

REFEREED PUBLICATIONS

[Campbell, J. R.](#), D. L. Hlavka, E. J. Welton, C. J. Flynn, D. D. Turner, J. D. Spinhirne, V. S. Scott, and I. H. Hwang, Full-time, eye-safe cloud and aerosol lidar observation at Atmospheric Radiation Measurement program sites: Instruments and data analysis. *J. Atmos. Oceanic Technol.*, **19**, 431–442, 2002.

[Campbell, J. R.](#), E. J. Welton, J. D. Spinhirne, Q. Ji, S. -C. Tsay, S. J. Piketh, M. Barenbrug, and B. N. Holben, Micropulse Lidar observations of tropospheric aerosols over northeastern South Africa during the ARREX and SAFARI-2000 Dry Season experiments, *J. Geophys. Res.*, *108*(D13), 8497, doi:10.1029/2002JD002563, 2003.

Campbell, J. R., K. Sassen and E. J. Welton, Elevated cloud and aerosol layer retrievals from micropulse lidar signal profiles, *J. Atmos. Oceanic Technol.*, *submitted*, 2007.

Campbell, J. R., K. Sassen and M. Shiobara, Glaciation of a mixed-phase boundary layer cloud at a coastal Arctic site as depicted in continuous lidar measurements, *Opt. Express*, *submitted*, 2007.

Colarco, P., B. Toon, H. Maring, D. Savoie, E. J. Welton, J. R. Campbell, J. M. Livingston, P. B. Russell, J. Redemann, B. Schmid, and J. S. Reid, Saharan dust transport to the Caribbean during PRIDE: 2. Transport, vertical profiles, and deposition in simulations of in situ and remote sensing observations, *J. Geophys. Res.*, *108*(D19), doi:10.1029/2002JD002659, 2003.

Livingston, J. M., P. B. Russell, J. S. Reid, J. Redemann, B. Schmid, D. A. Allen, O. Torres, R. C. Levy, L. A. Remer, B. N. Holben, A. Smirnov, O. Dubovik, E. J. Welton, J. R. Campbell, J. Wang, and S. A. Christopher, Airborne sun photometer measurements of aerosol optical depth and columnar water vapor during the Puerto Rico Dust Experiment, and comparison with land, aircraft, and satellite measurements, *J. Geophys. Res.*, *108*(D19), doi:10.1029/2002JD002520, 2003.

Lund Myhre, C., C. Toledano, G. Myhre, K. Stebel, K. E. Yttri, V. Aaltonen, M. Johnsrud, M. Frioud, V. Cachorro, A. de Frutos, H. Lihavainen, J. R. Campbell, A. P. Chaikovsky, M. Shiobara, E. J. Welton and K. Tørseth, Regional aerosol optical properties and radiative impact of the extreme smoke event in the European Arctic in spring 2006, *Atmos. Chem. Phys.*, *submitted*, 2007.

Mahesh, A, R. Eager, J. R. Campbell, and J. D. Spinhirne, Blowing snow over the Antarctic plateau, *J. Geophys. Res.*, *108*(D22), 4707, doi:10.1029/2002JD003327, 2003.

