

November 2024

Cory Allen Wolff
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Education

- 2002: Master of Science, Atmospheric Science, Colorado State University
- 2000: Bachelor of Science, Atmospheric Science, University of North Dakota
 - Minors in Mathematics and Computer Science

Professional Experience

- April 2014 – Present: Associate Scientist / Project Manager, National Center for Atmospheric Research (NCAR) Earth Observing Laboratory, Broomfield, CO
 - Plan, manage, and support large-scale field programs utilizing research aircraft operated by NCAR’s Research Aviation Facility for weather and climate studies around the world.
 - Perform quality control and conduct analysis on datasets collected by research aircraft.
 - Plan and manage development efforts at the facility and laboratory levels.
 - Support aircraft instrument development, maintenance, and improvement.
- July 2002 – March 2014: Associate Scientist, NCAR Research Applications Laboratory (RAL), Boulder, CO
 - Develop, upgrade, and support the Current and Forecast Icing Products for the FAA by applying up to date knowledge of icing processes and instrumentation to the algorithms.
 - Research new techniques and ideas dealing with the physics of icing, and aid in field programs designed to better understand aircraft icing.
 - Present icing research findings and information about the algorithms to scientific audiences and users.

Competencies and Interests

- Weather Interests: Airborne Measurements, Instrumentation Development, Cloud Physics, Aviation Meteorology, Mesoscale Meteorology, Forecasting, Agricultural Applications, Societal Impacts, Education and Outreach
- Computer Skills:
 - Operating Systems: OS X, Linux, Windows
 - Languages/Packages: Python, NCL, MS Office, PPM Pro, Google Suite

Honors and Achievements

- 2023: UCAR Leadership Academy
- 2021: NCAR Outstanding Achievement Award in Administration
- 2019: NCAR Outstanding Achievement Award in Education and Outreach
- 2015: Project Management Professional Certification (PMP ID: 1865712)
- 2009: Weather and Society * Integrated Studies (WAS*IS) Participant
- 2005: NASA “Turning Goals into Reality” Group Achievement Award
- 2000: American Meteorological Society Graduate Fellowship

- 2000: University of North Dakota Atmospheric Science Department Outstanding Student Award
- 1999: American Meteorological Society Undergraduate Scholarship

Selected Publications

- Lawson, R. P., Korolev, A. V., DeMott, P. J., Heymsfield, A. J., Brientjes, R. T., Wolff, C., Woods, S., Patnaude, R. J., Jensen, J. B., Moore, K. A., Heckman, I., Rosky, E., Haggerty, J. A., Perkins, R. J., Fisher, T., & Hill, T. C. J. (2023). The Secondary Production of Ice in Cumulus Experiment (SPICULE). *Bulletin of the American Meteorological Society*, 104, E51-E76. <https://doi.org/10.1175/BAMS-D-21-0209.1>
- McFarquhar, G. M., Bretherton, C. S., Marchand, R., Protat, A., DeMott, P. J., Alexander, S. P., Roberts, G. C., Twohy, C. H., Toohey, D., Siems, S., Huang, Y., Wood, R., Rauber, R. M., Lasher-Trapp, S., Jensen, J. B., Stith, J. L., Mace, J., Um, J., Emma Järvinen, Wolff, C. A., ... McDonald, A. (2021). Observations of clouds, aerosols, precipitation, and surface radiation over the Southern Ocean: An overview of CAPRICORN, MARCUS, MICRE, and SOCRATES. *Bulletin of the American Meteorological Society*, 102, E894-E928. <https://doi.org/10.1175/BAMS-D-20-0132.1>
- Bernstein, B.C., McDonough, F., Politovich, M.P., Brown, B.G., Ratvasky, T.P., Miller, D.R., Wolff, C.A., and Cunning, G.C., 2005: Current Icing Potential (CIP): Algorithm description and comparison with aircraft observations. *J. Applied Met.*, **44**, 969 – 986.
- Bernstein, B. C., C. A. Wolff, and F. McDonough, 2007: An inferred climatology of icing conditions aloft, including supercooled large drops. Part I: Canada and the continental United States. *J. Applied Meteor. Clim.*, **46**, 1857 – 1878.
- Bell, M. M., W. C. Lee, C. A. Wolff, and H. Cai, 2013: A Solo-based automated quality control algorithm for of airborne tail Doppler radar data. *J. Atmos. and Oceanic Tech.*, **52**, 2509 – 2528.
- Wolff, C.A, F. McDonough, M.K. Politovich, B.C. Bernstein, and G. M. Cunning, 2008: FIP severity technical document. *Prepared for the Aviation Weather Technology Transfer Technical Review Panel*. Report available from C. Wolff (cwolff@ucar.edu).
- Wolff, C. A., F. McDonough, and B. C. Bernstein, 2011: An examination of aircraft icing conditions associated with cold fronts. *SAE 2011 Conference on Aircraft and Engine Icing and Ground Deicing*. Chicago, 13 – 17 June. 2011-38-0020.
- Wolff, C.A., M. M. Bell, W-C. Lee, and H. Cai, 2011: Recent progress on the automatic quality control of ELDORA data. *35th Conf. on Radar Meteorology*. Pittsburgh, 26 – 30 September. Available online from AMS.
- Wolff, C. A., T. F. Lee, C. Mitrescu, S. D. Landolt, S. D. Miller, and J. A. Kankiewicz, 2008: Using CloudSat data to validate icing products. *13th Conference on Aviation, Range, and Aerospace Meteorology*. New Orleans, 20 – 24 January. Available online from AMS.
- Wolff, C.A., B.C. Bernstein, and F. McDonough, 2005: Nowcasting aircraft icing conditions using GOES-derived cloud products. *WWRP Symposium on Nowcasting and Very Short Range Forecasting*, Toulouse, France, 5-9 September.