



Main Menu

[Home](#)
[Data Policy](#)
[Instrument](#)
[Contact Us](#)
[Publications](#)
[News](#)
[Links](#)
[RTDisplay](#)

WB-57 Experiments

- [REThinC](#)
- [Aura Validation CR](#)
- [Aura Validation #2](#)
- [Aura Validation #1](#)

ER-2 Experiments

- [GOES-R](#)
- [HAP](#)
- [RADEX](#)
- [CCAVE-15](#)
- [CalWater-2](#)
- [MABEL14](#)
- [SEAC4RS](#)
- [PODEX](#)
- [MABEL12](#)
- [ICEAX12](#)
- [MABEL11](#)
- [MABEL10](#)
- [Dayton09](#)
- [TC4](#)
- [DoE-CLASIC](#)
- [CC-VEX](#)
- [THORPEX ATOST](#)
- [GLAS cal/val](#)
- [THORPEX PTOST](#)
- [TX-2002](#)
- [CRYSTAL](#)
- [SAFARI 2000](#)

- Noel, V., D.M. Winker, T.J. Garrett, and M. McGill, "Extinction coefficients retrieved in deep tropical ice clouds from lidar observations using a CALIPSO-like algorithm compared to in-situ measurements from the cloud integrating nephelometer during CRYSTAL-FACE," *Atmospheric Chemistry and Physics*, 7, 1415-1422, 2007.
- Heymsfield, A.J., C. Schmitt, A. Bansemer, G-J. van Zadelhoff, M.J. McGill, C. Twohy, and D. Baumgardner, "Effective radius of ice cloud particle populations derived from aircraft probes," *Journal of Atmospheric and Oceanic Technology*, 23, 361-380, 2006.
- Holz, R.E., S. Ackerman, P. Antonelli, F. Nagle, M. McGill, D.L. Hlavka, and W.D. Hart, "An improvement to the high spectral resolution CO₂ slicing cloud top altitude retrieval," *Journal of Atmospheric and Oceanic Technology*, 23, 653-670, 2006.
- Liu, Z., W. Hunt, C. Hostetler, M. Vaughan, M. McGill, D. Winker, and Y. Hu, "Estimating random errors in backscatter lidar observations," *Applied Optics*, 45, 4437-4447, 2006.
- Chepfer, H., V. Noel, P. Minnis, D. Baumgardner, L. Nguyen, G. Raga, M.J. McGill, and P. Yang, "Particle habit in tropical ice clouds during CRYSTAL-FACE: comparison of two remote sensing techniques with in situ observations," *Journal of Geophysical Research*, 110, doi: 10.1029/2004JD005455, 2005.
- Jensen, E., L. Pfister, T. Bui, A. Weinheimer, E. Weinstock, J. Smith, D. Baumgardner, and M.J. McGill, "Formation of a tropopause cirrus layer observed over Florida during CRYSTAL-FACE," *Journal of Geophysical Research*, 110, doi: 10.1029/2004JD004671, 2005.
- Mitrescu, C., J.M. Haynes, G.L. Stephens, G.M. Heymsfield, and M.J. McGill, "Cirrus cloud optical, microphysical and radiative properties observed during CRYSTAL-FACE experiment: I. A radar-lidar retrieval system," *Journal of Geophysical Research*, 110, doi: 10.1029/2004JD005605, 2005.

- Zhou, D.K., W.L. Smith, Sr., X. Liu, A.M. Larar, H-L.A. Huang, J. Li, M.J. McGill, and S.A. Mango, "Thermodynamic and cloud parameter retrieval using infrared spectra data," *Geophysical Research Letters*, 32, doi: 10.1029/2005GL023211, 2005.
- Garrett, T.J., A.J. Heymsfield, M.J. McGill, B.A. Ridley, D.G. Baumgardner, P.T. Bui, and C.R. Webster, "Convective generation of cirrus near the tropopause," *Journal of Geophysical Research*, 109, doi: 10.1029/2004JD004952, 2004.
- Liu, Z., M. McGill, Y. Hu, C.A. Hostetler, M. Vaughan, and D. Winker, "Validating lidar depolarization calibration using solar radiation scattered by ice clouds," *Geoscience Remote Sensing Letters*, 1, doi: 10.1109/LGRS.2004.829613, 2004.
- Liu, Z., M.A. Vaughan, D.M. Winker, C.A. Hostetler, L.R. Poole, D. Hlavka, W. Hart, and M. McGill, "Use of probability distribution functions for discriminating between cloud and aerosol in lidar backscatter data," *Journal of Geophysical Research*, 109, doi: 10.1029/2004JD004732, 2004.
- Noel, V., D.M. Winker, M. McGill, and P. Lawson, "Classification of particle shapes from lidar depolarization ratios in convective ice clouds compared to in situ observations during CRYSTAL-FACE," *Journal of Geophysical Research*, 109, doi: 10.1029/2004JD004833, 2004.
- Ridley, B., L. Ott, K. Pickering, L. Emmons, D. Montzka, A. Weinheimer, D. Knapp, F. Grahek, L. Li, G. Heymsfield, M. McGill, P. Kucera, M.J. Mahoney, and G. Brasseur, "Florida thunderstorms: a faucet of reactive nitrogen to the upper troposphere," *Journal of Geophysical Research*, 109, doi: 10.1029/2004JD004769, 2004.
- Sherwood, S.C., J-H. Chae, P. Minnis and M. McGill, "Underestimation of deep convective cloud tops by thermal imagery," *Geophysical Research Letters*, 31, doi: 10.1029/2004GL019699, 2004.
- Sherwood, S.C., P. Minnis, and M. McGill, "Deep convective cloud top heights and their thermodynamic control during CRYSTAL-FACE," *Journal of Geophysical Research*, 109, doi: 10.1029/2004JD004811, 2004.
- Schmid, B., J. Redemann, P.B. Russell, P.V. Hobbs, D.L. Hlavka, M.J. McGill, W.D. Hart, B.N. Holben, E.J. Welton, J. Campbell, O. Torres, R. Kahn, D. Diner, M. Helmlinger, D.A. Chu, C. Robles-Gonzalez, and G. de Leeuw, "Coordinated airborne, spaceborne, and ground-based measurements of massive, thick aerosol layers during the dry season in Southern Africa," *Journal of Geophysical Research*, 108, doi: 10.1029/2002JD002297, 2003.

Selected Abstracts

(most recent first)

- Hlavka, D.L., W.D. Hart, S.P. Palm, M. McGill, and J.D. Spinhirne, "Initial validation and results of Geoscience Laser Altimeter System optical properties retrievals," IEEE International Geoscience and Remote Sensing Symposium (IGARSS) (Anchorage, AK), September 20-24, 2004.
- McGill, M.J., D.L. Hlavka, W.D. Hart, G.M. Heymsfield, L. Li, M.A. Vaughan, and D.M. Winker, "Combined lidar-radar remote sensing of tropical cirrus anvils during CRYSTAL-FACE", American Geophysics Union (AGU) Fall Meeting (San Francisco, CA), December 2003.
- Hlavka, D.L., M.J. McGill, W.D. Hart, and J.D. Spinhirne, "Cloud Physics Lidar optical measurements during the SAFARI-2000 field campaign," IEEE International Geoscience and Remote Sensing Symposium (IGARSS) (Toronto, Canada), June 24-28, 2002.
- McGill, M.J., D.L. Hlavka, W.D. Hart, J.D. Spinhirne, and V.S. Scott, "Cloud Physics Lidar measurements during the SAFARI-2000 field campaign", American Geophysics Union (AGU) Fall Meeting (San Francisco, CA), December 2001.