

## PUBLICATIONS

- Dibb, J. E., (1983) Hydrogeochemical kinetics of cadmium distribution in the Vestal, NY, Well Field No. 1; Master of Arts Thesis, State University of New York, Binghamton, 60 pp.
- Dibb, J. E., (1988) The dynamics of beryllium-7 in Chesapeake Bay; Ph.D. Dissertation, State University of New York, Binghamton, 118 pp.
- Dibb, J. E., and D. L. Rice (1988) Chernobyl fallout in the Chesapeake Bay region; *Journal of Environmental Radioactivity*, 7 (193-196).
- Dibb, J. E., (1989) Atmospheric deposition of beryllium-7 in the Chesapeake Bay region; *Journal of Geophysical Research*, 94 (2261-2265).
- Dibb, J. E., and D. L. Rice (1989) Temporal and spatial distribution of beryllium-7 in the sediments of Chesapeake Bay; *Estuarine, Coastal and Shelf Science*, 28 (395-406).
- Dibb, J. E., and D. L. Rice (1989) The geochemistry of beryllium-7 in Chesapeake Bay; *Estuarine, Coastal and Shelf Science*, 28 (379-394).
- Dibb, J. E., (1989) The Chernobyl reference horizon (?) on the Greenland ice sheet; *Geophysical Research Letters*, 16 (987-990).
- Mayewski, P. A., M. J. Spencer, W. B. Lyons, M. S. Twickler, and J. E. Dibb (1989) Ice core records and ozone depletion - Potential for a proxy ozone record; *Antarctic Journal of the United States*, 23 (64-68).
- Dibb, J. E., (1990) Recent deposition of  $^{210}\text{Pb}$  on the Greenland ice sheet; *Annals of Glaciology*, 14 (51-54).
- Dibb, J. E., P. A. Mayewski, C. F. Buck, and S. M. Drummey (1990) Beta radiation from snow; *Nature*, 344 (25).
- Dibb, J. E., (1990)  $^7\text{Be}$  and  $^{210}\text{Pb}$  in the atmosphere and surface snow over the Greenland ice sheet in the summer of 1989; *Journal of Geophysical Research*, 95 (22407-22415).
- Dibb, J. E., (1992) The accumulation of  $^{210}\text{Pb}$  at Summit, Greenland since 1855; *Tellus*, 44B (72-79).
- Dibb, J. E., J. L. Jaffrezo, and M. Legrand (1992) Initial findings of recent investigations of air-snow relationships in the Summit region of Greenland; *Journal of Atmospheric Chemistry*, 14 (167-180).

- Dibb, J. E., R. W. Talbot, and G. L. Gregory (1992)  $^7\text{Be}$  and  $^{210}\text{Pb}$  in the western hemisphere Arctic atmosphere: Observations from three recent aircraft-based sampling programs; *Journal of Geophysical Research*, 97 (16,709-16,715).
- Borys, R. D., D. Del Vecchio, J.-L. Jaffrezo, J. Dibb, and D. L. Mitchell (1992) Field observations, measurements, and preliminary results from a study of wet deposition processes influencing snow and ice chemistry at Summit, Greenland; in, ed., S. E. Schwarz and W. G. N. Slinn, Precipitation Scavenging and Atmosphere-Surface Exchange Processes, vol.3, (1693-1702) Hemisphere Publishing Corporation.
- Whitlow, S., P. A. Mayewski, and J. E. Dibb (1992) A comparison of major chemical species seasonal concentration and accumulation at South Pole and Summit, Greenland; *Atmospheric Environment*, 26A (2045-2054).
- Dibb, J. E., (1993) Further insights into air-snow relationships at Summit, Greenland from beryllium-7 and lead-210; in, ed., N. Z. Heidam, Proceedings of the 5th International Symposium on Arctic Air Chemistry, Copenhagen, Denmark, September 8-10, 1992, National Environmental Research Institute, Technical Report No. 70.
- Dibb, J. E., and J.-L. Jaffrezo (1993) Beryllium-7 and lead-210 in aerosol and snow in the Dye 3 Gas, Aerosol and Snow Sampling Program; *Atmospheric Environment*, 27A (2751-2760).
- Dibb, J. E., R. A. Rasmussen, P. A. Mayewski, and G. Holdsworth (1993) Northern hemisphere concentrations of methane and nitrous oxide since 1800: Results from the Mt. Logan and 20D ice cores; *Chemosphere*, 27 (2413-2423).
- Bianchi, T. S., J. E. Dibb, and S. Findlay (1993) Early diagenesis of plant pigments in Hudson River sediments; *Estuarine, Coastal and Shelf Science*, 36 (517-527).
- Davidson, C. I., J.-L. Jaffrezo, B. W. Moshier, J. E. Dibb, R. D. Borys, B. A. Bodhaine, R. A. Rasmussen, C. F. Boutron, U. Gurlach, H. Cachier, J. Ducret, J.-L. Colin, N. Z. Heidam, K. Kemp, and R. Hillamo (1993) Chemical constituents in the air and snow at Dye 3, Greenland: I. Seasonal variations; *Atmospheric Environment*, 27A (2709-2722).
- Davidson, C. I., J.-L. Jaffrezo, B. W. Moshier, J. E. Dibb, R. D. Borys, B. A. Bodhaine, R. A. Rasmussen, C. F. Boutron, F. M. Ducroz, H. Cachier, J. Ducret, J.-L. Colin, N. Z. Heidam, K. Kemp, and R. Hillamo (1993) Chemical constituents in the air and snow at Dye 3, Greenland: II. Analysis of episodes in April 1989; *Atmospheric Environment*, 27A (2723-2738).
- Dibb, J. E., L. D. Meeker, R. C. Finkel, J. R. Southon, M. W. Caffee, and L. A. Barrie (1994) Estimation of stratospheric input to the Arctic troposphere:  $^7\text{Be}$  and  $^{10}\text{Be}$  in aerosols at Alert; *Journal of Geophysical Research*, 99 (12,855-12,864).

