

Publication list

Refereed Publications

Baltensperger, U., N. Streit, E. Weingartner, S. Nyeki, A.S.H. Prévôt, R. Van Dingenen, A. Virkkula, J.P. Putaud, A. Even, H. ten Brink, A. Blatter, A. Neftel, and H.W. Gäggeler, Urban and Rural Aerosol Characterization of Summer Smog Events during the PIPAPO field campaign in Milan, Italy, *J. Geophys. Res.*, **107**, doi:10.1029/2001JD001292, 2002.

Barret, B., M. De Mazière, and P. Demoulin, Retrieval and characterisation of ozone profiles from solar infrared spectra at the Jungfraujoch, *J. Geophys. Res.*, **107**, D24, 4788, doi:10.1029/2001JD001298, 2002.

Buat, V., A. Boselli, G. Gavazzi, C. Bonfanti, Star formation and dust extinction in nearby star forming and starburst galaxies, *AA*, **393**, 801, 2002.

Busso, M., G. Tosti, P. Persi, M. Ferrari-Toniolo, S. Ciprini, L. Corcione, F. Gasparoni, M. Dabalà, The IRAIT Project, Publications of the Astronomical Society of Australia, Volume **19**, Issue 3, pp. 306-312, 2002.

Chevillard, A., P. Ciais, U. Karstens, M. Heimann, M. Schmidt, I. Levin, D. Jacob, R. Podzun, V. Kazan, H. Sartorius, and E. Weingartner, Transport of ²²²Rn using the regional model REMO: A detailed comparison with measurements over Europe, *Tellus*, **54B**, 850-871, 2002.

Coach, O., F. Kirchner, R. Jimenez, I. Balin, P. Quaglia, S. Perego, F. Kirchner, P. Ristori, V. Simeonov, P. Quaglia, V. Vestri, A. Clappier, B. Calpini and H. van den Bergh, Study of a photochemical episode over the Grenoble area using a mesoscale model and intensive measurements, *Pollution Atmosphérique*, **174**, pp. 277-295, 2002. (in French)

Coach, O., I. Balin, R. Jiménez, P. Ristori, S. Perego, F. Kirchner, V. Simeonov, B. Calpini and H. van den Bergh, Investigation of the ozone and planetary boundary layer dynamics on the complex topography area of Grenoble using measurements and modeling, accepted for publication in: Atmospheric Chemistry and Physics Discussions (ACPD) website, first publication stage of Atmospheric Chemistry and Physics (ACP), Ref: MS-NR: MS2002si01-03

Ginot, P., F. Stampfli, D. Stampfli, M. Schwikowski, H.W. Gäggeler, FELICS, a new ice core drilling system for high-altitude glaciers. Proc. of the workshop "Ice Drilling Technology 2000", *Memoirs of National Institute of Polar Research, Special Issue*, **56**, 38-48 (2002).

Ginot, P., M. Schwikowski, H.W. Gäggeler, U. Schotterer, Ch. Kull, M. Funk, A. Rivera, F. Stampfli, W. Stichler, First results of a palaeoatmospheric chemistry and climate study of Cerro Tapado, Chile. *The Patagonian Icefields, A Unique Laboratory for Environmental and Climate Change Studies*, Eds. G. Casassa, F. Sepulveda, R.M. Sinclair, Kluwer Academic/Plenum Publishers, New York, p. 157-167 (2002).

Ginot, P., M. Schwikowski, U. Schotterer, H.W. Gäggeler, R. Gallaire, B. Pouyaud, Potential for climate variability reconstruction from Andean glaciochemical records, *Annals of Glaciology* **35**, 35A120 (2002).

Gysel, M., E. Weingartner, and U. Baltensperger, Hygroscopicity of aerosol particles at low temperatures. 2. Theoretical and experimental hygroscopic properties of laboratory generated aerosols, *Environ. Sci. Technol.*, **36** (1), 63-68, 2002.

Henning, S., E. Weingartner, M. Schwikowski, H.W. Gäggeler, R. Gehrig, K.-P. Hinz, A. Trimborn, B. Spengler, and U. Baltensperger, Seasonal Variation of Water Soluble Ions of the Aerosol at the High-Alpine Site Jungfraujoch (3580 m asl), *J. Geophys. Res.*, **107**, doi: 10.1029/2002JD002439, 2002.