- Mahesh, A, J. R. Campbell, and J. D. Spinhirne, Multi-year measurements of cloud base heights at South Pole by lidar, *Geophys. Res. Lett.*, **32**, L09812, doi:10.1029/2004GL021983, 2005.
- [McGill, M. J.](#), D. L. Hlavka, W. D. Hart, E. J. Welton, and J. R. Campbell, Airborne lidar measurements of aerosol optical properties during SAFARI-2000, *J. Geophys. Res.*, **108**(D13), 8493, doi:10.1029/2002JD002370, 2003.
- Parikh, N. C., F. J. Schmidlin, J. R. Campbell, and D. L. Hlavka, Experimental characterization of laser radar instrumentation, *J. Ind. Geophys. Union*, **4**, No. 1, 91–95, 2000.
- Peppler, R. A., L. Ashford, C. P. Bahrmann, J. C. Barnard, J. R. Campbell, D. L. Hlavka, R. A. Ferrare, R. N. Halthore, N. S. Laulainen, J. A. Ogren, M. R. Poellot, K. Sassen, J. D. Spinhirne, M. E. Splitt, and D. D. Turner, ARM southern Great Plains site observations of the smoke pall associated with the 1998 Central American Fires, *Bull. Amer. Meteor. Soc.*, **81**, No. 11, 2563–2591, 2000.
- [Reid, J. S.](#), J. E. Kinney, D. L. Westphal, B. N. Holben, E. J. Welton, S. -C. Tsay, D. P. Eleuterio, J. R. Campbell, S. A. Christopher, H. H. Jonsson, J. M. Livingston, H. B. Maring, M. Meier, P. Pilewskie, J. Prospero, E. A. Reid, L. A. Remer, P. B. Russell, D. L. Savoie, A. Smirnov, and D. Tanre, Analysis of measurements of Saharan dust by airborne and ground-based remote sensing methods during the Puerto Rico Dust Experiment (PRIDE), *J. Geophys. Res.*, **108**(D19), doi:10.1029/2002JD002493, 2003.
- [Sassen, K.](#), and J. R. Campbell, A remote sensing midlatitude cirrus cloud climatology: I. Macrophysical and synoptic properties, *J. Atmos. Sci.*, **58**, Vol. 5, 481–496, 2001.
- [Sassen K.](#), J. R. Campbell, Z. Wang, P. Kollias, M. Shupe, and C. Williams, Lidar and triple-wavelength Doppler radar measurements of the melting layer, *J. Appl. Meteorol.*, **44**, 301–312, 2005.
- [Sassen K.](#), S. Matrosov and J. Campbell, CloudSat spaceborne 94 GHz radar bright bands in the melting layer: An attenuation-driven upside-down lidar analog, *Geophys. Res. Lett.*, **34**, L16818, doi:10.1029/2007GL030291, 2007.
- Schmid, B., J. Redemann, P. B. Russell, P. V. Hobbs, D. L. Hlavka, M. J. McGill, B. N. Holben, E. J. Welton, J. R. Campbell, O. Torres, R. A. Kahn, D. J. Diner, M. C. Hemlinger, D. A. Chu, C. Robles Gonzalez, G. de Leeuw, Coordinated airborne, spaceborne and ground-based measurements of massive, thick aerosol layers during the dry season in southern Africa, *J. Geophys. Res.*, **108**(D13), 8496, doi:10.1029/2002JD002297, 2003.

Shiobara, M., M. Yabuki, R. Neuber, J. D. Spinhirne, E. J. Welton, J. R. Campbell, W. D. Hart and T. A. Berkoff, Arctic experiment for ICESat/GLAS ground validation with a Micro-Pulse Lidar at Ny-Ålesund, Svalbard, *Polar Meteorol. Glaciol.*, **20**, 28–39, 2006.

Welton, E. J., J. R. Campbell, J. D. Spinhirne and V. S. Scott, Global monitoring of clouds and aerosols using a network of micro-pulse lidar systems, *Proc. Int. Soc. Opt. Eng.*, **4153**, 151–158, 2001.

[Welton, E. J.](#), and J. R. Campbell, Micro-pulse lidar signals: Uncertainty analysis, *J. Atmos. Oceanic Technol.*, **19**, 2089–2094, 2002.

[Welton, E. J.](#), K. J. Voss, P. K. Quinn, P. J. Flatau, K. Markowicz, J. R. Campbell, J. D. Spinhirne, H. R. Gordon, and J. E. Johnson, Measurements of aerosol vertical profiles and optical properties during INDOEX 1999 using micro-pulse lidars, *J. Geophys. Res.*, **107**, 8019, doi:10.1029/2000JD000038, 2002.