

# Elizabeth “Betsy” Berry

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## EDUCATION

2015                      expected PhD in Atmospheric Sciences, University of Utah (UoU)  
2011                      M.S. Atmospheric Sciences, University of Utah, Salt Lake City, UT  
2007                      B.S. Meteorology, Plymouth State University, Plymouth, NH

## PROFESSIONAL EXPERIENCE

2007-2015    **Research Assistant**                      Department of Atmospheric Sciences, UoU

2012-2013    **Teaching Assistant**                      Climate Change (ATMOS 1020), UoU

- Designed assignments, did substitute teaching, created lecture on mitigation

2007                      **Summer Intern**                      Weather Services International, Andover, MA

- Updated operational weather products for customers in the energy and aviation business; performed frontal analyses and quality control of radar

2006                      **Summer Intern**                      NASA’s Applied Meteorology Unit, Cape Canaveral, FL

- Created a convective wind climatology using mesonet data at the Kennedy Space Center to help improve forecasts for convective wind warnings

## FIELD EXPERIENCE

2012                      Southeast Asia Composition Cloud Climate Coupling Regional Study (SEAC<sup>4</sup>RS) - participated in flight planning and flight execution practice

2011                      Midlatitude Airborne Cirrus Properties Experiment (MACPEX)

2010                      Storm Peak Laboratory Cloud Property Validation Experiment

## WORKSHOPS

2014                      NASA Workshop on Outstanding Questions (Ames Research Center, CA)

2013                      NASA Water Cycle Missions for the Next Decade (Baltimore, MD)

2012                      JPL’s Center for Climate Sciences Summer School on “Using Satellite Observations to Advance Climate Models” (Pasadena, CA)

2011                      Atmospheric Science Collaborations and Enriching Networks (ASCENT) workshop (Steamboat Springs, CO)

## AWARDS AND HONORS

2015	Edward J. Zipser Award for Excellence in Graduate Research
2014	SEAC4RS Group Achievement Award
2013	Student funding support to attend the Gordon Research Conference
2012	MACPEX Group Achievement Award
2011	AGU Travel Grant to attend the IUGG 2011 General Assembly
2006-2007	Science and Mathematics Access to Retain Talent (SMART) Grant
2003-2007	NASA Space Grant
2003-2007	Plymouth State University Presidential Scholarship

## OUTREACH EXPERIENCE

2013-2014	Volunteer for Cottonwood Canyons Foundation <ul style="list-style-type: none"><li>• Led guided hikes for the public for the Wasatch Wildflower Festival</li></ul>
2012	Volunteer for the Science Olympiad STEM competition <ul style="list-style-type: none"><li>• Graded the remote sensing exam for high school students</li></ul>
2011	Co-presented Department Seminar titled, "The ASCENT Workshop: Practical Lessons on Being a Successful Scientist"

## PROFESSIONAL ACTIVITIES

2009-present	Member, American Geophysical Union
2006-present	Member, American Meteorological Society

## PEER-REVIEWED PUBLICATIONS

Deng, Min, G. G. Mace, Z. Wang, **E. Berry** (2015): CloudSat 2C-ICE Product Update with a New Ze Parameterization in Lidar-only Region. (Submitted to JGR)

**Berry, E.** and G. G. Mace (2014): Cloud properties and radiative effects of the Asian summer monsoon derived from A-Train Data. *J. Geophys. Res. Atmos.*, 119, 9492-9508, doi: 10.1002/2014JD021458

Muhlbauer, A., **E. Berry**, J. Comstock and G. Mace (2014), Perturbed physics ensemble simulations of cirrus on the cloud system-resolving scale. *J. Geophys. Res. Atmos.*, 119, 4709-4735, doi:10.1002/2013JD020709

Protat, A., S. A. Young, S. McFarlane, T. L'Ecuyer, G. G. Mace, J. Comstock, C. Long, **E. Berry**, and J. Delanoe (2014), Reconciling Ground-Based and Space-Based Estimates of the Frequency of Occurrence and Radiative Effect of Clouds around Darwin, Australia, *J. Appl. Meteor. Climatol.*, 53, 456-478.

**Berry, E.** and G. Mace (2013), Cirrus Cloud Properties and the Large-Scale Meteorology: Relationships derived from A-Train and NCEP/NCAR Reanalysis Data, *J. Appl. Meteor. Climatol.*, 52, 1253-1276, doi:10.1175/JAMC-D-12-0102.1

## SELECTED CONFERENCE PRESENTATIONS

**Berry, E.** and G. Mace (2015), Using A-Train Observations to Evaluate Ice Water Path and Ice Cloud Radiative Effects in the Community Atmosphere Model, *CFMIP Meeting on Cloud Processes and Climate Feedbacks*, Monterey, CA, June 8-11, (poster)

**Berry, E.** and G. Mace (2014), Relationships Between Ice Cloud Properties and Radiative Effects from A-Train Observations and Global Climate Models, *AGU Fall Meeting*, San Francisco, CA, December 15-19, (poster)

**Berry, E.** and G. Mace (2013), Using A-Train Satellite Data to Investigate the Relationship Between Cloud Ice Water Path and Cloud Radiative Effects, *Gordon Research Seminar on Radiation and Climate*, New London, NH, July 6-7, (talk)

**Berry, E.** and G. Mace (2012), Cloud Properties and Radiative Forcing in Southeast Asia, *1<sup>st</sup> Pan-Global Atmospheric System Studies Meeting*, Boulder, CO, September 10-14, (poster)

**Berry, E.** and G. Mace (2011), Does aerosol loading in a convective environment influence cirrus anvil properties?, *AGU Fall Meeting*, San Francisco, CA, Dec. 4-9, (talk)

**Berry, E.** and G. Mace (2011), A-Train Cloud Retrieval Comparisons in the Bay of Bengal, *5<sup>th</sup> Graduate Climate Conference*, Woods Hole, MA, October 28-20, (poster)

**Berry, E.**, G. Mace, M. Deng and Z. Wang (2011), A-Train Cloud Retrieval Comparisons in the Bay of Bengal, *IUGG General Assembly*, Melbourne, Australia, June 28-July 7, (poster)

**Dupont, E.**, and G. Mace (2010), Investigating Cirrus Cloud Behavior Using A-Train and Geostationary Satellite Data, *International Symposium on the A-Train Satellite Constellation*, New Orleans, LA, October 25-28, (poster).

**Dupont, E.**, and G. Mace (2010), Understanding Cirrus Cloud Behavior Using Observations from A-Train and Geostationary Satellite and NCEP/NCAR Reanalysis Data, *13<sup>th</sup> AMS Conference on Cloud Physics*, Portland, OR, June 28-July2, (talk).

**Dupont, E.**, G. Mace, P. Minnis, and R. Palikonda (2009), Cluster Analysis of Atlantic Cirrus Clouds and Synoptic Scale Dynamics of Growing and Dissipating Cirrus Events, *CALIPSO/CloudSat Science Workshop*, Madison, WI, July 28-31, (talk).

Cummings, K., **E. Dupont**, A. Loconto, J. Koerner, and W. Roeder (2007), An Updated Warm-Season Convective Wind Climatology for the Florida Space Coast, *16<sup>th</sup> AMS Conference of Applied Climatology*, San Antonio, TX, January 13-18, (talk). [Extended abstract J3.13. online at <http://ams.confex.com/ams/pdppapers/117450.pdf>.]