

JEFFREY P. CUPO

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EDUCATION

M.B.A. Management, expected May 2009
University of Texas Permian Basin, Odessa, TX

M.S. Meteorology, May 1998
Florida State University, Tallahassee, FL

B.S. Meteorology, Minor: Communications, May 1995
Rutgers University, New Brunswick, NJ

HONORS

Recipient, NWS Southern Region Director's Award, August 2005
Recipient, NWA Larry R. Johnson Special Award, September 2004
Recipient, DOC Unit Citation, December 2000

Recipient, Fourteen Special Act Awards, August 2001 - April 2007
Recipient, Three Cash Awards, September 1999 - March 2002
Recipient, Fourteen Letters of Commendation, July 1999 - June 2005

Member, National Scholars Honors Society, January 2007 - Present
Treasurer, Meteorology Honor Fraternity, **Chi Epsilon Pi**, May 1996 - May 1997
Member, National Honor Fraternity, **Alpha Zeta**, April 1993 - Present
Member, Italian Honors Society, June 1991 - Present
Recipient, Michael J. Ferrara Scholarship Award by UNICO, June 1991

EXPERIENCE

National Weather Service, San Juan, PR
Science & Operations Officer, April 2007 - Present

- Participated in the Climate Change Conference in San Juan, PR

National Weather Service, Midland, TX

Science & Operations Officer, September 2003 - April 2007

- Liaison between management, technical, and forecaster staff.
- Serves as the principal scientific advisor to the staff.
- Ensures all products and services are of the highest scientific integrity.
- Responsible for initiating, planning, coordinating, and overseeing the transfer of new scientific technologies to the operational office.
- Leads the training program throughout the office.
- Participates in various outreach events promoting the NWS, working with the customer to better improve products and services.
- Works 30% shifts to maintain proficiency and to assist in the identification of necessary operational enhancements.

National Weather Service Storm Prediction Center, Norman, OK

Techniques Development Meteorologist, December 2000 - September 2003

- Developed a large-scale text generation system that produces every text product currently being distributed at the center.

- Maintained cutting edge knowledge with respect to scientific advances in operational meteorology. Developed, evaluated, and implemented new scientific ideas as technology improved to enhance the SPC forecast operation.
- Developed computer programs, scripts, macros, and display methods on the SPC technology to enable the SPC forecasters to better understand and visualize the atmosphere.

National Weather Service Meteorological Development Lab, Silver Spring, MD
Techniques Development Meteorologist, July 1998 - December 2000

- Carried out research and development tasks that supported the Local AWIPS MOS Program (LAMP).
- Developed and implemented equations and statistical techniques to provide improved short-range, objective weather forecasts.
- Monitored operational forecasts and improved the suite where needed.
- Educated and assisted users at all weather forecast offices with LAMP.
- Trained the NCF in all troubleshooting aspects of the LAMP system.
- Maintained and developed new software packages to greatly improve the LAMP website.
- Developed a working camaraderie between all lab workers for better group dynamics.

PRC, McLean, VA

AWIPS Hardware Trainer and Troubleshooter, February 1998 - July 1998

- Trained WFO employees across the country with the design, function, and utility of their newly installed AWIPS systems.

Florida State University, Tallahassee, FL

NASA Langley Research Assistant, January 1996 - December 1997

- Interpretation of real-time meteorological products for NASA/PEM-Tropics.
- Ran FSU Trajectory Model on UNIX-based computer for NASA.
- Researched methodologies for trajectory climatologies.
- Programmed graphics for meteorological data.

Weather Observatory Station, Rutgers University, New Brunswick, NJ

Weather Observation Assistant, September 1993 - 1995

- Interpreted and recorded daily air and soil temperatures, wind direction, relative humidity, precipitation, and evaporation.
- Transcribed these data into record books and computer files.

ACTIVITIES

- Volunteer,* Science Fair Judge at local schools - Present
- Volunteer,* City Beautification Project - Present
- Participant,* NWA Associate Editor - January 2004 - Present
- Participant,* Regional Operations Center Officer - July 2004
- Participant,* Regional BLAST Leadership Academy - February 2004
- Participant,* Television Weathercaster for Local Tallahassee Station - 1996
- Participant,* Global Scientists Exchange Program by the U. of Colorado - 1996
- Chairman,* Private Tutorial Service for Meteorology

Undergraduates

Chairman, Pin & Key Newsletter Committee for the Fraternity of AZ
Treasurer, American Meteorological Society - 1994
Participant, Weather Forecaster for Campus Radio Station - 1993 - 1995

I am a current world traveler who has stepped foot on five continents, including Antarctica.

COMPUTER SKILLS Literate in: ArcGIS, C, C++, CGI-Programming (web-based software), FORTRAN, GEMPAK, GRADS, HTML, JAVA, JavaScript, McIDAS, NCAR Graphics, PERL, PHP, UNIX (all shells), Visual Basic 6.0 *Certified*, X/Motif.

PUBLICATIONS

1. *Operational Implications of Model Predicted Low Level Moisture and Winds Prior to the New Year's Day 2006 Wildfire Outbreak in the Southern Plains*, NWA Electronic Journal of Operational Meteorology, October 2006
2. *An Operational Technique Used to Detect Mountain Wave Signatures: A Forecast Methodology for Severe Westerly Winds in the Mountains of West Texas*, AMS Mountain Meteorology Conference, August 2006
3. *Science Sharing Taken to a New Level*, SR Technical Attachment, July 2005
4. *The Permian Basin Haboob of 3 June 2003: An Analysis Using Modern Remote Sensing and Photographic Observations*, NWA Poster Abstract, September 2005
5. *Interagency Teamwork for Upper Atmosphere Research*, SR Technical Attachment, Dec 2004
6. *Probabilistic Convection Initiation Forecasts in Support of IHOP During the 2002 SPC/NSSL Spring Program*, Weather and Forecasting, 2002
7. *Comparison of Transport Patterns During the PEM-A and PEM-B Missions*, Florida State University Masters Thesis, May 1998