
MUSEUMSPUBLIKATIONEN & ARTIKEL (2002 – 2017)

Antener, I., Bossi, N., Jochum, E., **Schaub, D.**, Entdecke mit Pernix den Urzeitwald, Begleitpublikation zum Atlantis Bilderbuch «Pernix – Die Abenteuer eines kleinen Sauriers» von D. Wiesmüller, Atlantis-Verlag, 2017.

Rütsche, C. und **Schaub, D.**, Wie Honig im Kopf, Serie «Wie wir lernen», Teil 6, Aus- und Weiterbildung, *Tages-Anzeiger*, 2015.

Rütsche, C. und **Schaub, D.**, Wie wir lernen, Publikation zur Kulturama-Sonderausstellung, 2011.

Schaub, D., Sind Rekordtemperaturen im Januar ein Beweis für die Klimaveränderung?, *PfäffikerIn*, Nr. 112, 11. Jg., pp. 3-4, 2007.

Schaub, D., Wie kommt der Saharastaub in die Schweiz?, *EMPA Kontakt*, Nr. 128, pp. 4-5, 2002.

ABSCHLUSSARBEITEN - THESIS (1999 – 2006)

Schaub, D., Tropospheric nitrogen dioxide from GOME and SCIAMACHY measurements over the Alpine region: strengths and limitations, *Diss. ETH No. 16829, ETH Zürich*, 2006. (Doktorarbeit)

Schaub, D., Analyse alpiner Spurengasmessungen der Stationen Arosa und Jungfrauoch: Luftmassenresidenzzeit und chemische Filter, *Diploma Thesis, ETH Zürich/Laboratorium für Atmosphärenphysik (LAPETH)*, 2001. (Diplomarbeit)

Schaub, D., Analyse von Sichtweitendaten aus den Jahren 1954 bis 1997 an der Schweizerischen Meteorologischen Anstalt, *Semester Thesis, MeteoSchweiz*, 1999. (Semesterarbeit)

FACHARTIKEL (REVIEWED, 2003 – 2007)

Schaub, D., Brunner, D., Boersma, K. F., Keller, J., Folini, D., Buchmann, B., Berresheim, H., and Staehelin, J., SCIAMACHY tropospheric NO₂ over Switzerland: estimates of NO_x lifetimes and impact of the complex Alpine topography on the retrieval, *Atmospheric Chemistry and Physics*, 7, 5971-5987, 2007.

Schaub, D., Boersma, K. F., Kaiser, J. W., Weiss, A. K., Eskes, H. J., and Buchmann, B., Comparison of GOME tropospheric NO₂ columns with NO₂ profiles deduced from ground-based in situ measurements, *Atmospheric Chemistry and Physics*, 6, 3211-3229, 2006.

Schaub, D., Weiss, A. K., Kaiser, J. W., Petritoli, A., Richter, A., Buchmann, B., and Burrows, J. P., A transboundary transport episode of nitrogen dioxide as observed from GOME and its impact in the Alpine region, *Atmospheric Chemistry and Physics*, 5, 23-37, 2005.

Li, Y., Campana, M., Reimann, S., **Schaub, D.**, Stemmler, K., Staehelin, J., and Peter, T., Hydrocarbon concentrations at the Alpine mountain sites Jungfrauoch and Arosa, *Atmospheric Environment*, 39, 1113-1127, 2005.

Collaud Coen, M., Weingartner, E., **Schaub, D.**, Hueglin, C., Corrigan, C., Henning, S., Schwikowski, M., and Baltensperger, U., Saharan dust events at the Jungfraujoch: detection by wavelength dependence of the single scattering albedo and first climatology analysis, *Atmospheric Chemistry and Physics*, 4, 2465-2480, 2004.

Petriloti, A., Bonasoni, P., Giovanelli, G., Ravegnani, F., Kostadinov, I., Bortoli, D., Weiss, A., **Schaub, D.**, Richter, A., and Fortezza, F., First comparison between ground-based and satellite-borne measurements of tropospheric nitrogen dioxide in the Po basin, *Journal of Geophysical Research*, 109, D15, D15307, 2004.

Reimann, S., **Schaub, D.**, Stemmler, K., Folini, D., Hill, M., Hofer, P., and Buchmann, B., Halogenated greenhouse gases at the Swiss High Alpine Site of Jungfraujoch (3580 m asl): Continuous measurements and their use for regional European source allocation, *Journal of Geophysical Research*, 109, D05307, 2004.

