

*Eric S. Saltzman*  
*Publications (updated 1/1/06)*

PEER-REVIEWED JOURNAL ARTICLES

Harrison, C. G. A., G. W. Brass, E. S. Saltzman, J. L. Sloan II, J. Southam, and J. M. Whitman, 1981. Sea level variations, global sedimentation rates and the hypsographic curve, *Earth Planet. Sci. Lett.*, 54: 1-16.

Saltzman, E. S. and E. J. Barron, 1982. Deep circulation in the late cretaceous: oxygen isotope paleotemperatures from inoceramus remains in DSDP cores, *Paleo. Paleoclim. Paleoecol.*, 40: 167-181.

Zika, R.G., E.S. Saltzman, W.L. Chameides, and D.D. Davis, 1982. H<sub>2</sub>O<sub>2</sub> levels in rainwater collected in South Florida and the Bahama Islands. *J. Geophys. Res.*, 87: 5015-5017.

Zika, R. G. and E. S. Saltzman, 1982. Interaction of ozone and hydrogen peroxide in water: implications for analysis of H<sub>2</sub>O<sub>2</sub> in air. *Geophys. Res. Letts.*, 9: 231-234.

Alt, J. C., J. Honnorez, H. W. Hubberten, and E. S. Saltzman, 1983. Occurrence and origin of anhydrite from DSDP Leg 70, Hole 504B, Costa Rica rift. In: Cann, J. R. et al., Init. Repts., Wash. (U.S. Govt. Printing Office), *DSDP*, 69: 547-550.

Harrison, C. G. A., K. J. Miskell, G. W. Brass, E. S. Saltzman, and J. L. Sloan II, 1983. Continental hypsography, *Tectonics*, 2: 357-377.

Saltzman, E. S., G. W. Brass, and D. A. Price, 1983. The mechanism of sulfate aerosol formation: chemical and sulfur isotopic evidence. *Geophys. Res. Letts.*, 10: 513-516.

Saltzman, E. S., D. L. Savoie, R. G. Zika, and J. M. Prospero, 1983. Methane sulfonic acid in the marine atmosphere. *J. Geophys. Res.*, 88: 10897-10903.

Magaritz, M., R. Y. Anderson, W. T. Holser, and E. S. Saltzman, 1983. Isotope shifts in the late Permian of the Delaware Basin, Texas, precisely timed by varved sediments. *Earth and Planet. Sci. Lett.*, 66: 111-124.

Zika, R. G., J. W. Moffett, R. G. Petasne, W. J. Cooper, and E. S. Saltzman, 1985. Spatial and temporal variations of hydrogen peroxide in Gulf of Mexico waters. *Geochim. Cosmochim. Acta*, 49: 1173-1184.

Saltzman, E. S., D. L. Savoie, J. M. Prospero, and R. G. Zika, 1985. Atmospheric methanesulfonic acid and non-sea-salt sulfate at Fanning and American Samoa. *Geophys. Res. Lett.*, 12: 437-440.

Zika, R. G., E. S. Saltzman, and W. J. Cooper, 1985. Hydrogen peroxide concentrations in the Peru upwelling area. *Mar. Chem.*, 17: 265-275.

Saltzman, E. S., D. L. Savoie, J. M. Prospero, and R. G. Zika, 1986. Methane sulfonic acid and non-sea-salt sulfate in the Pacific Ocean; regional and seasonal variations. *J. Atmos. Chem.*, 4: 227-240.

Saltzman, E. S., D. L. Savoie, J. M. Prospero, R. G. Zika, and B. Mosher, 1986. Elevated atmospheric sulfur levels off the Peruvian Coast. *J. Geophys. Res.*, 91: 7913-7918.

