

LAC Publications 2001

Journal Articles 2001

Andreani-Aksoyoglu, S., C.-H. Lu, J. Keller, A.S.H. Prévôt, J.S. Chang, 2001:

Variability of indicator values for ozone production sensitivity: a model study in Switzerland and San Joaquin Valley (California)

Atmospheric Environment, **35/32**, 5593-5603

Arens, F., L. Gutzwiller, U. Baltensperger, H. W. Gaeggeler, and M. Ammann, 2001:

Heterogeneous reaction of NO₂ on diesel soot particles

Environmental Science and Technology, **35**, 2191-2199

Baumann, K., H. Maurer, G. Rau, M. Piringer, U. Pechinger, A. Prévôt, M. Furger, B. Neininger, and U. Pellegrini, 2001:
The influence of south Foehn on the ozone distribution in the Alpine Rhine valley - results from the MAP field phase

Atmospheric Environment, **35**, 6379-6390

Bundt, M., M. Jäggi, P. Blaser, R. Siegwolf, and F. Hagedorn, 2001:

Carbon and nitrogen dynamics in preferential flow paths and matrix of a forest soil

Soil Sci. Soc. Am. J., **65**, 1529-1538

Burtscher, H., U. Baltensperger, N. Bukowiecki, C. Hüglin, M. Mohr, U. Matter, S. Nyeki, N. Streit, and E. Weingartner, 2001:

Separation of volatile and non-volatile aerosol fractions by thermodesorption: Instrumental development and applications

J. Aerosol. Sci., **32**, 427-442

Dommen, J., A. S. H. Prévôt, I. Polo, B. Neininger, and M. Baumle, 2001:

Airborne NMHC measurements under various pollution conditions

Int. J. Vehicle Design, **27**, 217-227

Ehrman, S. H., M. Schwikowski, U. Baltensperger, and H. W. Gaeggeler, 2001:

Sampling and chemical analysis of ice crystals as a function of size

Atmos. Environ., **35**, 5371-5376

Eleftheriadis, K., S. Nyeki, K. Tørseth, and I. Colbeck, 2001:

Black carbon and ionic species in the arctic aerosol

Mem. Nat. Inst. Polar Res., **54**, 91-99

Furger, M., P. Drobinski, A. S. H. Prévôt, R. O. Weber, W. K. Graber, and B. Neininger, 2001:

Comparison of horizontal and vertical scintillometer crosswinds during strong foehn with lidar and aircraft measurements

Journal of Atmospheric and Oceanic Technology, **18**, 1975-1988

Gehrig, R., C. Hueglin, W. Devos, P. Hofer, J. Kobler, W. A. Stahel, U. Baltensperger, and C. Monn, 2001:

Contribution of road traffic to ambient fine particle concentrations (PM₁₀) in Switzerland

Int. J. Vehicle Design, **27**, 55-64

Gutzwiller, L., F. Arens, U. Baltensperger, H. W. Gaeggeler, and M. Ammann, 2001:

Significance of semi-volatile diesel exhaust organics for secondary HONO formation

Environmental Science and Technology, in press

Hagedorn, F., S. Maurer, P. Egli, P. Blaser, J. B. Bucher, and R. Siegwolf, 2001:

Carbon sequestration in forest soils - effects of soil type, atmospheric CO₂ enrichment and N deposition

European Journal of Soil Science, **52**, 619-629

Henning, S., E. Weingartner, S. Schmidt, M. Wendisch, H. W. Gäggeler, and U. Baltensperger, 2001:

Size dependent aerosol activation at the High Alpine site Jungfrauoch (3580 m asl)*Tellus*, in press

Kasper, M., Matter, U., Burtscher, H., Bukowiecki, N., Mayer, A., 2001:

NanoMet, a New Instrumentation for On-line Size- and Substance-Specific Particle Emission Analysis*SAE Technical Paper Series*, **2001-01-0216**

Krivacsy, Z. et al., 2001:

