

## SCOUT-O3 Related Dissemination

## Refereed Literature

| Author(s)   | Title   | Journal                                 | Page/DOI                      | Date/Year | Partner(s)                          |
|---|---|---|-------------------------------|-----------|-------------------------------------|
| Abbatt, J.P.D., S. Benz, D.J. Cziczo, Z. Kanji, U. Lohmann, O. Möhler   | Solid ammonium sulfate aerosols as ice nuclei: A pathway for cirrus cloud formation   | Science                                 | 1770-1773                     | 2006      | FZK, ETHZ                           |
| Ammann, M., and Poschl, U.  | Kinetic model framework for aerosol and cloud surface chemistry and gas-particle interactions - Part 2: Exemplary practical applications and numerical simulations, Atmos. Chem. Phys., . | Atmos. Chem. Phys.                      | 7, 6025-6045                  | 2007      | PSI                                 |
| Andersen, S.B., A. Stevermer, E. C. Weatherhead, J. Austin, C. Brühl, E. L. Fleming, J. de Grandpre, V. Grewe, I. Isaksen, G. Pitari, R. W. Portmann, B. Rognerud, J. E. Rosenfield, S. Smyshlayev, T. Nagashima, G. J.M. Velders, D. K. Weisenstein, J. Xia  | Comparison of recent modeled and observed trends in total column ozone  | J. Geophys. Res.                        | doi: 10.1029/2005JD006091     | 2006      | DMI, MPG,DLR, ULAQ, UIO             |
| Arola, A., Lindfors, A., Natunen, A., and Lehtinen, K.  | A case study on biomass burning aerosols: effects on aerosol optical properties and surface radiation levels  | Atmos. Chem. Phys.                      | 7, 4257-4266                  | 2007      | FMI                                 |
| Arteta J., V. Marécal and E. D. Riviére   | Regional modelling of tracer transport by tropical convection. Part 1: Sensitivity to convection parameterization   | Atmos. Chem. Phys.                      | 9, 7081-7100                  | 2009      | CNRS(LPCE) and GSMA                 |
| Arteta J., V. Marécal and E. D. Riviére   | Regional modelling of tracer transport by tropical convection. Part 2: Sensitivity to model resolutions   | Atmos. Chem. Phys.                      | 2, 7101-7114                  | 2009      | CNRS(LPCE) and GSMA                 |
| Austin, J., R. J. Wilson, H. Akiyoshi, S. Bekki, N. Butchart, C. Claud, V. I. Fomichev, P. Forster, R. R. Garcia, N. P. Gillett, P. Keckhut, U. Langematz, E. Manzini, T. Nagashima, W. J. Randel, E. Rozanov, K. Shibata, K. P. Shine, H. Struthers, D. W. J. Thompson, F. Wu, and S. Yoden                                  | Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past  | Geophys. Res. Lett.                     | doi: 10.1029/2009GL038462     | 2009      | CNRS, UKMO, ULEEDS, FUB, MPG, ETH   |
| Baker, M.B., and Peter, T.  | Small-scale cloud processes and climate   | Nature                                  | 451, 299-300                  | 2008      | ETHZ                                |
| Baldwin, M.P., M. Dameris, T.G. Shepherd  | How will the stratosphere affect climate change?  | Science                                 | 1576-1577, Vol. 316           | 2007      | DLR                                 |
| Balis, D., R. Bojkov, K. Tourpali, C.S. Zerefos   | Characteristics of the ozone decline over both hemispheres  | International Journal of Remote Sensing | 3887-3895                     | 2009      | AUTH, NKUA                          |
| Baray, J.-L., J. Leveau, S. Baldy, J. Jouzel, P. Keckhut, G. Bergametti, G. Ancellet, H. Bencherif, B. Cadet, M. Carleer, C. David, M. De Mazière, D. Faduillhe, S. Godin Beekmann, P. Goloub, F. Goutail, J. Marc Metzger, B. Morel, J.-P. Pommereau, J. Porteneuve, T. Portafaix, F. Posny, L. Robert and M. Van Roozendael | An instrumented station for the survey of ozone and climate change in the southern tropics  | J. Environ. Monit.                      | 8, 1-9, doi: 10.1039/b607762e | 2006      | LACy-Univ. Reunion, CNRS, BIRA-IASB |

Refereed Literature

|   |   |   |   |      |                                   |
|---|---|---|---|------|-----------------------------------|
| Barret, B., P. Ricaud, E. Le Flochmoën, J.-L. Attié, J. Urban, D. Murtagh, J. de La Noë, E. Dupuy, L. Froidevaux, N. Livesey, M. Santee, J. Waters, M. Filipiak   | Intercomparisons of trace gases profiles from the SMR and the MLS space-borne sounders  | J. Geophys. Res.                        | 111, No. D21, D21302, 10.1029/2006JD007305          | 2006 | CNRS, UGOT                        |
| Baumgartner D.; Putz, E.;   | based on multi-site AERONET observations over Europe  | Meteorology and Atmospheric Physics     | 96/3-4; 277-291                                     | 2007 | IGAM                              |
| Benz, S., Megahed, K., Möhler, O., Saathoff, H., Wagner, R., Schurath, U.   | T-dependent rate measurements of homogeneous ice nucleation in cloud droplets using a large atmospheric simulation chamber                        | J. Photochem. Photobiol. A.             | 208-217   | 2006 | FZK                               |
| Berthet G., Esler J.G and Haynes P.H  | A lagrangian perspective of the tropopause and the ventilation of the lowermost stratosphere  | J. Geophys. Res.                        | doi:10.1029/2006JD008295                            | 2007 | UCAM                              |
| Bischoff, S.A. P.O. Canziani, A.E.Yuchechechen  | The tropopause at southern extratropical latitudes: Argentine operational rawinsonde climatology  | Int. J. Climat.                         | 27, 189–209 DOI: 10.1002/joc.1385                   | 2007 | CONICET-UCA                       |
| Blumenstock, T., F. Hase, I. Kramer, S. Mikuteit, H. Fischer, F. Goutail, U. Raffalski,   | Winter to winter variability of chlorine activation and ozone loss as observed by ground-based FTIR measurements at Kiruna since winter 1993/94,  | International Journal of Remote Sensing | 30, 4055-4064, 2009, DOI: 10.1080/01431160902821916 | 2009 | FZK,CNRS                          |
| Bodeker, G.E., H. Garny, D. Smale, M. Dameris and R. Deckert  | The 1985 southern hemisphere mid-latitude total column ozone anomaly  | Atmos. Chem. Phys.                      | 5625-5637   | 2007 | DLR, NIWA                         |
| Borchi, F. J.-P. Pommereau, A. Garnier and M. Pinharanda,   | Evaluation of SHADOZ sondes, HALOE and SAGE II ozone profiles at the tropics from SAOZ UV-Vis remote measurements onboard long duration balloons. | Atmos. Chem. Phys.                      | 5, 1381-1397  | 2005 | CNRS                              |
| Braesicke, P., C. Brühl, M. Dameris, R. Deckert, V. Eyring, M.A. Giorgetta, E. Mancini, E. Manzini, G. Pitari, J.A. Pyle and B. Steil   | A model intercomparison analysing the link between column ozone and geopotential height anomalies in January                                      | Atmos. Chem. Phys.                      | 8, 2519-2535  | 2008 | DLR, ULAQ, MPIC, MPIM, UCAM, ULAQ |
| Braesicke, P., M.M. Hurwitz and J.A. Pyle   | The stratospheric response to changes in ozone and carbon dioxide as modelled with a GCM including parameterised ozone chemistry                  | Meteorol. Zeitschrift                   | 343-354   | 2006 | UCAM                              |
| Bregman, B., E. Meijer en R. Scheele  | Key aspects of stratospheric tracer modeling using assimilated winds  | Atmos. Chem. Phys.                      | p 1-15  | 2006 | KNMI                              |
| Brohede, S. ; McLinden, C. A. ; Murtagh, D.P., Urban, J. et al.   | Odin stratospheric proxy NOy measurements and climatology   | Atmos. Chem. Phys.                      | 8 (19), 5731-5754                                   | 2008 | UGOT                              |
| Brühl, C., B. Steil, G. Stiller, B. Funke, and P. Jöckel  | Nitrogen compounds and ozone in the stratosphere: comparison of MIPAS satellite data with the chemistry climate model ECHAM5/MESy1.               | Atmos. Chem. Phys.                      | 5585-5598   | 2007 | MPG, FZK                          |
| Brunner, D.*; Siegmund, P.*; May, P. T.*; Chappel, L.*; Schiller, C.; Müller, R.; Peter, T.*; Fueglistaler, S.*; MacKenzie, A. R.*; Fix, A.*; Schlager, H.*; Allen, G.*; Fjaeraa, A.M.*; Streibel, M.*; Harris, N. R. P.* | Overview and meteorological context of the SCOUT-O3 aircraft measurement campaign in Darwin, Australia, Nov-Dec 2005                              | Atmos. Chem. Phys.                      | 9, 93 - 117, www.atmos-chem-phys.net/9/93/2009/     | 2009 | ETHZ, FZJ + many more             |
| Brunner, D. et al.  | An evaluation of the performance of chemistry transport models. Part 2: Detailed comparison with two selected campaigns                           | Atmos. Chem. Phys.                      | 5, 107-129  | 2005 | ETHZ                              |
| Butkovskaya,N.I., A. Kukui, N. Pouvesle, G. Le Bras   | Formation of nitric acid in the gas.phase HO2 + NO reaction: Effects of temperature and water vapor   | J. Phys. Chem. A                        | 109, 6509-6520                                      | 2005 | CNRS-ICARE, ULEEDS, CNRM          |
| Butkovskaya, N., N. Pouvesle, A. Kukui, G. Le Bras  | Mechanism of the OH-initiated oxidation of glycolaldehyde over the temperature range 233-296 K  | J. Phys. Chem. A                        | 13492-13499   | 2006 | CNRS-ICARE Orléans                |
| Butkovskaya, N. Pouvesle, A. Kukui, Y. Mu, G. Le Bras   | Mechanism of the OH-initiated oxidation of hydroxyacetone over the temperature range 236-298 K  | J. Phys. Chem. A                        | 110, 6833-6843                                      | 2006 | CNRS-ICARE, ULEEDS,               |

Refereed Literature

|  |   |                        |  |      |                               |
|--|---|------------------------|--|------|-------------------------------|
| Butkovskaya,N., A. Kukui, G. Le Bras   | Study of the HNO <sub>3</sub> forming channel of the HO <sub>2</sub> + NO reaction as a function of pressure and temperature in the ranges 72-600 Torr                        | J. Phys. Chem. A       | 111, 9047-9053                             | 2007 | CNRS-ICARE, ULEEDS,           |
| Butkovskaya, N., M.T. Rayez, J.C. Rayez, A. Kukui and G. Le Bras   | Water vapour effect on the HNO <sub>3</sub> yield in the HO <sub>2</sub> + NO reaction: experimental and theoretical evidence   | J. Phys. Chem. A       | Doi:10.1021/jp811428p                      | 2009 | CNRS-ICARE, ULEEDS,           |
| Butz, A., H. Bösch, C. Camy-Peyret, M. Chipperfield, M. Dorf, G. Dufour, K. Grunow, P. Jeseck, S. Kühl, S. Payan, I. Pepin, J. Pukite, A. Rozanov, C. von Savigny, C. Sioris, F. Weidner, K. Pfeilsticker,         | Inter-comparison of stratospheric O <sub>3</sub> and NO <sub>2</sub> abundances retrieved from balloon borne direct sun observations and Envisat/SCIAMACHY limb measurements, | Atmos. Chem. Phys.     | 6, 1293 -1314                              | 2006 | IUP-HD, IUP-UB                |
| Butz, A., H. Bösch, C. Camy-Peyret, M. Dorf, A. Engel, S. Payan, and K. Pfeilsticker,  | Local odd oxygen loss inferred from balloon-borne observations in the Arctic winter 1998/1999   | Geophys. Res. Lett.    | 34, L05801, doi:10.1029/2006GL028718       | 2007 | IUP-HD                        |
| Butz, A. H. Bösch, C. Camy-Peyret., M. P. Chipperfield, M. Dorf, S. Kreyca, L. Kritten, C. Prados-Roman, J. Schwärzle,   | Constraints on inorganic gaseous iodine in the tropical upper troposphere and stratosphere inferred from balloon-borne solar occultation observations                         | 9, 14645–14681         | Atmos. Chem. Phys. Discuss.                | 2009 | IUP-HD                        |
| Cagnazzo, C., and E. Manzini   | Impact of the startosphere on the winter tropospheric teleconnections between ENSO and the North Atlantic and European Region   | J. Climate             | 1223-1238                                  | 2009 | INGV                          |
| Cagnazzo, C., E. Manzini, M. A. Giorgetta, P. M. De F. Forster, and J. J.  | Impact of an improved shortwave radiation scheme in the MAECHAM5 General Circulation Model  | Atmos. Chem. Phys.     | 7, 2503-2515                               | 2007 | INGV and MPIM                 |
| Cagnazzo,C., Claud,C. And Hare S.  | Aspects of stratospheric long-term changes induced by ozone depletion   | Clim. Dyn.             | DOI 10.1007/s00382-006-0120-1              | 2006 | CONICET-UCA                   |
| Cariolle, D., M.J. Evans, M.P. Chipperfield, N. Butkovskaya, A. Kukui, G. Le Bras  | Impact of the new HNO <sub>2</sub> -forming channel of the HO <sub>2</sub> + NO reaction on tropospheric HNO <sub>3</sub> , NO <sub>x</sub> , HO <sub>x</sub> and ozone       | Atmos. Chem. Phys.     | 8, 4061-4068                               | 2008 | CNRS-ICARE, ULEEDS, CNRM      |
| Cairo, F., C. Buontempo, A. R. MacKenzie, C. Schiller, M. Volk, A. Adriani, V. Mitev, R. Matthey, G. Di Donfrancesco, A. Oulanovsky, F. Ravegnani, S. Rudakov, V. Yushkov, M. Snels, C. Cagnazzo and L. Stefanutti | Morphology of the tropopause layer and lower stratosphere above a tropical cyclone: A case study on cyclone Davina (1999)   | Atmos. Chem. Phys.     | 8, 3411-3426, 2008.                        | 2008 | CNR, ULANC, FZJ, ON, CAO, UoF |
| Canziani, P.O., Malanca, F.M, Agosta, E.A  | Ozone and UT/LS variability and change at southern midlatitudes 1980-2000: Decadal variations   | J. Geophys. Res.       | 113(D20) D20101                            | 2008 | UCA                           |
| Cassanelli, P., D. Johnson, and R. A. Cox,   | A Temperature-Dependent Relative-Rate Study of the OH initiated Oxidation of n-Butane: The Kinetics of the Reactions of the 1- and 2-Butoxy Radicals                          | Phys. Chem. Chem. Phys | 7, 3702 – 3710                             | 2005 | UCAM                          |
| Castanheira, JM; Liberato, MLR; de la Torre, L, H-F Graf   | Baroclinic Rossby Wave Forcing and Barotropic Rossby Wave Response to Stratospheric Vortex Variability  | J. Atmos. Sci.         | 66, 4, 902-914                             | 2009 | UCAM                          |
| Castanheira, JM; Liberato, MLR; de la Torre, L., H.-F. Graf. and A. Rocha  | Annular versus nonannular variability of the northern hemisphere atmospheric circulation  | J. Climate             | 21, 13, 3180-3190                          | 2008 | UCAM                          |
| Castanheira, J.M., M L.R. Liberato, C.A.F. Marques, and H.-F. Graf   | Bridging the Annular Mode and North Atlantic Oscillation paradigms  | J. Geophys. Res.       | VOL. 112, D19103, doi:10.1029/2007JD008477 | 2007 | UCAM                          |
| C. Chemel, M. R. Russo, J. A. Pyle, R. J. Sokhi, C. Schiller   | Quantifying the imprint of a severe Hector thunderstorm during ACTIVE/SCOUT-O3 onto the water content in the upper troposphere/lower stratosphere                             | Monthly Weath. Rev.,   | 2493-2514, doi:101175/2008MWR2666.1        | 2009 | UCAM, FZJ                     |
| Chipperfield, M.P., W. Feng, M. Rex  | Arctic ozone loss and climate sensitivity: Updated three-dimensional model study  | Geophys. Res. Lett.    | 10.1029/2005GL022674                       | 2005 | ULEEDS, AWI                   |
| Clark H.L., M.-L. Cathala, H. Teyssedre, J. -P Cammas, V.-H Peuch  | Cross-tropopause fluxes of ozone using assimilation of MOZAIC observations in a global CTM  | Tellus                 | 10.1111/j.1600-0889.2006.00243.x           | 2007 | CNRM                          |

Refereed Literature

|  |   |   |                          |      |                              |
|--|---|---|--------------------------|------|------------------------------|
| Cleary, P.W., M T Baeza Romero, M.A. Blitz, D. E. Heard, M. J. Pilling, P.W. Seakins, L. Wang  | Determination of the temperature and pressure dependence of the reaction OH + C2H4 from 200-400 K using experimental and master equation analyses | Phys. Chem. Chem. Phys.   | 8, 5633-5642             | 2006 | ULEEDS                       |
| Clerbaux, C., M. George, S. Turquety, K. A. Walker, B. Barret, P. Bernath, C. Boone, T. Borsdorff, J. P. Cammas, V. Catoire, M. Coffey, P.-F. Coheur, M. Deeter, M. De Mazière, J. Drummond, P. Duchatelet, E. Dupuy, R. de Zafra, F. Eddounia, D. P. Edwards, L. Emmons, B. Funke, J. Gille, D. W. T Griffith, J. Hannigan, F. Hase, M. Höpfner, N. Jones, A. Kagawa, Y. Kasai, I. Kramer, E. Le Flochmoën, N. J. Livesey, M. López-Puertas, M. Luo, E. Mahieu, D. Murtagh, Ph. Nédélec, A. Pazmino, H. Pumphrey, P. Ricaud, C. P. Rinsland, C. Robert, M. Schneider, C. Senten, G. Stiller, A. Strandberg, K. Strong, R. Sussmann, V. Thouret, J. Urban, and A. Wiacek | CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations      | Atmos. Chem. Phys., Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)' | 8, 2569-2594             | 2008 | CNRS, BIRA-IASB, et al.      |
| Cordero R.R., Seckmeyer G., Pissulla D., Labbe F.  | Exploitation of Spectral Direct UV Irradiance Measurements  | Metrologia  | 46, 19-25                | 2009 | UHAN                         |
| Cordero R.R. , Seckmeyer G., Pissulla D., DaSilva L, Labbe F.  | Uncertainty evaluation of spectral UV irradiance measurements   | Meas. Sci. & Techn.   | 19, 045104, 1-15         | 2008 | UHAN                         |
| Cordero R.R. Seckmeyer G. Labbe F.   | Cosine error influence on ground-based spectral UV irradiance measurements  | Metrologia  | 45, 406-414              | 2008 | UHAN                         |
| Cordero R.R., Seckmeyer G., Pissulla D., Labbe F.  | Uncertainty of experimental integrals: application to the UV index calculation  | Metrologia  | 45, 1-10                 | 2008 | UHAN                         |
| Cordero R.R. , Seckmeyer G., Pissulla D., DaSilva L.   | Uncertainty evaluation of the spectral UV irradiance evaluated by using the UVSPEC Radiative Transfer Model                                       | Optic Communications  | on-line 1-10             | 2007 | UHAN                         |
| Cordero R.R., Seckmeyer G., Labbe F.   | Effect of the resolution on the uncertainty evaluation  | Metrologia  | 43, L33-L38              | 2006 | UHAN                         |
| Corti, T., B. P. Luo, M. de Reus, D. Brunner, F. Cairo, M. J. Mahoney, G. Martucci, R. Matthey, V. Mitev, F. H. dos Santos, C. Schiller, G. Shur, N. M. Sitnikov, N. Spelten, H. J. Vössing, S. Borrmann and T. Peter.   | Unprecedented evidence for overshooting convection hydrating the tropical stratosphere.   | Geophys. Res. Lett.   | doi:10.1029/2008GL033641 | 2008 | ETHZ, FZJ, CAO, CNR, MPI, ON |
| Corti, T; B.P. Luo, Q. Fu, H. Vomel, T. Peter  | The impact of cirrus clouds on tropical troposphere-to-stratosphere transport,  | Atmos. Chem. Phys.  | 6: 2539-2547             | 2006 | ETHZ                         |
| Cox, R.A.  | Perspectives in Atmospheric chemistry – Summary Remarks for Faraday Discussions No 130  | Roy. Soc. Chem. Faraday Disc.   | No. 130, 519-523         | 2005 | UCAM                         |
| Cox, R.A., M.A.Fernandez, A.Symington, M.Ullerstam, and J.P.D.Abbatt   | A Kinetic Model for Uptake of HNO3 and HCl On Ice In A Coated Wall Flow System  | Phys. Chem. Chem. Phys.   | 7, 3434-3442             | 2005 | UCAM                         |