- Dibb, J. E., R.W. Talbot, and M. H. Bergin (1994) Soluble acidic species in air and snow at Summit, Greenland; *Geophysical Research Letters*, 21 (1627-1630).
- Bergin, M. H., J.-L. Jaffrezo, C. I. Davidson, R. Caldow, and J. Dibb (1994) Fluxes of chemical species to the Greenland ice sheet at Summit by fog and dry deposition; *Geochimica et Cosmochimica Acta*, 58 (3207-3215).
- Dunphy, P. P., and J. E. Dibb (1994)  $^{137}\text{Cs}$  Gamma-Rays from fallout detected at Summit, Greenland; *Journal of Glaciology*, 40 (87-92).
- Dunphy, P. P., J. E. Dibb, and E. L. Chupp (1994) A gamma-ray detector for in-situ measurements of  $^{137}\text{Cs}$  radioactivity in snowfields and glaciers; *Nuclear Instruments and Methods in Physics Research A*, 353 (482-485).
- Jaffrezo, J. L., C. I. Davidson, M. Legrand, and J. E. Dibb (1994) Sulfate and MSA in the air and snow on the Greenland ice sheet; *Journal of Geophysical Research*, 99 (1241-1254).
- Wake, C. P., J. E. Dibb, P.A. Mayewski, Z. Xie, Z. Li, W. Ping, and D. Qin (1994) The chemical composition and distribution of aerosols over the eastern Himalaya and Tibetan Plateau during low dust periods; *Atmospheric Environment*, 28A (695-704).
- Whitlow, S. I., P. A. Mayewski, G. Holdsworth, M. S. Twickler, and J. E. Dibb (1994) An ice core based record of biomass burning in North America, 1750-1980; *Tellus*, 46B (234-242).
- Bales, R. C., J. R. McConnell, M. V. Losleben, M. H. Conklin, K. Fuhrer, A. Neftel, J. E. Dibb, J. D. W. Kahl, and C. R. Stearns (1995) The diel variations in  $\text{H}_2\text{O}_2$  in Greenland: A discussion of the cause and effect relationship; *Journal of Geophysical Research*, 100 (18,661-18,668).
- Bergin, M. H., C. I. Davidson, J. E. Dibb, J.-L. Jaffrezo, H. D. Kuhns, and S. N. Pandis (1995) A simple model to estimate atmospheric concentrations of aerosol chemical species based on snow core chemistry at Summit, Greenland; *Geophysical Research Letters*, 22 (3517-3520).
- Bergin, M.H., J.-L. Jaffrezo, C. I. Davidson, J. E. Dibb, S. N. Pandis, R. Hillamo, W. Maenhaut, H. D. Kuhns, and T. Makela (1995) The contributions of snow, fog and dry deposition to the summer fluxes of major anions and cations at Summit, Greenland; *Journal of Geophysical Research*, 100 (16,275-16,288).
- Bergin, M. H., C. I. Davidson, J.-L. Jaffrezo, J. E. Dibb, R. Hillamo, H. D. Kuhns, and T. Makela (1995) The contributions of wet, fog and dry deposition to the summer  $\text{SO}_4^{2-}$  flux at Summit, Greenland; in, ed., R. J. Delmas, Ice Core Studies of Global Biogeochemical Cycles, NATO ASI Series I, vol. 30, pp. 121-138, Springer-Verlag.

- Jaffrezo, J.-L., J. E. Dibb, R. C. Bales, and A. Neftel (1995) Current status of atmospheric studies at Summit (Greenland) and implications for future research; in, ed., R. J. Delmas, Ice Core Studies of Global Biogeochemical Cycles, NATO ASI Series I, vol. 30, pp. 427-458, Springer-Verlag.
- Mayewski, P. A., W. B. Lyons, G. Zielinski, M. Twickler, S. Whitlow, J. Dibb, P. Grootes, K. Taylor, P.-Y. Whung, L. Fosberry, C. Wake, and K. Welch (1995) An ice-core-based, late Holocene history for the Transantarctic Mountains, Antarctica; *Antarctic Research Series*, 67 (33-45).
- Yang, Q., P. A. Mayewski, S. Whitlow, M. Twickler, M. Morrison, R. Talbot, J. Dibb, and E. Linder (1995) Global perspective of nitrate flux in ice cores; *Journal of Geophysical Research*, 100 (5113-5121).
- Dibb, J. E., (1996) Overview of field data on the deposition of aerosol-associated species to the surface snow of polar glaciers, particularly recent work in Greenland; in "Processes of Chemical Exchange between the Atmosphere and Polar Snow" (ed. E. W. Wolff and R. C. Bales) NATO ASI Series, 43 (249-274), Springer, New York, N.Y.
- Dibb, J. E., and S. I. Whitlow (1996) Recent climate anomalies and their impact on snow chemistry at South Pole, 1987-1994; *Geophysical Research Letters*, 23 (1115-1118).
- Dibb, J. E., R. W. Talbot, K. I. Klemm, G. L. Gregory, H. B. Singh, J. D. Bradshaw, and S. T. Sandholm (1996) Asian influence over the western Pacific during the fall season: Inferences from lead-210, soluble ionic species and ozone; *Journal of Geophysical Research*, 101 (1779-1792).
- Dibb, J. E., R. W. Talbot, S. I. Whitlow M. C. Shipham, J. Winterle, J. McConnell, and R. Bales (1996) Biomass burning signatures in the atmosphere and snow at Summit, Greenland: An event on 5 August, 1994; *Atmospheric Environment*, 30 (553-561).
- Bergin, M. H., S. N. Pandis, C. I. Davidson, J.-L. Jaffrezo, J. E. Dibb, A. G. Russell, and H. D. Kuhns (1996) Modeling of the processing and removal of trace gas and aerosol species by Arctic radiation fogs and comparisons with measurements; *Journal of Geophysical Research*, 101 (14,465-14,478).
- Currie, L. A., B. A. Benner, G. A. Klouda, J. M. Conny, and J. E. Dibb (1996) Tracking biomass burning aerosol: From the combustion laboratory to Summit, Greenland. Workshop on Global Climate Change; *Radiocarbon*, 38 (20).
- Newell, R. E., and 35 others including J. E. Dibb (1996) Atmospheric sampling of Supertyphoon Mireille with NASA DC-8 aircraft on September, 27, 1991, during PEM-West A; *Journal of Geophysical Research*, 101 (1853-1871).
- Talbot, R. W., J. E. Dibb, K. I. Klemm, J. D. Bradshaw, S. T. Sandholm, D. R. Blake, G. W. Sachse, J. Collins, G. L. Gregory, B. E. Anderson, H. B. Singh, and D. C.

- Thornton (1996) Chemical characteristics of continental outflow from Asia to the troposphere over the western Pacific ocean during September-October 1991: Results from PEM WEST A; *Journal of Geophysical Research*, 101 (1713-1725).
- Dibb, J. E., and H. B. Clausen (1997) A 200 year  $^{210}\text{Pb}$  record from Greenland; *Journal of Geophysical Research*, 102 (4325-4332).
- Dibb, J. E., and J. -L. Jaffrezo (1997) Air-snow investigations at Summit: An overview; *Journal of Geophysical Research C*, 102 (26,795-26,807).
- Dibb, J. E., R. W. Talbot, B. L. Lefer, E. Scheuer, G. L. Gregory, E. V. Browell, J. D. Bradshaw, S. T. Sandholm, and H. B. Singh (1997) Distributions of beryllium-7 and lead-210 over the western Pacific: PEM West B, February - March, 1994; *Journal of Geophysical Research*, 102 (28,287-28,302).
- Arimoto, R., R. A. Duce, J. M. Prospero, D. L. Savoie, R. W. Talbot, J. E. Dibb, B. G. Heikes, B. J. Ray, N. F. Lewis, and U. Tomza (1997) Comparisons of trace constituents from ground stations and the DC-8 aircraft during PEM-West B; *Journal of Geophysical Research*, 102 (28,539-28,550).
- Kuhns, H., C. Davidson, J. Dibb, C. Stearns, M. Bergin, and J.-L. Jaffrezo (1997) Temporal and spatial variability of snow accumulation in central Greenland; *Journal of Geophysical Research*, 102 (30,059-30,068).
- Shresta, A. B., C. P. Wake, and J. E. Dibb (1997) Chemical composition of aerosol and snow in the High Himalaya during the summer monsoon season; *Atmospheric Environment*, 31 (2815-2826).
- Talbot, R. W., J. E. Dibb, B. L. Lefer, J. D. Bradshaw, S. T. Sandholm, D. R. Blake, N. J. Blake, G. W. Sachse, J. E. Collins, Jr., B. G. Heikes, J. T. Merrill, G. L. Gregory, B. E. Anderson, H. B. Singh, D. C. Thornton, A. R. Bandy, and R. F. Pueschel (1997) Chemical characteristics of continental outflow from Asia to the troposphere over the western Pacific ocean during February - March, 1994: Results from PEM-West B; *Journal of Geophysical Research*, 102 (28,255-28,274).
- Talbot, R. W., J. E. Dibb, B. L. Lefer, E. M. Scheuer, J. D. Bradshaw, S. T. Sandholm, S. Smyth, D. R. Blake, N. J. Blake, G. W. Sachse, J. E. Collins, and G. L. Gregory (1997) Large-scale distributions of tropospheric nitric, formic and acetic acids over the western Pacific basin during wintertime; *Journal of Geophysical Research*, 102 (28,303-28,313).
- Thornton, D. C., A. R. Bandy, B. W. Blomquist, R. W. Talbot, and J. E. Dibb (1997) Transport of sulfur dioxide from the Asian Pacific Rim to the North Pacific troposphere; *Journal of Geophysical Research*, 102 (28,489-28, 499).