- de Mello, W. Z., D. J. Cooper, W. J. Cooper, E. S. Saltzman, R. G. Zika, D. L. Savoie, and J. M. Prospero, 1987. Spatial and diel variability in the emissions of some biogenic sulfur compounds from a Florida Spartina Alterniflora coastal zone. *Atmos. Environ.*, 21: 987-990.
- Cooper, D. J., W. Z. de Mello, W. J. Cooper, R. G. Zika, E. S. Saltzman, D. L. Savoie, and J. M. Prospero, 1987. Short-term variability in biogenic sulfur emissions from a Florida Spartina Alterniflora marsh. *Atmos. Environ.*, 21: 7-12.
- Cooper, W. J., E. S. Saltzman, and R. Zika, 1987. The contribution of rainwater to variability in surface ocean hydrogen peroxide. *J. Geophys. Res.*, 92: 2970-2980.
- Cooper, D. J. and E. S. Saltzman, 1987. Uptake of carbonyl sulfide by silver nitrate impregnated filters: implications for the analysis of low level atmospheric H<sub>2</sub>S. *Geophys. Res. Lett.*, 14: 206-209.
- Cooper, W. J., D. J. Cooper, E. S. Saltzman, W. Z. de Mello, D. L. Savoie, R. G. Zika, and J. M. Prospero, 1987. Emissions of biogenic sulfur compounds from several wetland soils in Florida. *Atmos. Environ.*, 21: 1491-1495.
- Plane, J. M. C. and E. S. Saltzman, 1987. A study of the reaction  $Li + HCl$  by the technique of time-resolved laser induced fluorescence spectroscopy of  $Li(2^2P_J - 2^2S_{1/2}, \lambda = 670.7 \text{ nm})$  between 700 and 1000K. *J. Chem. Phys.*, 87: 4606-4611.
- Saltzman, E. S. and D. J. Cooper, 1988. Shipboard measurements of atmospheric dimethyl sulfide and hydrogen sulfide in the Caribbean and Gulf of Mexico. *J. Atmos. Chem.*, 7: 191-209.
- Savoie, D. L., J. M. Prospero, and E. S. Saltzman, 1989. Non-seasalt sulfate and nitrate in trade wind aerosols at Barbados: evidence for long-range transport. *J. Geophys. Res.*, 94: 5069-5080.
- Alley, R. B., E. S. Saltzman, K. M. Cuffey, J. J. Fitzpatrick, 1990. Summertime formation depth hoar in Central Greenland. *Geophys. Res. Lett.*, 17: 2393-2396.
- Mayewski, P. A., M. S. Twickler, W. B. Lyons, M. J. Spencer, D. A. Meese, A. J. Gow, P. Grootes, T. Sowers, M. S. Watson, and E. S. Saltzman, 1990. The Dominion Range ice core, Queen Maude Mountains, Antarctica - general site and core characteristics with implications. *J. Glaciol.*, 36: 11-16.
- Cooper, D. J. and E. S. Saltzman, 1991. Measurements of atmospheric dimethyl sulfide and carbon disulfide in the Western Atlantic boundary layer. *J. Atmos. Chem.*, 12: 153-168.
- Legrand, M., C. Feniet-Saigne, E. S. Saltzman, C. Germain, N. I. Barkov and V. N. Petrov, 1991. Ice-core record of oceanic emissions of dimethyl sulphide during the last climate cycle. *Nature*, 350: 144-146.
- Prospero, J. M., D. L. Savoie, E. S. Saltzman, and R. Larsen, 1991. Impact of oceanic sources of biogenic sulphur on sulphate aerosol concentrations at Mawson, Antarctica. *Nature*, 350: 221-223.
- Mulvaney, R., E. C. Pasteur, D. A. Peel, E. S. Saltzman and P.-Y. Whung, 1992. The ratio of MSA to non-sea-salt sulphate in Antarctic Peninsula ice cores. *Tellus*. 44B: 295-303.
- Legrand, M., C. Feniet-Saigne, E. S. Saltzman, and C. Germain, 1992. Spatial and temporal variations of methanesulfonic acid and non-sea-salt sulfate in Antarctic ice. *J. Atmos. Chem.* 14: 245-260.