Refereed Literature

|   |   |   |                                       |      |                       |
|---|---|---|---------------------------------------|------|-----------------------|
| Cui, X.F., H-F. Graf, B. Langmann, W. Chen, and R-H. Huang  | Climate impacts of anthropogenic land use changes on the Tibetan Plateau.   | Glob. Planet. Change  | 54 33-56                              | 2006 | UCAM                  |
| Cui, Xuefeng, Baerbel Langmann and Hans-F. Graf,  | Summer Monsoonal Rainfall Simulation on the Tibetan Plateau with a Regional Climate Model Using a One-way Double-nesting System.                                | SOLA  | 3, 049-052, doi:10.2151/sola.2007-013 | 2007 | UCAM                  |
| Curtius, J., R. Weigel, H.-J. Voessing, H. Wernli, A. Werner, C.-M. Volk, P. Konopka, M. Krebsbach, C. Schiller, A. Roiger, H. Schlager, V. Dreiling and S. Borrmann  | Observations of meteoritic material and implications for aerosol nucleation in the winter Arctic lower stratosphere derived from in situ particle measurements. | Atmos. Chem. Phys.  | 5, 3053-3069                          | 2005 | IPA-UMZ,JWGU,FZ J,DLR |
| Da Silva, L., L. Morales, L. Gutierrez, A. Torres,  | Presence of stratospheric humidity in the ozone column depletion on the west coast of South America   | Il Nuovo Cimento C  | 391-398                               | 2006 | CONICET-UCA           |
| Daerden, F., N. Larsen, S. Chabrillat, Q. Errera, S. Bonjean, D. Fonteyn, K. Hoppel, and M. Fromm   | A 3D-CTM with detailed online PSC-microphysics: analysis of the Antarctic winter 2003 by comparison with satellite observations                                 | Atmos. Chem. Phys.  | 1755-1772                             | 2007 | DMI,                  |
| Dameris, M. and R. Deckert  | Simulation of long-term evolution of stratospheric dynamics and chemistry – Role of natural and anthropogenic forcings  | Climate Variability and Extremes During the Past 100 Years, Advances in Global Change Research, Springer, S. Brönnimann et al. (Eds.) | 283-291                               | 2008 | DLR                   |
| Dameris, M., Peter, T., Schmidt, U. and Zellner, R.   | The ozone hole and its causes   | Chemie In Unserer Zeit  | 41, (3), 152-168                      | 2007 | ETHZ                  |
| Dameris, M., S. Matthes, R. Deckert, V. Grewe, and M. Ponater   | Solar cycle effect delays onset of ozone recovery   | Geophys. Res. Lett.   | L03806, doi:10.1029/2005GL024741      | 2006 | DLR                   |
| Dameris, M., V. Grewe, M. Ponater, R. Deckert, V. Eyring, F. Mager, S. Matthes, C. Schnadt, A. Stenke, B. Steil, C. Brühl, and M.A. Giorgetta   | Long-term changes and variability in a transient simulation with a chemistry-climate model employing realistic forcing  | Atmos. Chem. Phys.  | 5, 2121-2145                          | 2005 | DLR, MPIM, MPIC       |
| Davies, S; Mann, GW; Carslaw, KS; Chipperfield, MP; Remedios, JJ; Allen, G; Waterfall, AM; Spang, R; Toon, GC   | Testing our understanding of Arctic denitrification using MIPAS-E satellite measurements in winter 2002/2003  | Atmos. Chem. Phys.  | 6, pp3149-3161                        | 2006 | ULEIC                 |
| Davies, S., G.W. Mann, K.S. Carslaw, M.P. Chipperfield, J.A. Kettleborough, M.L. Santee, H. Oelhaf, G. Wetzela, Y. Sasano, T. Sugita  | 3-D microphysical model studies of Arctic denitrification: comparison with observations   | Atmos. Chem. Phys.  | 5, 3093-3109                          | 2005 | ULEEDS, FZK           |
| Deckert, R. and M. Dameris  | Higher tropical SSTs strengthen the tropical upwelling via deep convection  | Geophys. Res. Lett.   | 10.1029/2008GL033719                  | 2008 | DLR                   |
| De Mazière, M., C. Vigouroux, P. Bernath, T. Blumenstock, C. Boone, V. Catoire, M. Coffey, P. Duchatelet, J. Hannigan, L. Harvey, N. Jones, E. Mahieu, G. Manney, C. Piccolo, C. Randall, C. Senten, K. Strong, J. Taylor, K. Walker, S. Wood | Validation of ACE v2.2 methane profiles from the upper troposphere to lower mesosphere  | Atm. Chem. Phys. Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)'                                    | 8, 2421-2435                          | 2008 | BIRA-IASB, et al.     |

Refereed Literature

|   |  |                          |                           |      |                                      |
|---|--|--------------------------|---------------------------|------|--------------------------------------|
| Dentener, F., D. Stevenson, K. Ellingsen, T. Van Noije, M. Schultz, M. Amann, C. Atherton, N. Bell, D. Bergmann, I. Bey, L. Bouwman, T. Butler, J. Cofala, W. Collins, R. Doherty, J. Drevet, B. Eickhout, E. H., A. Fiore, M. Gauss, D. Hauglustaine, L. Horowitz, I. Isaksen, B. Josse, M. Krol, J.F. Lamarque, M. Lawrence, V. Montanaro, J.F. Müller, V.H. Peuch, G. Pitari, J. Pyle, S. Rast, J. Rodriguez, M. Sanderson, N. Savage, D. Shindell, S. Strahan, S. Szopa, K. Sudo, R. Van Dingenen, O. Wild, and G. Zeng | Global Atmospheric Environment for the next generation   | Environ. Sci. Technol.   | doi: 10.1021/es0523845    | 2006 | various inc. UKMO, UCAM, ULAQ, CNRS  |
| Dentener, F., J. Drevet, J.F. Lamarque, I. Bey, B. Eickhout, A.M. Fiore, D. Hauglustaine, L.W. Horowitz, M. Krol, U.C. Kulshrestha, M. Lawrence, C. Galy-Lacaux, S. Rast, D. Shindell, D. Stevenson, T. Van Noije, C. Atherton, N. Bell, D. Bergman, T. Butler, J. Cofala, B. Collins, R. Doherty, K. Ellingsen, J. Galloway, M. Gauss, V. Montanaro, J.F. Müller, G. Pitari, J. Rodriguez, M. Sanderson, F. Solmon, S. Strahan, M. Schultz, K. Sudo, S. Szopa, O. Wild   | Nitrogen and sulfur deposition on regional and global scales: a multi-model evaluation   | Glob. Biogeochem. Cycles | doi: 10.1029/2005GB002672 | 2006 | various inc. UiO, ULAQ               |
| Dessens O., G. Zeng, N. Warwick and J.A. Pyle   | Short-lived bromine compounds in the lower stratosphere; impact of climate change on ozone.  | Atmos. Sci. Lett.        | 10.1002/asl.236           | 2009 | UCAM-DCHEM                           |
| Dhomse, S., M. Weber, and J. Burrows  | The relationship between tropospheric wave forcing and tropical stratospheric water vapor.   | Atmos. Chem. Phys.       | 8, 471-480                | 2008 | IUP-UB                               |
| Dhomse, S., M. Weber, I. Wohltmann, M. Rex, J. Burrows  | On the possible causes of recent increases in northern hemispheric total ozone from a statistical analysis of satellite data from 1979 to 2003 | Atmos. Chem. Phys.       | 1165-1181                 | 2006 | AWI                                  |
| Di Carlo et al.   | Evolution of surface ozone in central Italy...   | J. Geophys. Res.         | doi:10.1029/2006JD007900  | 2007 | ULAQ                                 |
| Di Donfrancesco G., F. Cairo, C. Buontempo, A. Adriani, M. Viterbini, M. Snels, R. Morbidini, F. Piccolo, F. Cardillo, J.P. Pommereau, A. Garnier,  | Balloonborne lidar for cloud physics studies,  | Appl. Opt.               | 45, 5701-5708             | 2006 | CNR, CNRS                            |
| Dorf, M., A. Butz, C. Camy-Peyret, M. P. Chipperfield, L. Kritten, and K. Pfeilsticker  | Bromine in the tropical troposphere and stratosphere as derived from balloon-borne BrO observations  | Atmos. Chem. Phys.       | 8, 7265-7271              | 2008 | IUP-HD, CNRS, ULEEDS                 |
| Dorf, M., H. Bösch, A. Butz, C. Camy-Peyret, M. P. Chipperfield, A. Engel, F. Goutail, K. Grunow, F. Hendrick, S. Hrechanyy, B. Naujokat, J.-P. Pommereau, M. Van Roozendaal, C. Sioris, F. Stroh, F. Weidner, and K. Pfeilsticker,   | Balloon-borne stratospheric BrO measurements: Comparison with Envisat/SCIAMACHY BrO limb profiles,   | Atmos. Chem. Phys.       | 6, 2483-2501              | 2006 | IUP-HD, CNRS, ULEEDS, FUB, IASB, FZJ |

Refereed Literature

|   |   |  |                                      |      |                               |
|---|---|--|--------------------------------------|------|-------------------------------|
| Dorf, M., J. H. Butler, A. Butz, C. Camy-Peyret, M. P. Chipperfield, L. Kritzen, S. A. Montzka, B. Simmes, F. Weidner, and K. Pfeilsticker,   | Long-term observations of stratospheric bromine reveal slow down in growth  | Geophys. Res. Lett.  | 33, L24803, doi:10.1029/2006GL027714 | 2006 | IUP-HD                        |
| Dufour, G., S. Payan, F. Lefèvre, G. Berthet, M. Eremenko, A. Butz, P. Jeseck, Y. Té, K. Pfeilsticker and C. Camy-Peyret  | 4D comparison method to study the NO <sub>y</sub> partitioning in summer polar stratosphere: Influence of aerosol burden,           | Atmos. Chem. Phys.   | 5, 919–926, 2005.                    | 2005 | CNRS, IUP-HD                  |
| Dupuy, E., K. A. Walker, J. Kar, C. D. Boone, C. T. McElroy, P. F. Bernath, J. R. Drummond, R. Skelton, S. D. McLeod, R. C. Hughes, C. R. Nowlan, D. G. Dufour, J. Zou, F. Nichitiu, K. Strong, P. Baron, R. M. Bevilacqua, T. Blumenstock, G. E. Bodeker, T. Borsdorff, A. E. Bourassa, H. Bovensmann, I. S. Boyd, A. Bracher, C. Brogniez, J. P. Burrows, V. Catoire, S. Ceccherini, S. Chabrillat, T. Christensen, M. T. Coffey, U. Cortesi, J. Davies, C. De Clercq, D. A. Degenstein, M. De Mazière, P. Demoulin, J. Dodion, B. Firanski, H. Fischer, G. Forbes, L. Froidevaux, D. Fussen, P. Gerard, S. Godin-Beekman, F. Goutail, J. Granville, D. Griffith, C. S. Haley, J. W. Hannigan, M. Höpfner, J. J. Jin, A. Jones, N. B. Jones, K. Jucks, A. Kagawa, Y. Kasai, T. E. Kerzenmacher, A. Kleinböhl, A. R. Klekociuk, I. Kramer, H. Küllmann, J. Kuttippurath, E. Kyrölä, J.-C. Lambert, N. J. Livesey, E. J. Llewellyn, N. D. Lloyd, E. Mahieu, G. L. Manney, B. T. Marshall, J. C. McConnell, M. P. McCormick, I. S. McDermid, M. McHugh, C. A. McLinden, J. Mellqvist, K. Mizutani, Y. Murayama, D. P. Murtagh, | Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE),   | Atmos. Chem. Phys. Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)' | 9, 287-343, 2009                     | 2009 | BIRA-IASB, CNRS, FZK          |
| Ekström, M., Eriksson, P., Read, W. G., Milz, M., and Murtagh, D. P.  | Comparison of satellite limb-sounding humidity climatologies of the uppermost tropical troposphere                                  | Atmos. Chem. Phys.   | 8, 309-320                           | 2008 | UGOT                          |
| Engel, A., H. Boenisch, D. Brunner, H. Fischer, H. Franke, G. Guenther, C. Gurk, M. Hegglin, P. Hoor, R. Koenigstedt, M. Krebsbach, R. Maser, U. Parchatka, T. Peter, D. Schell, C. Schiller, U. Schmidt, N. Spelten, T. Szabo, U. Weers, H. Wernli, T. Wetter and V. Wirth   | Highly resolved observations of trace gases in the lowermost stratosphere and upper troposphere from the Spurt project: an overview | Atmos. Chem. Phys.   | 6, 283-301                           | 2006 | JWGO, ETHZ, FZJ, MPG, IPA-UMZ |

Refereed Literature

|  |   |                     |                                       |      |   |
|--|---|---------------------|---------------------------------------|------|---|
| Erick C., Gies H.P., Krotkov N., Lantz K., Mayer B., McKenzie R.L., Piacentini R.D., Seckmeyer G., Slusser J.R., Zerefos C.S., J.Groebner, M.Blumthaler, S.Kazadzis, A.Bais, A.Webb, J.Schreder, G.Seckmeyer, D.Rembges  | Quality Assurance of spectral solar UV measurements: Results from 26 UV monitoring sites in Europe, 2002 to 2004              | Metrologia          | 43                                    | 2006 | UNAN, ETHZ, MPG, IPA-UMZ                        |
| Ern, M., and P. Preusse  | The contribution of equatorial Kelvin waves to the QBO wind reversal in the stratosphere                                      | Geophys. Res. Lett. | doi:10.1029/2009GL040493              | 2009 | FZJ   |
| Ern, M.; Preusse, P.   | Wave fluxes of equatorial Kelvin waves and QBO zonal wind forcing derived from SABER and ECMWF temperature space-time spectra | Atmos. Chem. Phys.  | 3957 - 3986                           | 2009 | FZJ   |
| Ern, M., P. Preusse, M. Krebsbach, M. G. Mlynczak, and J. M. Russell III   | Equatorial wave analysis from SABER and ECMWF temperatures  | Atmos. Chem. Phys.  | 845-869                               | 2008 | FZJ   |
| Eyring, V., D.W. Waugh, G.E. Bodeker, E. Cordero, H. Akiyoshi, J. Austin, S.R. Beagley, B. Boville, P. Braesicke, C. Brühl, N. Butchart, M.P. Chipperfield, M. Dameris, R. Deckert, M. Deushi, S.M. Frith, R.R. Garcia, A. Gettelman, M. Giorgetta, D.E. Kinnison, E. Mancini, E. Manzini, D.R. Marsh, S. Matthes, T. Nagashima, P.A. Newman, J.E. Nielsen, S. Pawson, D.A. Plummer, G. Pitari, E. Rozanov, M. Schraner, J.F. Scinocca, K. Semeniuk, T.G. Shepherd, K. Shibata, B. Steil, R. Stolarski, W. Tian and M. Yoshiki | Multi-model projections of stratospheric ozone in the 21st century  | J. Geophys. Res.    | 112, D16303 DOI:10.1029/2006JD008332  | 2007 | DLR, INGV, MPIC, MPIM, UCAM, UKMO, ULAQ, PMOD   |
| Eyring, V., N. Butchart, D. W. Waugh, H. Akiyoshi, J. Austin, S. Bekki, G.E. Bodeker, B. A. Boville, C. Bruhl, M.P. Chipperfield, E. Cordero, M. Dameris, M. Deushi, V.E. Fioletov, S.M. Frith, R.R. Garcia, A. Gettelman, M.A. Giorgetta, V. Grewe, L. Jourdain, D.E. Kinnison, E. Mancini, E. Manzini, M. Marchand, D.R. Marsh, T. Nagashima, P.A. Newman, J.E. Nielsen, S. Pawson, G. Pitari, D.A. Plummer, E. Rozanov, M. Schraner, T.G. Shepherd, K. Shibata, R. S. Stolarski, H. Struthers, W. Tian, and M. Yoshiki      | Assessment of temperature, trace species, and ozone in chemistry climate model simulations of the recent past                 | J. Geophys. Res.    | 111, D22308, doi:10.1029/2006JD007327 | 2006 | DLR, INGV, IPSL, MPIC, MPIM, ULAQ, ULEEDS, UKMO |

Refereed Literature

|   |  |                             |                                      |      |                                       |
|---|--|-----------------------------|--------------------------------------|------|---------------------------------------|
| Eyring, V., N.R.P. Harris, M. Rex, T.G. Shepherd, D.W. Fahey, G.T. Amanatidis, J. Austin, M.P. Chipperfield, M. Dameris, P.M. De F. Forster, A. Gettleman, H.F.. Graf, T. Nagashima, P.A. Newman, S. Pawson, M.J. Prather, J.A. Pyle, R.J. Salawitch, B. Santer, D.W. Waugh | A Strategy for Process-Oriented Validation of Coupled Chemistry-Climate Models   | Bull. Am. Met. Soc.         | 1117–1133                            | 2005 | DLR, MPIM, MPIC, ULEEDS, UCAM         |
| Farkas, E., G. Kovács, I. Szilágyi, S. Dóbbé, T. Bérces, F. Márta   | Rate Constant for the Reaction of CH <sub>3</sub> C(O)CH <sub>2</sub> Radical with HBr and Its Thermochemical Implication  | Int. J. Chem. Kinetics      | 38, 32–37                            | 2006 | CRIC-HAS                              |
| Feister, U., J. Junk, M. Woldt, A. Bais, A. Helbig, M. Janouch, W. Josefsson, A. Kazantzidis, A. Lindfors, P.N. den Outer, and H. Slaper  | Long-term solar UV radiation reconstructed by ANN modelling with emphasis on spatial characteristics of input data   | Atmos. Chem. Phys.          | 8, 3107 - 3118                       | 2008 | AUTH, RIVM, FMI, CHMI, SHMI           |
| Feng W., M.P. Chipperfield, S. Davies, P. von der Gathen, E. Kyro, C. M. Volk, A. Ulanovsky, G. Belyaev   | Large Chemical Ozone Loss in 2004/05 Arctic Winter/Spring  | Geophys. Res. Lett.         | doi:10.1029/2006GL029098             | 2007 | ULEEDS, AWI, FMI, JWGU                |
| Feng, W., M.P. Chipperfield, M. Dorf and K. Pfeilsticker  | Mid-latitude Ozone Changes: Studies with a 3-D CTM Forced by ERA-40 Analyses.  | Atmos. Chem. Phys.          | 7, 2357–2360                         | 2007 | ULEEDS, IUP-HD                        |
| Feng, W., M.P. Chipperfield, S. Davies, B. Sen, G. Toon, J.F. Blavier, C.R. Webster, C.M. Volk, A. Ulanovsky, F. Ravegnani, P. von der Gathen, H. Jost, E.C. Richard, and H. Claude   | Three-dimensional model study of the Arctic ozone loss in 2002/2003 and comparison with 1999/2000 and 2003/4   | Atmos. Chem. Phys.          | 5, 139-152                           | 2005 | ULEEDS, IUP-HD, JWGU, CNR, AWI        |
| Fernandez, M.A., R.G.Hynes and R.A.Cox  | Kinetics of ClONO <sub>2</sub> reactive uptake on Ice Surfaces at Temperatures of the Upper Troposphere  | J. Phys. Chem. A            | 109, 9986-9996                       | 2005 | UCAM                                  |
| Field, P. R., Möhler, O., Connolly, P., Krämer, M., Cotton, R., Heymsfield, A. J., Saathoff, H., Schnaiter, M.  | Some ice nucleation characteristics of Asian and Saharan desert dust   | Atmos. Chem. Phys.          | 2991-3006                            | 2006 | FZK                                   |
| Fierli F., G. Di Francesco, F. Cairo, V. Marécal, M. Zampieri, E. Orlandi and G. Durry  | Variability of cirrus clouds in a convective outflow during the HIBISCUS campaign  | Atmos. Chem. Phys.          | 4547-4558                            | 2008 | CNR(ISAC and ENEA), CNRS(L PCE), GSMA |
| Flury, T., S. C. Müller, K. Hocke, N. Kämpfer   | Water vapor transport in the lower mesosphere of the subtropics: a trajectory analysis   | Atmos. Chem. Phys.          | 8, 23, 7273-7280                     | 2008 | UBERN                                 |
| Flury, T., K. Hocke, S.C. Müller, N. Kämpfer  | First measurements of lower mesospheric wind by airborne microwave radiometry  | Geophys. Res. Lett.         | 10.1029/2008GL034663                 | 2008 | UBERN                                 |
| Folkens, I., P. Bernath, C. Boone, A. Eldering, G. Lesins, R. M. Martin, B.-M. Sinnhuber, and K. Walker   | Testing convective parameterizations with tropical measurements of HNO <sub>3</sub> , CO, H <sub>2</sub> O, and O <sub>3</sub> : implications for the water vapor budget                               | J. Geophys. Res.            | D23304, doi:10.1029/2006JF007325     | 2006 | IUP-UB                                |
| Fortuin, J. P. F., Becker, C. R., Fujiwara, M., Immler, F., Scheele, P., Schrems, O., Verver, G. H. L.  | Origin and transport of tropical cirrus clouds observed over Paramaribo station, Suriname (6°N 55°W),  | J. Geophys. Res.            | 112(D9) D09107                       | 2007 | KNMI                                  |
| Franz, P. and T. Röckmann   | A new continuous flow isotope ratio mass spectrometry system for the analysis of d <sup>2</sup> H, d <sup>17</sup> O and d <sup>18</sup> O of small (120 µg) water samples in atmospheric applications | Rap. Commun. Mass Spectrom. | 1429-1435                            | 2004 | MPIK                                  |
| Frieler, K., M. Rex, R. Salawitch, T. Canty, M. Streibel, R. Stimpfle, K. Pfeilsticker, M. Dorf, D. Weisenstein, S. Godin-Beekman   | Towards a better quantitative understanding of polar stratospheric ozone loss  | Geophys. Res. Lett.         | 33, L10812, doi:10.1029/2005GL025466 | 2006 |                                       |