- Zielinski, G. A., J. E. Dibb, Q. Yang, P. A. Mayewski, S. Whitlow, M. S. Twickler, and M. S. Germani (1997) Assessment of the record of the 1982 El Chicón eruption as preserved in Greenland snow; *Journal of Geophysical Research*, 102 (30,031-30,045).
- Dibb, J. E., R. W. Talbot, J. W. Munger, D. J. Jacob, and S.-M. Fan (1998) Air-snow exchange of HNO<sub>3</sub> and NO<sub>y</sub> at Summit, Greenland; *Journal of Geophysical Research*, 103 (3475-3486).
- Dibb, J. E., R. W. Talbot, and M. B. Loomis (1998) Tropospheric sulfate distribution during SUCCESS: Contributions from jet exhaust and surface sources; *Geophysical Research Letters*, 25 (1375-1378).
- Bergin, M. H., E. A. Meyerson, J. E. Dibb, and P. A. Mayewski (1998) Relationship between continuous aerosol measurements and firn core chemistry over a 10-year period at the South Pole; *Geophysical Research Letters*, 25 (1189-1192).
- Currie, L. A., J. E. Dibb, G. A. Klouda, B. A. Benner, J. M. Conny, S. R. Biegalski, D. B. Klinedinst, D. R. Cahoon, and N. C. Hsu (1998) The pursuit of isotopic and molecular fire tracers in the polar atmosphere and cryosphere; *Radiocarbon*, 40 (381-390).
- Guelle, W., Y. J. Balkanski, J. E. Dibb, M. Schulz, and F. Dulac (1998) Wet deposition in a global size-dependent aerosol transport model: 2. Influence of the scavenging scheme on <sup>210</sup>Pb vertical profiles, surface concentrations and deposition; *Journal of Geophysical Research*, 103 (28,875-28,891).
- Sun, J., D. Qin, P. A. Mayewski, J. E. Dibb, S. Whitlow, Z. Li and Q. Yang (1998) Soluble species in aerosol and snow and their relationship at Glacier 1, Tien Shan, China, *Journal of Geophysical Research*, 103, (28,021-28,028).
- Tabazadeh, A., M. Z. Jacobson, H. B. Singh, O. B. Toon, J. S. Lin, B. Chatfield, A. N. Thakur, R. W. Talbot, and J. E. Dibb (1998) Nitric acid scavenging by mineral and biomass aerosols; *Geophysical Research Letters*, 25 (4185-4188).
- Talbot, R. W., J. E. Dibb, and M. B. Loomis (1998) Influence of vertical transport on free tropospheric aerosols over the central USA in springtime; *Geophysical Research Letters*, 25 (1367-1370).
- Dibb, J. E., R. W. Talbot, L. D. Meeker, E. M. Scheuer, N. J. Blake, D. R. Blake, G. L. Gregory, and G. W. Sachse (1999) Constraints on the age and dilution of PEM Tropics biomass burning plumes from the natural radionuclide tracer <sup>210</sup>Pb; *Journal of Geophysical Research*, 104 (16,233-16,241).
- Board, A. S., H. E. Fuelberg, G. L. Gregory, B. G. Heikes, M. G. Schultz, D. R. Blake, J. E. Dibb, S. T. Sandholm, and R. W. Talbot (1999) Chemical characteristics of air from differing source regions during the Pacific Exploratory Mission-Tropics A (PEM Tropics A); *Journal of Geophysical Research*, 104 (16,181-16,196).

- Doran, P. T., G. W. Berger, W. B. Lyons, R. A. Wharton, Jr., L. Davisson, J. Southon, and J. E. Dibb (1999) Dating Quaternary lacustrine sediments in the McMurdo Dry Valleys Antarctica; *Palaeogeography, Palaeoclimatology, Palaeoecology*, 147 (223-239).
- Fenn, M. A., and 20 others including J. E. Dibb (1999) Ozone and aerosol distributions and air mass characteristics over the south Pacific during the burning season; *Journal of Geophysical Research*, 104, (16,197-16,212).
- Honrath, R. E., M. C. Peterson, S. Guo, J. E. Dibb, P. B. Shepson, and B. Campbell (1999) Evidence of NO<sub>x</sub> production within or upon ice particles in the Greenland snowpack; *Geophysical Research Letters*, 26 (695-698).
- Morse, D. L., E. D. Waddington, H.-P. Marshall, T. A. Neumann, E. J. Steig, J. E. Dibb, D. P. Winebrenner and R. J. Arthern, accumulation rate measurements at Taylor Dome, East Antarctica: Techniques and strategies for mass balance measurements in polar environments; *Geografiska Annaler*, 81A (683-694).
- Munger, J. W., D. J. Jacob, S.-M. Fan, A. S. Colman, and J. E. Dibb (1999) Concentrations and snow-atmosphere fluxes of reactive nitrogen at Summit, Greenland; *Journal of Geophysical Research*, 104 (13,721-13,734).
- Shrestha, A. B., C. P. Wake, P. A. Mayewski, and J. E. Dibb (1999) Maximum temperature trends in the Himalaya and its vicinity: An analysis based on temperature records from Nepal for the period 1971-94; *Journal of Climate*, 12 (2775-2786).
- Talbot, R. W., J. E. Dibb, E. M. Scheuer, D. R. Blake, N. J. Blake, G. L. Gregory, G. W. Sachse, J. D. Bradshaw, S. T. Sandholm, and H. B. Singh (1999) Influence of biomass combustion emissions on the distribution of acidic trace gases over the southern Pacific basin during austral springtime; *Journal of Geophysical Research*, 104 (5623-5634).
- Talbot, R. W., J. E. Dibb, E. M. Scheuer, Y. Kondo, M. Koike, H. B. Singh, L. B. Salas, Y. Fukui, J. O. Ballenthin, R. F. Meads, T. M. Miller, D. E. Hunton, A. A. Viggiano, D. R. Blake, N. J. Blake, E. Atlas, F. Flocke, D. J. Jacob, and L. Jaegle (1999) Reactive nitrogen budget during the NASA SONEX mission; *Geophysical Research Letters*, 26 (3057-3060).
- Dibb, J. E., R. W. Talbot and E. M. Scheuer (2000) Composition and distribution of aerosols over the North Atlantic during the Subsonic Assessment Ozone and Nitrogen Oxide Experiment (SONEX); *Journal of Geophysical Research*. 105 (3709-3717).
- Honrath, R. E., M. C. Peterson, M. P. Dziobak, J. E. Dibb, M. A. Arsenault, and S. Green, (2000) Release of NO<sub>x</sub> from sunlight-irradiated midlatitude snow; *Geophysical Research Letters*, 27 (2237-2240).