- Savoie, D. L., J. M. Prospero, R. J. Larsen, and E. S. Saltzman, 1992. Nitrogen and sulfur species in aerosols at Mawson, Antarctica, and their relationship to natural radionuclides. *J. Atmos. Chem.* 14: 181-204.
- Hansson, M.E. and E.S. Saltzman, 1993, The first Greenland ice core record of methanesulfonate and sulfate over a full glacial cycle, *Geophys. Res. Lett.*, 20, 1163-1166.
- Saltzman, E.S., S.A. Yvon, and P.A. Matrai, 1993. Low-level detection of atmospheric sulfur dioxide measurement using HPLC/Fluorescence Detection. *J. Atmos. Chem.*, 17, 73-90.
- Saltzman, E.S., D.B. King, K. Holmen, and C. Leck, 1993. Experimental determination of the diffusion coefficient of dimethylsulfide in water. *J. Geophys. Res.*, 98, 16,481-16,486.
- Yvon, S.A., E.S. Saltzman and D. J. Cooper, 1993. Atmospheric hydrogen sulfide over the equatorial Pacific (SAGA-3). *J. Geophys. Res.*, 98, 16,979-16,983.
- Thompson, A.M., J.E. Johnson, A.L. Torres, T.S. Bates, K.C. Kelly, E. Atlas, J.P. Greenberg, N.M. Donahue, S. Yvon, E. Saltzman, B.G. Heikes, B.W. Mosher, A.A. Shashkov and V.I. Yegorov, 1993. Ozone observations and a model of marine boundary layer photochemistry during SAGA-3. *J. Geophys. Res.*, 98, 16955-16968.
- Matrai, P.A., W.M. Balch, D.J. Cooper, and E.S. Saltzman, 1993. Ocean color and atmospheric dimethyl sulfide: on their mesoscale variability, *J. Geophys. Res.*, 98, 23469-23476.
- Zhu, X., J.M. Prospero, D.L. Savoie, F.J. Millero, R.J. Zika, and E.S. Saltzman, 1993. Photoreduction of iron(III) in marine mineral aerosol solutions, *J. Geophys. Res.*, 98, 9030-9046.
- Whung, P.Y., E.S. Saltzman, M.J. Spencer, N. Gundestrup, and P.A. Mayewski, 1994. A two hundred year record of biogenic sulfur in a South Greenland ice core (20D). *J. Geophys. Res.*, 99, 1147-1156.
- Cooper, D.J. and E.S. Saltzman, 1994. Measurements of atmospheric dimethyl sulfide, hydrogen sulfide and carbon disulfide during GTE/CITE-3. *J. Geophys. Res.*, 98, 23397-23410.
- Gregory, G. L., L. S. Warren, M. O. Andreae, A. R. Bandy, R. J. Ferek, J. E. Johnson and E.S. Saltzman, 1994. The comparison of instrumentation for tropospheric measurements of dimethyl sulfide: aircraft results for concentrations at the parts-per-trillion level. *J. Geophys. Res.*, 98, 23,373-23,388.
- King, D.B. and E.S. Saltzman, 1994, Measurement of the diffusion coefficient of sulfur hexafluoride in water, *J. Geophys. Res.*, 100, 7083-7088
- Abysov, S.S., M. Angelis, N.I. Barkov, J.M. Barnola, M. Bender, J. Chappellaz, V.K. Chistiakov, P. Duval, C. Genthon, J. Jouzel, V.M. Kotlyakov, Ye.S. Korotkevitch, B.B. Kudriashov, V.Y. Lipenkov, M. Legrand, C. Lorius, B. Malaize, P. Martinerie, V.I. Nikolayev, J.R. Petit, D. Raynaud, G. Raisbeck, C. Ritz, A.N. Salamatin, E. Saltzman, T. Sowers, M. Stievenard, R.N. Vostretsov, M. Wahlen, C. Waelbroeck, F. Yiou, P. Yiou, 1995. International Effort Helps Decipher Mysteries of Paleoclimate from Antarctic Ice Cores. *EOS*, 76, 169.
- Matrai, P.A., D.J. Cooper, and E.S. Saltzman, 1996. Oceanic DMS emissions associated with frontal condition across a Gulf Stream meander, *J. Marine Systems*, 7, 1-8.
- Yvon, S.A., J.M.C. Plane, C.-F. Nien, D.J. Cooper, and E.S. Saltzman, 1996. Interaction between the nitrogen and sulfur cycles in the marine boundary layer, *J. Geophys. Res.*, 101, 1379-1386.