Henning, S., E. Weingartner, S. Schmidt, M. Wendisch, H.W. Gaggeler, and U. Baltensperger, Size-dependent aerosol activation at the high-alpine site Jungfraujoch (3580 m asl), *Tellus*, **54** (1), 82-95, 2002.

Hunt, L, C. Giovanardi, and G. Helou, Hot dust in normal star-forming galaxies: JHKL' photometry of the ISO Key Project Sample, *A&A* **394**, 873, 2002.

Knüsel, S., P. Ginot, U. Schotterer, M. Schwikowski, H. W. Gäggeler, B. Francou, J. R. Petit, J. C. Simões, J. D. Taupin, Dating of two nearby ice cores from the Illimani, Bolivia, *J. Geophys. Res.* **107**, doi:10.1029/2001JD002028 (2002).

Larchevêque, Gilles, I. Balin, R. Nessler, Ph. Quaglia, V. Simeonov, H. van den Bergh, and B. Calpini, Development of a multiwavelength aerosol and water vapor lidar at the Jungfraujoch Alpine Station (3580m ASL) in Switzerland, *Appl. Opt.*, **41**, 2781-2790, 2002.

Marty, Ch., R. Philipona, C. Fröhlich, and A. Ohmura, Altitude dependence of surface radiation fluxes and cloud forcing in the alps: results from the alpine surface radiation budget network, *Theor. Appl. Climatol.* **72**, 137-155, 2002.

Newman, P.A., N.R.P. Harris, A. Adriani, G. Amanatidis, J. Anderson, G. Braathen, W. Brune, K. Carslaw, M. Craig, P. DeCola, M. Guirlet, S. Hipskind, M. Kurylo, H. Küllmann, N. Larsen, G. Mégie, J.-P. Pommereau, L. Poole, M. Schoeberl, F. Stroh, B. Toon, C. Trepte, and M. Van Roozendaal, An overview of the SOLVE-THESEO 2000 campaign, *J. Geophys. Res.*, in press, 2002.

Ossenkopf, V. and M.-M. Mac Low, Turbulent velocity structure in molecular clouds *A&A*, **390**, 307, 2002.

Ossenkopf, V., Molecular line emission from turbulent clouds, *A&A*, **391**, 295, 2002.

Philipona, R., Underestimation of solar and diffuse radiation measured at Earth's surface, *J. Geophys. Res.*, **107**, 4654, 2002.

Pierini, D., New clues to the evolution of dwarf early-type galaxies, *MNRAS*, **330**, 997, 2002.

Pierini, D., G. Gavazzi, P. Franzetti, M. Scodeggio, and A. Boselli, 1.65 micron (H-band) surface photometry of galaxies. VIII: the near-IR k-space at z=0, *MNRAS*, **332**, 422, 2002.

Richichi, A., G. Calamai, B. Stecklum, New binary stars discovered by lunar occultations. VI., *A&A* **382**, 178, 2002.

Rinsland, C. P., Goldman, A., E. Mahieu, R. Zander, J. Notholt, N. Jones, D. W. T. Griffith, T.M. Stephen, L.S. Chiou, Ground-based infrared spectroscopic measurements of carbonyl sulfide: free tropospheric trends from a 24-year time series of solar

absorption measurements, *J. Geophys. Res.*, 10.1029/2002JD002522, 2002.

Rinsland, C.P., N.B. Jones, B.J. Connor, S.W. Wood, A. Goldman, T.M. Stephen, F.J. Murcray, L.S. Chiou, R. Zander, and E. Mahieu, Multiyear infrared solar spectroscopic measurements of HCN, CO, C₂H₆ and C₂H₂ tropospheric columns above Lauder, New Zealand (45°S Latitude), *J. Geophys. Res.*, **107**, D14, 10.1029/2001JD001150, 2002.

Rinsland, C.P., R. Zander, E. Mahieu, L.S. Chiou, A. Goldman, and N.B. Jones, Stratospheric HF column abundances above Kitt Peak (31.9°N latitude): trends from 1977 to 2001 and correlations with stratospheric HCl columns, *J. Quant. Spectrosc. Radiat. Transfer*, **74**, 205-216, 2002.

Schmucki, D., and R. Philipona, Ultraviolet radiation in the Alps: the altitude effect, *Opt. Eng.*, **41** (12), 2002.