Study on the chemical character of water-soluble organic compounds in fine atmospheric aerosol at the Jungfrauoch*J. Atmos. Chem.*, **39**, 235-259

Krivacsy, Z., A. Hoffer, Z. Sarvari, D. Temesi, U. Baltensperger, S. Nyeki, E. Weingartner, S. Kleefeld, and S. G. Jennings, 2001:

Role of organic and black carbon in the chemical composition of atmospheric aerosol at European background sites*Atmos. Environ.*, **35**, 6231-6244

Lazaridis, M. et al., 2001:

Measurements of particulate matter in EMEP*NILU report*

Nickel, A., O. Pelz, D. Hahn, M. Saurer, R. Siegwolf, and J. Zeyer, 2001:

Effect of inoculation and leaf litter amendment on establishment of nodule-forming Frankia populations in soil*Applied and Environmental Microbiology*, **67(6)**, 2603-2609

Niklaus, P. A., E. Glöckner, R. Siegwolf, and C. Körner, 2001:

Carbon allocation in calcareous grassland under elevated CO₂: A combined ¹³C pulse labeling/soil physical fractionation study*Functional Ecol.*, **15**, 43-50

Niklaus, P. A., M. Wolfender, R. Siegwolf, and C. Körner, 2001:

Effects of six years atmospheric CO₂ enrichment on plant, soil and microbial C of a calcareous grassland*Plant and Soil*, **223**, 189-202

Saurer, M., R. T. W. Siegwolf, and Y. Scheidegger, 2001:

Canopy gradients in delta18 O of organic matter as ecophysiological tool*Isotopes in Environmental and Health Studies*

Schmid, H. et al., 2001:

Results of the "carbon conference" international aerosol carbon round robin test stage I*Atmos. Environ.*, **35**, 2111-2121

Siegwolf, R., R. Matyssek, M. Saurer, S. Maurer, M. S. Günthardt-Georg, P. Schmutz, and J. B. Bucher, 2001:

Stable isotope analysis reveals differential effects of soil nitrogen and nitrogen dioxide on the water use efficiency in hybrid poplar leaves*New Phytologist*, **149**, 223-246

Thielmann, A., A. S. H. Prevot, F. C. Gruebler, and J. Staehelin, 2001:

Empirical ozone isopleths as a tool to identify ozone production regimes*Geophysical Research Letters*, **28**, 2369-2372

Weber, R. O., and M. Furger, 2001:

Climatology of near-surface wind patterns over Switzerland*International Journal of Climatology*, **21**, 809-827

Weber, R. O., and P. Talkner, 2001:

Spectra and correlations of climate data from days to decades*J. Geophys. Res.*, **106**, 20131-20144

Books / Book Sections 2001

Baltensperger, U., E. Weingartner, H. Burtscher, and J. Keskinen, 2001:
Aerosol measurement, principles, techniques, and applications. Dynamic mass and surface area measurements Wiley-Interscience, 387-418

Conference Proceedings 2001

Andreani-Aksoyoglu, S., J.Keller, A.S.H.Prévôt, 2001:
Applicability of indicator-based approach to assess ozone sensitivities: A model study in Switzerland
2nd International Conference on Air Pollution Modelling and Simulation, Champs-sur-Marne, France, Springer Geosciences,

Andreani-Aksoyoglu, S., J.Keller, J. Dommen, A.S.H.Prévôt, 2001:
Modelling of air quality with CAMx: A case study in Switzerland
Air Quality Management at Urban, Regional and Global Scales, Istanbul, Turkey, 2001, Istanbul Technical University, 306-313

Andreani-Aksoyoglu, S., and J. Keller 2001:
Comparison of model results for winter and summer air quality
Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, 2001, Springer-Verlag Berlin, Heidelberg,

Baltensperger, U., 2001:
The organic component of the atmospheric aerosol: facts and fiction
European Aerosol Conference 2001, Leipzig, Germany, September,3-7, 2001, Journal of Aerosol Science, 901-902