- Pilinis, C.P., D.B. King, and E.S. Saltzman, 1996. The oceans - a source or sink of methyl bromide?, *Geophys. Res. Lett.*, 23, 817-820.
- Yvon, S.A., E.S. Saltzman, D.J. Cooper, T.S. Bates, and A.M. Thompson, 1996. Atmospheric dimethylsulfide cycling at a tropical South Pacific station (12S, 135W): A comparison of field data and model results, *J. Geophys. Res.*, 101, 6899-6909.
- Yvon, S.A. and E.S. Saltzman, 1996. The sulfur dioxide budget in the tropical South Pacific marine boundary layer (12S, 135W), *J. Geophys. Res.*, 101, 6911-6918.
- Mayewski, P.A., M.S. Twickler, S.I. Whitlow, L.D. Meeker, Q. Yang, J. Thomas, K. Kreutz, P.M. Grootes, D.L. Morse, E.J. Steig, E.D. Waddington, E.S. Saltzman, P.-Y. Whung, and K.C. Taylor, 1996. Climate change during the last deglaciation in Antarctica, *Science*, 272, 1636-1638.
- De Bruyn, W.J. and E.S. Saltzman, 1997. Solubility of methyl bromide in pure water, seawater, and NaCl solution, *Marine Chemistry*, 56, 51-58.
- Silvente, E., R.C. Richter, M. Zheng, E.S. Saltzman, and A.J. Hynes, 1997. Relative quantum yields for O<sup>1</sup>D production in the photolysis of ozone between 301 and 336 nm: Evidence for the participation of a spin forbidden channel, *Chemical Physics Letters*, 264, 309-315.
- De Bruyn, W.J. and E.S. Saltzman, 1997. Diffusivity of methyl bromide in water, *Marine Chemistry*, 57, 55-59.
- Carsey, T.P., D.D. Churchill, M.L. Farmer, C.J. Fischer, A.A. Pszenny, V.B. Ross, E.S. Saltzman, M. Springer-Young, and B. Bonsang, 1997. Nitrogen oxides and ozone production in the North Atlantic marine boundary layer, *J. Geophys. Res.*, 102, 10653-10,666.
- Ayers, G.P., J.M. Caine, R.W. Gillett, E.S. Saltzman, and M. Hooper, 1997. Sulfur dioxide and dimethyl sulfide in marine air at Cape Grim, 41°S, *Tellus*, 49B, 292-299.
- King, D.B. and E.S. Saltzman, 1997. Removal of methyl bromide in coastal seawater; chemical and biological rates, *J. Geophys. Res.*, 102, 18715-18721.
- Petit, J.R., I. Basile, A. Leruyet, D. Raynaud, C. Lorius, J. Jouzel, M. Stievenard, V. Y. Lipenkov, N. I. Barkov, B. B. Kudryashov, M. Davis, E. Saltzman & V. Kotlyakov, 1997. Four climate cycles in Vostok ice core, *Nature*, 387, 359-360.
- Gallagher, M.S., D.B. King, P.-Y. Whung, and E.S. Saltzman, 1997. Performance of the HPLC/Fluorescence SO<sub>2</sub> detector during the GASIE instrument intercomparison experiment, *J. Geophys. Res.*, 102, 16247-16254.
- Stecher, H.A. III, G.W. Luther III, D.L. MacTaggart, S.O. Farwell, D.R. Crossley, W.D. Dorko, P.D. Goldan, N. Beltz, U. Krischke, W.T. Luke, D.C. Thornton, R.W. Talbot, B.L. Lefer, E.M. Scheuer, R.L. Benner, J. Wu, E.S. Saltzman, M.S. Gallagher, and R.J. Ferek, Results of the gas-phase sulfur intercomparison experiment (GASIE): Overview of experimental setup, results, and general conclusions, *J. Geophys. Res.*, 102, 16219-16236.
- Saltzman, E.S., P.-Y. Whung, and P.A. Mayewski, 1997. Methanesulfonate in the GISP2 ice core, *J. Geophys. Res.*, 102, 26649-26657.
- Taylor, K.C., P.A. Mayewski, R.B. Alley, M.L. Bender, E.J. Brook, T.J. Gow, P.M. Grootes, G. Lamorey, D.A. Meese, E.S. Saltzman, J.P. Severinghaus, T. Sowers, M.S. Twickler, J.W.C. White, S. Whitlow, G.A. Zielinski, 1997. A close look at the Holocene/Younger Dryas transition recorded at Summit, Greenland, *Science*, 278, 825-827.