Schneider, N., R. Simon, C. Kramer, J. Stutzki, and S. Bontemps, A multiwavelength study of the S106 region. I. Structure and dynamics of the molecular gas, *A&A*, **384**, 225, 2002.

Scodreggio, M., G. Gavazzi, P. Franzetti, A. Boselli, S. Zibetti, and D. Pierini, 1.65 micron (H-band) surface photometry of galaxies. IX: photometric and structural properties of galaxies, *A&A*, **384**, 812, 2002.

Weingartner, E., M. Gysel, and U. Baltensperger, Hygroscopicity of aerosol particles at low temperatures. 1. New low-temperature H-TDMA instrument: Setup and first applications, *Environ. Sci. Technol.*, **36** (1), 55-62, 2002.

Zibetti, S., G. Gavazzi, M. Scodreggio, P. Franzetti, and A. Boselli, 1.65 micron H-band Surface Photometry of Galaxies. X: Structural and Dynamical Properties of Elliptical Galaxies, *ApJ*, **579**, 261, 2002.

Conference papers and presentations

Balin, I., G. Larchvêque, R. Nessler, P. Quaglia, V. Simeonov, H. van den Bergh, and B. Calpini, Monitoring of water vapor, aerosols and clouds/contrails in the free troposphere by lidar from Jungfraujoch station (3580 m ASL), in *Lidar remote sensing in atmospheric and Earth Sciences*, 21st International Laser Radar Conference, Quebec Canada, 8-12 July 2002, 685-688.

Baltensperger, U. and D. Hirsch-Hoffmann, editors, Workshop on 'Atmospheric Research at the Jungfraujoch and in the Alps', SAS Annual Meeting, September 18-21, 2002, Davos, Switzerland.

Belov, A.V., R. Bütiköfer, E.A. Eroshenko, E.O. Flückiger, V.A. Oleneva, and V.G. Yanke, Interplanetary Magnetic Field Disturbances with Particularly High Cosmic Ray Modulation Efficiency, 18th European Cosmic Ray Symposium, Moscow, Russia, 8-12 July 2002, Symposium Program and Abstracts, 2002.

Blumthaler, M., M. Huber, and J. Schreder (2002), Spectral measurements of vertically and horizontally polarized UV sky distribution; Remote Sensing of the Atmosphere, Ocean, Environment, and Space, Hangzhou, China, 23-27.10.2002, Ultraviolet ground- and space-based measurements, models, and effects II, J.R. Slusser, J.R. Herman, W. Gao (Eds), *Proceedings of SPIE Vol. 4896*, 2002.

Brockmann, E. and M. Troller (2002b), GPS Meteorology in the Swiss Alps:

Interpolation Accuracy for different Alpine Areas and Near Real-time Results, COST-716 workshop Potsdam, Jan. 28-29, 2002.

Brockmann, E., S. Grünig, D. Schneider, A. Wiget, and U. Wild (2002c), Applications of the real-time Swiss GPS permanent network AGNES, in Proceedings of the EGS XXVII General Assembly, Nice, 21 - 26 April 2002, Session 9 on Evolving Space Geodesy Techniques, Physics and Chemistry of the Earth (in prep.).

Buchmann, B. et al., Analyses of halogenated greenhouse gases at Jungfrauoch for allocation of European sources, Proc. Workshop on 'Atmospheric Research at the Jungfrauoch and in the Alps', Davos, Switzerland, 20 September 2002, Swiss Academy of Sciences SAS, 17-18, 2002.

Calpini, B., I. Balin, O. Couach, R. Jimenez, P. Ristori, P. Quaglia, H. van den Berg and V. Simeonov, Air pollution study over Grenoble-France in summer 1999: lidar measurements and model predictions, in Lidar remote sensing in atmospheric and Earth Sciences, 21st International Laser Radar Conference-Quebec Canada, 8-12 July 2002, 169-172, 2002.

De Mazière, M. and B. Barret, Retrieval of tropospheric information from ground-based FTIR observations, supported by synergistic exploitation of various ground-based and spaceborne measurement techniques and data, Poster presented at the EUROTRAC-2 2002 Symposium, Garmisch-Partenkirchen, March 11-15, 2002.

Despotashvili, M.A., E.O. Flückiger, and N.A. Nachkebia, Forbush Decreases and Solar Activity Dependence of the Galactic Cosmic Ray Recurrent Variation, 18th European Cosmic Ray Symposium, Moscow, Russia, 8-12 July 2002, Symposium Program and Abstracts, 2002.

