
Current Position

Senior Scientist, Dept. Atmospheric and Climate Research
NILU, NORWEGIAN INSTITUTE FOR AIR RESEARCH (www.nilu.no)

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Personalia

Born: 1963
Nationality: German
Sex: Female
Languages: German (mother tongue), English (excellent), Norwegian (good)

Scientific education

1992: Diploma in Physics, University of Cologne, Germany
1998: Dr. rer. nat., University Bremen, Germany

Employment / Experience

since 2005 Senior Scientist, Norwegian Institute for Air Research, Kjeller/Tromsø, Norway
2002 - 2005 Scientist, Norwegian Institute for Air Research, Tromsø, Norway
1996 - 2002 Scientist, Atmospheric Research Programme, Swedish Institute of Space Physics, Kiruna, Sweden
1993 - 1996 Research Assistant, Alfred-Wegener Institute for Polar and Marine Research, Germany
1991 - 1992 Research Assistant, Forschungszentrum Jülich, Germany
2000 - 2013 Referee: Ann. Geophys., Geophys. Res. Lett., Tellus, Atmos. Chem. Phys., Environ. Monit. Assess., J. Atm. Solar-Terr. Physics, Atmospheric Environment, Atmos. Meas. Tech.
2009, 2012 Referent PhD committee, Univ. Valladolid, Spain, Univ. Clusj-Napoca, Romania
2005, 2007 2nd Opponent PhD thesis, Univ. Oslo, Norway
2000 - 2002 Assistant Supervisor, two PhD thesis, Umeå University, Sweden
1999 - 2001 Course development, lectures, Master of engineering program in Space Technology and GIS engineering program, Luleå University of Technology's and Master's program in Space-engineering, Umeå University, Kiruna, Sweden
1997 - 2000 Course Assistant, lectures and administration of graduate student courses, Swedish Institute of Space Physics, Sweden.

Professional societies

LIDAR/UV-VIS working group of NDACC

Key qualifications

- Main area of research: Atmospheric aerosols, ozone and SO₂, polar research, ground-based remote sensing, satellite validation
- Instrumental techniques: PhD on stratospheric aerosol observations using LIDAR
GB remote sensing, e.g. sun-photometer (Cimel and PFR), LIDAR, CCD- and UV/IR cameras, UV/Vis spectroscopy, VHF radar
Satellite validation (ENVISAT, GOMOS HRTP, SYNAER, AEROSOL_CCI)
- Project involvement: Project leader of SAMIRA (SATellite based Monitoring Initiative for Regional Air quality, ESA project May 2016 - May 2019)
- Team member (work-package lead: UV/IR cameras) of COMTESSA (Camera Observation and Modelling of 4D Tracer Dispersion in the Atmosphere, EU H2020, ERC Advanced Grant, November 2015 – October 2020)
- Project manager of VAST (Volcanic Ash Strategic Initiative Team, ESA project June 2012 to November 2015)
- Member of validation team of AEROSOL-CCI (ESA project from 2010 – 2013 and 2014 – October 2017)
- Project lead Sat4AQN (Demonstrasjon for bruk av satellittdata for overvåking av luftkvalitet i Norge, Norwegian Space Center, January 2017 – December 2017)
- Project lead NEOS-ACCM (Norwegian Earth Observation Support for Atmospheric Composition and Climate Monitoring, Norwegian Space Center, January 2015 - December 2015)
- Project lead BRIDGE (BRIDGE to Copernicus (Norwegian Space Center, January 2014 - December 2014)
- Team member of RADO–Romanian Atmospheric research 3D Observatory (Norwegian Cooperation Programme for Economic Growth and Sustainable Development with Romania, 2009 - 2011)
- Instrument PI of EARLINET-ASOS (PI NILU, EU FP6 project March 2006 – February 2010)
- Project lead SatLuft (Use of satellite observations in the national and regional assessment of air quality, the atmospheric ozone layer, ultraviolet radiation, and greenhouse gases, ESA PRODEX, September 2007 – March 2010)
- Project lead ExVal (Extended Validation of ENVISAT Operational and Scientific Data (Ex Val, ESA PRODEX, January 2005 - April 2011)
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LIST OF PUBLICATIONS

