequent expansion
- Transitioned AFW from GSM to NOGAPS, fielding of MM5

-- Assisted in initial fielding and expansion of pre-staged MM5 and GFS meteograms.

- Jan 1994 – Sept 1995: Chief Forecaster, Air Force Global Weather Central, Offutt AFB, NE

Supervisors: Major Jeffrey Peters, Lt Col Terry Lintz

-- Directed efforts of operational forecasters working 24-7

-- Oversaw five work-centers:

--- Upper Air Hazards

--- Clouds

--- Surface analyses and prognoses

--- Tropical meteorology

--- CONUS MWAs and point weather warnings.

Active Duty Military Career

Dec 1991 – Sep 1993 *Deputy Director of Weather, Air Force Material Command
Wright-Patterson AFB, OH*

Aug 1990 – Nov 1991 *Director of Meteorological and Oceanography
HQ Sixth Allied Tactical Air Force
Izmir Air Station, Turkey*

May 1989 – Jul 1990 *Chief, Weather Liaison
HQ Military Airlift Command, Scott AFB, IL*

Aug 1987 – May 1989 *Assistant Staff Weather Officer
Air Force Communications Command, Scott AFB, IL*

Jun 1984 – Jul 1987 *Commander, Detachment 12, 26th Weather Squadron
Plattsburgh AFB, NY*

Aug 1983 – Jun 1984 *Student, Air Command and Staff College
Maxwell AFB, AL*

Aug 1979 – Jul 1983 *Assistant Professor of Aerospace Studies
Air Force ROTC Detachment 470
University of Nebraska at Omaha (UNO)*

Sep 1972 – Aug 1979 *Forecast Applications Team Chief
Air Force Global Weather Central, Offutt AFB, NE*

Significant Awards

2017: Air Force Weather Agency Senior Civilian of the Quarter, Sept 2017

2007: Air Force Weather Agency Senior Civilian of the Quarter, Sept 2007

2005: Aviation Meteorology Award from the National Weather Association

2004: Air Force Weather Agency Best Award, Outstanding Staff Support

2002: Air Force Weather Agency Senior Civilian of the Quarter, June 2002

1999: Air Force Weather Agency Senior Civilian of the Quarter, March 1999

Professional Military Education Graduations

1986: Air War College, Seminar/Correspondence

1984: Air Command and Staff College, Residence

1981: Air Command and Staff College, Correspondence

1979: Squadron Officer School, Residence

1976: Squadron Officer School, Correspondence

Education

- Post-Masters graduate atmospheric sciences courses, Creighton University, 1976-80
- Master of Science in Meteorology, Cornell University, 1972
- Bachelor of Science in Mathematics, University of Kentucky, 1970

University-level Teaching Experience

- Fall 1991: Introduction to Meteorology, University of Maryland, European Division
Izmir AB, Turkey

All previous courses taught at the University of Nebraska at Omaha, AF ROTC

- Fall 1979 – Spring 1983:
Air Force Management, Leadership, and Communication Skills

Membership and Roles in Professional Societies

Active member of American Meteorological Society (11,000+ members worldwide) since 1970, serving on the following committees/boards:

- AMS Secretary-Treasurer, 2021 – Present
- Past Commissioner AMS Scientific and Technological Activities Commission, 2019 – 2021
- Commissioner AMS Scientific and Technological Activities Commission, 2017 – 2019
- Member AMS Awards Oversight Committee, 2017 -
- Incoming Commissioner, AMS Scientific and Technological Activities Commission, 2015 - 2017
- Weather Analysis and Forecasting Committee, 2008 – 2015; Chair, 2012 - 2015
- Scientific Program Committee co-chair, 46th CMOS Congress, 25th WAF, 21st NWP Conferences, Montreal CN
- Chair, Drafting Committee for AMS Weather Analysis and Forecasting Statement, 2012 - 2014
- Local Chapter Affairs Committee, 2010 – 2013
- Program Chair, 23rd WAF, 19th NWP Conferences, Omaha NE
- Board on Enterprise Planning, 2006 - 2010
- Board for Operational Government Meteorologists, 2004 – 2008; Chair, 2006 - 2008
- Omaha-Offutt Chapter of the AMS, President, 1997 – 1999
- Omaha-Offutt Chapter of the AMS, Vice President, 1996 – 1997
- Member, Omaha-Offutt Chapter of the AMS, 1972 – 1983; 1994 – present
- Member, Wright Memorial (Dayton) Chapter of the AMS, 1992 - 1994
- Member, Greater St Louis Chapter of the AMS, 1987 - 1990