Refereed Literature

|   |   |                     |  |      |  |
|---|---|---------------------|--|------|--|
| Fueglistaler, S., M. Bonazzola, P. Haynes, T. Peter   | Stratospheric water vapor predicted from the Lagrangian temperature history of air entering the stratosphere in the tropics   | J. Geophys. Res.    | 110, D10, D10S16, doi:10.1029/2004JD005516 | 2005 | ETHZ/UCAM                                  |
| Fueglistaler, S., P.H. Haynes   | Control of interannual and longer-term variability of stratospheric water vapor   | J. Geophys. Res.    | doi:10.1029/2005JD006019.                  | 2005 | ETHZ/UCAM                                  |
| Fueglistaler, S., H. Wernli, T. Peter   | Tropical troposphere-to-stratosphere transport inferred from trajectory calculations  | J. Geophys. Res.    | 109 (D3): Art. No. D03108                  | 2004 | ETHZ, UCAM                                 |
| Gabriel, A., D. Peters, I. Kirchner and H.-F. Graf  | The effect of zonally asymmetric stratospheric ozone on large-scale dynamics and planetary wave propagation in the tropo-, strato- and mesosphere                         | Geophys. Res. Lett. | VOL. 34, L06807, doi:10.1029/2006GL028998  | 2007 | UCAM                                       |
| Garane, K., A.F. Bais, S. Kazadzis, A. Kazantzidis, and C. Meleti   | Monitoring of UV spectral irradiance at Thessaloniki (1990-2005): Data re-evaluation and quality control  | Ann. Geophys.       | 24 (12), 3215-3228                         | 2006 | AUTH                                       |
| Garny, H., M. Dameris, and A. Stenke  | Impact of prescribed SSTs on climatologies and long-term trends in CCM simulations  | Atmos. Chem. Phys.  | 6017-6031                                  | 2009 | DLR  |
| Gauss, M., G. Myhre, I. S. A. Isaksen, V. Grewe, G. Pitari, O. Wild, W. J. Collins, F. J. Dentener, K. Ellingsen, L. K. Gohar, D. A. Hauglustaine, D. Iachetti, J.-F. Lamarque, E. Mancini, L. J. Mickley, M. J. Prather, J. A. Pyle, M. G. Sanderson, K. P. Shine, D. S. Stevenson, K. Sudo, S. Szopa, G. Zeng | Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere   | Atmos. Chem. Phys.  | 6575-6599                                  | 2006 | UIO, DLR, ULAQ, UKMO, CNRS, MPG, UCAM, UCI |
| Gottelman, A., T. Birner, V. Eyring, H. Akiyoshi, D.A. Plummer, M. Dameris, S. Bekki, F. Lefevre, F. Lott, C. Brühl, K. Shibata, E. Rozanov, E. Mancini, G. Pitari, H. Struthers, W. Tian and D.E. Kinnison   | The tropical tropopause layer 1960-2100   | Atmos. Chem. Phys.  | 1621-1637                                  | 2009 | NCAR, CNRS, MPI-C, DLR, ETH, ULAQ, NIWA    |
| Gil, M. M. Yela, L.N. Gunn, A. Richter, I. Alonso, M.P. Chipperfield, E. Cuevas, J. Iglesias, M. Navarro, O. Puentedura and S. Rodríguez.   | NO <sub>2</sub> Climatology in the Northern Subtropical Region: Diurnal, Seasonal and Interannual variability   | Atmos. Chem. Phys.  | 8,1635-1648                                | 2008 | INTA, ULEEDS, IUP-UB                       |
| Giorgetta M.A., M.C. Doege  | Sensitivity of the quasi-biennial oscillation to CO <sub>2</sub> doubling   | Geophys. Res. Lett. | 32, L08701, doi: 10.1029/2004GL021971      | 2005 | MPG (MPIM)                                 |
| Glatthor, N., T. von Clarmann, H. Fischer, B. Funke, U. Grabowski, M. Hoepfner, S. Kellmann, M. Kiefer, A. Linden, M. Milz, T. Steck, G.P. Stiller, G. Mengistu Tsidu, and D.Y. Wang  | Mixing processes during the Antarctic vortex split in September/October 2002 as inferred from source gas and ozone distributions from ENVISAT-MIPAS                       | J. Atmos. Sci.      | 62 (3), 787-800                            |      | UNIKARL                                    |
| Glatthor, N., T. von Clarmann, H. Fischer, B. Funke, U. Grabowski, M. Höpfner, S. Kellmann, A. Linden, M. Milz, T. Steck, and G.P. Stiller.   | Global peroxyacetyl nitrate (PAN) retrieval in the upper troposphere from limb emission spectra of the Michelson Interferometer for Passive Atmospheric Sounding (MIPAS), | Atmos. Chem. Phys.  | 7, 2775-2787                               | 2007 | UNIKARL                                    |
| Glatthor, N., T. von Clarmann, H. Fischer, B. Funke, S. Gil-López, U. Grabowski, M. Höpfner, S. Kellmann, A. Linden, M. López-Puertas, G. Mengistu Tsidu, M. Milz, T. Steck, G. P. Stiller, and D.-Y. Wang  | Retrieval of stratospheric ozone profiles from MIPAS/ENVISAT limb emission spectra: a sensitivity study   | Atmos. Chem. Phys.  | 6, 2767-2781                               | 2006 | UNIKARL                                    |

Refereed Literature

|  |   |  |                                       |      |                      |
|--|---|--|---------------------------------------|------|----------------------|
| Graf, H-F., J. Yang, and T. M. Wagner  | Aerosol effects on clouds and precipitation during the 1997 smoke episode in Indonesia  | Atmos. Chem. Phys.   | 9, 743-756                            | 2009 | UCAM                 |
| Graf, H.-F., Q. Li, and M.A. Giorgetta   | Volcanic effects on climate: Revisiting the mechanisms.   | Atmos. Chem. Phys.   | 7, 4503-4511                          | 2007 | UCAM, MPG            |
| Graf, H.-F. and J. Yang  | Evaluation of a new convective cloud field model: precipitation over the maritime continent   | Atmos. Chem. Phys.   | 7, 409-421. SRef-ID: 1680-7324        | 2007 | UCAM                 |
| Graf, H.-F. and K. Walter  | Polar vortex controls coupling of North Atlantic ocean and atmosphere   | Geophys. Res. Lett.  | 32, L01704, doi:10.1029/2004GL020664  | 2005 | UCAM                 |
| Greenhough, J., J. J. Remedios, H. Sembhi, L. J. Kramer  | Towards cloud detection and cloud frequency distributions from MIPAS infrared observations  | Adv. Space Res.  | 36,800-806                            | 2005 | ULEIC                |
| Grooß, J.-U., R. Müller, P. Konopka, H.-M. Steinhorst, A. Engel, T. Mobius, and C.M. Volk  | The impact of transport across the polar vortex edge on Match ozone loss estimates,   | Atmos. Chem. Phys.   | 8, 565-578                            | 2008 | FZJ, JWGU            |
| Grooß, J.-U. and R. Müller   | Simulation of ozone loss in the Arctic winter 2004/05   | Geophys. Res. Lett.  | 34, L05804, doi: 10.1029/2006GL028901 | 2007 | FZJ                  |
| Günther, G., R. Müller, M. von Hobe, F. Stroh, P. Konopka, and C. M. Volk  | Quantification of Transport across the Boundary of the Lower Vortex during ArcticWinter 2002/2003   | Atmos. Chem. Phys.   | 8(13) 3655-3670                       | 2008 | FZJ, JWGU            |
| Gurk, Ch., H. Fischer, P. Hoor, M. G. Lawrence, J. Lelieveld and H. Wernli   | Airborne in-situ measurements of vertical, seasonal and latitudinal distributions of carbon dioxide over Europe.  | Atmos. Chem. Phys.   | 6395-6403                             | 2008 | IPA-UMZ, MPG         |
| Gurlit, W., H. Bösch, H. Bovensmann, J. P. Burrows, A. Butz, C. Camy-Peyret, M. Dorf, K. Gerilowski, A. Lindner, S. Noel, U. Platt, F. Weidner, and K. Pfeilsticker                                  | The UV-A and visible solar irradiance spectrum: Inter-comparison of absolutely calibrated, spectrally medium resolved solar irradiance spectra from balloon-, and satellite-borne measurements, | Atmos. Chem. Phys.   | 5, 1879–1890, 2005.                   | 2005 | IUP-UB, IUP-HD, CNRS |
| Hamilton, J.F., Grant Allen, N.M. Watson, J.D. Lee, J.E. Saxton, A.C. Lewis, G. Vaughan, K.N. Bower, M.J. Flynn, J. Crozier, G.D. Carver, N.R.P. Harris, R.J. Parker, J.J. Remedios, N.A.D. Richards | Observations of an Atmospheric Chemical Equator and its Implications for the Tropical Warm Pool Region  | J. Geophys. Res.   | 113, D20313, doi:10.1029/2008JD009940 | 2008 | UNIMAN, UCAM, ULEIC  |
| Hansford, G. M, Ray A. Freshwater, Ronald A. Bosch, R. Anthony Cox, Roderic L. Jones, Keith F. E. Pratt and David E. Williams,   | A Low Cost Instrument based on a Solid State Sensor for Balloon-borne Atmospheric O3 Profile Sounding,  | J. Environ. Monit.   | 7, 158-162                            | 2005 | UCAM                 |
| Harris, N.R.P.   | The long history of ozone: Analyses of recent measurements  | <i>Twenty Years of Ozone Decline</i> , Springer Publications | 111-117                               | 2009 | UCAM                 |
| Harris, N.R.P., R. Lehmann, M. Rex, and P. von der Gathen  | Understanding the relation between Arctic ozone loss and the volume of polar stratospheric clouds   | Int. J. Rem. Sens.   | 30, 15, 4065-4070                     | 2009 | UCAM, AWI            |

Refereed Literature

|   |  |                       |  |      |  |
|---|--|-----------------------|--|------|--|
| Harris, N.R.P., E. Kyrö, J. Staehelin, D. Brunner, S-B. Andersen, S. Godin-Beekmann, S. Dhomse, P. Hadjinicolaou, G. Hansen, I. Isaksen, A. Jrrar, A. Karpetchko, R. Kivi, B. Knudsen, P. Krizan, J. Lastovicka, J. Maeder, Y. Orsolini, J.A. Pyle, M. Rex, K. Vanicek, M. Weber, I. Wohltmann, P. Zanis, and C. Zerefos, | Ozone trends at northern mid- and high latitudes - a European perspective  | Ann. Geophys.         | 26, 1207-1220                          | 2008 | UCAM, FMI, ETHZ, DMI, CNRS, IUP-UB, NILU, UIO, AWI, NKUA |
| Haynes, P.H.  | Stratospheric dynamics   | Ann. Rev. Fluid Mech. | 37, 263-293                            | 2005 | UCAM   |
| Held, G., J.-P. Pommereau and U Schumann, TroCCiBras and its partner projects HIBISCUS and TROCCINOX:   | The 2004 field campaign in the State of São Paulo,   | Opt. Pura Appl.       | 41 (2) 207-216                         | 2008 | CNRS, DLR  |
| Hendrick, F. M. Van Roozendael M.P. Chipperfield  | Retrieval of stratospheric and tropospheric BrO profiles and columns using ground-based zenith-sky DOAS observations at Harestua, 60°N                       | Atmos. Chem. Phys.    | 7, 4869-4885                           | 2007 | BIRA-IASB, ULEEDS  |
| Hendrick, F., A. Rozanov, P. V. Johnston, H. Bovensmann, M. De Mazière, C. Fayt, C. Hermans, K. Kreher, W. Lotz, N. Theys, A. Thomas, J. P. Burrows, and M. Van Roozendael  | Multi-year comparison of stratospheric BrO vertical profiles retrieved from SCIAMACHY limb and ground-based UV-visible measurements                          | Atmos. Meas. Techn.   | 2, 273-285                             | 2009 | BIRA-IASB, et al.  |
| Hendrick, F., P.V. Johnston, K. Kreher, C. Hermans, M. De Mazière, and M. Van Roozendael  | One decade trend analysis of stratospheric BrO over Harestua (60°N) and Lauder (44°S) reveals a decline  | Geophys. Res. Lett.   | 35, L14801, doi:10.1029/2008GL034154   | 2008 | BIRA-IASB, et al.  |
| Hendrick, F., M. Van Roozendael, M. P. Chipperfield, M. Dorf, F. Goutail, X. Yang, C. Fayt, C. Hermans, K. Pfeilsticker, J.-P. Pommereau, J. A. Pyle, N. Theys, and M. De Mazière   | Retrieval of stratospheric and tropospheric BrO profiles and columns using ground-based zenith-sky DOAS observations at Harestua, 60°N                       | Atmos. Chem. Phys.    | 7, 4869-4885                           | 2007 | BIRA-IASB, CNRS, ULEEDS UCAM IUP-HD                      |
| Hendrick, F., M. Van Roozendael, A. Kylling, A. Petritoli, S. Sanghavi, R. Schofield, C. von Friedeburg, F. Wittrock, and M. De Mazière   | Intercomparison exercise between different radiative transfer models used for the interpretation of ground-based zenith-sky and multi-axis DOAS observations | Atmos. Chem. Phys.    | 6, 93-108                              | 2006 | BIRA-IASB, CNR, NIWA, IUP-HD, IUP-UB                     |
| Hoffmann, L.; Weigel, K.; Spang, R.; Schroeder, S.; Arndt, K.; Lehmann, C.; Kaufmann, M.; Ern, M.; Preusse, P.; Stroh, F.; Riese, M.  | CRISTA-NF measurements of water vapor during the SCOUT-O3 Tropical Aircraft Campaign   | Adv. Space Sci.       | 74-81                                  | 2009 | FZJ  |
| Hoffmann, L., M. Kaufmann, R. Spang, R. Muller, D.P. Moore, J.J. Remedios, C.M. Volk, T. von Clarmann, and M. Riese   | Envisat MIPAS measurements of CFC-11: retrieval, validation and climatology  | Atmos. Chem. Phys.    | 8, 3671-3688                           | 2008 | ULEIC  |
| Hsu J., M. J. Prather, O. Wild  | Diagnosing the stratosphere-to-troposphere flux of ozone in a chemistry transport model,   | J. Geophys. Res.      | 110, D19305, doi:10.1029/2005JD006045. | 2005 | UCI  |
| Huthwelker, T., M. Ammann and T. Peter  | The Uptake of Acidic Gases on Ice  | Chem. Rev.            | 106, 1375-1444                         | 2006 | ETHZ, PSI  |
| Immler, F., K. Krüger, M. Fujiwara, G. Verver, M. Rex, O. Schrems   | Correlation between equatorial Kelvin waves and the occurrence of extremely thin ice clouds at the tropical tropopause,                                      | Atmos. Chem. Phys.    | 8, 4019-4026                           | 2008 |  |
| Immler, F.; Treffeisen, R.; Engelbart, D.; Krüger, K. & Schrems, O.   | Cirrus, contrails, and ice supersaturated regions in high pressure systems at northern mid latitudes   | Atmos. Chem. Phys.    | 8, 1689-1699                           | 2008 | AWI  |

Refereed Literature

|  |   |   |  |      |              |
|--|---|---|--|------|--------------|
| Immler, F., Krüger, K., Tegtmeier, S., Fujiwara, M., Fortuin, P., Verver, G., Schrems, O.  | Cirrus clouds, humidity, and dehydration in the tropical tropopause layer observed at Paramaribo/Suriname (5.8°N, 55.2°W),  | J. Geophys. Res.                        | 112(D3) D03209   | 2007 | AWI          |
| Jedlovszky, Pal; Hantal, Gyorgy; Neurohr, Katalin; Picaud, Sylvain; Hoang, Paul; Crowley, John; Hessberg, Philipp  | Adsorption Isotherm of Formic Acid on the Surface of Ice, as Seen from Experiments and Grand Canonical Monte Carlo Simulation   | J. Phys. Chem. A                        | 112(24) 8976-8987  | 2008 | MPIC         |
| Jedlovszky, P., L. Partay, P.N.M. Hoang, S. Picaud, P. von Hessberg and J.N. Crowley   | Determination of the adsorption isotherm of methanol on the surface of ice. An experimental and Grand Canonical Monte Carlo simulation study                                    | J. Am. Chem. Soc                        | 15300  | 2006 | MPICH        |
| Jin, J.J.; Semeniuk, K. ; Beagley, S.R., J. Urban, D.P. Murtagh et al.   | Comparison of CMAM simulations of carbon monoxide (CO), nitrous oxide (N <sub>2</sub> O), and methane (CH <sub>4</sub> ) with observations from Odin/SMR, ACE-FTS, and Aura/MLS | Atmos. Chem. Phys.                      | 9, 3233-3252   | 2009 | UGOT         |
| Jöckel, P., H. Tost, A. Pozzer, C. Brühl, J. Buchholz, L. Ganzeveld, P. Hoor, A. Kerkweg, M. G. Lawrence, R. Sander, B. Steil, G. Stiller, M. Tanarhte, D. Taraborrelli, J. van Aardenne, and J. Lelieveld | The atmospheric chemistry general circulation model EHAM5/MESy1: Consistent simulation of ozone from the surface to the mesosphere  | Atmos. Chem. Phys.                      | 6, 5067-5104   | 2006 | MPG, FZK     |
| Jones, A., J. Urban, D.P. Murtagh, P. Eriksson, S. Brohede, C. Haley, D. Degenstein, A. Bourassa, C. von Savigny, T. Sonkaev, A. Rozanov, H. Bovensmann, and J. Burrows                                    | Evolution of stratospheric ozone and water vapour time series studied with satellite measurements   | Atmos. Chem. Phys.                      | 9, 6055-6075   | 2009 | UGOT, IUP-UB |
| Jrjar A., P. Braesicke, P. Hadjinicolaou and J.A. Pyle   | Trend analysis of CTM derived total ozone using self-consistent proxies: How well can we explain dynamically induced trends?  | Q.J.R. Met. Soc.                        | 1969-1983  | 2006 | UCAM         |
| Junk, J., U. Feister, and A. Helbig  | Reconstruction of daily solar UV irradiation from 1893 to 2002 in Potsdam, Germany  | Int. J. Biometeorol.                    | Vol. 51, 505 - 512, DOI 10.1007/s00484-007-0089-4  | 2007 | DWD          |
| Kärcher, B.  | Supersaturation, dehydration, and denitrification in Arctic cirrus  | Atmos. Chem. Phys.                      | 5, 1757-1772<br><a href="http://www.pa.op.dlr.de/~pa1c/ACP5_1757-1772_2005.pdf">http://www.pa.op.dlr.de/~pa1c/ACP5_1757-1772_2005.pdf</a>                                    | 2005 | DLR          |
| Kärcher, B. and C. Voigt   | Formation of nitric acid/water ice particles in cirrus clouds   | Geophys. Res. Lett.                     | 33, L08806, doi:10.1029/2006GL025927<br><a href="http://www.pa.op.dlr.de/~pa1c/GRL33_2006GL025927_2006.pdf">http://www.pa.op.dlr.de/~pa1c/GRL33_2006GL025927_2006.pdf</a>    | 2006 | DLR          |
| Kärcher, B. and T. Koop  | The role of organic aerosols in homogeneous ice formation   | Atmos. Chem. Phys.                      | 5, 703-714<br><a href="http://www.pa.op.dlr.de/~pa1c/ACP5_703-714_2005.pdf">http://www.pa.op.dlr.de/~pa1c/ACP5_703-714_2005.pdf</a>  | 2005 | DLR, ETH     |
| Kärcher, B. and M.M. Basko   | Trapping of trace gases in growing ice crystals.  | J. Geophys. Res.                        | 109, D22204, doi:10.1029/2004JD005254<br><a href="http://www.pa.op.dlr.de/~pa1c/JGR109_2004JD005254_2004.pdf">http://www.pa.op.dlr.de/~pa1c/JGR109_2004JD005254_2004.pdf</a> | 2004 | DLR          |
| Kärcher, B., J.P.D. Abbatt, R.A. Cox, P.J. Popp, and C. Voigt  | Trapping of trace gases by growing ice surfaces including surface-saturated adsorption.   | J. Geophys. Res.                        | 114, D13306, doi:10.1029/2009JD011857  | 2009 | UCAM, DLR    |
| Kärcher, B., J. Hendricks, and U. Lohmann  | Physically-based parameterization of cirrus cloud formation for use in global atmospheric models  | J. Geophys. Res.                        | 111, D01205, doi:10.1029/2005JD006219<br><a href="http://www.pa.op.dlr.de/~pa1c/JGR111_200">http://www.pa.op.dlr.de/~pa1c/JGR111_200</a>                                     | 2006 | DLR, ETHZ    |
| Karpechko, A., A. Lukyanov, E. Kyro, S. Khaikin, L. Korshunov, R. Kivi, and H. Vömel   | The water vapour distribution in the Arctic lowermost stratosphere during the LAUTLOS campaign and related transport processes including stratosphere-troposphere exchange      | Atmos. Chem. Phys.                      | 107-119  | 2007 | FMI, CAO     |
| Kazantzidis, A., A. F. Bais, M.M. Zempila, C. Meleti, K. Eleftheratos, C.S. Zerefos  | Evaluation of ozone column measurements over Greece with NILU-UV multi-channel radiometers  | International Journal of Remote Sensing | 4273-4281  | 2009 | AUTH, NKUA   |