Refereed publications

- Bingen C., C.E. Robert, K. Stebel, C. Brühl, J. Schallrock, F. Vanhellefont, N. Matshvili, M. Höpfner, T. Trickl, J.E. Barnes, J. Jumelet, J.-P. Vernier, T. Popp, G. de Leeuw, and S. Pinnock, Stratospheric aerosol data records for the Climate Change Initiative: development, validation and application to Chemistry-Climate Modelling, *Remote Sensing Environment – Special issue on Earth Observation of Essential Climate Variables*, revised May 2017.
- Gliss, J. K. Stebel, A. Kylling, A. S. Dinger, H. Sihler, and A. Sudbø, pyplis - A Python software tool box for the analysis of UV camera data to study SO₂ plumes, submitted to *Computers and Geosciences*, February 2017.
- Popp, T., de Leeuw, G., Bingen, C., Brühl, C., Capelle, V., Chedin, A., Clarisse, L., Dubovik, O., Grainger, R., Griesfeller, J., Heckel, A., Kinne, S., Klüser, L., Kosmale, M., Kolmonen, P., Lelli, L., Litvinov, P., Mei, L., North, P., Pinnock, S., Povey, A., Robert, C., Schulz, M., Sogacheva, L., Stebel, K., Stein Zweers, D., Thomas, G., Tilstra, L.G., Vandenbussche, S., Veeckind, P., Vountas, M., Xue, Y. Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). *Remote Sens.* 2016, 8, 421
- Hubert, D., Lambert, J.-C., Verhoelst, T., Granville, J., Keppens, A., Baray, J.-L., Bourassa, A. E., Cortesi, U., Degenstein, D. A., Froidevaux, L., Godin-Beekmann, S., Hoppel, K. W., Johnson, B. J., Kyrölä, E., Leblanc, T., Lichtenberg, G., Marchand, M., McElroy, C. T., Murtagh, D., Nakane, H., Portafaix, T., Querel, R., Russell III, J. M., Salvador, J., Smit, H. G. J., Stebel, K., Steinbrecht, W., Strawbridge, K. B., Stübi, R., Swart, D. P. J., Taha, G., Tarasick, D. W., Thompson, A. M., Urban, J., van Gijsel, J. A. E., Van Malderen, R., von der Gathen, P., Walker, K. A., Wolfram, E., and Zawodny, J. M.: Ground-based assessment of the bias and long-term stability of 14 limb and occultation ozone profile data records, *Atmos. Meas. Tech.*, 9, 2497-2534, doi:10.5194/amt-9-2497-2016, 2016.
- Chen YC, Hamre B, Frette Ø, Muyimbwa D, Blindheim S, Stebel K, Sobolewski P, Toledano C, Stamnes JJ., Aerosol optical properties in Northern Norway and Svalbard, *Appl Opt.* 2016 Feb 1,55(4):660-72. doi: 10.1364/AO.55.000660.
- van Gijsel, J. A. E., Zurita-Milla, R., Stammes, P., Godin-Beekmann, S., Leblanc, T., Marchand, M., McDerimid, I. S., Stebel, K., Steinbrecht, W., and Swart, D. P. J.: Using self-organising maps to explore ozone profile validation results – SCIAMACHY limb compared to ground-based lidar observations, *Atmos. Meas. Tech.*, 8, 1951-1963, doi:10.5194/amt-8-1951-2015, 2015.
- Kristiansen, N. I., Arnold, D., Maurer, C., Vira, J., Radulescu, R., Martin, D., Stohl, A., Stebel, K., Sofiev, M., O'Dowd, C., & Wotawa, G. (2016). Improving model simulations of volcanic emission clouds and assessing model uncertainties. In Riley, K., Webley, P., and Thompson, M., Natural hazard uncertainty assessment: Modeling and decision support. (Geophysical Monograph Series). (pp. 105-124). Hoboken, NJ: Wiley.