Eric J. Steig, Charles P. Hart, James W.C. White, Wendy L. Cunningham, Matthew D. Davis and Eric S. Saltzman, 1998, Change in climate, ocean and ice-sheet conditions in the Ross Embayment, Antarctica at 6 ka, *Ann. Glaciol.*, 27, 305-310.

Zheng, M., W. De Bruyn, and E.S. Saltzman, 1998. Diffusivity of CFC-11 and CFC-12 in pure water and seawater, *J. Geophys. Res.*, 103, 1375-1379.

De Bruyn, W.J., T.S. Bates, J.M. Cainey, and E.S. Saltzman, 1998. Atmospheric sulfur chemistry in the Southern Ocean boundary layer (ACE-1). *J. Geophys. Res.*, 103, 16,703-16,712.

Bates, T.S., V.N. Kapustin, P.K. Quinn, D.S. Covert, D.J. Coffman, C. Mari, P.A. Durkee, W.J. De Bruyn, and E.S. Saltzman, 1998. Processes controlling the distribution of aerosol particles in the marine boundary layer during ACE-1, *J. Geophys. Res.*, 103, 16,369-16,383.

Petit, J.R., J. Jouzel, D. Raynaud, N.I. Barkov, J.M. Barnola, I. Basile, M. Bender, J. Chappellaz, J. Davis, G. Delaygue, M. Delmotte, V.M. Kotlyakov, M. Legrand, V.M. Lipenkov, C. Lorius, L. Pepin, C. Ritz, E. Saltzman, M. Stievenard, 1999. 420,000 years of climate and atmospheric history revealed by the Vostok deep Antarctic ice core, *Nature*, 399, 429-436.

Butler, J.H., M. Battle, M.L. Bender, S.A. Montzka, A.D. Clarke, E.S. Saltzman, C.M. Sucher, J.P. Severinghaus, and J.W. Elkins, 1999, A record of atmospheric halocarbons during the twentieth century from polar firn air, *Nature*, 399, 749-755.

Alley, R.B., P.A. Mayewski, and E.S. Saltzman, 1999, Increasing North Atlantic climate variability recorded in a central Greenland ice core, *Polar Geography*, 23,119-131.

Chin, M., D. Savoie, A. Bandy, D. Thornton, B. Huebert, T. Bates, P. Quinn, E. Saltzman, and W. De Bruyn, 2000, Atmospheric sulfur cycle simulated in the global model GOCART: Comparison with field observations and regional budgets, *J. Geophys. Res.*, 105, 24689-24712.

Clark, C., P. Campuzano-Jost, D.S. Covert, R.C. Richter, H. Maring, A.J. Hynes, and E.S. Saltzman, 2001, Real-time measurement of sodium in single aerosol particles by flame emission: laboratory characterization, *J. Aerosol Res.*, 32, 765-778.

Tokarczyk, R. and E.S. Saltzman, 2001, Methyl bromide loss rates in surface waters of the North Atlantic Ocean, Caribbean Sea, and Eastern Pacific Ocean (8-45°N), *J. Geophys. Res.*, 106, 9843-9851.

Tokarczyk, R. K. D. Goodwin, and E.S. Saltzman, 2001, Methyl bromide loss rate constants in the North Pacific Ocean (11-57°N), *Geophys. Res. Lett.*, 28,4429-4432.

De Bruyn, W.J., M. Harvey, J.M. Cainey, and E.S. Saltzman, 2002, DMS and SO<sub>2</sub> at Baring Head, New Zealand: implications for the yield of SO<sub>2</sub> from DMS, *J. Atmos. Chem.*, 41, 189-209.

Aydin, M., W. J. De Bruyn, and E. S. Saltzman, 2002, Preindustrial atmospheric carbonyl sulfide (OCS) from an Antarctic ice core, *Geophys. Res. Lett.*, 29, 101029-101032.

Yvon-Lewis, S.A., J.H. Butler, E.S. Saltzman, P.A. Matrai, D.B. King, R. Tokarczyk, R.M. Moore, and J.-Z. Zhang, 2002, Methyl bromide cycling in a warm core North Atlantic eddy, *Glob. Biogeochem. Cycles*, 16, 1141, doi:10.1029/2002GB001898.