Weiss, A. K., **Schaub, D.**, Hofer, P., The use of space-borne measurements and the ground-based Swiss Air Pollution Monitoring System for tracing atmospheric pollution, in: Sounding the Troposphere from Space: A new Era for Atmospheric Chemistry, P. & P.M. Borrell, J. P. Burrows and U. Platt (eds), Springer, Heidelberg, 2003.

FORSCHUNGSBERICHTE (2002 – 2007)

Schaub, D., Brunner, D., Folini, D., and Buchmann, B., On the way to improved air quality monitoring from space, *contribution to Empa Activity Report 2006*, 2007.

Schaub, D. and Buchmann, B., Validation of GOME tropospheric NO₂ columns with NO₂ profiles determined from ground-based in situ measurements, *contribution to ACCENT-Troposat-2, Annual Report 2005-6*, 2006.

Schaub, D., Trace gases - seen from an altitude of 800 kilometres, *contribution to Empa Annual Report 2005*, 2006.

Schaub, D. and Buchmann, B., Towards the use of space-borne data for air pollution monitoring: comparison and validation with ground-based in situ measurements, *contribution to ACCENT-Troposat-2, Annual Report 2004-5*, 2005.

Petriloti, A., Weiss, A. K., **Schaub, D.**, Hofer, P., Bonasoni, P., Inquinamento da NO₂ in pianura padana: individuazione di «hot spot pollution» mediante l'uso combinato di misure satellite e da terra, *I quaderni di ARPA*, 111-116, 2003.

Reimann, S., **Schaub, D.**, Stemmler, K., and Weiss, A. K., European source allocation of halogenated greenhouse gases using high-quality measurements at Jungfraujoch, *contribution to Empa Activity Report 2002*, 2003.

Weiss, A. K., **Schaub, D.**, and Hofer, P., Tracing atmospheric pollution from space, *contribution to Empa Activity Report 2002*, 2003.

Weiss, A. K., **Schaub, D.**, and Hofer, P., The use of space-borne measurements and the ground-based Swiss Monitoring System for tracing atmospheric pollution, *contribution to Eurotrac-2/Troposat, Annual Report 2001*, 2002.

Reimann, S., **Schaub, D.**, Stemmler, K., Weiss, A. K., Buchmann, B., and Hofer, P., Kontinuierliche Messungen von halogenierten Treibhausgasen auf dem Jungfraujoch (HALCLIM), *Schlussbericht 2002*, 2002.

Schaub, D., DUP-POLPO Data Visualisation Tool - Manual, *ESA report*, part I, pp. 17, 2002.

Weiss, A. K., **Schaub, D.**, and Petritoli, A., DUP-POLPO Case Study Collection, *ESA report*, part II, pp. 52, Frascati, 2002a.

Weiss, A. K., **Schaub, D.**, and Petritoli, A., DUP-POLPO User Handbook, *ESA report*, part III, pp.58, Frascati, 2002b.

KONFERENZ-PROCEEDINGS (2002 – 2007)

Schaub, D., Brunner, D., Boersma, F., Folini, D., Keller, J., Buchmann, B., and Staehelin, J., Spaceborne tropospheric NO₂ above the Alpine region: evidences of systematic retrieval errors and the effect of inaccurate pixel surface pressure, *EGU General Assembly 2007 Proceedings*, 2007.

Reimann, S., **Schaub, D.**, Stemmler, K., Folini, D., and Hill, M., Continuous measurements of halogenated greenhouse gases at Jungfrauoch (Switzerland) for regional European source allocation, *Proceedings/Report of the Inverse modelling for potential verification of national and EU bottom-up GHG inventories workshop*, 2004.

Collaud Coen, M., Weingartner, E., **Schaub, D.**, Hüglin, Ch., Baltensperger, U., Détection et climatologie des incursions de poussières du Sahara au Jungfrauoch, *NABEL meeting proceedings*, 2004.

Schaub, D., Weiss, A. K., Petritoli, A., Richter, A., and Buchmann, B., Air Pollution Monitoring from Space - Activities at EMPA, *Proceedings of the 16th ESA Symposium on Rocket and Ballon Programmes and Related Research*, ESA SP-530, 2003.

Schaub, D., Reimann, S., Stemmler, K., Weiss, A.K., Buchmann, B., and Hofer, P., Potential Source Regions of Trace Gases Observed at Jungfrauoch, *Proceedings of 3rd GAW-CH Conference*, SAEFL Environmental Documentation, 153, 2002.

Weiss, A. K., **Schaub, D.**, and Hofer, P., Modelling the spreading of air pollution with weather models, *Integrated Assessment and Decision Support proceedings of the 1st biennial meeting of the International Environmental Modelling and Software Society (iEMSs)*, Vol. 3, pp. 527-531, 2002.