Duchatelet, P., E. Mahieu, R. Zander, P. Demoulin, B. Barret and C.P. Rinsland, Updating the Jungfrauoch FTIR databases: current status, Poster presented at the 6th European Symposium on Stratospheric Ozone, Göteborg, Sweden, Sept. 2-6, 2002.

Duchatelet, P., E. Mahieu, R. Zander, P. Demoulin, B. Barret, and C.P. Rinsland; Updating the Jungfrauoch database: current status, in Proceedings of the 6th European Symposium on Stratospheric Ozone, Göteborg, Sweden, September 2-6, 2002, in press, 2002.

Flückiger, E.O., On the Role of Cosmic Ray Measurements in a European Space Weather Programme, 18th European Cosmic Ray Symposium, Moscow, Russia, 8-12 July 2002, Symposium Program and Abstracts, 2002.

Flückiger, E.O., R. Bütikofer, and M.R. Moser, Cosmic Ray Measurements at Jungfrauoch and Gornergrat, Proc. Workshop on 'Atmospheric Research at the Jungfrauoch and in the Alps', Davos, Switzerland, 20 September 2002, Swiss Academy of Sciences SAS, 54-55, 2002.

Freudenthaler, V., et al, Intercomparison of 21 aerosol lidar systems in the frame of EARLINET, 21st International Laser Radar Conference-Quebec Canada, 8-12 July 2002, 297-300, 2002

Gerber D., O. Lezeaux, and N. Kämpfer, A profile of the isotopic abundance of ^{(18)O} in stratospheric water vapour, EGS 27th General Assembly, Nice, France, April 2002.

Gruber, S, W. Haeberli, and J. Noetzli, The Thermal Regime of Steep Alpine Rock Faces, 2002, American Geophysical Union, 2002 Fall Meeting, San Francisco.

Guerova G., J.-M. Bettems, E. Brockmann, and Ch. Matzler (2002a), Assimilation of GPS in the Alpine Model: sensitivity experiment. Proceedings of the COST-716 workshop Potsdam, Jan. 28-29, 2002.

Guerova, G., J.-M. Bettems, E. Brockmann, and Ch. Matzler (2002b), Assimilation of the GPS-derived Integrated Water Vapour (IWV) in the MeteoSwiss Numerical Weather Prediction model - a first experiment, in Proceedings of the EGS XXVII General Assembly Nice, 21 - 26 April, 2002, Session 9 on Evolving Space Geodesy Techniques, Physics and Chemistry of the Earth (in prep.)

Hendrick, F., M. Van Roozendael, C. Fayt, C. Hermans, J.-C. Lambert, and M. De Mazière, Long-term total column NO₂ SAOZ measurements at the Jungfraujoch, as part of the NDSC, Poster presentation at the Workshop on Atmospheric Research at the Jungfraujoch and in the Alps, 182nd Annual Congress of the Swiss Academy of Sciences, Davos, Switzerland, 24-27 September 2002.

Kramer, C., J. Alves, and C. Lada, The Physical Structure of a Prestellar Core in IC 5146, The Origins of Stars and Planets: The VLT View, Proceedings of the ESO Workshop held in Garching, Germany, 24-27 April 2001, **45.**, 45, 2002.

Lambert, J.-C., A Review of Observational Data on Stratospheric NO₂, Solicited oral presentation at the World Space Congress II/34th COSPAR Scientific Assembly, Special Session on COSPAR International Reference Atmospheres (CIRA), Houston, Texas (USA), 10-19 October, 2002.

Lambert, J.-C., J. Granville, F. Hendrick, M.P. Chipperfield, and M. Van Roozendael, Diurnal cycle of stratospheric NO₂ and its effects on the interpretation of multi-platform measurements, Poster presentation at the World Space Congress II/34th COSPAR Scientific Assembly, Session on Trace Constituents in the Troposphere and Lower Stratosphere, Houston, Texas (USA), 10-19 October 2002.

Lambert, J.-C., J. Granville, V. Soebijanta, and M. Van Roozendael, Preliminary Evaluation of GOME Data Processor Upgrade to Version 3.0, Invited talk at the GOME User Consultation Meeting, ESA/ESRIN, Frascati, Italy, 28-29 January 2002.