Refereed Literature

|  |  |                         |                                    |      |                      |
|--|--|-------------------------|------------------------------------|------|----------------------|
| Kerbrat, M., Pinzer, B., Huthwelker, T., Gäggeler, H.W., Ammann, M., and Schneebeli, M.  | Measuring the specific surface area of snow with X-ray tomography and gas adsorption: comparison and implications for surface smoothness   | Atmos. Chem. Phys.      | 8, 1261-1275                       | 2008 | PSI                  |
| Kerzenmacher, T., M. A. Wolff, K. Strong, E. Dupuy, K. A. Walker, L. K. Amekudzi, R. L. Batchelor, P. F. Bernath, G. Berthet, T. Blumenstock, C. D. Boone, K. Bramstedt, C. Brogniez, S. Brohede, J. P. Burrows, V. Catoire, J. Dodion, J. R. Drummond, D. G. Dufour, B. Funke, D. Fussen, F. Goutail, D. W. T. Griffith, C. S. Haley, F. Hendrick, M. Hopfner, N. Huret, N. Jones, J. Kar, I. Kramer, E. J. Llewellyn, M. Lopez-Puertas, G. Manney, C. T. McElroy, C. A. McLinden, S. Melo, S. Mikuteit, D. Murtagh, F. Nichitiu, J. Notholt, C. Nowlan, C. Piccolo, J.-P. Pommereau, C. Randall, A. Richter, M. Schneider, O. Schrems, M. Silicani, G. P. Stiller, J. Taylor, C. Tetard, M. Toohey, F. Vanhellefont, T. Warneke, J. M. Zawodny, and J. Zou | Validation of NO <sub>2</sub> and NO from the Atmospheric Chemistry Experiment (ACE),  | Atmos. Chem. Phys.      | 8, 5801-5841                       | 2008 | CNRS, IUP, IASB      |
| Khamaganov, V., R. Karunanandan, A. Rodriguez, and J.N. Crowley  | Photolysis of CH <sub>3</sub> C(O)CH <sub>3</sub> (248 nm, 266 nm), CH <sub>3</sub> C(O)C <sub>2</sub> H <sub>5</sub> (248 nm) and CH <sub>3</sub> C(O)Br (248 nm): Pressure Dependent Quantum Yields of CH <sub>3</sub> Formation | Phys. Chem. Chem. Phys. | 9, 4098; 1039/6704736c             | 2007 | MPICH                |
| Khaykin, S., Pommereau, J.-P., Korshunov, L., Yushkov, V., Nielsen, J., Larsen, N., Christensen, T., Garnier, A., Lukyanov, A., and Williams, E  | Hydration of the lower stratosphere by ice crystal geysers over land convective systems  | Atmos. Chem. Phys.      | 9, 2275-2287                       | 2009 | CNRS, DMI, CAO       |
| C. Kiemle, M. Wirth, A. Fix, G. Ehret, U. Schumann, T. Gardiner, C. Schiller, N. Sitnikov, and G. Stiller  | First airborne water vapor lidar measurements in the tropical upper troposphere and mid-latitudes lower stratosphere: accuracy evaluation and intercomparisons with other instruments  | Atmos. Chem. Phys.      | Vol. 8, pp. 5245–5261              | 2008 | DLR, FZJ, FZK        |
| Kinne, S., M. Schulz, C. Textor, S. Guibert, Y. Balkanski, S. Bauer, T. Berntsen, T. Berglen, O. Boucher, M. Chin, W. Collins, F. Dentener, T. Diehl, R. Easter, H. Feichter, D. Fillmore, S. Ghan, P. Ginoux, S. Gong, A. Grini, J. Hendricks, M. Herzog, L. Horowitz, I. Isaksen, T. Iversen, A. Jones, S. Kloster, D. Koch, M. Krool, A. Lauer, J.F. Lamarque, G. Lesins, X. Liu, U. Lohmann, V. Montanaro, G. Myhre, J. Penner, G. Pitari, S. Reddy, D. Roberts, O. Seland, P. Stier, T. Takemura, X. Tie  | An AeroCom initial assessment – optical properties in aerosol component modules of global models   | Atmos. Chem. Phys.      | SRef-ID: 1680-7324/acp/2006-6-1815 | 2006 | UIO, UKMO, MPG, ULAQ |

Refereed Literature

|   |   |  |  |         |                          |
|---|---|--|--|---------|--------------------------|
| Kivi R., E. Kyrö, T. Turunen, N. R. P. Harris, P. von der Gathen, M. Rex, S. B. Andersen, I. Wohltmann  | Ozonesonde observations in the Arctic during 1989-2003: Ozone variability and trends in the lower stratosphere and free troposphere | J. Geophys. Res.                       | 112, D08306, doi:10.1029/2006JD007271. | 2007    | FMI, UCAM, AWI, DMI      |
| Knudsen, B.M., N.R.P. Harris, S.B. Andersen, B. Christiansen, N. Larsen, M. Rex, B. Naujokat  | Extrapolating future Arctic ozone losses  | Atmos. Chem. Phys.                     | 4, 1849-1856                           | 2004    | DMI, UCAM, AWI, FUB      |
| Konopka, P., A. Engel, B. Funke, R. Müller J.-U. Groß, G. Günther, Th. Wetter, G. Stiller, Th. von Clarmann, N. Glatthor, H. Oelhaf, G. Wetzel, M. López-Puertas, M. Pirre, N. Huret, and M. Riese  | Ozone loss driven by nitrogen oxides and triggered by stratospheric warmings can outweigh the effect of halogens                    | J. Geophys. Res.                       | 112, D05105, doi: 10.1029/2006JD007064 | 2007    | FZK, UNIKARL, CNRS, UFRA |
| Kokkola, H., R. Hommel, J. Kazil, U. Niemeier, A.-I. Partanen, J. Feichter, and C. Timmreck,  | Aerosol microphysics modules in the framework of the ECHAM5   | Geosci. Model Dev.,                    | 2, 97-112,                             | 2009    | MPG                      |
| Konopka, P., G. Gunther, R. Muller, F.H.S. dos Santos, C. Schiller, F. Ravagnani, A. Ulanovsky, H. Schlager, C. M. Volk, S. Viciani, LL. Pan, D.S. McKenna and M. Riese   | Contribution of mixing to upward transport across the tropical tropopause layer   | Atmos. Chem. Phys.                     | 7, 3285-3308                           | 2007    | FZJ, JWGU, DLR           |
| Koop, T. and B. Zobrist   | Parameterizations for Ice Nucleation in Biological and Atmospheric Systems  | Phys. Chem. Chem. Phys.                | in press, DOI:10.1039/B914289D         | 2009    | ETH/Bielefeld            |
| Kouremeti, N., A. F. Bais, S. Kazadzis, M. Blumthaler, R. Schmitt   | Charge-coupled device spectrograph for direct solar irradiance and sky radiance measurements  | Applied Optics                         | doi:10.1364/AO.47.001594               | 31/3/08 | AUTH, UIIMP              |
| Kovács, Gg., Á. Bencsura, S. Dóbé, T. Bérces, F. Márta  | Rate constant for the Reaction CH <sub>3</sub> CO + HBr and the Enthalpy of formation of the CH <sub>3</sub> CO radical             | React. Kinet. Catal. Lett.             | 86, 355-361                            | 2005    | CRIC-HAS                 |
| Kovács, Gg.   | Kinetics and Photochemical Study on the Atmospheric Fate of Fluoro Alcohols and Acetone   | Periodica Polytechnica Ser. Chem. Eng. | 49, 59.                                | 2005    | CRIC-HAS                 |
| Kovács, Gg., E. Farkas, S. Dóbé et al.  | General Discussion  | Faraday Discuss.                       | 130, 125-153                           | 2005    | CRIC-HAS                 |
| Kovalenko, L.J., N.L. Livesey, R.J. Salawitch, C. Camy-Peyret, M.P. Chipperfield, R.E. Cofield, M. Dorf, B.. Drouin, L. Froidevaux, R.A. Fuller, F. Goutail, R.F. Jamot, K. Jucks, B.W. Knosp, A. Lambert, I.A. MacKenzie, K. Pfeilsticker, J.-P. Pommereau, W.G. Read, M.L. Santee, M.J. Schwartz, W.V. Snyder, R. Stachnik, P.C. Stek, P.A. Wagner, J.W. Waters | Validation of Aura Microwave Limb Sounder BrO observations in the stratosphere  | J. Geophys. Res.                       | 112, D24S41, doi: 10.1029/2007JD008817 | 2007    | ULEEDS, IUP-HD, CNRS     |
| Krämer, M.; Schiller, C.; Afchine, A.; Bauer, R.; Gensch, I.; Mangold, A.*; Schlicht, S.*; Spelten, N.; Sitnikov, N.*; Borrmann, S.*; de Reus, M.*; Spichtinger, P.   | Ice supersaturations and cirrus cloud crystal numbers   | Atmos. Chem. Phys.                     | 9, 3505 - 3522                         | 2009    | FZJ, ETHZ, CAO, UMZ      |
| Krämer, M., C. Schiller, C. Voigt, H. Schlager  | A climatological view on HNO <sub>3</sub> partitioning in cirrus clouds   | Q.J.R. Met. Soc.                       | 9(11) 3505-3522                        | 2008    | FZJ, DLR                 |
| Krebsbach, M. and P. Preusse  | Spectral analysis of gravity wave activity in SABER temperature data  | Geophys. Res. Lett.                    | 34, L03814, doi: 10.1029/2006GL028040  | 2007    | FZJ                      |
| Krebsbach, M., C. Schiller, D. Brunner, G. Guenther, M. I. Hegglin, D. Mottaghy, M. Riese, N. Spelten and H. Wernli   | Seasonal cycles and variability of O <sub>3</sub> and H <sub>2</sub> O in the UT/LMS during SPURT                                   | Atmos. Chem. Phys.                     | 6, 109-125                             | 2006    | FZJ                      |

Refereed Literature

|   |  |   |  |      |                 |
|---|--|---|--|------|-----------------|
| Kremser, S., I. Wohltmann, M. Rex, U. Langematz, M. Dameris, and M. Kunze   | Water vapour transport in the tropical tropopause region in coupled Chemistry-Climate Models and ERA-40 reanalysis data        | Atmos. Chem. Phys.                      | 9, 2679-2694                           | 2009 | AWI, DLR, FUB   |
| Krüger, K., S. Tegtmeier, M. Rex  | Long-term climatology of transport processes in the Tropical Tropopause Layer (TTL) during NH winter.                          | Atmos. Chem. Phys.                      | 8, 813-823                             | 2008 |                 |
| K_dela V., Vo_enílková B., Krejzlarová R., Krejzlar V., Janouch M.  | Destruction of chlorophyll in Emerging Seedlings of Spring Barley Associated with Environmental Stresses                       | Plant Protection Science                | 165-170                                | 2005 | CHMI            |
| Kuttippurath, J., H. Bremer, J. Burrows, A. Kleinböhl, H. Küllmann, K. Künzi, J. Notholt, M. Sinnhuber, C. von Savigny, N. Lautié, D. Murtagh, J. Urban, M. Milz, G.P. Stiller, S. Petelina, J. de La Noé, E. Le Flochmoén, and P. Ricaud   | Intercomparison of ozone profile measurements from ASUR, SCIAMACHY, MIPAS, OSIRIS, and SMR                                     | J. Geophys. Res.                        | 112, D09311, doi:10.1029/2006JD007830  | 2007 | IUP-UB, UNIKARL |
| Kuttippurath J., Godin-Beekmann S., Lefevre F. and Pazmino A  | Ozone depletion in the Arctic winter 2007-2008   | International Journal of Remote sensing | 10.1080/01431160902821965              | 2009 | None            |
| Kyrölä, E., J. Tamminen, G.W. Leppelmeier, V. Sofieva, Hassinen, A. Seppälä, P.T. Verronen, J.L. Bertaux, Hauchecorne, F. Dalaudier, D. Fussen, F. Vanhellemont, O. d'Andon, G. Fanton, G. Barrot, A. Mangin, B. Theodore, M. Guirlet, R. Koopman, L. de Miguel, L. Saavedra, P. Snoeij, T. Fehr, Y. Meijer, R. Fraisse | Nighttime ozone profiles in the stratosphere and mesosphere by the Global Ozone Monitoring by Occultation of Stars on Envisat, | J. Geophys. Res.                        | 111, D24306, doi: 10.1029/2006JD007193 | 2006 | CNRS, FMI       |
| Lakkis, S.G., A.E.Yuchechen, P.O. Canziani  | Estudio de las observaciones de tropopausa sobre el cono sur de sudamérica mediante gps a bordo de los satélites SAC-C y CHAMP | Meteorológica                           | 31. ISSN 0325-187X                     | 2007 | UCA             |
| Lantz K., Disterhoft P., Slusser J., Gao W., Berndt J., Bernhard G., Bloms S., Booth R., Ehranjian J., Harrison L., Janson G., Johnston P., Kiedron P., McKenzie R., Kimlin M., Neale P., O'Neill M., Quang V. V. Seckmeyer G., Taylor T., Wuttke S., Michalsky J.  | The 2003 North American interagency intercomparison of ultraviolet spectroradiometers: Scanning and spectrograph instruments   | J. Appl. Remote Sens.                   | 2, 23547                               | 2008 | UHAN            |
| Langematz, U., and M. Kunze   | Dynamical Changes in the Arctic and Antarctic Stratosphere During Spring   | Adv. Glob. Change Res.                  | 33, Springer ISBN: 978-1-4020-6765-5   | 2008 | FUB             |
| Langematz, U. and M. Kunze  | An update on dynamical changes in the Arctic and Antarctic stratospheric vortices  | Climate Dynamics                        | 33, 293-301                            | 2006 | FUB             |
| Laube, J.C. and A. Engel  | First atmospheric observations of three chlorofluorocarbons  | Atmos. Chem. Phys.                      | 5143-5149                              | 2008 | UEA             |
| Laube, J.C., A. Engel, H. Boenisch, T. Moebius, D. R. Worton, W. T. Sturges, K. Grunow, and U. Schmidt  | Contribution of very short-lived organic substances to stratospheric chlorine and bromine in the tropics – a case study        | Atmos. Chem. Phys.                      | 8, 7325–7334                           | 2008 | JWGU, UEA, FUB  |
| Legras, B., I. Pissot, G. Berthet, and F. Lefevre   | Variability of the Lagrangian turbulent diffusivity in the lower stratosphere  | Atmos. Chem. Phys.                      | 4, 8285-8325                           | 2004 | CNRS            |
| Lehmann, R., P. von der Gathen, M. Rex, M. Streibel   | Statistical analysis of the precision of the Match method  | Atmos. Chem. Phys.                      | 2713-2727                              | 2005 | AWI             |

Refereed Literature

|   |   |                                 |  |      |   |
|---|---|---------------------------------|--|------|---|
| Lelieveld, J., C. Brühl, P. Jöckel, B. Steil, P. J. Crutzen, H. Fischer, M. A. Giorgetta, P. Hoor, M. G. Lawrence, R. Sausen, and H. Tost   | Stratospheric dryness: model simulations and satellite observations.  | Atmos. Chem. Phys.              | 1313-1332  | 2007 | DLR, FZK, MPICHEM, MPIMET                                   |
| Levine, J.G., P. Braesicke, N.R.P. Harris, and J.A. Pyle  | Seasonal and Inter-annual Variations in Troposphere-to-Stratosphere Transport from the Tropical Tropopause Layer  | Atmos. Chem. Phys.              | 8, 3689-3703, <a href="http://www.atmos-chem-phys.net/8/3689/2008/">www.atmos-chem-phys.net/8/3689/2008/</a> | 2008 | UCAM  |
| Levine, J.G., P. Braesicke, N.R.P. Harris, N.H. Savage and J.A. Pyle  | Pathways and timescales for troposphere-to-stratosphere transport via the tropical tropopause layer and their relevance for very short lived substances | J. Geophys. Res.                | 112, D04308, doi:10.1029/2005JD006940  | 2007 | UCAM  |
| Li, Q., H.-F. Graf, M. A. Giorgetta   | Stationary planetary wave propagation in Northern Hemisphere winter: Climatological analysis of the refractive index                                    | Atmos. Chem. Phys.              | 7, 183-200   | 2007 | UCAM  |
| Lindfors, A., A. Heikkila, J.Kaurola, T. Koskela, K. Lakkala  | Reconstruction of Solar Spectral Surface UV Irradiances Using Radiative Transfer Simulations  | Photochemistry and Photobiology | 10.1111/j.1751-1097.2009.00578.x   | 2009 | FMI   |
| Lindfors, A., and A. Arola  | On the wavelength-dependent attenuation of UV radiation by clouds   | Geophys. Res. Lett.             | 10.1029/2007GL032571   | 2008 | FMI   |
| Lindfors, A., Kaurola, J., Arola, A., Koskela, T., Lakkala, K., Josefsson, W., Olseth, J. A., and Johnsen, B.;  | A method for reconstruction of past UV radiation based on radiative transfer modeling: applied to four stations in northern Europe                      | J. Geophys. Res.                | 10.1029/2007JD008454   | 2007 | FMI, SMHI (in addition, outside SCOUT partners: NRPA & UiB) |
| Lowe, D., A. R. MacKenzie, H. Schlager, C. Voigt, A. Dörnbrack, M. J. Mahoney, and F. Cairo   | Liquid particle composition and heterogeneous reactions in a mountain wave Polar Stratospheric Cloud  | Atmos. Chem. Phys.              | vol. 6, 3611-3623  | 2006 | ULANC, DLR, CNR   |
| Lu, H., M.J. Jarvis, H.-F. Graf, P.C. Young, and R.B. Horne   | Atmospheric temperature responses to solar irradiance and geomagnetic activity  | J. Geophys. Res.                | 112, D11109, doi:10.1029/2006JD007864  | 2007 | ULANC, UCAM   |
| MacKenzie, A. R., C. Schiller, Th. Peter, A. Adriani, J. Beuermann, O. Bujok, F. Cairo, T. Corti, G. DiDonfrancesco, I. Gensch, C. Kiemle, M. Krämer, C. Kröger, S. Merkulov, A. Oulanovsky, F. Ravegnani, S. Rohs, V. Rudakov, P. Salter, V. Santacesaria, L. Stefanutti, V. Yushkov | Tropopause and hygropause variability over the equatorial Indian Ocean during February and March 1999,  | J. Geophys. Res.                | 111, D18112, doi:10.1029/2005JD006639  | 2006 | ULANC   |
| J. Mäder, J. Staehelin, D. Brunner, W. Stahel, I. Wohltmann, T. Peter   | Statistical modeling of total ozone: Selection of appropriate explanatory variables   | J. Geophys. Res.                | 112, D11108, doi:10.1029/2006JD007694  | 2007 | ETHZ  |
| Maeder, J.A., Staehelin, J., Brunner, D., Stahel, W.A., Wohltmann, I., Peter, T.  | Statistical modelling of total ozone: Selection of appropriate explanatory variables  | J. Geophys. Res.                | 10.1029/2006JD007694   | 2007 | ETH   |