Tokarczyk, R., E. S. Saltzman, R. M. Moore, and S. A. Yvon-Lewis, 2003, Biological degradation of methyl chloride in coastal seawater, *Global Biogeochem. Cycles*, 17, 1057, doi:10.1029/2002GB001949.

Campuzano-Jost, P., C.D. Clark, H. Maring, D. S. Covert, S. Howell, V. Kapustin, A. Clarke, E. S. Saltzman, and A. J. Hynes, 2003, Near real-time measurement of sea-salt aerosol during the SEAS Campaign: Comparison of emission-based sodium detection with an aerosol volatility technique, *J. Atmos. Ocean. Technol.*, 20, 1421-1431.

Dahl, E. E., E. S. Saltzman, and W. De Bruyn, 2003, The aqueous phase yield of alkyl nitrates from the reaction of ROO+NO: Implications for photochemical production in seawater, *Geophys. Res. Lett.*, 30, 1271-1274, doi: 10.1029/2002GL016811.

Tokarczyk, R.T., K.D. Goodwin, E., and E.S. Saltzman, 2003, Methyl chloride and methyl bromide degradation in the Southern Ocean, *Geophys. Res. Lett.*, 30, 1808-1811, doi: 10.1029/2003GL017459.

Yvon-Lewis, S. A., D. B. King, R. Tokarczyk, K. D. Goodwin, E. S. Saltzman, and J. H. Butler, 2004, Methyl bromide and methyl chloride in the Southern Ocean, *J. Geophys. Res.*, 109, C02008, doi:10.1029/2003JC001809.

Rhew, R.C., L. Ostergaard, E.S. Saltzman, and M.F. Yanofsky, 2003. Genetic control of methyl halide production in Arabidopsis, *Current Biology*, 13, 1809-1813.

Rhew, R.C., M. Aydin, and E. S. Saltzman, 2003, Measuring terrestrial fluxes of methyl chloride and methyl bromide using a stable isotope tracer technique, *Geophys. Res. Lett.*, 30, 10,1029:2003GL018610.

Aydin, M., W.J. DeBruyn, E.S. Saltzman, S.A. Montzka, and J.H. Butler, 2004, Atmospheric variability of methyl chloride during the last 300 years from an Antarctic ice core and firn air. *Geophys. Res. Lett.*, 31, L0219, doi: 10.1029/2003GL018750.

Saltzman, E.S., M. Aydin, W.J. DeBruyn, D.B. King, and S.A. Yvon-Lewis, 2004, Methyl bromide in preindustrial air: measurements from an Antarctic ice core, *J. Geophys. Res.*, 109, D05301, doi:10.1029/2003JD004157.

Montzka, S.A., M. Aydin, J.H. Butler, M. Battle, E.S. Saltzman, G.S. Dutton, B.D. Hall, A.D. Clarke, D. Mondeel, and J.W. Elkins, 2004, A 350-year atmospheric history for carbonyl sulfide inferred from Antarctic firn air and air trapped in ice, *J. Geophys. Res.*, 109, D22302, doi:10.1029/2004JD004686.

Donelan, M.A., B.K. Haus, N. Reul, W.J. Plant, M. Stiassne, H.C. Graber, O.B. Brown, and E.S. Saltzman, 2004, Does the aerodynamic roughness of the ocean approach a limit in very strong winds? *Geophys. Res. Lett.*, L18306, 10.1029/2004GL019460.

Goodwin, K.D., R. Tokarczyk, F.C. Stephens, and E.S. Saltzman, 2005, Description of toluene inhibition of methyl bromide biodegradation in seawater and isolation of a toluene oxidizer that degrades methyl bromide, *J. Appl. Microbiol.*, 71, doi: 10.1128/AEM.71.7.3495-3503.2005.

Marandino C. A., W. J. De Bruyn, S. D. Miller, M. J. Prather, E. S. Saltzman, 2005, Oceanic uptake and the global atmospheric acetone budget, 2005, *Geophys. Res. Lett.*, 32, L15806, doi:10.1029/2005GL023285.

Dahl, E.E., S.A. Yvon-Lewis, and E.S. Saltzman, Saturation anomalies of alkyl nitrates in the tropical Pacific Ocean, 2005, *Geophys. Res. Lett.*, 32, L20817, doi:10.1029/2005GL023896.