Levin, I. and B. Kromer, Long-term measurements of ¹⁴CO₂ at Jungfraujoch: Observing fossil fuel CO₂ over Europe, Proc. Workshop on 'Atmospheric Research at the Jungfraujoch and in the Alps', Davos, Switzerland, 20 September 2002, Swiss Academy of Sciences SAS, 19-20, 2002.

Mahieu, E., C. P. Rinsland, R. Zander, P. Duchatelet, C. Servais, and M. De Mazière, Tropospheric and stratospheric carbonyl sulfide (OCS): long-term trends and seasonal cycles above the Jungfraujoch station, in Proceedings of the 6th European Symposium on Stratospheric Ozone, Göteborg, Sweden, September 2-6, 2002, in press, 2002.

Mahieu, E., C.P. Rinsland, R. Zander, P. Duchatelet, C. Servais and M. De Mazière, Tropospheric and Stratospheric Carbonyl Sulfide (OCS): Long-term Trends and Seasonal Cycles above the Jungfraujoch Station, Poster presented at the 6th European Symposium on Stratospheric Ozone, Göteborg, Sweden, Sept. 2-6, 2002.

Marty, Ch., Surface radiation budget and cloud forcing in the Alps, Third GAW-CH Conference: Ozone, Radiation and Aerosols, Zürich, 85-87, 2002.

Miller, John M., Past achievements and future direction of the GAW-CH Programme, Concluding Remarks at the Third GAW-CH Conference: Ozone,

Radiation and Aerosols, Zürich, 2002.

Mironova, I., C. Böckmann and R. Nessler, Microphysical Parameters from 3-Wavelength Raman Lidar, in Lidar remote sensing in atmospheric and Earth Sciences, 21st International Laser Radar Conference, Quebec, Canada, 8-12 July 2002, 585-588.

Muraki, Y., Space Weather Forecast with International Neutron Network, Proc. 22nd ISTC Japan Workshop on Space Weather Forecast in Russia/CIS, Nagoya, Japan, 5-6 June 2002, Nagoya University STE Laboratory, Vol. 2, 101, 2002.

Papalardo, G. et al, EARLINET measurements of the aerosol extinction-to-backscatter ratio, 21st International Laser Radar Conference, Quebec, Canada, 8-12 July 2002, 301-304.

Papayanis, A. et al, Two years of continuous observations of Saharan dust events over the European continent using a coordinated LIDAR Network in the frame of the EARLINET Project, in Lidar remote sensing in atmospheric and Earth Sciences, 21st International Laser Radar Conference, Quebec, Canada, 8-12 July 2002, 309-31.

Philipona, R. and Ch. Wehrli, Towards radiometric standards for longwave radiation and aerosol optical depth measurements, Third GAW-CH Conference: Ozone, Radiation and Aerosols, Zürich, 76-79, 2002.

Philipona, R., C. Wehrli, A. Heimo, and L. Vuilleumier, Radiation Measurements and Climate Change in the Alps, Proc. Workshop on Atmospheric Research at the Jungfraujoch and in the Alps, Davos, Switzerland, 20 September 2002, Swiss Academy of Sciences SAS, 21-22, 2002.

Reimann, S. et. al., Ambient air measurements of halogenated greenhouse gases at Jungfraujoch as a tool for verification of their anthropogenic emissions, IGAC meeting, Crete, Greece, 2002.

Reimann, S. et. al., Emission estimates of halogenated greenhouse gases by analysis of on-line measurements at a high Alpine station (Jungfraujoch), EUROTRAC conference proceedings Garmisch-Partenkirchen, Germany, 2002.

Reimann, S., et. al., Estimated emissions of halogenated greenhouse gases by analysis of on-line measurements at a high Alpine station (Jungfraujoch), Conference on Non-CO₂ Greenhouse Gases, Den Haag, Netherlands, 2002.

Sartorius, H., W. Weiss and H.H. Loosli: 10 years of ⁸⁵Kr Results on Samples from Jungfraujoch, and still it is very interesting, Workshop on 'Atmospheric Research at the Jungfraujoch and in the Alps', Davos, 20 September 2002, Swiss Academy of Sciences SAS, 56-57, 2002

Simeonov, V. B. Calpini, and H. van den Bergh, New Raman-shifted sources for ozone DIAL applications, in Lidar remote sensing in atmospheric and Earth Sciences, 21st International Laser Radar Conference, Quebec, Canada, 8-12 July 2002, 19-22.