Baltensperger, U., 2001:
The Art of Aerosol Measurement and Modelling within AEROSOL
Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, Germany, March 27-31, 2000, Springer-Verlag Berlin Heidelberg 2001, 39-44

Bukowiecki, N., Polo, I., Prévôt, A.S.H., Weingartner, E., Baltensperger, U., 2001:
Atmospheric Aerosol and gaseous compounds in the Zurich area: A one-year study with a mobile laboratory
ISAM 13th International Congress, Interlaken, Switzerland, 17-21.9.2001, Journal of Aerosol in Medicine, 420

Bukowiecki, N., Polo, I., Prévôt, A.S.H., Weingartner, E., Baltensperger, U., 2001:
Seasonal and spatial distribution of atmospheric aerosols and gaseous compounds in the Zurich area measured by a mobile laboratory
European Aerosol Conference (EAC) 2001, Leipzig, D, 3-7.9.2001, Journal of Aerosol Science, 185-186

Bukowiecki, N., D. B. Kittelson, W. F. Watts, U. Baltensperger, and E. Weingartner, 2001:
Comparing SMPS size distributions with DC, PAS and CPC data
4th ETH Conference on Nanoparticle Measurement, Zurich, Switzerland,

Colbeck, I., C. Bryant, S. Nyeki, K. Eleftheriadis, J. Smolik, V. Zdimal, M. Lazaridis, and N. Mihalopoulos, 2001:
Optical properties of atmospheric aerosol at Finokalia (Greece), J. Aerosol Sci., S445-S446

Drobinski, P. et al., 2001:
Unstationary aspects of flow splitting in the Rhine Valley: IOP 12 case study
MAP Meeting 2001, Schliersee, Germany, 14-16 May 2001, MeteoSwiss, 138-141

Frioud, M., V. Mitev, R. Matthey, H. Richner, S. Gubser, and M. Furger, 2001:
Backscatter lidar detection of the evolution of the aerosol stratification in the PBL during Foehn events in FORM
MAP Meeting 2001, Schliersee, Germany, 14-16 May, 2001, MeteoSchweiz, 179-182

Furger, M., K. Baumann, P. Drobinski, C. Häberli, B. Neining, and S. Vogt, 2001:
Vertical velocity measurements during the foehn of 24 October 1999 in the Rhine valley
European Geophysical Society XXVI General Assembly, Nice, France, 25 - 30 March 2001, CD-ROM

Furger, M., S. Gubser, and F. von Arx, 2001:

Vertikalwinde und Schwerewellen in einem Föhntal - Fallstudien mit Szintillometern und Mikrobarographen während MAP-FORM

DACH-Meteorologen-Tagung 2001, Vienna, Austria, 18 - 21 Sept 2001, ZAMG, (CD-ROM)

Gubser, S., M. Furger, F. von Arx, and H. Richner, 2001:

Wave activity in the boundary layer and the erosion of the cold air pool in the Rhine Valley - A case study (22 October 1999)

MAP Meeting 2001, Schliersee, Germany, 14-16 May, 2001, MeteoSchweiz, 30-31

Gysel, M., S. Nyeki, E. Weingartner, and U. Baltensperger, 2001:

Measurement of Particle Hygroscopic Properties on a Jet Engine Combustor Test Rig

ISAM 13th International Congress, Interlaken, Switzerland, September 17-21, 2001, Interlaken, Switzerland, 421

Henning, S., E. Weingartner, S. Schmidt, H. W. Gäggeler, and U. Baltensperger, 2001:

Aerosol-clouds interactions at the high alpine site Jungfraujoch (3580 m asl) - Experimental data and modelling results

European Geophysical Society XXVI General Assembly, Nice, France, CD-ROM

Henning, S., E. Weingartner, S. Schmidt, M. Wendisch, and U. Baltensperger, 2001:

Results from simultaneous measurements of aerosols and cloud parameters at the Jungfraujoch

European Aerosol Conference 2001, Leipzig, Germany, September, 3-7, 2001, Journal of Aerosol Science, 975-976