- Honrath, R. E., S. Guo, M. C. Peterson, M. P. Dziobak, J. E. Dibb and M. A. Arsenault (2000) Photochemical production of gas-phase  $\text{NO}_x$  from ice crystal  $\text{NO}_3^-$ ; *Journal of Geophysical Research*, 105 (24,183-24,190).
- Schultz, M. G., D. J. Jacob, J. D. Bradshaw, S. T. Sandholm, J. E. Dibb, R. W. Talbot, and H. B. Singh (2000) Chemical  $\text{NO}_x$  budget in the upper troposphere over the tropical South Pacific; *Journal of Geophysical Research*.105, (6669-6679).
- Shrestha, A. B., C. P. Wake, J. E. Dibb, and P. A. Mayewski (2000) Precipitation fluctuations in the Nepal Himalaya and its vicinity and relationship with some large scale climatological parameters; *International Journal of Climatology*, 20 (317-327).
- Shrestha, A. B., C. P. Wake, J. E. Dibb, M. A. Mayewski, S. I. Whitlow, G. R. Carmichael, and M. Ferm (2000) Seasonal variations in aerosol concentrations and compositions in the Nepal Himalaya, *Atmospheric Environment*, 34 (3349-3363).
- Talbot, R. W., J. E. Dibb, E. M. Scheuer, J. D. Bradshaw, S. T. Sandholm, H. B. Singh, D. R. Blake, N. J. Blake, E. Atlas, and F. Flocke (2000) Tropospheric reactive odd-nitrogen over the south Pacific in austral springtime; *Journal of Geophysical Research*, 105 (6681-6694).
- Slater, J. F., J. E. Dibb, B. D. Keim, and J. D. W. Kahl (2001) Relationships between synoptic-scale transport and interannual variability of inorganic cations in surface snow at Summit, Greenland: 1992-96, *Journal of Geophysical Research*, 106 (20,897-20,912).
- Dibb, J. E., and M. Arsenault (2002) Shouldn't snowpacks be sources of monocarboxylic acids?, *Atmospheric Environment*, 36, 2513-2522.
- Dibb, J. E., M. Arsenault, M. C. Peterson and R. E. Honrath (2002) Fast nitrogen oxide photochemistry in Summit, Greenland snow, *Atmospheric Environment*, 36, 2501-2511.
- Dibb, J. E., R. W. Talbot, G. Seid, C. Jordan, E. Scheuer, E. Atlas, N. J. Blake and D. R. Blake, Airborne sampling of aerosol particles: Comparison between surface sampling at Christmas Island and P-3 sampling during PEM Tropics B, *Journal of Geophysical Research*, 107, 8230, doi:10.1029/2001JD000408, 2002.
- Bottenheim, J. W., J. E. Dibb, R. E. Honrath and P. B. Shepson (2002) An introduction to the ALERT2000 and Summit2000 Arctic research studies, *Atmospheric Environment*, 36, 2467-2469.
- Ford, K. M., B.M. Campbell, P.B. Shepson, S.B. Bertman, R. E. Honrath, M. Peterson and J.E. Dibb (2002) Studies of Peroxyacetyl nitrate (PAN) and its interaction with the snowpack at Summit, Greenland, *Journal of Geophysical Research*, doi:10.1029/2001JD000547, 2002



- Honrath, R. E., M. C. Peterson, Y. Lu, J. E. Dibb, M. A. Arsenault, N. J. Cullen and K. Steffen (2002) Vertical fluxes of NO<sub>x</sub>, HONO, and HNO<sub>3</sub> above the snowpack at Summit, Greenland, *Atmospheric Environment*, 36, 2629-2640.
- Shresta, A. B., C. P. Wake, J. E. Dibb and S. I. Whitlow (2002) Aerosol and precipitation chemistry at a remote Himalayan site in Nepal, *Aerosol Science and Technology*, 36, 441-456.
- Slater, J. F., J. E. Dibb, B. D. Keim, and R. W. Talbot, (2002) Light extinction by fine atmospheric particles in the White Mountain region of New Hampshire and its relationship to air mass transport, *Science of the Total Environment*, 287 (221-239).
- Slater, J. F., L. A. Currie, J. E. Dibb and B. A. Benner, (2002) Distinguishing the relative contribution of fossil-fuel and biomass combustion aerosols deposited at Summit, Greenland through the isotopic and molecular characterization of particulate carbon, *Atmospheric Environment* 36, 4463-4477.
- Slusher, D. L., L. G. Huey, D. J. Tanner, G. Chen, D. D. Davis, M. Buhr, F. L. Eisele, E. Kosciuch, R. L. Mauldin, B. L. Lefer, R. E. Shetter, and J. E. Dibb, Measurements of pernitric acid at the South Pole during ISCAT 2000, *Geophysical Research Letters*, 29, 2011, doi: 10.1029/2002GL015703, 2002.
- Swanson, A. L., N. J. Blake, D. R. Blake, F. S. Rowland and J. E. Dibb (2002) Photochemically induced production of CH<sub>3</sub>Br, CH<sub>3</sub>I, C<sub>2</sub>H<sub>5</sub>I, ethene and propene within surface snow, *Atmospheric Environment*, 36, 2671-2682.
- Yang, J., R. E. Honrath, M. C. Peterson, J. E. Dibb, A. L. Sumner, P. B. Shepson, M. Frey, H.-W. Jacobi, A. Swanson, and N. Blake (2002) Impacts of snowpack photochemistry on levels of OH and peroxy radicals at Summit, Greenland, *Atmospheric Environment*, 36, 2523-2534.
- Dibb, J. E., R. W. Talbot, E. Scheuer, G. Seid, L. J. DeBell, B.L. Lefer, and B. A. Ridley, Stratospheric influence on the northern North American free troposphere during TOPSE: <sup>7</sup>Be as a stratospheric tracer, *Journal of Geophysical Research*, 108 (D4), 8363, doi:10.1029/2001JD001347, 2003.
- Dibb, J. E., R. W. Talbot, E. Scheuer, G. Seid, M. A. Avery, and H. B. Singh, Aerosol chemical composition in Asian continental outflow during TRACE-P: Comparison to PEM-West B, *Journal of Geophysical Research*, 108 (D21), 8815, doi:10.1029/2002JD003111, 2003.
- Allen, D. J., J. E. Dibb, B. Ridley, K. E. Pickering, and R. W. Talbot, An estimate of the stratospheric contribution to springtime tropospheric ozone trends using TOPSE measurements and beryllium-7 simulations, *Journal of Geophysical Research*, 108 (D4), 8355, doi:10.1029/2001JD001428, 2003.