Simeonov, V., B. Calpini, I. Balin, P. Ristori, R. Jimenez, and H. van den Bergh, UV ozone DIAL based on a N₂ Raman converter, design and results during ESCOPMTE field campaign, in Lidar remote sensing in atmospheric and Earth Sciences, 21st International Laser Radar Conference, Quebec, Canada, 8-12 July 2002, 403-406.

Third GAW-CH Conference, Ozone, Radiation and Aerosols, Zürich, 23 October 2002, Proceedings, Swiss Agency for the Environment, Forests and Landscape,

Environmental Documentation No. 153 Air, 2002.

Troller, M., E. Brockmann, M. Cocard, and A. Geiger (2002), GPS Derived Path-delays Versus Four-Dimensional Meteorological Modelling; COST-716 workshop Potsdam, Jan. 28-29, 2002.

Vasic V., N. Kämpfer and D.G. Feist, AMSOS - Airborne Millimeter- and Submillimeter Observing System, Second International Microwave Radiometer Calibration Workshop, Barcelona, Spain, October, 2002.

Watanabe, T., Cosmic-Ray Data Center Activity for Space Weather, Proc. 22nd ISTC Japan Workshop on Space Weather Forecast in Russia/CIS, Nagoya, Japan, 5-6 June 2002, Nagoya University STE Laboratory, Vol. 2, 109, 2002.

Book sections

Balin, I., G. Larchevêque, P. Quaglia, V. Simeonov, H. van den Bergh, and B. Calpini, Water vapor vertical profile by Raman lidar in the free troposphere from the Jungfraujoch Alpine Station, in M. Beniston, (ed.), Climatic Change: Implications for the Hydrological Cycle and for Water Management, Advances in Global Change Research, 10. Kluwer Academic Publishers, Dordrecht and Boston, 123-138, 2002.

Flückiger, E.O., The High Altitude Research Station Jungfraujoch, in Ellis, N. and J. March-Russell (eds.), Proceedings, 2001 European School of High-Energy Physics, Beatenberg, Switzerland, 26 August – 8 September 2001, 385-394, 2002 (ISBN 92-9083-194-4).

Zander, R., E. Mahieu, C. Servais, G. Roland, P. Duchatelet, P. Demoulin, L. Delbouille, C. P. Rinsland, M. De Mazière, and R. Blomme, Potential of the NDSC in support of the Kyoto Protocol: Examples from the station Jungfraujoch, Switzerland, in Proceedings of The Third International Symposium on Non-CO₂ Greenhouse Gases: Scientific Understanding, Control Options and Policy Aspects, Maastricht, The Netherlands, January 21-23, 2002, J. Van Ham et al. (eds.), Millpress-Rotterdam Publishers, ISBN 90 77017-70-4, 305-310, 2002.

Theses

Henning, S., Aerosol and Cloud Microphysics at the High-Alpine Site Jungfraujoch (3850 m asl), PhD thesis, Universität Bern, 2002.

Larchevêque, G., Development of the Jungfraujoch multiwavelength lidar system for continuous observations of the aerosol optical properties in the free troposphere, PhD thesis EPFL, N° 2539, 2002.

Mahieu, E., L'évolution du chlore inorganique au-dessus du Jungfraujoch et le Protocole de Montréal, PhD Thesis, University of Liège, 17 Allée du 6 Août, 4000-Liège, Belgium, pp. 1-172, December 2001.

Moser, M.R., Solar Neutron Telescope Gornergrat - Monte Carlo Simulation of Detector Properties, Diploma Thesis, Universität Bern, 2002. Available at <http://kspc4.unibe.ch/sontel.html>.

Data books and reports

Annalen MeteoSchweiz 2001, June 2002.

Brockmann E., R. Hug and Th. Signer (2002a): Geotectonics in the Swiss Alps using GPS. In: Torres J.A. and H. Hornik (Eds): Subcommission for the European Reference Frame (EUREF). EUREF Publication No. 11 (in prep.).