- Stebel, K., A. Amigo, H. Thomas, A.J. Prata, First estimates of fumarolic SO₂ emission rates from Putana volcano, Chile, using an ultraviolet imaging camera, *Journal of Volcanology and Geothermal Research*, 2015, doi:10.1016/j.jvolgeores.2014.12.021.
- Kern, K., Lübcke, P., Bobrowski, N., Campion, R., Mori, T., Smekens, J.-F., Stebel, K., Tamburello, G., Burton, M., Platt, U., Prata, F., Intercomparison of SO₂ camera systems for imaging volcanic gas plumes, *Journal of Volcanology and Geothermal Research*, 2014, doi:10.1016/j.jvolgeores.2014.08.026
- Tomasi, C., Kokhanovsky, A. A., Lupi, A., Ritter, C., Smirnov, A., O'Neill, N. T., Stone, R. S., Holben, B. N., Nyeki, S., Wehrli, C., Stohl, A., Mazzola, M., Lanconelli, C., Vitale, V., Stebel, K., Aaltonen, V., de Leeuw, G., Rodriguez, E., Herber, A. B., Radionov, V. F., Zielinski, T., Petelski, T., Sakerin, S. M., Kabanov, D. M., Xue, Y., Mei, L., Istomina, L., Wagener, R., McArthur, B., Sobolewski, P. S., Kivi, R., Courcoux, Y., Larouche, P., Broccardo, S., Piketh, S. J. (2015) Aerosol remote sensing in polar regions. *Earth Sci. Rev.*, 140, 108-157. doi:10.1016/j.earscirev.2014.11.001.
- Hubert D, J.-C. Lambert, T. Verhoelst, J. Granville, A. Keppens, U. Cortesi, D. A. Degenstein, L. Froidevaux, S. Godin-Beekmann, K. W. Hoppel, E. Kyrölä, T. Leblanc, G. Lichtenberg, I. S. McDerimid, C. T. McElroy, H. Nakane, J. M. Russell III, H. G. J. Smit, K. Stebel, W. Steinbrecht, R. Stübi, D. Swart, G. Taha, A. M. Thompson, J. Urban, A. van Gijsel, P. von der Gathen, K. A. Walker, and J. M. Zawodny, : Ground-based assessment of the bias and long-term stability of fourteen limb and occultation ozone profile data records, submitted to *Atmos. Meas. Tech.* 2015.

- Glantz, P., A. Bourassa, A. Herber, T. Iversen, J. Karlsson, A. Kirkevåg, M. Maturilli, Ø. Seland, K. Stebel, H. Struthers, M. Tesche, and L. Thomason, Remote sensing of aerosols in the Arctic for an evaluation of global climate model simulations, *Journal of Geophysical Research-Atmospheres*, 119, 2014, DOI: 10.1002/2013JD021279.
- Chen, Y.-C., Hamre, B., Frette, Ø., Blindheim, S., Stebel, K., Sobolewski, P., Toledano, C., and Stamnes, J. J.: Aerosol optical properties in Northern Norway and Svalbard, *Atmos. Meas. Tech. Discuss.*, 6, 10761-10795, doi:10.5194/amtd-6-10761-2013, 2013.
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- A. Richter, H. Oetjen, F. Wittrock, S. Bugarski, U. Frieß, K. Pfeilsticker, R. Sinreich, T. Wagner, G. Corlett, and R. Leigh, An intercomparison campaign of ground-based UV-Visible measurements of NO₂, BrO, and OCIO slant columns. Methods of analysis and results for NO₂, *J Geophys. Res.*, **110**, D08305, doi:10.1029/2005JD005423, 2005.
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