Refereed Literature

|   |  |  |  |             |                                |
|---|--|--|--|-------------|--------------------------------|
| Mahieu, E., P. Duchatelet, P. Demoulin, K. A. Walker, E. Dupuy, L. Froidevaux, C. Randall, V. Catoire, K. Strong, C. D. Boone, P. F. Bernath, J.-F. Blavier, T. Blumenstock, M. Coffey, M. De Mazière, D. Griffith, J. Hannigan, F. Hase, N. Jones, K. W. Jucks, A. Kagawa, Y. Kasai, Y. Mebarki, S. Mikuteit, R. Nassar, J. Notholt, C. P. Rinsland, C. Robert, O. Schrems, C. Senten, D. Smale, J. Taylor, C. Tétard, G. C. Toon, T. Warneke, S. W. Wood, R. Zander, and C. Servais | Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl <sub>3</sub> F and CCl <sub>2</sub> F <sub>2</sub> using space-, balloon- and ground-based instrument observations | Atm. Chem. Phys. Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)' | 8, 6199–6221                                   | 2008        | Univ. Liège, BIRA-IASB, et al. |
| Marcolli, C., S. Gedamke, T. Peter, B. Zobrist  | Efficiency of immersion mode ice nucleation on surrogates of mineral dust  | Atmos. Chem. Phys.   | 7, 5081–5091                                   | 2007        | ETHZ                           |
| Marécal V., E. Rivière, G. Held, S. Cautenet and S. Freitas   | Modelling study of the impact of deep convection on the UTLS air composition. Part I: analysis of ozone precursors   | Atmos. Chem. Phys.   | Vol. 6, 1585-1598                              | 2006        | CNRS                           |
| Marécal V., G. Durry, K. Longo, S. Freitas, E. Rivière and M. Pirre   | Mesoscale modelling of water vapour in the tropical UTLS: two case studies from the HIBISCUS campaign  | Atmos. Chem. Phys.   | 1471-1489                                      | 2007        | CNRS/LPCE, CNRS/GSMA, CPTEC    |
| Maturilli, M., and A. Dörnbrack   | Polar Stratospheric Ice Cloud above Spitsbergen  | J. Geophys. Res.   | 111(D18210), doi:10.1029/2005JD006967          | 2006        | AWI, DLR                       |
| Maturilli, M., F. Fierli, V. Yushkov, A. Lukyanov, S. Khaykin, and A. Hauchecorne   | Stratospheric Water Vapour in the Vicinity of the Arctic Polar Vortex  | Ann. Geophys.  | 24, 1511-1521                                  | 2006        | AWI, CNR, CAO                  |
| Meijer, E. W., B. Bregman, A. Segers, and P. F. J. van Velthoven  | The influence of data assimilation on the age of air calculated with a global chemistry-transport model using ECMWF wind fields  | Geophys. Res. Lett.  | 31, L23114, doi:10.1029/2004GL021158           | 2004        | KNMI                           |
| Meleti, C., Bais, A. F., Kazadzis, S., Kouremeti, N., Garane, K. and Zerefos, C.S.  | Factors affecting solar ultraviolet irradiance measured since 1990 at Thessaloniki, Greece   | International Journal of Remote Sensing  | 4167-4179                                      | 2009        | AUTH, NKUA                     |
| Mendrok, J., F. Schreier, M. Höpfner  | Estimating cirrus cloud properties from MIPAS data   | Geophys. Res. Lett.  | 34, 8, L08807, doi:10.1029/2006GL028246        | 2007        | UNIKARL                        |
| Milz, M., et al.  | Water vapor distributions measured with the Michelson Interferometer for Passive Atmospheric Sounding on board Envisat (MIPAS/Envisat)                                     | J. Geophys. Res.   | doi:10.1029/2005JD005973                       | 2005        | UNIKARL                        |
| Milz, M., M. Hoepfner, T. von Clarmann, U. Grabowski, T. Steck, G.P. Stiller and H. Fischer   | Feasibility of measurements of water vapor and ice clouds in the tropical UT/LS region with MIPAS/ENVISAT  | Adv. Space Res.  | 34 (4), 815-819, doi:10.1016/j.asr.2003.07.068 |             | UNIKARL                        |
| Montoux N., A. Hauchecorne, J.-P. Pommereau, F. Lefèvre, G. Durry, R. L. Jones, A. Rozanov, S. Dhomse, J. P. Burrows, B. Morel and H. Bencherif,  | Evaluation of balloon and satellite water vapour measurements in the Southern tropical and subtropical UTLS during the HIBISCUS campaign                                   | Atmos. Chem. Phys.   | 9, 5299-5315                                   | 2009        | CNRS, IUP,                     |
| Morgenstern, O., P. Braesicke, F. M. O'Connor, A. C. Bushell, C. E. Johnson, S. M. Osprey, and J. A. Pyle   | Evaluation of the new UKCA climate-composition model -- Part 1: The stratosphere   | Geosci. Model Dev.   | 2, 43-57                                       | 2009        | UCAM                           |
| Morgenstern, O., P. Braesicke, M. M. Hurwitz, F. M. O'Connor, A. C. Bushell, C. E. Johnson, and J. A. Pyle  | The World Avoided by the Montreal Protocol   | Geophys. Res. Lett.  | 35, L16811, doi:10.1029/2008GL034590           | 2008        | UCAM                           |
| Müller, R.  | A brief history of stratospheric ozone research  | Meteorol. Z.   |  | Mar-24 2009 | FZJ                            |

Refereed Literature

|  |  |                            |                                      |      |                          |
|--|--|----------------------------|--------------------------------------|------|--------------------------|
| Muller, R., J.-U. Grooß, C. Lemmen, D. Heinze, M. Dameris, and G. Bodeker.   | Simple measures of ozone depletion in the polar stratosphere   | Atmos. Chem. Phys.         | 8, 2, 251-264                        | 2008 | FZJ                      |
| Muller, R., S. Tilmes, J.-U. Grooß, A. Engel, H. Oelhaf, G. Wetzell, N. Huret, M. Pirre, V. Catoire, G. Toon and H. Nakajima                                       | Impact of mesospheric intrusions on ozone-tracer relations in the stratospheric polar vortex,                              | Geophys. Res. Lett.        | doi: 10.1029/2006JD008315            | 2007 | FZJ, FZK, JWGU, CNRS     |
| Müller, S.C., N. Kämpfer et al.  | Validation of stratospheric water vapour measurements from the airborne microwave radiometer AMSOS                         | Atmos. Chem. Phys.         | 8, 23, 3169-3183                     | 2008 | FZJ                      |
| Myhre, G., J.S. Nilsen, L. Gulstad, K.P. Shine, B. Rognerud and Ivar S.A. Isaksen  | Radiative forcing due to stratospheric water vapor from CH4 oxidation  | Geophys. Res. Lett.        | 1029/2006GL027472                    | 2007 | UIO                      |
| Nádasdi, R., G. Kovács, I. Szilágyi, A. Demeter, S. Dóbbé, T. Bérces, F. Márta   | Exciplex laser photolysis study of acetone with relevance to tropospheric chemistry  | Chem. Phys. Letters        | 31-35                                | 2007 | CRC-HAS                  |
| Nádasdi, R., I. Szilágyi, G. Kovács, S. Dóbbé, T. Bérces, F. Márta   | Rate Constant for the Reaction of OH Radicals with CH3C(O)Cl Determined by Direct Kinetic Method                           | React. Kinet. Catal. Lett. | 193-199                              | 2006 | CRC-HAS                  |
| Nédélec P., V. Thouret, J. Brioude, B. Sauvage, J.-P. Cammas, and A. Stohl   | Extreme CO concentrations in the upper troposphere over North-East Asia in June 2003 from the in-situ MOZAIK aircraft data | Geophys. Res. Lett.        | 1029/2005GL023414                    | 2005 | CNRS                     |
| Nielsen, J. K., N. Larsen, F. Cairo, G. Di Donfrancesco, J. Rosen, G. Durr, G. Held, J. P. Pommereau   | Solid particles in the tropical lowest stratosphere  | Atmos. Chem. Phys.         | HIBISCUS SI, 7, 685-695              | 2007 | DMI                      |
| Niemeier, U., C. Timmreck, H.-F. Graf, S. Kinne, S. Rast and S. Self   | Initial fate of fine ash and sulfur from large volcanic eruptions  | Atmos. Chem. Phys. Discuss | 9, 17531-17577                       | 2009 | UCAM                     |
| Nober F.J., H.-F. Graf   | A new convective cloud field model based on principles of self-organisation  | Atmos. Chem. Phys.         | 5: 2749-2759 OCT 20                  | 2005 | UCAM, MPG                |
| Notholt, J., B. Luo, S. Fueglistaler, D. Weisenstein, M. Rex, M.G. Lawrence, H. Bingemer, I. Wohltmann, T. Corti, T. Warneke, R. von Kuhlmann, Th. Peter           | Influence of tropospheric SO2 emissions on particle formation and the stratospheric humidity                               | Geophys. Res. Lett.        | 10.1029/2004GL022159                 | 2005 | Univ. Bremen, AWI, ETHZ  |
| O'Brien, L.M., N. R. P. Harris, A. D. Robinson, B. Gostlow, N. Warwick, X. Yang and J. A. Pyle   | Bromocarbons in the tropical marine boundary layer at the Cape Verde Observatory – measurements and modeling               | Atmos. Chem. Phys.         | in press                             | 2009 | UCAM                     |
| Ordóñez, C., D. Brunner, J. Staehelin, P. Hadjinicolaou, J. A. Pyle, M. Jonas, H. Wernli and A. S. H. Prevo  | Strong influence of lowermost stratospheric ozone on lower tropospheric background ozone over Europe                       | Geophys. Res. Lett.        | 34, L07805, doi:10.1029/2006GL029113 | 2007 | ETHZ, UCAM               |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin  | Variability of the northern hemisphere polar stratospheric cloud potential: the role of North Pacific disturbances         | Q.J.R. Met. Soc.           | 135:1020:1029, DOI: 10.1002/qj.409,  | 2009 | NILU                     |
| Papayannis, A., D. Balis, P. Zanis, E. Galani, H. Wernli, C. Zerefos, A. Stohl, S. Eckhardt and V. Amiridis  | Sampling of a STT event over the Eastern Mediterranean region by lidar and electrochemical sonde                           | Ann. Geophys.              | 23, 2039-2050                        | 2005 | DUTH, AUTH, NILU         |
| Peet, E., V. Rudakov, V. Yushkov, G. Redaelli and A.R. MacKenzie   | Ozone and water vapour in the austral polar stratospheric vortex and sub-vortex  | Ann. Geophys.              | 22, 4035-4041                        | 2004 | ULANC, CAO, CNR          |
| Peter, T.; Marcolli, C.; Spichtinger, P.; Corti, T.; Baker, M.B.; Koop, T.;  | When dry air is too humid  | Science                    | 314, pp.1399-1402                    | 2006 | ETHZ/Bielefeld           |
| Pfeffer MA, Langmann B, Graf HF  | Atmospheric transport and deposition of Indonesian volcanic emissions  | Atmos. Chem. Phys.         | 6, 2525-2537                         | 2006 | MPG, UCAM                |
| Pissulla, D., G. Seckmeyer, R. Cordero, M. Blumthaler, B. Schallhart, A. Webb, R. Kift, A. Smedley, A.F. Bais, N. Kouremeti, A. Cede, J. Herman, and M. Kowalewski | Comparing different methods to derive spectral radiance as a function of incident and azimuth angle                        | Photochem. Photobiol. Sci. | 516-527 doi: 10.1039/b817018e        | 2009 | AUTH, UHAN, UIIMP, UMIST |

Refereed Literature

|   |  |                                |  |      |                                      |
|---|--|--------------------------------|--|------|--------------------------------------|
| Poschl, U., Rudich, Y., and Ammann, M.: Atmos. Chem. Phys., 2007.   | Kinetic model framework for aerosol and cloud surface chemistry and gas-particle interactions - Part 1: General equations, parameters, and terminology | Atmos. Chem. Phys.             | 7, 5989-6023,                          | 2007 | PSI                                  |
| Punge, H. J. , and M. A. Giorgetta  | Net effect of the QBO in a chemistry climate model   | Atmos. Chem. Phys.             | 6505-6525                              | 2008 | 30, MPG/MPIMET                       |
| Punge, H. J., and M. A. Giorgetta   | Differences between the QBO in the first and in the second half of the ERA-40 reanalysis   | Atmos. Chem. Phys.             | 6, 9259-9271                           | 2006 | MPIMET                               |
| Punge, H.J.; Konopka, P.; Giorgetta, M.A.; Müller, R.   | Effects of the quasi-biennial oscillation on low-latitude transport in the stratosphere as derived from model driven trajectory calculations           | J. Geophys. Res.               | 114, D03102 doi:10.1029/2008JD010518   | 2009 | FZJ, MPG                             |
| Pyle, J.A., P. Braesicke and G. Zeng  | Dynamical variability in the modelling of chemistry-climate interactions   | Faraday Discuss.               | DOI: 10.1039/b417947c, 27-39           | 2006 | UCAM                                 |
| Randel, W.J., K.P. Shine, J. Austin, J. Barnett, C. Claud, N.P. Gillett, P. Keckhut, U. Langematz, R. Lin, C. Long, C. Mears, A. Miller, J. Nash, D.J. Seidel, D.W.J. Thompson, F. Wu, and S. Yoden,  | An update of stratospheric temperature trends  | J. Geophys. Res.               | doi:10.1029/2008JD010421               | 2009 | CNRS                                 |
| Ren, C. and A.R. MacKenzie  | Cirrus parameterisation and the role of ice nuclei   | Q.J.R. Met. Soc.               | 131, 608, Part B, 1585-1605            | 2005 | ULANC                                |
| Ren, C., A. R. MacKenzie, C. Schiller, G. Shur, and V. Yushkov  | Diagnosis of processes controlling water vapour in the tropical tropopause layer by a Lagrangian cirrus model  | Atmos. Chem. Phys.             | 7, 5401-5413                           | 2007 | ULANC                                |
| Ren, C., and A. R. MacKenzie  | Closed-form approximations to the Error and Complementary Error Functions and their applications in atmospheric science                                | Atmos. Sci. Lett.              | doi: 10.1002/asl.154                   | 2007 | ULANC                                |
| Rex, M., Salawitch, R. J., Deckelmann, H., von der Gathen, P., Harris, N. R. P., Chipperfield, M. P., Naujokat, B., Reimer, E., Allaart, M., Andersen, S. B., Bevilacqua, R., Braathen, G. O., Claude, H., Davies, J., De Backer, H., Dier, H., Dorokov, V., Fast, H., Gerding, M., Hoppel, K., Johnson, B., Kyrö, E., Litynska, Z., Moore, D., Nagai, T., Parrondo, M. C., Risley, D., Skrivankova, P., Stübi, R., Treppe, C., Viatte, P., Zerefos, C. | Arctic winter 2005: Implications for stratospheric ozone loss and climate change   | Geophys. Res. Lett.            | 33, L23808, doi:10.1029/2006GL026731   | 2006 | AWI, UCAM, UNILEEDS, FUB, and others |
| Ricaud, P., D. Alexandre, B. Barret, E. Le Flochmoën, G. Berthet, F. Lefèvre, and D. Murtagh  | Measurements of mid-stratospheric formaldehyde from the Odin/SMR instrument  | J. Quant. Spectro. Rad. Trans. | doi:10.1016/j.jqsrt.2007.01.058        | 2007 | CNRS                                 |
| Rieder, H. E., Holawe, F., Simic, S., Blumthaler, M., Krzy_cin, J. W., Wagner, J. E., Schmalwieser, A. W., and Weihs, P.  | Reconstruction of erythemal UV-doses for two stations in Austria: a comparison between alpine and urban regions.                                       | ATMOS CHEM PHYS                | vol 8, 6309-6323                       | 2008 | IGAM                                 |
| Rivière, E., V. Marécal, S. Cautenet and N. Larsen  | Modelling study of the impact of deep convection on the UTLS air composition. Part II: ozone budget in the TTL   | Atmos. Chem. Phys.             | HIBISCUS SI, 6, 1585-1598              | 2006 | CNRS                                 |
| Robinson, A.D., G.A. Millard, F. Danis, M. Guirlet, N.R.P. Harris, A.M. Lee, J.D. McIntyre, J.A. Pyle, J. Arvelius, S. Dagnesjo, S. Kirkwood, H. Nilsson, D.W. Toohey, T. Deshler, F. Goutail, J-P. Pommereau, J.W. Elkins, F. Moore, E. Ray, U. Schmidt, A. Engel and M. Mueller   | Ozone Loss derived from balloon-borne tracer measurements in the 1999/2000 Arctic winter   | Atmos. Chem. Phys.             | 5, 1423-1436 1680-7324/acp/2005-5-1423 | 2005 | UCAM, UWAS, CNRS, HWGU               |

Refereed Literature

|  |   |                                |   |      |                      |
|--|---|--------------------------------|---|------|----------------------|
| Rösevall, J. ; Murtagh, D. P. ; Urban, J. et al.   | A study of ozone depletion in the 2004/2005 Arctic winter based on data from Odin/SMR and Aura/MLS                                  | J. Geophys. Res.               | 113 (D13301), doi:10.1029/2007JD009560    | 2008 | CHALM                |
| Rösevall, J. ; Murtagh, D. P. ; Urban, J.  | Ozone depletion in the 2006/2007 Arctic winter  | Geophys. Res. Lett.            | 34, L21809                                | 2007 | CHALM                |
| Schiller, C.; Krämer, M.; Afchine, A.; Spelten, N.; Sitnikov, N  | Ice water content of Arctic, midlatitude, and tropical cirrus'  | J. Geophys. Res.               | 113, D24208, 10.1029/2008JD010342         | 2008 | FZJ, CAO             |
| Schneider, M., F. Hase, T. Blumenstock   | Water vapour profiles by ground-based FTIR spectroscopy: study for an optimised retrieval and its validation                        | Atmos. Chem. Phys.             | 6, 811-830; 1680-7324/acp/2006-6-811      | 2006 | UNIKARL              |
| Schneider, M., F. Hase, T. Blumenstock   | Ground-based remote sensing of HDO/H <sub>2</sub> O ratio profiles: introduction and validation of an innovative retrieval approach | Atmos. Chem. Phys.             | 6, 4705-4722; 1680-7324/acp/2006-6-4705   | 2006 | UNIKARL              |
| Schofield, R., K. Frieler, I. Wohltmann, M. Rex, M. von Hobe, F. Stroh, G. Koch, T. Peter, T. Canty, R. Salawitch, C.M. Volk   | Polar Stratospheric Chlorine Kinetics from a Self-Match Flight during SOLVE-II/EUPLEX   | Geophys. Res. Lett.            | 35, L01807, doi:10.1029/2007GL031740      | 2008 | AWI, FZJ, ETHZ, JWGU |
| Schroeder, S. E.; Kullmann, A.*; Preusse, P.; Stroh, F.; Weigel, K.; Ern, M.; Knieling, P.*; Olschewski, F.*; Spang, R.; Riese, M.   | Radiance calibration of CRISTA-NF   | Adv. Space Sci.                | 1910 - 1917 doi:10.1016/j.asr.2009.03.009 | 2009 | FZJ, UWU             |
| Schroeder, S.; Preusse, P.; Ern, M.; Riese, M.   | Gravity waves resolved in ECMWF and measured by SABER   | Geophys. Res. Lett.            | L10805, 10.1029/2008GL037054              | 2009 | FZJ                  |
| Schulz, M., C. Textor, S. Kinne, Y. Balkanski, S. Bauer, T. Bernsten, T. Berglen, O. Boucher, F. Dentener, A. Grini, S. Guibert, T. Iversen, D. Koch, A.   | Radiative forcing by aerosols as derived from the AeroCom present-day and pre-industrial simulations                                | Atmos. Chem. Phys.             | SRef-ID: 1680-7324/acp/2006-6-5225        | 2006 | UIO                  |
| Seckmeyer G., Pissulla D., Glandorf M, Henriques D., Johnsen B., Webb A.R., Siani A-M, Bais A., Kjeldstad B., Brogniez C., Lenoble J., Gardiner B., Kirsch P., Koskela T., Kaurola J., Uhlmann B., Slaper H., Outer P., Janouch M., Werle P., Groebner J., Mayer B., Casiniere A., Simic S., Carvalho F. | Variability of UV irradiance in Europe  | Photochem. Photobiol.          | 84: 172–179                               | 2008 | UHAN                 |
| Seckmeyer G., Glandorf M., Wichers C., McKenzie R.L., Henriques D., Carvalho F., Webb A., Siani A.-M., Bais A., Kjeldstad B., Brogniez C., Werle P., Koskela T., Lakkala K., Gröbner J., Slaper H., denOuter P, Feister U.   | Europe's darker atmosphere in the UV-B  | Photochem. and Photobiol. Sci. | 7, 925–930                                | 2008 | UHAN                 |
| Segers, A., B. Bregman, P. Velthoven, M. Krol and E. Meijer  | Mass conservative computation of advective fluxes for tracer transport models   | Q.J.R. Met. Soc.               | 133, 1-21                                 | 2005 | KNMI                 |

Refereed Literature

|   |   |                     |                             |      |  |
|---|---|---------------------|-----------------------------|------|--|
| Senten, C., M. De Mazière, B. Dils, C. Hermans, M. Kruglanski, E. Neefs, F. Scolas, A. C. Vandaele, G. Vanhaelewyn, C. Vigouroux, M. Carleer, P. F. Coheur, S. Fally, B. Barret, J. L. Baray, R. Delmas, J. Leveau, J. M. Metzger, E. Mahieu, C. Boone, K. A. Walker, P. F. Bernath, and K. Strong  | Technical Note: Ground-based FTIR measurements at Ile de La Réunion: Observations, error analysis and comparisons with satellite data.                  | Atmos. Chem. Phys.  | 8, 3483-3508                | 2008 | BIRA-IASB, CNRS (LACy (Univ Reunion), Univ. Liège) |
| Shindell, D.T., G. Faluvegi, D.S. Stevenson, L.K. Emmons, J.-F. Lamarque, G. Pétron, F.J. Dentener, K. Ellingsen, M. Amann, C.S. Atherton, N. Bell, D.J. Bergmann, I. Bey, T. Butler, J. Cofala, W.J. Collins, R.G. Derwent, R.M. Doherty, J. Drevet, H.J. Eskes, A.M. Fiore, M. Gauss, D.A. Hauglustaine, L.W. Horowitz, I.S.A. Isaksen, M.C. Krol, M.G. Lawrence, V. Montanaro, J.-F. Muller, G. Pitari, M.J. Prather, J.A. Pyle, S. Rast, J.M. Rodriguez, M.G. Sanderson, N.H. Savage, M.G. Schultz, S.E. Strahan, K. Sudo, S. Szopa, T.P.C. van Noije, O. Wild, and G. Zeng | Multi-model simulations of carbon monoxide: Comparison with observations and projected near-future changes  | J. Geophys. Res.    | doi: 10.1029/2006JD007100   | 2006 | MPG, ULAQ, UCAM                                    |
| Simic, S., P. Weihs, A. Vacek, H. Kromp-Kolb, and M. Fitzka   | Spectral UV measurements in Austria from 1994 to 2006: investigations of short- and long-term changes .   | Atmos. Chem. Phys.  | vol 8, 7033-7043            | 2008 | IGAM   |
| Simoës, F., Berthelier, J.-J., Godefroy, M., Yahi, S.   | Observation and modeling of the Earth-ionosphere cavity electromagnetic transverse resonance and variation of the D-region electron density near sunset | Geophys. Res. Lett. | doi:10.1029/20re09 GL039286 | 2009 | CNRS   |
| Singleton, C.S., C. E. Randall, V. Harvey, M. P. Chipperfield, W. Feng, G. L. Manney, L. Froidevaux, C. Boone, P. Bernath, K. Walker, C. T. McElroy, K. Hoppel  | Quantifying Arctic ozone loss during the 2004-2005 winter using satellite observations and a chemical transport model                                   | J. Geophys. Res.    | doi:10.1029/2006JD007463.   | 2007 | ULEEDS   |
| Sinnhuber, B.M, N. Sheode, M. Sinnhuber, M.P. Chipperfield, W. Feng   | The contribution of anthropogenic bromine emissions to past stratospheric ozone trends: a modelling study   | Atmos. Chem. Phys.  | 2863-2871                   | 2009 | IUP-UB   |