Data of the 18IGY-Neutron Monitor Jungfrauoch, 01.01.-30.06.2002

Data of the 18IGY-Neutron Monitor Jungfrauoch, 01.07.-31.12.2002

Data of the 3NM64 Neutron Monitor Jungfrauoch, 01.01.-30.06.2002

Data of the 3NM64 Neutron Monitor Jungfrauoch, 01.07.-31.12.2002

De Mazière, M., and B. Barret, Retrieval of tropospheric information from ground-based FTIR observations, supported by synergistic exploitation of various ground-based and space-borne measurement techniques and data, in Annual Report 2001-TROPOSAT: The Use and Usability of Satellite Data for Tropospheric Research, EUROTRAC-2 International Scientific Secretariat (ISS), GSF-National Research Centre for Environment and Health, Munich, Germany, p. 146-150, May 2002.

De Mazière, M., R. Colin, D. de Muer, R. Zander, The Earth Observing System: Synergy between Ground-based and Satellite Observations and Model Experiments, in Space Scientific Research in Belgium, Volume 3: Earth Sciences, Part III, 1994-2000, pp. 9-32, 2002.

Global Change Abstracts: The Swiss Contribution, ProClim, 2002.

Labor für Radio- und Umweltchemie der Universität Bern und des Paul Scherrer Instituts, Annual Report 2001, 2002.

Lambert, J.-C., M. Van Roozendaal, M. De Mazière, Development, Validation and Exploitation of ERS-2 GOME Satellite Data: Overview and Perspectives for ENVISAT, in Space Scientific Research in Belgium, Volume 3: Earth Sciences, Part III, 1994-2000, pp. 47-66, 2002.

Lüthi, Thomas und Andreas Magun, Rekonstruktion der Flussdichte des Flares vom 12. April 2001 bei 230 und 345 Ghz, IAP-Forschungsbericht Nr. 2002-6.

Mannucci, F., Masetti, N.; Pian, E.; Ranfagni, P.; Covino, S.; Israel, G.L. Near-infrared observations of GRB020322 at TIRGO, GCN 1309 1, March 2002.

Montzka, S. A., P. J. Fraser, J. H. Butler, D. Cunnold, J. Daniel, D. Derwent, P. S. Connell, S. Lal, A. McCulloch, D. E. Oram, C. E. Reeves, E. Sanhueza, P. Steele, G. J. M. Velders, and R. Zander, Controlled substances and other source gases, Chapter 1 of WMO Scientific Assessment of Ozone Depletion: 2002, WMO-Geneva, in press, 2002.

NABEL, Luftbelastung 2001, Schriftenreihe Umwelt Nr. 343 Luft, Bundesamt für Umwelt Wald und Landschaft, Bern 2002.

Tobler, L., Ch. Schnabel, P.W. Kubik, M. Schwikowski, H.W. Gäggeler, Messung von atmosphärischem ^7Be , ^{10}Be und ^{210}Pb an der hochalpinen Station Jungfrauoch, Umweltradioaktivität und Strahlendosen in der Schweiz 2001, Ed. H. Völkle, M. Gobet, Bundesamt für Gesundheitswesen, Abteilung Strahlenschutz, B. 4.5.1-4.5.5 (2002).

Umweltradioaktivität und Strahlendosen in der Schweiz 2001, Bundesamt für

Gesundheit, June 2002.

Zander, R., E. Mahieu, P. Demoulin, F. Mélen, C. Servais, and P. Duchatelet, Monitoring of the variability and long-term evolution of tropospheric constituents by infrared solar absorption spectrometry at the Jungfraujoch, Switzerland, in Annual Report 2001- TROPOSAT: The Use and Usability of Satellite Data for Tropospheric Research, EUROTRAC-2 International Scientific Secretariat, Munich, Germany, pp. 192-196, 2002.

Public outreach / Popular publications

Jungfrau, Mönch & Eiger, Exhibition in the Schweizerisches Alpines Museum, Helvetiaplatz 4, CH-3005 Bern; including historical and current photos of the Research Station Jungfraujoch, June 20 – December 1, 2002.

TV report on a Rumanian researcher at EPFL who works with the lidar experiment at Jungfraujoch, produced in June 2002 in Lausanne and at Jungfraujoch by Irina Luca and Sorin Popa, Televiziunea Romana, Bucarest, Rumania, broadcast on October 15, 2002.

Radio presentation “Atomes crochus”, Radio Suisse Romande 1, produced by Marc Bermann, July 31, 2002, with Ioan Balin of EPFL and member of the lidar experiment team at Jungfraujoch.

