Publication list Uwe Raffalski

All citation counts (except for conference contributions) are extracted from Google Scholar (last update 2018-01-25)

1) Peer-reviewed original articles

1) Niall J. Ryan, Kinnison, D. E., Garcia, R. R., Raffalski, U., Palm, M., and Notholt, J.: Assessing the ability to derive rates of polar middle-atmospheric descent using trace gas measurements from remote sensors, Atmos. Chem. Phys. Discuss., https://doi.org/10.5194/acp-2017-557, in review, 2017.
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12) J. Angelbratt, J. Mellqvist, D. Simpson, J. E. Jonson, T. Blumenstock, T. Borsdorff, P. Duchatelet, F. Forster, F. Hase, E. Mahieu, J. Notholt, A. K. Petersen, U. Raffalski, C. Servais, R. Sussman, and T. Warneke, Carbon monoxide (CO) and ethane (C2H6) trends from ground-based solar FTIR measurements at six European stations, comparison and sensitivity analysis with the EMEP model, ACPD, 2011, Vol.11, pp. 13723-13767, SRef-ID: 1680-7375/acpd/2011-11-13723, 2011.

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15) Gerhard Kopp, Alla Belova, Eduardo Diez y Riega V, Jochen Gross, Gerd Hochschild, Pedro Hoffmann, Donal Murtagh, Uwe Raffalski, Joachim Urban, Intercomparison of Odin–SMR ozone profiles with ground-based millimetre-wave observations in the Arctic, the mid-latitudes, and the tropics, Canadian Journal of Physics, 2007, 85(11): 1097-1110, https://doi.org/10.1139/p07-088.
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G. Kopp, G. Hochschild, and **U. Raffalski** Ground-Based Millimeter-Wave Measurements of Stratospheric Ozone in Winter 2002/2003 in Kiruna, EGS-AGU-EUG Joint Assembly, Nice, April 6- 11, 2003, poster

U. Raffalski, H. Berg, G. Hochschild, G. Kopp, Continuous ozone measurements over Kiruna during winter/spring 2002: A new millimeter wave radiometer operated at the Swedish Institute of Space Physics, Kiruna, Sweden, XXVII General Assembly, European Geophysical Society, Nice, April 21- 26, 2002.

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G. Hochschild, H. Berg, G. Kopp, **U. Raffalski**, Ground-Based Millimeter Wave Observations of Stratospheric Nitric Acid (HNO3) during Winter 1999/2000 at Kiruna, poster at the SOLVE/THESEO 2000 Science Meeting, Palermo, September 25-29 2000

U. Raffalski, Hermann Berg, Gerd Hochschild, Gerhard Kopp, and Åke Steen, Stratospheric O3, ClO, N2O and HNO3 above Kiruna in winter1999/2000, poster at the *XXV General Assembly of the European Geophysical Society*, Nice, France, April 2000.

U. Raffalski, Åke Steen, Gerd Hochschild, A versatile mm-wave radiometer in Kiruna, Sweden,oral and poster presentation at the *International Union of Geodesy and Geophysics (IUGG) 99*, Birmingham, Great Britain, July 1999.

U. Raffalski, K.F. Künzi, J. Langer, B.-M. Sinnhuber, M.P. Chipperfield, Millimeter-Wave Measurements of Stratospheric Chlorine Monoxide Profiles in the Arctic in Comparison with Model Results, poster at the *XXI General Assembly of the European Geophysical Society*, The Hague, Netherlands, May 1996.

G.W. Schwaab, **U. Raffalski**, B.-M. Sinnhuber, K.F. Künzi, Millimeter Wave Observations of Ozone and Chlorine Monoxide at Ny-Ålesund/Spitzbergen from 1993-1995, proceedings of the *International Conference on Ozone in the Lower Stratosphere*, Halkidiki, Greece, May 1995.

5) Monographs

U. Raffalski, Observation of stratospheric trace gases over Ny-Ålesund, Spitsbergen, using a groundbased microwave radiometer, Ber. zur Polarforschung 278 (1998), IUSSN 0176-5027.

6) Books and book chapters

Hoffmann, C.G., Palm, M., Notholt, J., **Raffalski, U.**, Hochschild, G.: A brief example on the application of remotely sensed tracer observations in atmospheric science – studying the

impact of stratosphere-mesosphere coupling on polar ozone variability, one chapter in "Earth System Science": Bridging the Gaps between Disciplines, edited by Gerrit Lohmann, Klaus Grosfeld, Dieter Wolf-Gladrow, Vikram Unnithan, Justus Notholt, Anna Wegner, ISBN 978-3-642-32234-1, ISBN 978-3-642-32235-8 (eBook), Springer, pp. 15-19, 2013.

7) invited popular talks (outside IRF)

“Research on ozone in Kiruna”, evening lecture for science teachers at the senior secondary school in Kiruna, February 1998

8) involved in TV- and radio programme

Interviewed expert at Hjärnkontoret’s programme on UV radiation and ozone.2003

9) other activities

Member of the Swedish Polar Research Secretariate’s SWEDARP 04/05 expedition to Wasa station in Antarcticain November and December 2004.

3 lectures on ozone research, ozone-climate interaction and climate change for students at the Högskola Kalmar, Natural Resources Management Research Unit, NRMR, Department for Environmental science at the Institute of Biology and Environmental Science, Dec 2004.

Interview for an essay on light in Kiruna in the German newspaper “energie-magazin”, April 2004.

Member of the programme committee for a workshop for finish postdocs from Oulu, ’Second Arctic-Mediterranean Post Graduate Workshop on Intelligent Machines and Transport Systems’, March 13 – 21, 2004. Presentation of IRF and lectures on ozone research.

Involved in a course for Austrian teachers in physics in April 2002 and 2003.

Public information at ‘Folkets Hus’ during the SOLVE campaign in Kiruna in Jan 2000. ”Are we heading for an arctic ozone hole?” with Dr. Geir Braathen, NILU, Norway.

10) Education

1. Undervisning i atmosfärkemi i ozonskiktet samt i atmosfären på solsystemens planeter inom Civilingenjörsprogrammet i rymdteknik, högskoleingenjörsprogrammet i rymdteknik med tillhörandet magisterprogram liksom på Rymdgymnasiet.
2. Kursansvarig för en kurs med titeln 'Miljöobservationer från rymden’ inom Civilingenjörsprogrammet i rymdteknik, årskurs 4, år 2003, 2004, 2005.
3. Kursansvarig för en kurs med titeln Fysik (KIR052) inom
4. Kursansvarig för en kurs med titeln 'Modern fysik & optik’ inom Högskoleingenjörsprogrammet i rymdteknik, årskurs 4, år 2002.
5. 10 föreläsningar om fjärranalysteknik i en kurs med titeln 'optik och radar’ inom Högskoleingenjörsprogrammet i rymdteknik, årskurs 4, lp 4, år 2004 och 2005.

Handledare för ett examensarbete (10 p) i år 2002 och 2005. Handledare för en doktorand under åren 2002 och 2003.