Saltzman, E.S. and I. Dioumaeva, Glacial/interglacial variations in methanesulfonate (MSA) in the Siple Dome ice core, West Antarctica, submitted to *Geophys. Res. Lett.*

Dahl, E.E., S.A. Yvon-Lewis, and E.S. Saltzman, Alkyl nitrate (C<sub>1</sub>-C<sub>3</sub>) depth profiles in the tropical Pacific Ocean, submitted to *J. Geophys. Res.*

Marandino, C.A., W.J. DeBruyn, S.D. Miller, and E.S. Saltzman, Eddy correlation measurements of the air/sea flux of DMS Over the North Pacific Ocean, in preparation for *J. Geophys. Res.*

Finley, B. and E.S. Saltzman, Measurement of Cl<sub>2</sub> in coastal urban air, in preparation for *Geophys. Res. Lett.*

## **BOOKS, BOOK CHAPTERS, AND TECHNICAL PUBLICATIONS**

Brass, G. W., E. S. Saltzman, J. L. Sloan II, J. Southam, W. Peterson, W. W. Hay, and W. T. Holser, 1982. Ocean circulation, plate tectonics and climate. In: *Climate in Earth History* (ed. J. Crowell and W. Berger), U.S. National Research Council, Washington, D.C.: 83-89.

Barron, E. J., E. S. Saltzman, and D. A. Price, 1984. Inoceramus: occurrence in the South Atlantic and oxygen isotope paleo-temperatures at Hole 530A. In: Hay, W. W. et al., *Init. Repts. DSDP*, Wash. (U.S. Govt. Printing Office), 75: 893-904.

Holser, W. T., E. S. Saltzman, and D. G. Brookins, 1984. Geochemistry and petrology of evaporites cored from a deep-sea diapir at Site 546, DSDP Leg 79, offshore Morocco. In: Baumgartner, P. O. et al., *Init. Repts. DSDP*, Wash. (U.S. Govt. Printing Office), 79: 509-540.

Saltzman, E. S., L. T. Gidel, R. G. Zika, P. J. Milne, J. M. Prospero, D. L. Savoie, and W. J. Cooper, 1984. Atmospheric chemistry of methane sulfonic acid. In: *Environmental Impact of Natural Emissions*, V. P. Aneja, Ed., Air Pollut. Control Assoc., Pittsburgh, 251-262.

Mottl, M. J., E. M. Druffel, S. R. Hart, J. R. Lawrence, and E. S. Saltzman, 1985. Chemistry of hot waters sampled from basaltic basement in Hole 504B, Deep Sea Drilling Project Leg 83, Costa Rica rift. In: Cann, J. R. et al., *Init. Repts. DSDP*, Wash. (U.S. Govt. Printing Office), 83: 315-328.

Alt, J. C., E. S. Saltzman, and D. A. Price, 1985. Anhydrite from hydrothermally altered basalts: DSDP Hole 504B. In: Cann, J. R. et al., *Init. Repts. DSDP*, Wash. (U.S. Govt. Printing Office), 83, 283-288.

Honnorez, J., J. C. Alt, M-B. Honnorez-Guerstein, C. Laverne, K. Muehlenbachs, J. Ruiz, and E. S. Saltzman, 1985. Stockwork-like sulfide mineralization in young oceanic crust: DSDP Hole 504B. In: Cann, J. R. et al., *Init. Repts.*, DSDP, Wash. (U.S. Govt. Printing Office), 83, 263-282.

Saltzman, E.S. and W. J. Cooper, 1989. Editors, *Biogenic Sulfur in the Environment*, 393, American Chemical Society, Washington, D.C., 572 pp.

Cooper, D. S., W. J. Cooper, W. Z. de Mello, E. S. Saltzman, and R. G. Zika, 1989. Factors contributing to variability in biogenic sulfur emissions from Florida wetlands. In: *Biogenic Sulfur in the Environment*, E. S. Saltzman and W. J. Cooper, eds., American Chemical Society, Wash. D.C., 31-43.

Saltzman, E. S. and D. J. Cooper, 1989. Dimethyl sulfide and hydrogen sulfide in marine air. In: *Biogenic Sulfur in the Environment*, E. S. Saltzman and W. J. Cooper, eds., American Chemical Society, Wash. D.C., 330-353.

