

LAC Publications 2000

Journal Articles 2000

Dommen, J., A. S. H. Prévôt, I. Polo, B. Neining, and M. Baumle, 2000:

Airborne NMHC measurements under various pollution conditions

Actes INRETS, **1**, 39-46

Eichler, A., M. Schwikowski, H. W. Gäggeler, V. Furrer, H.-A. Synal, J. Beer, M. Saurer, and M. Funk, 2000:

Glaciochemical dating of an ice core from the upper Grenzgletscher (4200 m a.s.l.)

J. Glaciology, **46**, 507-515

Furger, M. et al., 2000:

The VOTALP Mesolcina Valley Campaign 1996 - Concept, background and some highlights

Atmospheric Environment, **34**, 1395-1412

Geissbühler, P., R. T. W. Siegwolf, and W. Eugster, 2000:

Eddy covariance measurements on mountane slopes: The advantage of surface-normal sensor orientation over a vertical slope

Boundary Layer Meteorology, **96**, 371-392

Graber, W. K., and F. Gassmann, 2000:

Real time modelling as an emergency decision support system for accidental release of air pollutants

Mathematics and Computers in Simulation, **52**, 413-426

Kittelson, D. B., J. Johnson, W. F. Watts, Q. Wei, M. Drayton, D. Paulsen, and N. Bukowiecki, 2000:

Diesel Aerosol Sampling in the Atmosphere

SAE Technical Paper Series, **2000-01-2212**, 8 pp.

Limpert, E., P. Bartos, W. K. Graber, K. Müller, and J. G. Fuchs, 2000:

Increase of virulence complexity of nomadic airborne pathogens from west to east across Europe

Acta Phytopathologica et Entomologica, **35**, 261-272

Lugauer, M., U. Baltensperger, M. Furger, H. W. Gäggeler, D. T. Jost, S. Nyeki, and M. Schwikowski, 2000:

Influences of vertical transport and scavenging on aerosol particle surface area and Radon decay product concentrations at the Jungfrauoch (3454 m asl)

Journal of Geophysical Research, **D105**, 19869-19879

Nussbaum, S., M. Geissmann, M. Saurer, R. T. W. Siegwolf, and J. Fuhrer, 2000:

Ozone and low concentrations of nitric oxide have similar effects on isotope discrimination and gas exchange in leaves of wheat (*Triticum aestivum* L.)

J. Plant Physiol., **156**, 741-745

Nyeki, S. et al., 2000:

Convective boundary layer evolution to 4 km asl over high-alpine terrain: Airborne lidar observation in the Alps

Geophysical Research Letters, **27**, 689-692

Poggio, L., M. Furger, A. S. H. Prévôt, W. K. Graber, and E. L. Andreas, 2000:

Scintillometer wind measurements over complex terrain

Journal of Atmospheric and Oceanic Technology, **17**, 17-26

Prévôt, A. S. H., J. Dommen, and M. Baumle, 2000:

Influence of Road Traffic on Volatile Organic Compound Concentrations in and Above a Deep Alpine Valley

Atmospheric Environment, **34**, 4719-4726

Prévôt, A. S. H., J. Dommen, M. Baumle, and M. Furger, 2000:

Diurnal variations of volatile organic compounds and local circulation systems in an Alpine valley

Atmospheric Environment, **34**, 1413-1423

Saurer, M., P. Cherubini, and R. T. W. Siegwolf, 2000:

Oxygen isotopes in tree rings of *Abies alba*: The climatic significance of interdecadal variations

Journal of Geophysical Research, **105**, 12461-12470

Saurer, M., R. T. W. Siegwolf, and Y. Scheidegger, 2000:

Canopy gradients in delta18 O of organic matter as ecophysiological tool

Isotopes in Environmental and Health Studies, in press

Scheidegger, Y., M. Saurer, M. Bahn, and R. T. W. Siegwolf, 2000:

Linking stable oxygen and carbon isotopes with stomatal conductance and photosynthetic capacity: A conceptual model

