Curriculum vitae – Dr. Mathias Palm

Name: Dr. Mathias Palm
Email: mathias.palm@uni-bremen.de
Birthday: 21st of August 1971

Professional Experience

since 5.2006
Institute of Environmental Physics (IUP)
University of Bremen
Scientist
Group leader in the AG Notholt, Institute of Environmental Physics, University of Bremen

- RAM (ground-based millimeterwave radiometry) within the IUP at the University of Bremen.
- Thermal infrared (TIR) and mid-infrared (MIR) measurements of the atmosphere using FT-spectrometry

02.2000 to 09.2002:
Graduate School of Social Sciences (GSSS)
University of Bremen
Software engineer and computer administrator

- Programming of the database QBIQ
- Maintenance of the Linux systems

11.2000 to 03.2001:
Technical University of Berlin and Kernforschungszentrum Rossendorf
Physicist

- Design of an X-Ray optics

since 01.2012
Associate editor for the journal „Atmospheric Chemistry and Physics“

Education

10.2002 to 05.2006:
Institute of Environmental Physics
University of Bremen
Doctorate in Physics

- Degree: Dr. rer. nat. (Magna cum laude)
- Title: „Extension and combination of existing remote-sensing instruments“; http://nbn-resolving.de/urn:nbn:de:gbv:46-diss000103890

10.1995 bis 01.2000:
University of Auckland, New Zealand
University of Bremen
Study of Physics and Mathematics
MSc (Honors)

Publicationlist Dr. Mathias Palm

Ryan, N. J. ; Kinnison, D. E.; Garcia, R. R.; Hoffmann, C. G.; Palm, M.; Raffalski, U. & Notholt, J. Assessing the ability to derive rates of polar middle-atmospheric descent using trace gas measurements from remote sensors Atmospheric Chemistry and Physics, 2018, 18, 1457-1474

Dammers, E. ; Schaap, M.; Haaima, M.; Palm, M.; Kruit, R. W.; Volten, H.; Hensen, A.; Swart, D. ; Erisman J. Measuring atmospheric ammonia with remote sensing campaign: Part 1 – Characterisation of vertical ammonia concentration profile in the centre of The Netherlands Atmospheric Environment Atmospheric Environmen 2017, 169, 97 - 112 Hase, N.; Miller, S. M.; Maaß, P.; Notholt, J.; Palm, M. ; Warneke, T. Atmospheric inverse modeling via sparse reconstruction Geoscientific Model Development, 2017, 10, 3695-3713

Wang, Y. ; Deutscher, N. M.; Palm, M.; Warneke, T.; Notholt, J.; Baker, I.; Berry, J.; Suntharalingam, P.; Jones, N.; Mahieu, E.; Lejeune, B.; Hannigan, J.; Conway, S.; Mendonca, J.; Strong, K.; Campbell, J. E.; Wolf, A. & Kremser, S. Towards understanding the variability in biospheric CO2 fluxes: using FTIR spectrometry and a chemical transport model to investigate the sources and sinks of carbonyl sulfide and its link to CO2 ACP, 2016, 16, 2123-2138

Kremser, S. ; Jones, N. B.; Palm, M.; Lejeune, B.; Wang, Y.; Smale, D. & Deutscher, N. M. Positive trends in Southern Hemisphere carbonyl sulfide (OCS) Geophysical Research Letters, 2015, 42, 9473-9480

Mahieu, E. ; Chipperfield, M. P.; Notholt, J.; Reddmann, T.; Anderson, J.; Bernath, P. F.; Blumenstock, T.; Coffey, M. T.; Dhomse, S. S.; Feng, W.; Franco, B.; Froidevaux, L.; Griffith, D. W. T.; Hannigan, J. W.; Hase, F.; Hossaini, R.; Jones, N. B.; Morino, I.; Murata, I.; Nakajima, H.; Palm, M.; Paton-Walsh, C.; III, J. M. R.; Schneider, M.; Servais, C.; Smale, D. & Walker, K. A. 'Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes', Nature, 2014, 515, 104-107

Mariani, Z. Strong, K.; Palm, M.; Lindenmaier, R.; Adams, C.; Zhao, X.; Savastiouk, V.; McElroy, C. T.; Goutail, F. & Drummond, J. R. 'Year-round retrievals of trace gases in the Arctic using the Extended-range Atmospheric Emitted Radiance Interferometer', in Atmos. Meas. Tech., 2013, 6, 1549-1565