Milne, P. J., R. G. Zika, and E. S. Saltzman, 1989. Rate of reaction of hydroxyl radical with MSA, DMSO and DMSO<sub>2</sub> in aqueous solution. In: *Biogenic Sulfur in the Environment*, E. S. Saltzman and W. J. Cooper, eds., American Chemical Society, Wash. D.C., 518-528.

- Savoie, D. L., J. M. Prospero, and E. S. Saltzman, 1989. Nitrate, non-seasalt sulfate and methanesulfonate over the Pacific ocean. In: *Chemical Oceanography*, J. P. Riley, ed., Academic Press, London, 10: 220-250.
- Yvon, S. A., E. S. Saltzman, and D. J. Cooper, 1990. Atmospheric hydrogen sulfide over the equatorial Pacific (SAGE-3). Chapter in "The Third Soviet and American Gases and Aerosols Experiment Technical Report", V. Koropalov, ed.
- Saltzman, E. S., C. D. Germain, M. R. Legrand, C. Feniet-Saigne, M. I. Barkov and V. N. Petrov, 1991. MSA and nss-sulfate in the Vostok ice core: a glacial/interglacial record of biogenic sulfur emissions from the Southern Ocean. *Antarctic Journal of the United States*, Vol. XXVI, No. 5.
- Yvon, S.A. and E.S. Saltzman, 1993. A time-dependent photochemical box model for atmospheric chemistry (PBMAC), RSMAS Technical Report 93-008.
- Whung, P.-Y., E.S. Saltzman, and G.W. Gross, 1994. Uptake of methanesulfonate and sulfate in ice, *Antarctic Journal of the United States*, 29, 73-75.
- Saltzman, E.S., 1995. Ocean/Atmosphere Cycling of Dimethylsulfide, in NATO ASI Series I: Global Environmental Change, Vol. 30., *Ice Core Studies of Global Biogeochemical Cycles*, ed. R.J. Delmas, Proceedings of the NATO Advanced Research Workshop at Annecy France: 26-31 March 1993, Springer-Verlag.
- Pasteur, E.C., R. Mulvaney, D.A. Peel, E.S. Saltzman, and P.-Y. Whung, 1994, A 340 year record of biogenic sulphur from the Weddell Sea area, Antarctica, *Annal. Glaciol.*, 21, 169-174.
- King, D.B., W. De Bruyn, M. Zheng, and E.S. Saltzman, 1995. Uncertainties in the molecular diffusion coefficient of gases in water for use in the estimation of air-sea exchange, In: *Air-Water Gas Transfer*, B. Jahne and E. Monahan, eds, AEON Verlag.
- Abysov, S.S., M. Angelis, N.I. Barkov, J.M. Barnola, M. Bender, J. Chappellaz, V.K. Chistiakov, P. Duval, C. Genthon, J. Jouzel, V.M. Kotlyakov, Ye.S. Korotkevitch, B.B. Kudriashov, V.Y. Lipenkov, M. Legrand, C. Lorius, B. Malaize, P. Martinerie, V.I. Nikolayev, J.R. Petit, D. Raynaud, G. Raisbeck, C. Ritz, A.N. Salamatina, E. Saltzman, T. Sowers, M. Stievenard, R.N. Vostretsov, M. Wahlen, C. Waelbroeck, F. Yiou, P. Yiou, 1995. Deciphering mysteries of paleoclimate from Antarctic ice cores, *Earth in Space*, 8 (3), 9-11.
- Petit, J.R., J. Jouzel, M. Stievenard, I. Basile, V.Y. Lipenkov, N.I. Barkov, B.B. Kudryashov, M. Bender, M. Davis, E.S. Saltzman, D. Raynaud, C. Lorius and V. Kotlyakov, 1997. Four climatic cycles depicted in the newly extended 3350m deep Vostok ice core (Antarctica), Correspondance to *Nature*, 387, 359-360.
- M. Donelan, W. Drennan, R. Waninkhof, and E.S. Saltzman, 2002, Editors: Gas transfer at water surfaces, AGU monograph 127, Am. Geophys. Union, Washington DC.