Hoffer, A., A. Gelencser, A. Molnar, E. Weingartner, and U. Baltensperger, 2001:

Comparative study on the concentration and mass absorption of black carbon aerosol at the Jungfraujoch

European Aerosol Conference 2001, Leipzig, Germany, September. 3-7, 2001, Journal of Aerosol Science, 679-680

Keller, J., S. Andreani-Aksoyoglu, N. Ritter, A. S. H. Prévôt, and J. Dommen, 2001:

Wind and vertical turbulent exchange over Switzerland and their influence on short-term air quality. Simulations with SAIMM and UAM-V

Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, 2001, Springer-Verlag, Berlin, Heidelberg,

Neininger, B., W. Fuchs, M. Bäuml, A. Volz-Thomas, A. S. H. Prévôt, and J. Dommen, 2001:

A small aircraft for more than just ozone: MetAir's 'Dimona' after ten years of evolving development

11th Symposium on Meteorological Observations and Instrumentation, Albuquerque, 14-19 January, American Meteorological Society, 123-128

Nessler, R., G. Larchevêque, I. Balin, N. Bukowiecki, E. Weingartner, U. Baltensperger, H. Van den Bergh, and B. Calpini, 2001:

Study of the tropospheric aerosol at the Jungfraujoch alpine station by simultaneous lidar and in-situ measurements

European Aerosol Conference (EAC) 2001, Leipzig, D, Journal of Aerosol Science, S447-S448

Prévôt, A. S. H., and A. Neftel, 2001:

Subproject LOOP: Limitation of Ozone Production on a Local and Regional Scale

Proceedings from the Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, Germany, 27-31 March 2000, Springer-Verlag Berlin, Heidelberg, 81-88

Ritter, N., S. Andreani-Aksoyoglu, J. Keller, A. S. H. Prévôt, and J. Dommen, 2001:

Modelling with UAM-V: Influence of different boundary concentrations on the ozone formation in Switzerland, Garmisch-Partenkirchen, Germany, March 27-31, 2000, EUROTRAC-2 Symposium 2000,

Streit, N., E. Weingartner, U. Baltensperger, and H. W. Gäggeler, 2001:

Physical parameters for chemical characterization: linking hygroscopicity and volatility

Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, Germany, Springer-Verlag Berlin, Heidelberg,

Strub, G., U. Beisl, M. Schaepman, D. Schlaepfer, C. Dickerhof, and K. Itten, 2001:

Evaluation of Diurnal Hyperspectral BRF Data Acquired with the RSL Field Goniometer during the DAISEX'99 Campaign, Enschede,

Strub, G., J. Keller, M. Schaepman, U. Beisl, and K. I. Itten, 2001:

Comparison of modeled and measured directional reflectance data of an alfalfa canopy

8th International Symposium on Physical Measurements and Signatures in Remote Sensing, Aussois (F), 285-290

Thielmann, A., A. S. H. Prévôt, F. Gruebler, and J. Staehelin, 2001:

Identifying ozone production regimes on basis of measurements

8th European Symposium on the Physico-Chemical Behaviour of Air Pollutants, Torino, Italy, 17-20 September,

Thielmann, A., A. S. H. Prévôt, F. Gruebler, and J. Staehelin, 2001:

Field Measurements of Nitrogen Oxides, Ozone and Reactive Organic Gases in the Po Basin: Sensitivity of Photooxidant Production

Proceedings from the Eurotrac-2 Symposium 2000, Garmisch-Partenkirchen, Germany, 27-31 March 2000, Springer-Verlag Berlin, Heidelberg, 81-88

Weingartner, E., S. Henning, M. Gysel, N. Bukowiecki, and U. Baltensperger, 2001:

Hygroscopicity of aerosol particles at low temperatures

European Aerosol Conference 2001, Leipzig, Germany, September 3-7, 2001, Journal of Aerosol Science, 977-978

Newspaper Articles 2001

rew, 2001:

Effiziente Verbreitung von Schadstoffen

NZZ, 2001-01-24, Zürich, 52 [pdf-file](#)

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