Active member of the National Weather Association since 2000

- Member NWA Membership and Marketing Committee, 2008 - 2011
- Member NWA Awards Committee, 2006 – 2009
- Candidate for NWA Council, 2002

List of Publications and Presentations

2022: [The Evolving Role of Humans in Weather Prediction and Communication in: Bulletin of the American Meteorological Society Volume 103 Issue 8 \(2022\) \(ametsoc.org\)](#)

2015: Organized Town Hall Meeting at AMS Annual Meeting (Phoenix, AZ) focused upon “Future Directions for Employment for Newly Graduated Meteorologists,” <https://annual.ametsoc.org/2015/index.cfm/programs-and-events/town-hall-meetings/town-hall-meeting-future-directions-for-employment-for-newly-graduated-meteorologists/>

- Organized and recruited panel with Dave Novak (Director, NWS Weather Prediction Center) and panel members:
 - J.T. Johnson, CTO of Weather Decision Technologies, Inc;
 - Jason Tuell, NWS Eastern Region Director;
 - Marshall Moss, Vice President, Forecasting and Graphics Operations, AccuWeather
 - John Toohey-Morales, NBC-Miami, and
 - John Knox, Prof of Meteorology, University of Georgia.

2013 – 2015: Writing Committee Chair, AMS Statement on Weather Analysis and Forecasting: <https://www2.ametsoc.org/ams/index.cfm/about-ams/ams-statements/statements-of-the-ams-in-force/weather-analysis-and-forecasting/>

2012: Co-chair, Scientific Program Committee, Joint 25th WAF/21st NWP Conferences and 2012 CMOS Annual Meeting, June, Montreal, Canada

2009: Program Chair, 23rd WAF/19th NWP Conferences, June, Omaha, NE
- Welcoming Remarks, 23rd Conference on Weather Analysis and Forecasting/19th Conference on Numerical Weather Prediction, 1 June, Omaha, NE <https://confex.webex.com/cmp04011/webcomponents/docshow/docshow.do?siteurl=confex&setupStatus=1>

2009: AMS Board on Enterprise Planning Annual Report; <http://www2.ametsoc.org/cwce/index.cfm/committees/cwce-executive-committee/reports-to-council/cwce-report-to-the-ams-council-july-2009/>

2008: Organized, moderated Town Hall Meeting: Joining Researchers, Forecasters, and Users to Tackle Challenges in Tropical Cyclone Prediction (Joint session between BOGM, BPSM, and WAF), Jan 23, 2008, New Orleans, LA.

2007: Extended Abstract; Interactive Forecast Visualization Tools for the U.S. Armed Forces

2006: Stuart, Neil A., and Coauthors, 2006: The Future of Humans in an Increasingly Automated Forecast Process. *Bull. Amer. Meteor. Soc.*, **87**, 1497–1502.
doi: <http://dx.doi.org/10.1175/BAMS-87-11-1497>

2006: U.S. Air Force Graduate Research in Meteorology, Lee A. Byerle and R. B. Telfeyan, 15th Symposium on Education

2006: The Interactive Grid Analysis and Display System (IGrADS) for the U.S. Armed Forces R. Bruce Telfeyan, Air Force Weather Agency, Offutt AFB, NE; and D. M. Rozema and J. J. Wesely; https://ams.confex.com/ams/Annual2005/techprogram/paper_83180.htm

2004: Poster presentation for the 50th Anniversary of Numerical Weather Prediction, The Interactive Grid Analysis and Display System (IGrADS) for the U.S. Armed Forces R. Bruce Telfeyan, Air Force Weather Agency, Offutt AFB, NE; June 2004

REFERENCES

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