Oecologia, **125**, 350-357

Schmid, W., H. Schiesser, M. Furger, and M. Jenni, 2000:

The origin of severe winds in a tornadic bow-echo storm over northern Switzerland

Monthly Weather Review, **128**, 192-207

Skills, G., Z. Qian, U. Baltensperger, U. Matter, and H. Burtscher, 2000:

The influence of additives on the size distribution and composition of particles produced by diesel engines

Combustion Science and Technology, **154**, 259-273

Streit, N., E. Weingartner, C. Zellweger, M. Schwikowski, H. W. Gäggeler, and U. Baltensperger, 2000:

Characterization of size fractionated aerosol from the Jungfrauoch (3580 m asl) using total reflection X-ray fluorescence (TXRF)

International Journal of Environmental Analytical Chemistry, **76**, 1-16

Talkner, P., and R. O. Weber, 2000:

Power spectrum and detrended fluctuation analysis: application to daily temperatures

Phys. Rev. E., **62**, 150-160

Zellweger, C., M. Ammann, B. Buchmann, P. Hofer, M. Lugauer, R. Rüttimann, N. Streit, E. Weingartner, and U. Baltensperger, 2000:

Summertime NO_y speciation at the Jungfrauoch, 3580 m above sea level, Switzerland

Journal of Geophysical Research, **D105**, 6655-6667

Books / Book Sections 2000

Nyeki, S., and I. Colbeck, 2000:

The influence of morphological restructuring of carbonaceous aerosols on microphysical atmospheric process

Aerosol chemical processes in the environment, K. Spurny (Ed.). Lewis Publ., New York

Staehelin, J., A. S. H. Prévôt, and J. Barnes, 2000:

Gasphasechemie und Photooxidantien

Umweltveränderungen und Oekotoxikologie. Springer Verlag, 207-341

Conference Proceedings 2000

Andreani-Aksoyoglu, S., 2000:

Modelling of air quality during a short winter period in Switzerland and comparison with summer results

Air Pollution VIII, J. W. S. Longhurst, C. A. Brebbia and H. Power (Eds.). WIT Press, Southampton, 3-12

Andreani-Aksoyoglu, S., and J. Keller, 2000:

Comparison of model results for winter and summer air quality in Switzerland

GLOREAM'99 Workshop, Ischia, Italy, September 22-24, 1999, Istituto universitario navale Napoli, 191-200

Arens, F., M. Ammann, L. Gutzwiller, U. Baltensperger, and H. W. Gäggeler, 2000:

Formation of HONO from the reaction of NO₂ with diesel soot

European Aerosol Conference, Dublin, J. Aerosol Sci., S1035-S1035

Baltensperger, U., E. Weingartner, S. Henning, and S. Nyeki, 2000:

Aerosol measurements: providing the data for the quantification of aerosol impact on climate

EMEP-WMO Workshop on Fine Particles - Emissions, Modelling and Measurements, Interlaken, Switzerland, Norwegian Institute for Air Research, Kjeller, 95-99

Baumann, K., H. Maurer, G. Rau, M. Piringer, U. Pechinger, M. Furger, A. Prévôt, and B. Neining, 2000:

ROM project - Air mass analysis based on PBL soundings and trajectories

26th International Conference on Alpine Meteorology, Innsbruck, Austria, 11-15 Sep 2000, CD-ROM

Bukowiecki, N., S. Henning, A. Hoffer, E. Weingartner, and U. Baltensperger, 2000:

Cloud and Aerosol Characterization Experiment in the free troposphere (CLACE) - a field experiment at the Jungfraujoch (3580 m asl)

European Aerosol Conference, Dublin, J. Aerosol Sci., S11-S12

Furger, M., 2000:

Scintillometric wind measurements in the Rhine Valley during MAP-FORM

MAP Meeting 2000, Bohinjka Bistrica, Slovenia, 24-26 May 2000, MAP Newsletter No. 13, MeteoSwiss, Zurich, 44-45