- Browell, E. V., J. W. Hair, C. F. Butler, W. B. Grant, R. J. De Young, M. A. Fenn, V. G. Brackett, M. B. Clayton, L. A. Brasseur, D. B. Harper, B. A. Ridley, A. A. Klonecki, P. G. Hess, L. K. Emmons, X. Tie, E. L. Atlas, C. A. Cantrell, A. J. Wimmers, D. R. Blake, M. T. Coffey, J. W. Hannigan, J. E. Dibb, R. W. Talbot, F. L. Eisele, F. Flocke, A. J. Weinheimer, A. Fried, B. Wert, J. A. Snow, and B. Lefer, Ozone, aerosol, potential vorticity, and trace gas trends observed at high-latitudes over north America from February to May 2000, *Journal of Geophysical Research*, 108 (D4), 8369, doi:10.1029/2001JD001390, 2003.
- Browell, E. V., M. A. Fenn, C. F. Butler, W. B. Grant, V. G. Brackett, J. W. Hair, M. A. Avery, R. E. Newell, Y. Hu, H. E. Fuelberg, D. J. Jacob, B. E. Anderson, E. L. Atlas, D. R. Blake, W. H. Brune, J. E. Dibb, A. Fried, B. J. Heikes, G. W. Sachse, S. T. Sandholm, H. B. Singh, R. W. Talbot, S. A. Vay, and R. J. Weber, Large-scale ozone and aerosol distributions, air mass characteristics, and ozone fluxes over the western Pacific ocean in late-winter/early spring, *Journal of Geophysical Research*, 108 (D20), 8805, doi:10.1029/2002JD003290, 2003.
- Cantrell, C. A., L. Mauldin, M. Zondlo, F. Eisele, E. Kosciuch, R. Shetter, B. Lefer, S. Hall, T. Campos, B. Ridley, J. Walega, A. Fried, B. Wert, F. Flocke, A. Weinheimer, J. Hannigan, M. Coffey, E. Atlas, S. Stephens, B. Heikes, J. Snow, D. Blake, N. Blake, A. Katsenstein, J. Lopez, E. V. Browell, J. Dibb, E. Scheuer, G. Seid and R. Talbot, Steady state free radical budgets and ozone photochemistry during TOPSE, *Journal of Geophysical Research*, 108 (D4), 8361, doi:10.1029/2002JD002198, 2003.
- Carrico, C. M., M. H. Bergin, A. B. Shrestha, J. E. Dibb, L. Gomes, and J. M. Harris, The importance of carbon and mineral dust to seasonal aerosol properties in the Nepal Himalaya, *Atmospheric Environment*, 37, 2811-2824, 2003.
- Eisele, F. L., L. Mauldin, C. Cantrell, M. Zondlo, E. Apel, A. Fried, J. Walega, R. Shetter, B. Lefer, F. Flocke, A. Weinheimer, M. Avery, S. Vay, G. Sachse, H. B. Singh, W. Brune, H. Harder, M. Martinez, A. Bandy, D. Thornton, B. Heikes, Y. Kondo, D. Reimer, S. Sandholm, D. Tan, R. Talbot and J. Dibb, Summary of measurement intercomparisons during TRACE-P, *Journal of Geophysical Research*, 108 (D20), 8791, doi:10.1029/2002JD3167, 2003.
- Evans, M. J., D. J. Jacob, E. Atlas, C. A. Cantrell, F. Eisele, F. Flocke, A. Fried, R. L. Mauldin, B. A. Ridley, B. Wert, J. Walega, A. Weinheimer, D. Blake, B. Heikes, J. Snow, R. Talbot and J. Dibb, Coupled evolution of  $\text{BrO}_x$ - $\text{ClO}_x$ - $\text{HO}_x$ - $\text{NO}_x$  chemistry during bromine-catalyzed ozone depletion events in the arctic boundary layer, *Journal of Geophysical Research*, 108(D4), 8368, doi:10.1029/2002JD002732, 2003.
- Fried, A., Y. Wang, C. Cantrell, B. Wert, J. Walega, B. Ridley, E. Atlas, R. Shetter, B. Lefer, M. Coffey, B. Mankin, J. Hannigan, D. Blake, N. Blake, S. Meinardi, B. Talbot, J. Dibb, O. Wingenter, J. Snow, B. Heikes, and D. Ehhalt, Tunable diode laser measurements of formaldehyde during the TOPSE 2000 study: Distributions, trends and

- model comparisons, *Journal of Geophysical Research*, 108 (D4), doi:10.1029/2002JD002208, 2003.
- Jordan, C. E., J. E. Dibb, and R. C. Finkel,  $^{10}\text{Be}/^7\text{Be}$  a tracer of atmospheric transport and stratosphere-troposphere exchange, *Journal of Geophysical Research*, 108(D8), 4234, doi:10.1029/2002JD002395, 2003.
- Jordan, C. E., J. E. Dibb, B. E. Anderson, and H. E. Fuelberg, Uptake of nitrate and sulfate on dust aerosols during TRACE-P, *Journal of Geophysical Research*, 108 (D21), 8817, doi:10.1029/2002JD003101, 2003.
- Jordan, C. E., B. E. Anderson, R. W. Talbot, J. E. Dibb, H. E. Fuelberg, C. H. Hudgins, C. M. Kiley, R. Russo, E. Scheuer, G. Seid, K. L. Thornhill, and E. Winstead, Chemical and physical properties of bulk aerosols within four sectors observed during TRACE-P, *Journal of Geophysical Research*, 108 (D21), 8813, doi:10.1029/2002JD003337, 2003.
- Ridley, B. A., E. L. Atlas, D. D. Montzka, E. V. Browell, C. A. Cantrell, D. R. Blake, N. J. Blake, L. Cinquini, M. T. Coffey, R. C. Cohen, R. J. DeYoung, J. E. Dibb, F. L. Eisle, F. M. Flocke, A. Fried, F. E. Grahek, W. B. Grant, J. W. Hair, J. W. Hannigan, B. J. Heikes, B. L. Lefer, R. L. Mauldin, J. L. Moody, R. E. Shetter, J. A. Snow, R. W. Talbot, J. A. Thornton, J. G. Walega, A. J. Weinheimer, B. P. Wert, and A. J. Wimmers, Ozone depletion events observed in the high latitude surface layer during the TOPSE aircraft program, *Journal of Geophysical Research*, 108 (D4), 8356, doi:10.1029/2001JD001507, 2003.
- Russo, R. Talbot, J. Dibb, E. Scheuer, G. Seid, S. Sandholm, D. Tan, H. Singh, D. Blake, N. Blake, E. Atlas, C. Jordan, G. Sachse, M. Avery, S. Vay, J. Snow, and B. Heikes, Chemical composition of Asian outflow over the western Pacific: Results from TRACE P, *Journal of Geophysical Research*, 108 (D20), 8804, doi:10.1029/2002JD003184, 2003.
- Scheuer, E., R. W. Talbot, J. E. Dibb, G. K. Seid, L. DeBell, and B. Lefer, Seasonal distributions of fine aerosol sulfate in the North American Arctic basin during TOPSE, *Journal of Geophysical Research* 108 (D4), 8370, doi:10/1029/2001JD001364, 2003.
- Talbot, R., J. Dibb, E. Scheuer, G. Seid, R. Russo, S. Sandholm, D. Tan, H. Singh, D. Blake, N. Blake, E. Atlas, G. Sachse, and M. Avery, Reactive nitrogen in Asian continental outflow over the western Pacific: Results from the NASA TRACE-P airborne mission, *Journal of Geophysical Research*, 108 (D20), 8803, doi:10.1029/2002JD003129, 2003.
- Tie, X., L. Emmons, L. Horowitz, G. Brasseur, B. Ridley, E. Atlas, P. Hess, A. Klonecki, S. Madronich, R. Talbot, J. Dibb, D. Marbouty, and J. Hennessy, Effect of sulfate aerosol on tropospheric  $\text{NO}_x$  and ozone budgets model simulations and TOPSE