Refereed Literature

|   |  |                                      |  |      |                                 |
|---|--|--------------------------------------|--|------|---------------------------------|
| Sinnhuber, B.-M., A. Rozanov, N. Sheode, O. T. Afe, A. Richter, M. Sinnhuber, F. Wittrock, J. P. Burrows, G. P. Stiller, T. von Clarmann, and A. Linden   | Global observations of stratospheric bromine monoxide from SCIAMACHY   | Geophys. Res. Lett.                  | doi:10.1029/2005GL023839                       | 2005 | IUP-UB, FZK                     |
| Sinnhuber, B.-M., and I. Folkins  | Estimating the contribution of bromoform to stratospheric bromine and its relation to dehydration in the tropical tropopause layer | Atmos. Chem. Phys.                   | 4755-4761                                      | 2006 | IUP-UB                          |
| Sinnhuber, B.-M., P. von der Gathen, M. Sinnhuber, M. Rex, G. König-Langlo, S. J. Oltmans   | Large decadal scale changes of polar ozone suggest solar influence   | Atmos. Chem. Phys.                   | 1835-1841                                      | 2006 | IUP-UB, AWI                     |
| Sioris, C.E., L. J. Kovalenko, C. A. McLinden, R. J. Salawitch, M. Van Roozendaal, F. Goutail, M. Dorf, K. Pfeilsticker, K. Chance, C. von Savigny, X. Liu, T. P. Kurosu, J.-P. Pommereau, H. Bösch, and J. Frerick | Latitudinal and vertical distribution of bromine monoxide in the lower stratosphere from SCIAMACHY limb scattering measurements    | J. Geophys. Res.                     | 111 (D14), D14301, doi:10.1029/2005JD006479    | 2006 | SAO, CNRS-SA, IUP-HD, BIRA-IASB |
| Sitnikov, N. M., V. A. Yushkov, A. A. Afchine, L. I. Korshunov, V. I. Astakhov, A. E. Ulanovskii, M. Kraemer, A. Mangold, C. Schiller, and F. Ravegnani   | The FLASH instrument for water vapor measurements on board the high-altitude airplane  | Russ. J. Instr. Experim. Tech.       | 50,1, 113-121                                  | 2007 | CAO, FZJ                        |
| Søvde, O. A., M. Gauss, S. P. Smyshlyaev, and I. S. A. Isaksen  | Evaluation of the chemical transport model Oslo CTM2 with focus on arctic winter ozone depletion                                   | J. Geophys. Res.                     | doi:10.1029/2007JD009240                       | 2008 | UiO                             |
| Spang, R.; Hoffmann, L.; Kullmann, A.; Olschewski, F.*; Preusse, P.; Knieling, P.*; Schroeder, S.; Stroh, F.; Weigel, K.; Riese, M.   | High resolution limb observations of clouds by the CRISTA-NF experiment during the SCOUT-O3 tropical aircraft campaign             | Adv. Space Sci.                      | 42, 1765 - 1775, doi:10.1016/j.asr.2007.09.036 | 2008 | FZJ, UWU                        |
| Stefanutti, L., A.R. MacKenzie, A. Alfaro Martínez, S. Balestri, R. Azzolini, F. Ravegnani, A. Petritoli, I. Kostadinov, C.E. Blom, T. Gulde, A. Lengel, C. Piesch, C. Keim, G.Y. Liu, A. Ebersoldt                 | ENVISAT tropical validation  | Atti della Fondazione Giorgio Ronchi | 62, 6, 857-881                                 | 2007 | ULANC                           |
| Steinbrecht, W., B. Haßler, C. Brühl, M. Dameris, M.A. Giorgetta, V. Grewe, E. Manzini, S. Matthes, C. Schnadt, B. Steil, and P. Winkler  | Interannual variation patterns of total ozone and lower stratospheric temperature in observations and model simulations            | Atmos. Chem. Phys.                   | 6, 349-374                                     | 2006 | DLR, MPIM, MPIC                 |
| Steinwagner, J., M. Milz, T. von Clarmann, N. Glatthor, U. Grabowski, M. Höpfner, G. P. Stiller, and T. Röckmann  | HDO measurements with MIPAS  | Atmos. Chem. Phys.                   | 7, 2601-2615                                   | 2007 | UNIKARL, MPG                    |
| Stenchikov, G., K. Hamilton, R. J. Stouffer, A. Robock, V. Ramaswamy, B. Santer, and Hans-F. Graf   | Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models   | Atmos. Chem. Phys.                   | 111, D07107, doi:10.1029/2005JD006286          | 2006 | UCAM                            |
| Stenchikov, G., K. Hamilton, R. J. Stouffer, A. Robock, V. Ramaswamy, B. Santer, and Hans-F. Graf   | Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models   | J. Geophys. Res.,                    | 111, D07107, doi:10.1029/2005JD006286.         | 2006 | UCAM                            |

Refereed Literature

|   |  |  |                                   |      |                    |
|---|--|--|-----------------------------------|------|--------------------|
| Stenke, A., M. Dameris, V. Grewe, and H. Garny  | Implications of Lagrangian transport for simulations with a coupled chemistry-climate model  | Atmos. Chem. Phys.   | 5489-5504                         | 2009 | DLR                |
| Stevenson, D.S., F.J. Dentener, M. Schultz, K. Ellingsen, T. van Noije, G. Zeng, M. Amann, C. Atherton, N. Bell, D. Bergmann, I. Bey, T. Butler, J. Cofala, W.J. Collins, R.G. Derwent, R.M. Doherty, J. Drevet, H. Eskes, A. Fiore, M. Gauss, D. Hauglustaine, L. Horowitz, I. Isaksen, M. Krol, J.F. Lamarque, M. Lawrence, V. Montanaro, J.F. Müller, G. Pitari, M.J. Prather, J. Pyle, S. Rast, J. Rodriguez, M. Sanderson, N. Savage, D. Shindell, S. Strahan, K. Sudo, S. Szopa, O. Wild  | Multi-model ensemble simulations of present-day and near-future tropospheric ozone   | J. Geophys. Res.   | doi: 10.1029/2005JD006338         | 2006 | MPG, UCAM, ULAQ    |
| Stick, C., K.Krüger, N.H.Schade, H.Sandmann, A. Macke   | Episode of unusual high solar ultraviolet radiation over central Europe due to dynamical reduced total ozone in May 2005.                          | Atmos. Chem. Phys.   | 6, 1771-1776                      | 2006 | FUB                |
| Stiller, G.P., T. von Clarmann, M. Höpfner, N. Glatthor, U. Grabowski, S. Kellmann, A. Kleinert, A. Linden, M. Milz, T. Reddmann, T. Steck, H. Fischer, B. Funke, M. López-Puertas and A. Engel   | Global distribution of mean age of stratospheric air from MIPAS SF6 measurements   | Atmos. Chem. Phys.   | 8, 677-695                        | 2008 | UNIKARL            |
| Strong, K., M. A. Wolff, T. E. Kerzenmacher, K. A. Walker, P. F. Bernath, T. Blumenstock, C. Boone, V. Catoire, M. Coffey, M. De Mazière, P. Demoulin, P. Duchatelet, E. Dupuy, J. Hannigan, M. Höpfner, N. Glatthor, D. W. T. Griffith, J. J. Jin, N. Jones, K. Jucks, H. Kuellmann, J. Kuttippurath, A. Lambert, E. Mahieu, J. C. McConnell, J. Mellqvist, S. Mikuteit, D. P. Murtagh, J. Notholt, C. Piccolo, P. Raspollini, M. Ridolfii, C. Robert, M. Schneider, O. Schrems, K. Semeniuk, C. Senten, G. P. Stiller, A. Strandberg, J. Taylor, C. Tétard, M. Toohy, J. Urban, T. Warneke, and S. Wood | Validation of ACE-FTS N2O measurements   | Atmos. Chem. Phys. Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)' | 8, 4759-4786                      | 2008 | BIRA-IASB, UNIKARL |
| Suortti, T.M., A. Kats, R. Kivi, N. Kämpfer, U. Leiterer, L.M. Miloshevich, R. Neuber, A. Paukkunen, P. Ruppert, H. Vömel, and V. Yushkov   | Tropospheric Comparisons of Vaisala Radiosondes and Balloon-Borne Frost-Point and Lyman- $\alpha$ Hygrometers during the LAUTLOS-WAVVAP Experiment | J. Atm Oc. Techn.  | 149-166                           | 2008 | FMI, AWI, CAO, DWD |
| Tegtmeier, S., K. Krueger, I. Wohltmann, K. Schoellhammer, M. Rex   | Variations of the residual circulation in the Northern Hemispheric Winter  | J. Geophys. Res.   | 113, D16109, 10.1029/2007JD009518 | 2008 | AWI                |

Refereed Literature

|   |  |                     |  |      |                                      |
|---|--|---------------------|--|------|--------------------------------------|
| Tegtmeier, S., Rex, M., Wohltmann, I, Krueger, K.   | Relative importance of dynamical and chemical contributions to Arctic wintertime ozone   | Geophys. Res. Lett. | 35, L17801, 10/1029/2008GL034250           | 2008 | AWI                                  |
| Telford, P., P. Braesicke, O. Morgenstern, J. Pyle  | Reassessment of causes of ozone column variability following the eruption of Mount Pinatubo using a nudged CCM   | Atm. Chem. Phys.    | 9, 4251–4260                               | 2009 | UCAM                                 |
| Textor et al.   | The effect of harmonized emissions on aerosol properties in global models – an AeroCom experiment  | Atm. Chem. Phys.    | 7, 4489-4501                               | 2007 | ULAQ.DF                              |
| Textor, C., H.-F. Graf, A. Longo, A. Neri, T.E. Ongaro, P. Papale, C. Timmreck, and G.G.J. Ernst  | Numerical simulation of explosive volcanic eruptions from the conduit flow to global atmospheric effects   | Ann. Geophys.       | 48, 4/5, 817-842                           | 2005 | ULAQ                                 |
| Textor, C., M. Schulz, S. Guibert, S. Kinne, Y. Balkanski, S. Bauer, T. Berntsen, T. Berglen, O. Boucher, M. Chin, F. Dentener, T. Diehl, H. Feichter, D. Fillmore, S. Ghan, P. Ginoux, S. Gong, A. Grini, J. Hendricks, L. Horowitz, I. Isaksen, T. Iversen, D. Koch, M. Krol, A. Lauer, J.F. Lamarque, X. Liu, V. Montanaro, G. Myhre, J. Penner, G. Pitari, S. Reddy, O. Seland, P. Stier, T. Takemura, X. Tie | Analysis and quantification of the diversities of aerosol life cycles within AEROCOM   | Atmos. Chem. Phys.  | SRef-ID: 1680-7324/acp/2006-6-1777         | 2006 | ULAQ                                 |
| Theys, N., M. Van Roozendaal, Q. Errera, F. Hendrick, F. Daerden, S. Chabrilat, M. Dorf, K. Pfeilsticker, A. Rozanov, W. Lotz, J. P. Burrows, J.-C. Lambert, F. Goutail, H. K. Roscoe, and M. De Mazière.   | A global stratospheric bromine monoxide climatology based on the BASCOE chemical transport model   | Atmos. Chem. Phys.  | 9, 831–848                                 | 2009 | BIRA-IASB, IUP-UB, CNRS, IUP-HD      |
| Theys, N., M. Van Roozendaal, F. Hendrick, C. Fayt, C. Hermans, J.-L. Baray, F. Goutail, J.-P. Pommereau and M. De Mazière  | Retrieval of stratospheric and tropospheric BrO columns from multi-axis DOAS measurements at Reunion Island (21°S, 56°E)                                     | Atmos. Chem. Phys.  | 7, 4733-4749                               | 2007 | BIRA-IASB, LACy (Univ Reunion), CNRS |
| Thomas, M. A., M. Giorgetta, C. Timmreck, H. Graf, and G. Stenchikov  | Simulation of the climate impact of Mt. Pinatubo eruption using ECHAM5 – Part 2: Sensitivity to the phase of the QBO and ENSO                                | Atm. Chem. Phys.    | 9, 3001-3009                               | 2009 | UCAM                                 |
| Thomas, M. A., C. Timmreck, M. Giorgetta, H. Graf, and G. Stenchikov  | Simulation of the climate impact of Mt. Pinatubo eruption using ECHAM5 – Part 1: Sensitivity to the modes of atmospheric circulation and boundary conditions | Atm. Chem. Phys.    | 9, 757-769                                 | 2009 | UCAM                                 |
| Tian, W. and M.P. Chipperfield  | Stratospheric water vapor trends in a coupled chemistry-climate model  | Geophys. Res. Lett. | 33, L06819, doi:10.1029/2005GL024675, 2006 | 2006 | ULEEDS                               |
| Timmreck, C. and H.-F. Graf   | The initial dispersal and radiative forcing of a Northern Hemisphere mid-latitude super volcano: a model study   | Atmos. Chem. Phys.  | 35-49                                      | 2005 | MPG, UCAM                            |

Refereed Literature

|   |   |                             |  |      |                           |
|---|---|-----------------------------|--|------|---------------------------|
| Tourpali, K., A.F. Bais, A. Kazantzidis, C.S. Zerefos, H. Akiyoshi, J. Austin, C. Brühl, N. Butchart, M.P. Chipperfield, M. Dameris, M. Deushi, V. Eyring, M.A. Giorgetta, D.E. Kinnison, E. Mancini, D.R. Marsh, T. Nagashima, G. Pitari, D.A. Plummer, E. Rozanov, K. Shibata, and W. Tian  | Clear sky UV simulations for the 21st century based on ozone and temperature projections from Chemistry-Climate Models  | Atmos. Chem. Phys.          | 1165-1172                                      | 2009 | all SCOUT CCM groups      |
| Tourpali, K., C.S. Zerefos, D. Balis, and A.F. Bais   | The 11-year solar cycle in stratospheric ozone: Comparison between Umkehr and SBUVv8 and effects on surface erythemal irradiance                              | J. Geophys. Res.            | 112, D12306, doi:10.1029/2006JD007760          | 2006 | AUTH, NKUA                |
| Tripathi, O. P., S. Godin-Beekmann, F. Lefèvre, A. Pazmiño, A. Hauchecorne, M. Chipperfield, G. Millard, M. Rex, M. Streibel, P. von der Gathen   | Comparison of polar ozone loss rates simulated by one-dimensional and three-dimensional models with Match observations in recent Antarctic and Arctic winters | J. Geophys. Res.            | 112, D12307, doi:10.1029/2006JD008370          | 2007 | CNRS                      |
| Tripathi, O. P., S. Godin-Beekmann, F. Lefèvre, M. Marchand, A. Pazmiño, A. Hauchecorne, F. Goutail, H. Schlager, C. M. Volk, B. Johnson, G. König-Langlo, S. Balestri, F. Stroh, T. P. Bui, H. J. Jost, T. Deshler, and P. von der Gathen  | High resolution simulation of recent Arctic and Antarctic stratospheric chemical ozone loss compared to observations  | J. Atm. Chem.               | doi : 10.1007/s10874-006-9028-8                | 2006 | CNRS                      |
| Tupper, A., Christiane Textor, Michael Herzog, Hans-F. Graf, Michael S. Richards  | Tall clouds from small eruptions: modelling the sensitivity of eruption height and fine ash fallout to tropospheric instability                               | Nat Hazards                 | DOI 10.1007/s11069-009-9433-9                  | 2009 | UCAM                      |
| Urban, J., M. Pommier, D.P. Murtagh, M. Santee, and Y. Orsolini   | Nitric acid in the stratosphere based on Odin observations from 2001 to 2009 -- Part 1: A global climatology  | Atmos. Chem. Phys.          | accepted                                       | 2009 | CHALM                     |
| Urban, J.; Lautié, N.; Murtagh, D. P. et al.  | Global observations of middle atmospheric water vapour by the Odin satellite: An overview.  | Planetary and Space Science | 55 (9), 1093-1102                              | 2007 | CHALM                     |
| Urban, J., N. Lautie, C. Jimenez, E. Le Flochmoen, E. Dupuy, P. Eriksson, U. Frisk, D. Murtagh, J. De La Noe, M. Olberg, P. Ricaud  | Odin/SMR limb observations of stratospheric trace gases: Level-2 processing of ClO, N <sub>2</sub> O, O <sub>3</sub> , and HNO <sub>3</sub>                   | J. Geophys. Res.            | Vol. 110, No. D14307, doi=10.1029/2004JD005741 | 2005 | CHALM                     |
| Urban, J., N. Lautie, E. Le Flochmoen, C. Jimenez, P. Eriksson, J. de La Noe, E. Dupuy, L. El Amraoui, U. Frisk, F. Jegou, D. Murtagh, M. Olberg, P. Ricaud, C. Camy-Peyret, G. Dufour, S. Payan, N. Huret, M. Pirre, A.D. Robinson, N.R.P. Harris, H. Bremer, A. Kleinbohl, K. Kullmann, K. Kunzi, J. Kuttippurath, M. Ejiri, H. Nakajima, Y. Sasano, T. Sugita, T. Yokota, C. Piccolo, P. Raspollini and M. Ridolfi | Odin/SMR Limb Observations of Stratospheric Trace Gases: Validation of N <sub>2</sub> O   | J. Geophys. Res.            | Vol. 110, No. D09301, doi:10.1029/2004JD005394 | 2005 | CHALM, CNRS, UCAM, IUP-UB |

Refereed Literature

|   |  |                         |  |      |                             |
|---|--|-------------------------|--|------|-----------------------------|
| Van Noije, T.P.C., H.J. Eskes, F.J. Dentener, D. S. Stevenson, K. Ellingsen, M. G. Schultz, O. Wild, M. Amann, C.S. Atherton, D.J. Bergmann, I. Bey, K.F. Boersma, T. Butler, J. Cofala, J. Drevet, A.M. Fiore, M. Gauss, D.A. Hauglustaine, L.W. Horowitz, I.S.A. Isaksen, M.C. Krol, J.-F. Lamarque, M.G. Lawrence, R.V. Martin, V. Montanaro, J.-F. Müller, G. Pitari, M.J. Prather, J.A. Pyle, A. Richter, J.M. Rodriguez, N. H. Savage, S.E. Strahan, K. Sudo, S. Szopa, and M. van Roozendaal | Multi-model ensemble simulations of tropospheric NO <sub>2</sub> compared with GOME retrievals for the year 2000   | Atmos. Chem. Phys.      | SRef-ID: 1680-7324/acp/2006-6-2943                   | 2006 | MPG, UCAM, ULAQ, IUP-UB     |
| Van Noije, T.P.C., H.J. Eskes, M. van Weele and P.F.J. van Velthoven  | Implications of the enhanced Brewer-Dobson circulation in ECMWF reanalysis ERA-40 for the stratosphere-troposphere exchange of ozone in global chemistry transport models. | J. Geophys. Res.        | 109, D19308, doi:10.1029/2004JD004586                | 2004 | KNMI                        |
| Vaughan, G., C. Schiller, A.R. MacKenzie, K. Bower, T. Peter, H. Schlager, N.R.P. Harris and P.T. May   | SCOUT-O3 /ACTIVE: High-altitude aircraft measurements around deep tropical convection  | Bull. Am. Met. Soc.     | 89, 5, 647-662, 10.1175/BAMS-89-5-647                | 2008 | FZJ, ETHZ, ULANC, UCAM, DLR |
| Vernier J.P., Pommereau J. P., Garnier A., Pelon J., Larsen N., Nielsen J., Christensen T., Cairo F., Thomasson L. W., Leblanc T., McDermid I. S.   | Troposphere stratosphere transport in the tropics from CALIOP lidar aerosols measurements  | J. Geophys. Res.        | in press   | 2009 | CNRS, DMI, CNR,             |
| Viciani, S., F. D'Amato, P. Mazzinghi, F. Castagnoli, G. Toci, and P. Werle   | A cryogenic operated diode-laser spectrometer for airborne measurement of stratospheric trace gases  | Appl. Phys. B.          | Vol. 90 Pag. 581-592<br>DOI10.1007/s00340-007-2885-2 | 2008 | CNR, FZK                    |
| Vogel B., W. Feng, M. Streibel, and R. Müller   | The potential impact of ClOx radical complexes on polar stratospheric ozone loss processes   | Atmos. Chem. Phys.      | 3099-3114  | 2007 | UNIKARL                     |
| Voigt, C., H. Schlager, A. Roiger, A. Stenke, M. de Reus, S. Borrmann, E. Jensen, C. Schiller, P. Konopka and N. Sitnikov   | Detection of reactive nitrogen containing particles in the tropopause region – evidence for a tropical nitric acid trihydrate (NAT) belt.                                  | Atmos. Chem. Phys.      | 8, 7421-7430   | 2008 | DLR, FZJ, IPA, UMZ, STM     |
| Voigt, C., Kärcher, B., Schlager, H., Schiller, C., Krämer, M., de Reus, M., Vössing, H., Borrmann, S., and Mitev, V.   | In-situ observations and modeling of small nitric acid-containing ice crystals   | Atmos. Chem. Phys.      | 7, 3373-3383   | 2007 | DLR                         |
| Voigt, C., Schlager, H., Ziereis, H., Kärcher, B., Luo, B. P., Schiller, C., Krämer, M., Popp, P. J., Irie, H., and Kondo, Y.   | Nitric acid in cirrus clouds   | Geophys. Res. Lett.     | 33, L05803,<br>doi:10.1029/2005GL025159              | 2006 | DLR, MPG, FZJ               |
| von Clarmann, T., N. Glatthor, M.E. Koukoulis, G.P. Stiller, B. Funke, U. Grabowski, M. Höpfner, S. Kellmann, A.  | MIPAS measurements of upper tropospheric C <sub>2</sub> H <sub>6</sub> and O <sub>3</sub> during the southern hemispheric biomass burning season in 2003                   | Atmos. Chem. Phys.      | 7, 5861-5872   | 2007 | UNIKARL                     |
| von Hessberg, P., N. Pouvesle, A.K. Winkler, G. Schuster and J.N. Crowley   | Interaction of formic and acetic acid with ice surfaces between 187 and 227 K. Investigation of single species- and competitive adsorption.                                | Phys. Chem. Chem. Phys. | 10, 2345-2355  | 2008 | MPIC                        |
| von Hobe, M.; Strohm, F.; Beckers, H.*; Benter, T.*; Willner, H.  | The UV/Vis absorption spectrum of matrix isolated dichlorine peroxide, ClOOCI  | Phys. Chem. Chem. Phys. | 114, 1571 - 1580, doi:10.1039/B814373K               | 2009 | FZJ, UWU                    |
| von Hobe, M.  | Revisiting ozone depletion   | Science                 | 1878 - 1879<br>doi: 10.1126/science.1151597          | 2007 | FZJ                         |