Furger, M., 2000:

Crosswind measurements with scintillometers at 500 m above valley floor during foehn

9th Conference on Mountain Meteorology, Aspen, Colorado, 7-11 August 2000, American Meteorological Society, 75-78

Graber, W. K., and F. Gassmann, 2000:

Real time risk assessment for atmospheric dispersion of accidentally released air pollutants from nuclear power plants

Risk Analysis II, C. A. Brebbia (Ed.), Southampton and Boston, 523-530

Henning, S., E. Weingartner, U. Baltensperger, and H. W. Gäggeler, 2000:

Investigation of the interaction between aerosol and clouds at the Jungfraujoch (3580 m asl)

European Aerosol Conference, Dublin, J. Aerosol Sci., S13-S14

Hueglin, C., W. Devos, R. Gehrig, P. Hofer, J. Kobler, W. A. Stahel, M. Wolbers, U. Baltensperger, and C. Monn, 2000:

Source apportionment of PM₁₀ in Switzerland by application of a multivariate receptor model

European Aerosol Conference, Dublin, J. Aerosol Sci., S891-S892

Krivácsy, Z. et al., 2000:

Organic and black carbon in background atmospheric aerosols

European Aerosol Conference, Dublin, J. Aerosol Sci., S178-S179

Nyeki, S., U. Baltensperger, I. Colbeck, K. Eleftheriadis, Z. Krivácsy, and E. Weingartner, 2000:

Aerosol Volatility Measurements at the GAW Stations Jungfraujoch and Ny Alesund

European Aerosol Conference, Dublin, Ireland, J. Aerosol Sci., 366-367

Nyeki, S., K. Eleftheriadis, U. Baltensperger, I. Colbeck, M. Fiebig, C. Kiemle, M. Lazaridis, and A. Betzold, 2000:

Airborne Lidar and aerosol studies over the Adriatic sea: II. Aerosol Volatility Studies

European Aerosol Conference, Dublin, J. Aerosol Sci., S586-S587

Prévôt, A. S. H., M. Furger, J. Dommen, and B. Neining, 2000:

Vertical pollutant transport over Alpine Foothills

14th symposium on Boundary Layer and Turbulence, Aspen, Colorado, USA, American Meteorological Society, 406-407

Ritter, N., S. Andreani-Aksoyoglu, J. Keller, J. Dommen, and A. S. H. Prévôt, 2000:

Transboundary air pollution and its influence on the air quality in Switzerland

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Streit, N., E. Weingartner, S. Nyeki, U. Baltensperger, R. Van Dingenen, and H. W. Gäggeler, 2000:

Primary aerosol characterization during urban morning rush hours

European Aerosol Conference, Dublin, J. Aerosol Sci., S311-S312

Weingartner, E., S. Henning, S. Nyeki, and U. Baltensperger, 2000:

Seasonal and diurnal variation of aerosol size distributions ($10 < D < 750$ nm) at a high-alpine site (Jungfrauoch 3580 m asl)

EMEP-WMO Workshop on Fine Particles - Emissions, Modelling and Measurements, Interlaken, Switzerland, Norwegian Institute for Air Research, Kjeller, 195-200

Weingartner, E., H. Saathoff, N. Streit, V. Lavanchy, M. Schnaiter, U. Matter, and U. Baltensperger, 2000:

Hygroscopic behavior of soot particles coated with oxidation products of α -pinene

European Aerosol Conference, Dublin, J. Aerosol Sci., S987-S988

Whiteman, C. D., R. Mayr, M. Furger, and E. Dreiseitl, 2000:

Changes in the alpine boundary layer during the solar eclipse of 11 August 1999

9th Conference on Mountain Meteorology, Snowmass, Colorado, 7-11 August, 2000, American Meteorological Society, 140-144

Theses 2000

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 C_n^2 Messung mit einem Scintillationsanemometer

Diploma Thesis, Eidgenössische Technische Hochschule ETH, Zürich, Switzerland, 68 pp

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