- evidence, *Journal of Geophysical Research*, 108 (D4), 8364, doi:10.1029/2001JD001508, 2003.
- Wang, Y., B. Ridley, A. Fried, C. Cantrell, D. Davis, G. Chen, J. Snow, B. Heikes, R. Talbot, J. Dibb, F. Flocke, A. Weinheimer, N. Blake, D. Blake, R. Shetter, B. Lefer, E. Atlas, M. Coffey, J. Walega, and B. Wert, Springtime photochemistry at northern mid and high latitudes, *Journal of Geophysical Research*, 108 (D4), 8358, doi:10.1029/2002JD002227, 2003.
- Wang, Y., C. Shim, N. Blake, D. Blake, Y. Choi, B. Ridley, J. Dibb, A. Wimmers, J. Moody, F. Flocke, A. Weinheimer, R. Talbot, and E. Atlas, Intercontinental transport of pollution manifested in the variability and seasonal trend of springtime O<sub>3</sub> at northern mid and high latitudes, *Journal of Geophysical Research*, 108, (D21), 4683, doi:10.1029/2003JD003592, 2003.
- Weber, R. J., D. Orsini, B. Wang, E. Scheuer, R. W. Talbot, J. E. Dibb, G. K. Seid, L. DeBell, R. L. Mauldin, E. Kosciuch, C. Cantrell and F. Eisele, Investigations into free tropospheric new particle production in the central Canadian Arctic during the winter/spring transition as part of TOPSE, *Journal of Geophysical Research*, 108 (D4), 8357, doi:10.1029/2002JD002239, 2003.
- Dibb, J. E., L. G. Huey, D. L. Slusher and D. J. Tanner, Soluble reactive nitrogen oxides at South Pole during ISCAT 2000, *Atmospheric Environment*, 38, 5399-5409, 2004.
- Dibb, J. E., E. Scheuer, S. I. Whitlow, M. Vozella, E. Williams, and B. Lerner, Ship-based nitric acid measurements in the Gulf of Maine during New England Air Quality Study 2002, *Journal of Geophysical Research* 109, D20303, doi:10.1029/2004JD004843, 2004.
- Dibb, J. E., and M. Fahnstock, Snow accumulation, surface height change and firn densification at Summit, Greenland: Insights from two years of in-situ observation, *Journal of Geophysical Research*, 109, D24113, doi:10.1029/2003JD004300, 2004.
- Blake, N. J., D. G. Streets, J.-H. Woo, I. J. Simpson, J. Green, S. Meinardi, K. Kita, E. Atlas, H. E. Fuelberg, G. Sachse, M. A. Avery, S. A. Vay, R. W. Talbot, J. E. Dibb, A. R. Bandy, D. C. Thornton, F. S. Rowland, and D. R. Blake, Carbonyl-sulfide (OCS) and carbon disulfide (CS<sub>2</sub>): Large scale distribution over the Western Pacific and emissions from Asia during TRACE-P, *Journal of Geophysical Research* 109, D15S05, doi:10.1029/2003JD004259, 2004.
- Brown, S. S., J. E. Dibb, H. Stark, M. Aldener, M. Vozella, S. Whitlow, E. J. Williams, B. M. Lerner, R. Jakoubek, A. M. Middlebrook, J. A. De Gouw, C. Warneke, P. D. Goldan, W. C. Kuster, W. M. Angevine, D. T. Sueper, P. K. Quinn, T. S. Bates, J. F. Meagher, F. C. Fehsenfeld, and A. R. Ravishankara, Nighttime removal of NO<sub>x</sub> in the summer marine boundary layer, *Geophysical Research Letters*, 31, L07108, doi:10.1029/2004GL019412, 2004.

- Chen, G., D. Davis, J. Crawford, L. M. Hutterli, L. G. Huey, D. Slusher, L. Mauldin, F. Eisele, D. Tanner, J. Dibb, M. Buhr, J. McConnell, B. Lefer, R. Shetter, D. Blake, C. H. Song, K. Lombardi, and J. Arnoldy, A reassessment of HO<sub>x</sub> South Pole chemistry based on observations recorded during ISCAT 2000, *Atmospheric Environment*, *38*, 5451-5461, 2004.
- Davis, D. D., F. Eisele, G. Chen, J. Crawford, G. Huey, D. Tanner, D. Slusher, L. Mauldin, S. Oncley, D. Lenschow, S. Semmer, R. Shetter, B. Lefer, R. Arimoto, A. Hogan, P. Grube, M. Lazzara, A. Bandy, D. Thornton, H. Berresheim, H. Bingemer, M. Hutterli, J. McConnell, R. Bales, J. Dibb, M. Buhr, J. Park, P. McMurry, A. Swanson, S. Meinardi, and D. Blake, An overview of ISCAT 2000, *Atmospheric Environment*, *38*, 5363-5373, 2004.
- De Bell, L. J. M. Vozella, R. W. Talbot, and J. E. Dibb, Asian dust storm events of spring 2001 and associated pollutants observed in New England by the AIRMAP monitoring network, *Journal of Geophysical Research*, *109*, D01304, doi:10.1029/2003JD003733, 2004.
- DeBell, L. J., R. Talbot, J. E. Dibb, E. V. Fischer, S. Frolking, and J. W. Munger, A major regional air pollution event in the northeastern U. S. caused by extensive forest fires in Quebec, Canada, *Journal of Geophysical Research*, *109*, D19305, doi:10.1029/2004JD004840, 2004.
- Fischer, E. V., R. W. Talbot, J. E. Dibb, J. L. Moody, and G. L. Murray, Summertime Ozone at Mount Washington: Meteorological controls at the highest peak in the northeast, *Journal of Geophysical Research*, *109*, D24303, doi:10.1029/2004JD004841, 2005.
- Huey, L. G., D. J. Tanner, D. L. Slusher, J. E. Dibb, R. Arimoto, G. Chen, D. Davis, M. P. Buhr, J. B. Nowak, R. L. Mauldin, III, F. L. Eisele, and E. Kosciuch, CIMS measurements of HNO<sub>3</sub> and SO<sub>2</sub> at the South Pole during ISCAT 2000, *Atmospheric Environment*, *38*, 5411-5421, 2004.
- Jacobi, H.-W., R. C. Bales, R. E. Honrath, M. C. Peterson, J. E. Dibb, A. L. Swanson and M. R. Albert, Reactive trace gases measured in the interstitial air of surface snow at Summit, Greenland, *Atmospheric Environment*, *38*, 1687-1697, 2004.
- Liu, H., D. J. Jacob, J. E. Dibb, A. M. Fiore, and R. M. Yantosca, Constraints on the sources of tropospheric ozone from <sup>210</sup>Pb-<sup>7</sup>Be-O<sub>3</sub> correlations, *Journal of Geophysical Research* *109*, D7, D07306, 10.1029/2003JD003988, 2004.
- Ma, Y., R. J. Weber, K. Meier, D. A. Orsini, Y.-N. Lee, B. J. Huebert, S. G. Howell, T. Bertram, R. W. Talbot, J. E. Dibb, and E. Scheuer, Intercomparisons of airborne measurements of aerosol ionic chemical composition during TRACE-P and ACE-