Refereed Literature

|  |  |                     |   |      |                       |
|--|--|---------------------|---|------|-----------------------|
| von Hobe, M., A. Ulanovsky, C.M. Volk, J.-U. Groöf, S. Tilmes, P. Konopka, G. Günther, A. Werner, N. Spelten, G. Shur,   | Severe ozone depletion in the cold Arctic winter   | Geophys. Res. Lett. | 33, L17815, doi:10.1029/2006/GL026945         | 2007 | FZJ, CAO, UFRA, CNR   |
| von Hobe, M., R.J. Salawitch, T. Canty, H. Keller-Rudek, G. Moortgat, J.-U. Grooss, R. Muller, and F. Stroh  | Understanding the kinetics of the ClO dimer cycle  | Atmos. Chem. Phys.  | 3055-3069, (2007)                             | 2007 | FZJ                   |
| Wagner, T., J. P. Burrows, T. Deutschmann, B. Dix, C. von Friedeburg, U. Friess, F. Hendrick, K.-P. Heue, H. Irie, H. Iwabuchi, Y. Kanaya, J. Keller, C. A. Mc Linden, H. Oetjen, E. Palazzi, A. Petritoli, U. Platt, O. Postlyakov, J. Pukite, A. Richter, M. Van Roozendael, A. Rozanov, R. Sinreich, S. Sanghavi, and F. Wittrock | Comparison of box-air-mass-factors and radiances for multiple-axis differential optical absorption spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models | Atmos. Chem. Phys.  | 7, 1809-1833                                  | 2007 | IUP-HD, IUP-UB        |
| Wagner, R., Benz, S., Möhler, O., Saathoff, H., Schurath, U.   | Probing ice clouds by broadband mid-infrared extinction spectroscopy: case studies from ice nucleation experiments in the AIDA aerosol and cloud chamber   | Atmos. Chem. Phys.  | 4775-4800                                     | 2006 | UNIKARL               |
| Walter, K. and H.-F. Graf  | Life cycles of the North Atlantic Teleconnections under strong and weak polar vortex conditions  | Q.J.R. Met. Soc.    | 132(615), 467-483 (PtB), DOI:10.1256/qj.05.25 | 2006 | MPG                   |
| Walter, K. and H.-F. Graf  | The North Atlantic variability structure, storm tracks, and precipitation depending on the polar vortex strength   | Atmos. Chem. Phys.  | 5, 239-248, SRef-ID:1680-7324/acp/2005-5-239  | 2005 | MPG                   |
| Weigel, R., M. Hermann, J. Curtius, C. Voigt, S. Walter, T. Böttger, B. Lepukhov, G. Belyaev and S. Borrmann   | Experimental characterization of the CONDensation PArticle counting System for high altitude aircraft borne application  | Atmos. Meas. Tech.  | 2, 243-258                                    | 2009 | IPA-UMZ               |
| Wetzel, G., A. Bracher, B. Funke, F. Goutail, F. Hendrick, J.-C. Lambert, S. Mikutelt, C. Piccolo, M. Pirre, A. Bazureau, C. Belotti, T. Blumenstock, M. De Mazière, H. Fisher, D. Ionov, M. López-Puertas, G. Maucher, H. Oelhaf, J.-P. Pommereau, R. Ruhuke, M. Sinnhuber, G. Stiller, M. Van Roozendael, and G. Zhang             | Validation of MIPAS-ENVISAT NO2 operational data   | Atmos. Chem. Phys.  | 7, 333-3395                                   | 2007 | UNIKARL, IUP-UB, CNRS |
| Williams, J.E., J. Landgraf, A. Bregman en H.H. Waite  | A modified band approach for the accurate calculation of online photolysis rates in stratospheric-tropospheric Chemical Transport Models   | Atmos. Chem. Phys.  | 4137-4161                                     | 2006 | KNMI                  |
| Wohlmann, I., and M. Rex   | Improvement of vertical and residual velocities in pressure or hybrid sigma-pressure coordinates in analysis data in the stratosphere  | Atmos. Chem. Phys.  | 8, 265-272                                    | 2008 |                       |
| Wohlmann, I., R. Lehmann, M. Rex, D. Brunner, J. A. Maeder   | A process-oriented regression model for column ozone   | J. Geophys. Res.    | 112, D12304, 10.1029/2006JD007573             | 2007 | ETHZ                  |
| Wohlmann, I., M. Rex, D. Brunner, J. Maeder  | Integrated equivalent latitude as a proxy for dynamical changes in ozone column  | Geophys. Res. Lett. | 32, 10.1029/2005GL022497                      | 2005 | AWI, ETHZ             |

Refereed Literature

|   |  |  |  |      |                                 |
|---|--|--|--|------|---------------------------------|
| Wolff, M.A., T. Kerzenmacher, K. Strong, K., A. Walker, M. Toohey, E. Dupuy, P. F. Bernath, C. D. Boone, S. Brohede, V. Catoire, T. von Clarmann, M. Coffey, W. H. Daffer, M. De Mazière, P. Duchatelet, N. Glatthor, D. W. T. Griffith, J. Hannigan, F. Hase, M. Höpfner, N. Huret, N. Jones, K. Jucks, A. Kagawa, Y. Kasai, I. Kramer, H. Küllmann, J. Kuttippurath, E. Mahieu, G. Manney, C. McLinden, Y. Mébarki, S. Mikuteit, D. Murtagh, C. Piccolo, P. Raspollini, M. Ridolfi, R. Ruhnke, M. Santee, C. Senten, D. Smale, C. Tétard, J. Urban, and S. Wood | Validation of HNO <sub>3</sub> , ClONO <sub>2</sub> , and N <sub>2</sub> O <sub>5</sub> from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS) | Atmos. Chem. Phys. Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)' | 8, 3529-3562                                       | 2008 | BIRA-IASB, CNRS, UNIKARL, CHALM |
| Worton, D.R., G.P. Mills, D.E. Oram, W.T. Sturges   | Gas chromatography negative ion chemical ionization mass spectrometry: Application to the detection of alkyl nitrates and halocarbons in the atmosphere                    | J. Chromatography A.   | 1201, 112-119                                      | 2008 | UEA                             |
| Wuttke S., Bernhard G., Ehranjian J., McKenzie R., Johnston P., O'Neil M., Seckmeyer G.   | New spectroradiometers complying with NDSC standards   | J. Atm Oc. Techn.  | 23(2), 241-251                                     | 2006 | UHAN                            |
| Wuttke S., G. Seckmeyer, G. Koenig-Langlo   | Measurements of spectral snow albedo at Neumayer   | Ann. Geophys.  | 24, 7-21   | 2006 | UHAN                            |
| Yuchechen, A. E., S. A. Bischoff, P.O. Canziani   | Variabilidad de perturbaciones espaciales y temporales de 500 hPa para sistemas tropicales y extratropicales de Sudamérica   | Geoacta  | 32, 1-17   | 2007 | UCA                             |
| Zelinger, Z., B. Barret, P. Kubat, P. Ricaud, J.-L. Attié, E. Le Flochmoën, J. Urban, D. Murtagh, and M. Strizik  | Observation of HD <sub>18</sub> O, CH <sub>3</sub> OH and vibrationally-excited N <sub>2</sub> O from Odin/SMR measurements  | Mol. Phys.   | 104, 16-17, 2815 – 2820, 10.1080/00268970600875380 | 2006 | CNRS, CHALM                     |
| Zerefos, C.S., K. Eleftheratos, C. Meleti, S. Kazadzis, A. Romanou, C. Ichoku, G. Tselioudis, and A. Bais   | Solar dimming and brightening over Thessaloniki, Greece, and Beijing, China  | Tellus B.  | doi:10.1111/j.1600-0889.2009.00425.x               | 2009 | AUTH, NKUA                      |
| Zhong, W., R. J. Hogan, and J. D. Haigh   | Three-dimensional radiative transfer in midlatitude cirrus clouds  | Q.J.R. Met. Soc.   | 134, 199-215                                       | 2008 | ICSTM                           |
| Zobrist, B., C. Marcolli, D. A. Pedernera and T.Koop  | Do atmospheric aerosols from glasses?  | Atmos. Chem. Phys.   | 8, 5221–5244                                       | 2009 | ETH                             |
| Zobrist, Z., C. Marcolli, T. Peter, T. Koop   | Heterogeneous Ice Nucleation in Aqueous Solutions: the Role of Water Activity  | J. Phys. Chem. A   | 112, 3965-3975                                     | 2008 | ETHZ, UNIBI                     |
| Zobrist B., Koop T., Luo B.P, Marcolli C. and Peter T.  | Heterogeneous ice nucleation rate coefficient of water droplets coated by a nonadecanol monolayer  | J. Phys. Chem. C   | 111, 2149-2155                                     | 2007 | ETHZ, UNIBI                     |
| Zobrist B., Marcolli C., Koop T., Luo B.P, Murphy D.M., Lohmann U., Zardini A.A., Krieger U.K., Corti T., Cziczo D.J., Fueglistaler S., Hudson P.K., Thomson D.S., and Peter T.   | Oxalic acid as heterogeneous ice nucleus in the upper troposphere and its indirect effect  | Atmos. Chem. Phys.   | 6, 3115-3129                                       | 2006 | ETHZ, UNIBI                     |

## SCOUT-O3 Related Dissemination

## Submitted Refereed Literature

| Author(s) / Editor(s)  | Title   | Page        | Journal                                   | Date/Year | Partner(s)         |
|--|---|-------------|---|-----------|--------------------|
| Aschmann, J., B.-M. Sinnhuber, E. L. Atlas, S. M. Schauffler   | Modeling the transport of very short-lived substances into the tropical upper troposphere and lower stratosphere  | 18511-18543 | Atmos. Chem. Phys. Discuss., 9            | 2009      | Ubremen            |
| Balis, D., E. Giannakaki, D. Müller, V. Amiridis, K. Kelektoglou, S. Rapsomanikis and A. Bais  | Estimation of the microphysical aerosol properties over Thessaloniki, Greece, during the SCOUT-O3 campaign with the synergy of Raman lidar and sunphotometer data |             | JGR                                       | 2009      | AUTH, DUTH         |
| Borrmann, S., D. Kunkel, R. Weigel, A. Minikin, T. Deshler, J. C. Wilson, J. Curtius, N. M. Sitnikov, F. Ravagnani, K. A. Law, and F. Cairo  | Aerosols in the tropical and subtropical UT/LS: In-situ measurements of ultrafine particle abundance and volatility   |             | Atmos. Chem. Phys. SCOUT-O3 SPECIAL ISSUE | 2009      | 26,30,14,04,08,05, |
| Butchart, N., I. Cionni, V. Eyring, D.W. Waugh, H. Akiyoshi, J. Austin, C. Bruehl, M.P. Chipperfield, E. Cordero, M. Dameris, R. Deckert, S.M. Frith, R.R. Garcia, A. Gettelman, M.A. Giorgetta, D.E. Kinnison, F. Li, E. Mancini, E. Manzini, C. McLandress, S. Pawson, G. Pitari, E. Rozanov, F. Sassi, T.G. Shepherd, K. Shibata, and W. Tian | Chemistry-climate model simulations of 21st century stratospheric climate and circulation changes   |             | J. Clim.                                  | 2009      | UKMO, MPG....      |
| Cagnazzo C., E. Manzini, N. Calvo, A. Douglass, H. Akiyoshi, S. Bekki, M. Chipperfield, M. Dameris, M. Deushi, A. Fischer, H. Garny, A. Gettelman, M. A. Giorgetta, D. Plummer, E. Rozanov, T. G. Shepherd, K. Shibata, A. Stenke, H. Struthers and W. Tian  | Northern winter stratospheric temperature and ozone responses to ENSO inferred from an ensemble of Chemistry Climate Models                                       | 12141-12170 | Atmos. Chem. Phys. Discuss.               | 2009      | INGV               |

Submitted Refereed Literature

|  |  |                             |                                 |      |                               |
|--|--|-----------------------------|---------------------------------|------|-------------------------------|
| Cairo F., J. P. Pommereau, K. S. Law, H. Schlager, A. Garnier, F. Fierli, M. Ern, M. Streibel, S. Arabas, J.J. Berthelier, S. Borrmann, C. Blom, T. Christensen, F. D'Amato, G. Di Donfrancesco, T. Deshler, A. Diedhiou, G. Durry, O. Engelsen, F. Goutail, N.R.P. Harris, E.R.T. Kerstel, S. Khaykin, P. Konopka, A. Kylling, N. Larsen, T. Lebel, X. Liu, A.R. MacKenzie, J. Nielsen, A. Oulanowski, D.J. Parker, J. Pelon, J. Polcher, J. A. Pyle, F. Ravegnani, E.D. Riviere, A.D. Robinson, T. Rockmann, C. Schiller, P. Siegmund, F. Simoes, N. Sitnikov, L. Some, L. Stefanutti, F. Stroh, J. P. Vernier, C.M. Volk, C. Voigt, M. von Hobe, S. Viciani, V. Yushkov | An overview of the SCOUT-O3-AMMA stratospheric aircraft, balloons and sondes campaign in West Africa, August 2006 : rationale, roadmap and highlights                  | 9, 19713-19781              | Atmos. Chem. Phys. Discuss.     | 2009 | All SCOUT-O3-AMMA partners    |
| de Reus, M., S. Borrmann, A. J. Heymsfield, R. Weigel, C. Schiller, V. Mitev, W. Frey, D. Kunkel, A. Kürten, J. Curtius, N. M. Sitnikov, A. Ulanovsky, and F. Ravegnani  | Evidence for ice particles in the tropical stratosphere from in-situ measurements  |                             | Atmos. Chem. Phys. Discuss.     | 2009 | 26,30,59,60,36,20, 04,08, MDB |
| Duchatelet, P., E. Mahieu, R. Ruhnke, W. Feng, M. Chipperfield, P. Demoulin, P. Bernath, C. D. Boone, and K. A. Walker   | An approach to retrieve information on the carbonyl fluoride (COF <sub>2</sub> ) vertical distributions above Jungfraujoch by FTIR multi-spectrum multi-window fitting | 3167-3205                   | Atmos. Chem. Phys. Discuss.     | 2009 |                               |
| Ern, M.; Cho, H.-K.*; Preusse, P.; Eckermann, S.D.*  | Properties of the average distribution of equatorial Kelvin waves investigated by ray tracing techniques   | 9, 13039 - 13091            | Atmos. Chem. Phys. Discuss.     | 2009 | FZJ                           |
| Gottelman, A., T. Birner, V. Eyering, H. Akiyoshi, D.A. Plummer, M. Dameris, A. Stenke, F. Lefevre, F. Lott, C. Bruhl, K. Shibata, E. Rozanov, E. Mancini, G. Pitari, H. Struthers, W. Tian, and D.E. Kinnison   | The tropical tropopause layer 1960-2100  | 8, 1367-1413                | Atmos. Chem. Phys. Discuss.     |      |                               |
| Gostlow B., Robinson A.D., Pyle J.A., Harris N.R.P., O'Brien L.  | Micro-DIRAC: An Autonomous Instrument for Halocarbon Measurements  | 2, 2123-2159,               | Atmos. Meas. Techn. Disc        | 2009 | UCAM. UEA                     |
| Gunn, L.N., W. Feng, M. van Roozendaal, M. Gil, M. Yela, P.V. Johnston, K. Kreher, S.W. Wood   | Long-term changes in stratospheric NO <sub>2</sub> : Studies with a 3-D CTM forced by ERA-40 analyses and chemical data assimilation                                   |                             | Atmos. Chem. Phys. Discuss.     | 2009 |                               |
| Homan, C.D., C.M. Volk, A.C. Kuhn, A. Werner, J. Baehr, S. Viciani, A. Ulanovski, and F. Ravegnani   | Tracer measurements in the tropical tropopause layer during the AMMA/SCOUT-O3 aircraft campaign  |                             | Atmos. Chem. Phys. Discuss.     | 2009 | JWGU, BUW(UWupp), CNR, CAO    |
| Konopka, P.; Grooß, J.-U.; Plöger, F.; Müller, R.  | Annual cycle of horizontal in-mixing into the lower tropical stratosphere  |                             | J. Geophys. Res. D: Atmospheres | 2009 | FZJ                           |
| Krüger, K., S. Tegtmeier, M. Rex   | Variability of residence time in the Tropical Tropopause Layer during Northern Hemisphere winter   | Atmos. Chem. Phys. Discuss. | 9, 12597-12614                  | 2009 |                               |
| Kunze, M., P. Braesicke, U. Langematz, G. Stiller, S. Bekki, C. Brühl, M. Chipperfield, M. Dameris, R. Garcia and M. Giorgetta   | Representation of the Asian summer monsoon circulation in chemistry-climate models   |                             | J. Climate                      | 2009 | FUB, MPG...                   |

Submitted Refereed Literature

|   |   |                |   |      |                                   |
|---|---|----------------|---|------|-----------------------------------|
| Laube, J.C., A. Engel, H. Bönisch, T. Möbius, W. T. Sturges, M. Braß, and T. Röckmann   | Fractional release factors of long-lived halogenated organic compounds in the tropical stratosphere   |                | Atmos. Chem. Phys. Discuss.                             | 2009 | 46, 62                            |
| Lindfors, A., A. Tanskanen, A. Arola, R.v.d. A. A.F. Bais, U. Feister, M. Janouch, W. Josefsson, T. Koskela, K. Lakkala, P.N.d. Outer, A.R.D. Smedley, H. Slaper, and A.R. Webb                           | The Promote UV Record: a global satellite-based climatology of ultraviolet irradiance.  |                | JSTARS  | 2009 | AUTH, FMI, DWD, SHMI, RIVM, UMIST |
| Liu, X., E. D. Rivière, V. Marécal, G. Durry, H. Hamdouni and J. Arteta   | water vapor budget associated to overshoots in the tropical stratosphere: mesoscale modeling study of August 4-5, 2006 during SCOUT-AMMA                |                | in preparation to be submitted to Atmos. Chem and Phys. | 2009 | GSMA, LPCE                        |
| Mébariki, Y., V. Catoire, N. Huret, G. Berthet, C. Robert and G. Poulet   | More evidence for very short-lived substance contribution to stratospheric chlorine inferred from HCl balloon-borne in situ measurements in the tropics | 9, 16163-16195 | Atmos. Chem. Phys. Discuss.                             | 2009 | CNRS(LPCE)                        |
| McLinden, C.A., C. S. Haley, N. D. Lloyd, F. Hendrick, A. Rozanov, F. Goutail, D. A. Degenstein, E. J. Llewellyn, C. E. Sioris <sup>1</sup> , M. Van Roozendael, J. P. Pommereau, W. Lotz, and J. Burrows | Odin/OSIRIS observations of stratospheric BrO: Retrieval methodology, climatology, and inferred Bry   |                | Atmos. Chem. Phys. Discuss.                             | 2009 | CNRS, IUP, IASB                   |
| Palazzi, E., F. Fierli, F. Cairo, C. Cagnazzo, G. Di Donfrancesco, E. Manzini, F. Ravegnani, C. Schiller, F. D'Amato, and C. M. Volk  | Diagnostics of the Tropical Tropopause Layer from in-situ observations and CCM data   | 9, 11659–11698 | Atmos. Chem. Phys. Discuss.                             | 2009 | CNR, FZJ, JWGU, BUW(UWupp)        |
| Remedios, J.J., R. J. Leigh, A. M. Waterfall, D. P. Moore, H. Sembhi, I. Parkes, J. Greenhough, M. P. Chipperfield and D. Hauglustaine  | MIPAS reference atmospheres and comparisons to V4.61/V4.62 MIPAS level 2 geophysical data sets  | 7, 9973-10017  | Atmos. Chem. Phys. Discuss.                             | 2007 | ULEIC                             |
| Ricaud, P., J.-P. Pommereau, J.-L. Atti, E. Le Flochmoen, L. El Amraoui, H. Teysseire, V.-H. Peuch, W. Feng, and M. Chipperfield  | Equatorial transport as diagnosed from nitrous oxide variability  | 4899-4930      | Atmos. Chem. Phys. Discuss.                             | 2009 |                                   |
| Schäuble, D., C. Voigt, B. Kärcher, P. Stock, H. Schlager, M. Krämer, C. Schiller, R. Bauer, N. Spelten, M. de Reus, M. Szakall, S. Borrmann, U. Weers, and Th. Peter                                     | Airborne measurements of the nitric acid partitioning in persistent contrails   | 9, 14165–14187 | Atmos. Chem. Phys. Discuss.                             | 2009 |                                   |
| Schiller, C., J.-U. Grooß, P. Konopka, F. Plöger, F. H. Silva dos Santos, N. Spelten  | Hydration and Dehydration at the tropical tropopause  | 9, 17495-17529 | Atmos. Chem. Phys. Discuss.                             | 2009 | FZJ                               |
| Sinnhuber, B.-M., I. Wohltmann  | Upwelling across the tropical tropopause diagnosed from meteorological reanalyses and ozone observations shows no increase over the past four decades   | Nature Geosci. |   | 2009 | U Bremen                          |
| Tost et al  | Convection  |                | Atmos. Chem. Phys. Discuss.                             | 2009 | MPG, UNIMAN...                    |