- Asia, *Journal of Geophysical Research*, 109, D15S06, doi:10.1029/2003JD003673, 2004.
- Moore, K. G., II, A. D. Clarke, V. N. Kapustin, C. McNaughton, B. E. Anderson, E. L. Winstead, R. Weber, Y. Ma, Y.-N. Lee, R. Talbot, J. Dibb, T. Anderson, S. Doherty, D. Covert, and D. Rogers, A comparison of similar aerosol measurements made on the NASA P-3B, DC-8 and NSF C-130 aircraft during TRACE-P and ACE-Asia, *Journal of Geophysical Research*, 109, D15S15, doi:10.1029/2003JD003543, 2004.
- Slater, J. F., and J. E. Dibb, Relationships between surface and column aerosol radiative properties and air mass transport at a rural New England site, *Journal of Geophysical Research*, 109, D01303, doi:10.1029/2003JD003406, 2004.
- Slater, J. F., J. E. Dibb, J. W. Campbell and T. S. Moore, Physical and Chemical Properties of Surface and Column Aerosols at a Rural New England site during MODIS Overpass, *Remote Sensing of the Environment*, 92, 173-180, 2004.
- Tang, Y., G. R. Carmichael, J. H. Seinfeld, D. Dabdub, R. J. Weber, B. Huebert, A. D. Clarke, S. A. Guazzotti, D. A. Sodeman, K. A. Prather, I. Uno, J.-H. Woo, J. J. Yienger, D. G. Streets, P. K. Quinn, J. E. Johnson, C.-H. Song, V. H. Grassian, A. Sandu, R. W. Talbot, and J. E. Dibb, Three-dimensional studies of aerosol ions and their size distribution in East Asia during Spring 2001, *Journal of Geophysical Research*, 109, D19S23, doi:10.1029/2003JD004201, 2004.
- Currie, L. A., J. D. Kessler, R. A. Fletcher, and J. E. Dibb, Long range transport of biomass aerosol to Greenland: Multi-spectroscopic investigation of particles deposited in the snow, *Journal of Radioanalytical and Nuclear Chemistry*, 263, 399-411, 2005.
- Dibb, J. E., E. Scheuer, M. Avery, J. Plant, and G. Sachse (2006), In situ evidence for renitrification in the Arctic lower stratosphere during the polar aura validation experiment (PAVE), *Geophysical Research Letters*, 33, L12815, doi:10.1029/2006GL026243.
- Liao, W., A. T. Case, J. Mastromarino, D. Tan, and J. E. Dibb (2006), Observations of HONO by laser-induced fluorescence at the South Pole during ANTICI 2003 *Geophysical Research Letters*, 33, L09810, doi:10.1029/2005GL025470.
- Yalcin, K., C. P. Wake, J. E. Dibb, and S. I. Whitlow (2006), Relationships between aerosol and snow chemistry at King Col, Mt. Logan Massif, Yukon, Canada, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.06.028 (print volume 40, 7152-7163).
- Dibb, J. E., (2007), Vertical mixing above Summit, Greenland: Insights into seasonal and high frequency variability from the radionuclide tracers  $^7\text{Be}$  and  $^{210}\text{Pb}$ , *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.12.005.

- Dibb, J. E., S. I. Whitlow, and M. Arsenault (2007), Seasonal variations in the soluble ion content of snow at Summit, Greenland: Constraints from three years of daily surface snow samples, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.12.010.
- Dibb, J. E., et al. (2007), An overview of air-snow exchange at Summit, Greenland: Recent experiments and findings, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.12.006.
- Bertram, T. H., A. E. Perring, P. J. Wooldridge, J. D. Crouse, A. J. Kwan, P. O. Wennberg, E. Scheuer, J. Dibb, M. Avery, G. Sachse, S. A. Vay, J. H. Crawford, C. S. McNaughton, A. Clarke, K. E. Pickering, H. Fuelberg, G. Huey, D. R. Blake, H. B. Singh, S. R. Hall, R. E. Shetter, A. Fried, B. G. Heikes, and R. C. Cohen (2007), Direct measurements of the convective recycling of the upper troposphere, *Science*, doi: 10.1126/science.1134548.
- Beyersdorf, A. J., N. J. Blake, A. L. Swanson, S. Meinardi, J. E. Dibb, S. Sjostedt, G. Huey, B. Lefer, F. S. Rowland, and D. R. Blake (2007), Hydroxyl concentration estimates in the sunlit snowpack at Summit, Greenland, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.08.058.
- Clarke, A., C. McNaughton, V. Kapustin, Y. Shinozuka, S. Howell, J. Dibb, J. Zhou, B. Anderson, V. Brekhovskikh, H. Turner, and M. Pinkerton (2007), Biomass burning and pollution aerosol over North America: Organic components and their influence on spectral optical properties and humidification response, *Journal of Geophysical Research*, 112, D12S18, doi:10.1029/2006JD007777.
- Fairlie, T. D., M. A. Avery, R. B. Pierce, J. Al-Saadi, J. Dibb, and G. Sachse (2007), Impact of multiscale dynamical processes and mixing on the chemical composition of the upper troposphere and lower stratosphere during the Intercontinental Chemical Transport Experiment-North America, *Journal of Geophysical Research*, 112, D16S90, doi:10.1029/2006JD007923.
- Fischer, E. V., L. D. Ziemba, R. W. Talbot, J. E. Dibb, R. J. Griffin, L. Husain, and A. N. Grant (2007), Aerosol major ion record at Mount Washington, *Journal of Geophysical Research*, 112, D02303, doi:10.1029/2006JD007253.
- Grannas, A. M., A. E. Jones, J. Dibb, M. Ammann, C. Anastasio, H. J. Beine, M. Bergin, J. Bottenheim, C. S. Boxe, G. Carver, G. Chen, J. H. Crawford, F. Domine, M. M. Frey, M. I. Guzman, D. E. Heard, D. Helmig, M. R. Hoffmann, R. E. Honrath, L. G. Huey, M. Hutterli, H. W. Jacobi, P. Klan, J. McConnell, J. Plane, R. Sander, J. Savarino, P. B. Shepson, W. R. Simpson, J. R. Sodeau, R. von Glasow, R. Weller, E. W. Wolff, and T. Zhu (2007), An overview of snow photochemistry: evidence, mechanisms and impacts, *Atmospheric Chemistry and Physics*, 7, 4329-4373.

- Hagler, G. S. W., M. H. Bergin, E. A. Smith, J. E. Dibb, C. Anderson, and E. J. Steig, 2007, Particulate and water-soluble carbon measured in recent snow at Summit, Greenland, *Geophysical Research Letters*, 34, L16505, doi:10.1029/2007GL030110.
- Helmig, D., S. J. Oltmans, T. O. Morse, and J. E. Dibb (2007), What is causing high ozone at Summit, Greenland?, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.05.084.
- Hudman, R. C., D. J. Jacob, S. Turquety, E. M. Leibensperger, L. T. Murray, S. Wu, A. B. Gilliland, M. Avery, T. H. Bertram, W. Brune, R. C. Cohen, J. E. Dibb, F. M. Flocke, A. Fried, J. Holloway, J. A. Neuman, R. Orville, A. Perring, X. Ren, G. W. Sachse, H. B. Singh, A. Swanson, and P. J. Woolridge (2007), Surface and lightning sources of nitrogen oxides over the United States: Magnitudes, chemical evolution, and outflow, *Journal of Geophysical Research*, 112, D12S05, doi:10.1029/soo6JD007912.
- Liang, Q., L. Jaegle, R. C. hudman, S. Turquety, D. J. Jacob. M. A. Avery, E. V. Browe;;, G. W. Sachse, D. R. Blake, W. Brune, X. Ren, R. C. Cohen, J. E. Dibb, A. Fried, H. Fuelberg, M. Porter, B. G. Heikes, G. Huey, H. B. Singh, and P. O. Wennberg (2007), Summertime influence of Asian pollution in the free troposphere over North America, *Journal of Geophysical Research*, 112, D12S11, doi:10.1029/2006JD007919.
- McNaughton, C. S., L. Thornhill, A. D. Clarke, S. G. Howell, M. Pinkerton, B. Anderson, E. Winstead, C. Hudgins, H. Maring, J. E. Dibb, and E. Scheuer (2007), Results from the DC-8 inlet characterization experiment (DICE): Airborne versus surface sampling of mineral dust and sea salt aerosols, *Aerosol Science and Technology*, 40, 136-159.
- Mena-Carrasco, M., Y. Tang, G. R. Carmichael, T. Chai, N. Thongbongchoo, J. E. Campbell, S. Kulkarni, L. Horowitz, J. Vukovich, M. Avery, W. Brune, J. E. Dibb, L. Emmons, F. Flocke, G. W. Sachse, D. Tan, R. Shetter, R. W. Talbot, D. G. Streets, G. Frost, and D. Blake (2007), Improving regional ozone modeling through systematic evaluation of errors using the aircraft observations during the International Consortium for Atmospheric Research on Transport and Transformation, *Journal of Geophysical Research*, 112, D12S19, doi:10.1029/2006JD007762.
- Pierce, R. B., T. Schaack, J. A. Al-Saadi, T. D. Fairlie, C. Kittaka, G. Lingenfelter, M. Natarajan, J. Olson, A. Soja, T. Zapotocny, A. Lenzen, J. Stobie, D. Johnson. M. A. Avery, G. W. Sachse, A. Thompson. R. Cohen, J. E. Dibb, J. Crawford, D. Rault, R. Martin, J. Szykman, and J. Fishman (2007) Chemical data assimilation estimates of continental U.S. ozone and nitrogen budgets during the Intercontinental Chemical Transport Experiment-North America, *Journal of Geophysical Research*, 112, D12S21, doi:10.1029/2006JD007722.
- Singh, H. B., L. Salas, D. Herlth, R. Kolyer, E. Czech, M. Avery, J. H. Crawford, R. B. Pierce, G. W. Sachse, D. R. Blake, R. C. Cohen, T. H. Bertram, A. Perring, P. J.



Woolridge, J. Dibb, G. Huey, R. C. Hudman, S. Turquety, L. K. Emmons, F. Flocke, Y. Tang, G. R. Carmichael, and L. W. Horowitz, (2007), Reactive nitrogen distribution and partitioning in the North American troposphere and lowermost stratosphere, *Journal of Geophysical Research*, 112, D12S04, doi:10.1029/2006JD007664.

Sjostedt, S. J., L. G. Huey, D. J. Tanner, J. Pieschl, G. Chen, J. E. Dibb, B. Lefer, M. A. Hutterli, A. J. Beyersdorf, N. J. Blake, D. R. Blake, D. Sueper, T. Ryerson, J. Burkhardt, and A. Stohl (2007), Observations of hydroxyl and the sum of peroxy radicals at Summit, Greenland during summer 2003, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2006.06.065.

Tang, Y. G. R. Carmichael, N. Thongboonchoo, T. Chai, L. W. Horowitz, R. B. Pierce, J. A. Al-Saadi, G. Pfister, J. M. Vukovich, M. A. Avery, G. W. Sachse, T. B. Ryerson, J. S. Holloway, E. L. Atlas, F. M. Flocke, R. J. Weber, L. G. Huey, J. E. Dibb, D. G. Streets, and W. H. Brune (2007), Influence of lateral and top boundary conditions on regional air quality prediction: A multiscale study coupling regional and global chemical transport models, *Journal of Geophysical Research*, 112, D10S18, doi:10.1029/2006JD007515.

**In press as of November 2007:**

Chen, G., L. G. Huey, J. H. Crawford, J. R. Olsen, M. A. Hutterli, S. Sjostedt, D. Tanner, J. Dibb, B. Lefer, N. Blake, D. Davis, and A. Stohl, An assessment of the polar HO<sub>x</sub> budget based on 2003 Summit Greenland field observations, *Atmospheric Environment*.

Eisele, F., D. D. Davis, D. Helmig, S. J. Oltmans, W. Neff, G. Huey, D. Tanner, G. Chen, J. Crawford, R. Arimoto, M. Buhr, L. Mauldin, M. Hutterli, J. Dibb, D. Blake, S. B. Brooks, B. Johnson, J. M. Roberts, Y. Wang, D. Tan, and F. Flocke (2007), Antarctic Tropospheric Chemistry Investigation (ANTCI) 2003 overview, *Atmospheric Environment*, doi:10.1016/j.atmosenv.2007.04.013.

Hagler, G. S. W., M. H. Bergin, E. A. Smith, and J. E. Dibb, 2007, A summer time series of particulate carbon in the air and snow at Summit, Greenland, In Press, *Journal of Geophysical Research*.

Thornhill, K. L., G. Chen, C. E. Jordan, A. Omar, E. L. Winstead, G. Schuster, A. Clarke, C. McNaughton, J. Dibb, E. Scheuer, D. Blake, G. Sachse, and B. E. Anderson (2007), The impact of local sources and long-range transport on aerosol properties over the northeast U.S. region during INTEX-NA, *Journal of Geophysical Research*.