Submitted Refereed Literature

|  |  |                           |                                     |             |  |
|--|--|---------------------------|-------------------------------------|-------------|--|
| <p>Tourpali, K., A. F. Bais, A. Kazantzidis, C. S. Zerefos, H. Akiyoshi, T. Nagashima, M. Yoshiki, J. Austin, C. Brühl, B. Steil, N. Butchart, M. P. Chipperfield, W. Tian, M. Dameris, V. Eyring, R.R. Garcia, A. Gettelman, D.E. Kinnison, D.R. Marsh, M. A. Giorgetta, P.A. Newman, S. Pawson, R.S. Stolarski, E. Mancini, G. Pitari, E. Manzini, D. A. Plummer, E. Rozanov, K. Shibata, M. Deushi, and J.F. Scinocca</p> | <p>Clear sky UV simulations in the 21st century based on Ozone and Temperature Projections from Chemistry-Climate Models</p>       | <p>8, 1343-1362, 2008</p> | <p>Atmos. Chem. Phys. Discuss.,</p> | <p>2008</p> |  |
| <p>Vigouroux, C., F. Hendrick, T. Stavrakou, B. Dils, I. De Smedt, C. Hermans, A. Merlaud, F. Scolas, C. Senten, G. Vanhaelewyn, S. Fally, M. Carleer, J.-M. Metzger, J.-F. Müller, M. Van Roozendael, and M. De Mazière</p>   | <p>Ground-based FTIR and MAX-DOAS observations of formaldehyde at Réunion Island and comparisons with satellite and model data</p> | <p>9, 15891-15957</p>     | <p>Atmos. Chem. Phys. Discuss.</p>  | <p>2009</p> | <p>BIRA-IASB, LACy (Univ. Reunion), SCQP-ULB</p> |
| <p>von Hobe, M., J.-U. Grooß, G. Günther, P. Konopka, I. Gensch, M. Krämer, N. Spelten, A. Afchine, C. Schiller, A. Ulanovsky, N. Sitnikov, G. Shur, V. Yushkov, F. Ravegnani, F. Cairo, A. Roiger, C. Voigt, H. Schlager, R. Weigel, S. Borrmann, R. Müller, and F. Stroh</p>   | <p>Evidence for heterogeneous Chlorine Activation in the Tropical UTLS</p>   |                           | <p>Atmos. Chem. Phys. Discuss.</p>  | <p>2009</p> | <p>20, 04, MDB, 08,25,26,30</p>                  |

## SCOUT-O3 Related Dissemination

## Non Refereed Literature

| Author(s) / Editor(s)   | Title   | Literature Title  | Page  | Date/Year | Partner(s)                             |
|---|---|---|---|-----------|--|
| Authors including B-M. Sinnhuber, N.R.P. Harris, M. Rex, M. von Hobe, R. Mueller, R. Schofield, F. Stroh, J. Urban, M.P. Chipperfield and J-U Gross   | The Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion  | Report of the SPARC Working Group on The Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion   | <a href="http://www.atmosph.physic.s.utoronto.ca/SPARC/HalogenChem_Final_20090213.pdf">http://www.atmosph.physic.s.utoronto.ca/SPARC/HalogenChem_Final_20090213.pdf</a> | 2008      | UCAM, UBREM, AWI, FZJ, UGOT, UNIVLEEDS |
| Bais, A., M. Blumthaler, A. Webb, G. Seckmeyer, S. Thiel, S. Kazadzis, A. Redondas, R. Kift, N. Kouremeti, B. Schallhart, R. Schmitt, D. Pisulla, J.P. Diaz, O. Garcia, A.M. Diaz Rodriguez, and A. Smedley               | Intercomparison of solar UV direct irradiance spectral measurements at Izana in June 2005   | Ultraviolet Ground- and Space-based Measurements, Models, and Effects V, Proc. SPIE. 31 July-4 August   |   | 2005      | AUTH, UIIMP, UMIST, UHAN               |
| Bumke et al. (Marine Meteorology IFM-GEOMAR, Kiel, Germany)   | The Research Unit Marine Meteorology at the Leibniz Institute of Marine Sciences at the University of Kiel  | Promet  | 32, 79-82   | 2006      |  |
| Camy-Peyret, C., G.Dufour, S.Payan, H.Oelhaf, G.Wetzel, G.Stiller, T.Blumenstock, C.E. Blom, T.Gulde, N.Glatthor, A.Engel, M.Pirre, V.Catoire, G.Moreau, M.deMaziere, C.Vigouroux, E.Mahieu, U.Cortesi, and F.Mencaraglia | Validation of MIPAS N2O profiles by stratospheric balloon, aircraft, and ground based measurements  | Proceedings of the Second Workshop on the Atmospheric Chemistry Validation of ENVISAT (ACVE-2) ESA-ESRIN, Frascati, Italy, D.Danesy, ed., vol.ESA SP--562 | CD-ROM, ESA Publications Division, ESTEC  | 2004      | UNIKARL                                |
| Camy-Peyret, C., S.Payan, G.Dufour, H.Oelhaf, G.Wetzel, G.Stiller, N.Glatthor, T.Blumenstock, C.E. Blom, C.Keim, S.Mikuteit, A.Engel, M.Pirre, G.Moreau, V.Catoire, A.Bracher, M.Weber, and K.Bramstedt                   | Validation of MIPAS CH4 profiles by stratospheric balloon, aircraft, satellite, and ground based measurements   | Proceedings of the Second Workshop on the Atmospheric Chemistry Validation of ENVISAT (ACVE-2) ESA-ESRIN, Frascati, Italy, D.Danesy, ed., vol.ESA SP--562 | CD-ROM, ESA publications Division, ESTEC  | 2004      | UNIKARL                                |
| Chauhan, S., M. Hoepfner, T. von Clarmann, H. Fischer, B. Funke, N. Glatthor, U. Grabowski, S. Kellmann, M. Kiefer, A. Linden, M. Milz, T. Steck, G.P. Stiller, L. Froidevaux, A. Lambert, M.L. Santee, and M. Schwartz   | IMK/IAA retrievals of temperature and trace gases from MIPAS reduced resolution (RR) TLS-1 mode for 28/29 Nov 2005 compared with ECMWF analyses and microwave limb sounder (MLS) data | Proceedings of the ACVE-3 workshop, Frascati, Italy, 4-7 Dec 2006, CD-Rom   | CD-Rom  | 2006      |  |
| Di Cienzo, G. Lacorata and G. Redaelli  | Finite Size Lyapunov Exponent as lagrangian diagnostic of barriers effects in stratosphere  | Geophysical Research Abstracts, EGU General assembly  | Vol. 11, EGU2009-7884   | 2009      | ULAQ                                   |
| den Outer P., Slaper H., Lindfors A., Kaurola J., Bais A., Kazantzidis A., Feister U., Junk J., Janouch M., Josefsson W   | UV-history in Europe: A comparison of UV-Reconstruction Models  | Proceedings of One Century of UV Radiation Research, Davos, Switzerland   |   | 2007      | RIVM, FMI, AUTH, DWD, CHMI, SMHI       |
| den Outer, P., H. Slaper, A. Bais, U. Feister, M. Janouch, W. Josefsson, J. Kaurola, and T. Koskela   | UV climatology from quality controlled ground-based spectral UV measurements  | Remote Sensing of Clouds and the Atmosphere XI, Proc. SPIE, Stockholm, Sweden, edited by J.R. Slusser, K. Schäfer, and A. Comerón                         | 1-10, SPIE  | 2006      |  |
| Dorf, M., L. Kritten, S. Kreycy, A. Rozanov, A. Butz, C. von Savigny, C. Camy-Peyret, M.P. Chipperfield, K. Grunow, C. Prados-Román, J.P. Burrows and K. Pfeilsticker   | ENVISAT / SCIAMACHY Validation with the LPMA/DOAS/ MINI-DOAS balloon gondola: Comparison of O3, NO2 and BrO profiles  | Proceeding of the ESA symposium on rocket and balloon programmes, Bad Reichenhall, Germany, 7-11 June   |   | 2009      |  |

## Non Refereed Literature

|  |  |  |                       |      |                                      |
|--|--|--|-----------------------|------|--------------------------------------|
| Duvel, J-P., N.R.P. Harris, H. Oelhaf, J-P. Pommereau and F. Vial  | The Future for Research Balloons in Europe   | Report for CNES  |                       | 2009 | UCAM, CNRS, UNIKARL                  |
| Eyring, V., A. Gettelman, N. R. P. Harris, S. Pawson, T. G. Shepherd, D. W. Waugh, H. Akiyoshi, N. Butchart, M. P. Chipperfield, M. Dameris, D. W. Fahey, P. M. de F. Forster, P. A. Newman, M. Rex, R. J. Salawitch, and B. D. Santer | Report on the Third SPARC CCMVal Workshop  | SPARC Newsletter   | 30, 17-19             | 2008 | CCMVal                               |
| Eyring, V., M. P. Chipperfield, M. A. Giorgetta, D. E. Kinnison, E. Manzini, K. Matthes, P. A. Newman, S. Pawson, T. G. Shepherd, and D. W. Waugh  | Overview of the New CCMVal Reference and Sensitivity Simulations in Support of Upcoming Ozone and Climate Assessments and the Planned SPARC CCMVal   | SPARC Newsletter   | 30, 20-26             | 2008 | CCMVal                               |
| Feister, U. and J. Junk  | Reconstruction of daily solar UV irradiation by an artificial neural network (ANN)   | SPIE Europe, Stockholm   | Session 8, 6362-94    | 2006 |                                      |
| Ferretti R., S. Gentile, G. Redaelli, A. Taddei  | Evaluation of the dynamical structure of deep convection in the tropics using a mesoscale model and high resolution back trajectories: Hector events during TWP-ICE and SCOUT-O3 campaigns | EGU General assembly, Geophysical Research Abstracts.  | Vol. 9, 5-2-2007      | 2007 | ULAQ                                 |
| Flury, T.  | AMSOS Mission 8 data product: Mesosphere   | University of Bern/ Niklaus Kämpfer  | No. 2007-07-MW        | 2007 |                                      |
| Fueglistaler, S., M. Bonazzola, H. Hatsushika, P. H. Haynes, T. Peter, H. Wernli and K. Yamazaki   | Tropical troposphere-to-stratosphere transport: A Lagrangian perspective   | SPARC Newsletter   | 25, 20-22             | 2005 |                                      |
| Garane, K., A. F. Bais, K. Tourpali, C. Meleti, C.S. Zerefos, S. Kazadzis  | Variability of spectral UV irradiance at Thessaloniki, Greece, from 15 years measurements  | Ultraviolet Ground- and Space-based Measurements, Models, and Effects V, Proc. SPIE. 31 July-4 August  |                       | 2005 | AUTH                                 |
| Grassi, B., G. Redaelli and G. Visconti  | Influence of tropical oceans on the polar atmospheric dynamics   | Geophysical Research Abstracts, EGU-   | Vol. 11, EGU2009-8114 | 2009 | ULAQ                                 |
| Grassi, B., G. Redaelli and G. Visconti  | Correlative analysis of tropical SST and SH polar dynamics   | EMS8/ECAC7 Abstracts, 8th Annual Meeting of the EMS / 7th ECAC   | Vol. 5                | 2008 | ULAQ                                 |
| Grassi, B., G. Redaelli and G. Visconti  | Tropical SST role on the anomalous 2002 polar vortex conditions  | Proceedings of EGU Gneral Assembly, Wien (Austria)   |                       | 2007 | ULAQ                                 |
| Grassi, B., G. Redaelli and G. Visconti  | Polar atmospheric response to SST anomalies  | Proceedings of EGU Gneral Assembly, Wien (Austria)   |                       | 2006 | ULAQ                                 |
| Greenhough, J., J. J. Remedios, H. Sembhi  | Cloud detection and distributions from MIPAS infra-red limb observations   | SP-572 Proceedings ESA ENVISAT & ERS symposium, Salzburg, Austria  |                       | 2004 | ULEIC                                |
| Harris, N.R.P. and H. Oelhaf,  | The future for research balloons in Europe   | Proceedings of the ESA PAC Symposium, Bad Reichenhall, Germany, June 7-11 2009   | in press              | 2009 | UCAM, UNIKARL                        |
| Harris, N.R.P.   | The long history of ozone: Analyses of recent measurements   | Twenty Years of Ozone Decline, Eds. C. Zerefos, G. Contopoulos and G. Skalkas, Springer Publications, July   | 111-117               | 2009 | UCAM                                 |
| Haynes, P.H.   | Stratosphere-Troposphere Dynamical Coupling  | SPARC Newsletter   | (25) 27-30            | 2005 | UCAM                                 |
| Hendrick, F., J. Granville, J.-C. Lambert, and M. Van Roozendael   | Validation of SCIAMACHY OL3.0 NO2 Profiles and Columns Using Ground-Based DOAS Profiling   | Proceedings of the Third Workshop on the Atmospheric Chemistry Validation of ENVISAT, ESA/ESRIN, Frascati, Italy. 4-7 December                       |                       | 2006 |                                      |
| Homan, C.D., C.M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, G. Günther, P. Konopka, and D. Brunner   | Vertical mixing of air in the TTL during the SCOUT-O3 and AMMA/SCOUT aircraft campaigns  | Proceedings of the Reunion Island International Symposium, Tropical Stratosphere – Upper Troposphere, St Gilles, Reunion Island, November 5-9, 2007. | CD-ROM                | 2008 | JWGU, INOA, CAO, CNR-ISAC, FZJ, ETHZ |

## Non Refereed Literature

|   |  |  |  |      |   |
|---|--|--|--|------|---|
| Immler F., Krüger K., Schrems O., Engelbart D., Fortuin P., Verver G.   | Cirrus clouds and ice supersaturated regions observed by Raman lidar and radiosondes.  | Proceedings of Water Vapour in the Upper Troposphere and Lower Stratosphere Workshop, Lancaster University, England 5th to 7th July 2005.            | 30-31  | 2005 | AWI, KNMI, DWD                                |
| Jiang, J.H., D.-Y. Wang, L.J. Romans, C.O. Ao, M.J. Schwartz, G.P. Stiller, T.von Clarmann, M.Lopez-Puertas, B.Funke, S.Gil-Lopez N.Glatthor, U.Grabowski, M.Hoepfner, S.Kellmann, M.Kiefer, A.Linden, G.Mengistu Tsidu, M.Milz, T.Steck, and H.Fischer | Comparison of GPS/SAC-C and MIPAS/ENVISAT temperature profiles and its possible implementation for EOS MLS observations                                    | Earth Observation with CHAMP: Results from Three Years in Orbit, C.Reigber, H.Luehr, P.Schwintzer, and J.Wickert, eds.                               | pp.573-578, Springer-Verlag Berlin Heidelberg New York | 2004 | UNIKARL                                       |
| Kaurola J., Lindfors A., Lakkala K., Josefsson W., Hansen G., Vuilleumier L.  | Estimated changes in surface UV over the last 4 decades using ERA-40 data  | Proceedings of One Century of UV Radiation Research, Davos, Switzerland  |  | 2007 | FMI, SMHI, NILU (+ outside SCOUT: MeteoSwiss) |
| Kazantzidis, A., A. Bais, K. Garane, S. Kazadzis, and C. Meleti   | Estimation of UV irradiance from ancillary data and comparison with measurements at Thessaloniki, Greece (40.5°N, 23°E)                                    | Remote Sensing of Clouds and the Atmosphere XI, Proc. SPIE, Stockholm, Sweden. Edited by J.R. Slusser, K. Schäfer, and A. Comerón                    | 1-7, SPIE  | 2006 |   |
| Kleineremanns, K; Havenith, M; Koop, T.;  | Physical Chemistry of Water, Trend Report Physical Chemistry 2006 (In German)  | Nachrichten aus der Chemie   | Vol.55, pp.285-288                                     | 2006 | ETHZ/Bielefeld                                |
| Koop, T. and B. Zobrist   | Parameterizing Heterogeneous Ice Nucleation Processes in Environmental Systems   | Nucleation and Atmospheric Aerosols (Eds. J. Smolik and C. O'Dowd), Prague   | 440-443  | 2009 | ETH/Bielefeld                                 |
| Koop, T. and Pöschl, U.   | An open, two-stage peer-review journal   | Nature   | Webfocus: Nature's peer review debate                  | 2006 | ETHZ/Bielefeld                                |
| Kuhn, A. C., C.M. Volk, J. Baehr, A. Werner, E. Ivanova, P. Konopka, A. Ulanovski and F. Ravegnani  | Isentropic transport and mixing between the tropical UTLS and the extratropical stratosphere as observed by in-situ measurements of long-lived trace gases | Proceedings of the Reunion Island International Symposium, Tropical Stratosphere – Upper Troposphere, St Gilles, Reunion Island, November 5-9, 2007. | CD-ROM   | 2008 | JWGU, INOA, CAO, CNR-ISAC, FZJ, DLR           |
| Laube, J.C., A. Engel, H. Bönisch, T. Möbius, D. R. Worton, W. T. Sturges, K. Grunow, and U. Schmidt  | Contribution of very short-lived organic substances to stratospheric chlorine and bromine in the tropics – a case study                                    | Atmos. Chem. Phys. Disc.   | 8491-8515  | 2009 |   |
| Law, K., Pan. L., Wernli, H., Fischer, H., Haynes, P.H., Salawitch, R., Karcher, B., Prather, M., Doherty, S., Ravishankara, A.   | Processes governing the chemical composition of the extratropical UTLS (Report from the joint SPARC-IGAC workshop)   | (26) 8-19  | SPARC Newsletter                                       | 2006 | /CNRS, UCAM, IPA-UMZ and others               |
| Lindfors, A. and Arola, A   | On the wavelength-dependent attenuation of radiation in the UV-visible range by a homogeneous cloud layer  | Proceedings of the International Radiation Symposium 2008, Foz do Iguassu, Brazil, August  |  | 2008 | FMI   |
| Lindfors A.   | UV reconstruction techniques   | Proceedings of One Century of UV Radiation Research, Davos, Switzerland  |  | 2007 | FMI   |
| Mager, M. and Dameris, M.   | Planetary waves in a coupled chemistry-climate model: analysis techniques and comparison with reanalysis data  | Atmos. Chem. Phys. Discuss.  | 5, 2559-2598   | 2005 | DLR, UCAM                                     |
| Müller, S.C.  | Episode of enhanced water vapour in the middle stratosphere over Southern Europe during SCOUT-O3 Darwin Campaign in November 2005                          | Institute of applied physics, Research Report  | No. 2008-01-MW   | 2008 |   |
| Orsolini, Y., A. Karpetchko, and G. Nikulin   | Lower stratospheric polar temperatures in re-analyses, and their tropospheric precursors   | Proceedings of the 3rd WCRP International Conference on Reanalysis, Tokyo  |  | 2008 |   |

### Non Refereed Literature

|  |   |  |                   |            |  |
|--|---|--|-------------------|------------|--|
| Peter, T., M. Krämer, O. Möhler  | Upper tropospheric humidity: A report on an international workshop  | SPARC Newsletter   | 30, 9-15.         | 2008       | ETHZ, FZJ, FZK                           |
| Remedios, J.J., A.M. Waterfall, R. Spang, G. Mann, S. Davies, and K. Carslaw, a denitrification model                    | "Nitric acid distributions for Northern Hemisphere winter 2002/2003 observed by the MIPAS on ENVISAT and preliminary comparisons to   | Proceedings of the Quadrennial Ozone Symposium   |                   | 2004       |  |
| Rieder, H. E., Holawe, F., Simic, S., Blumthaler, M., Krzy_cin, J. W., Wagner, J. E., Schmalwieser, A. W., and Weihs, P. | Rekonstruktion der erythemwirksamen UV-Bestrahlungsstärke in Österreich: Ein Vergleich zwischen Hochgebirge und Wiener Ballungsraum. In: Bundesministerium für Gesundheit Familie und Jugend, Symposium UV-Strahlung und Gesundheit in Österreich, Medieninhaber un Herausgeber: Bundesministerium für Land und Forstwirtschaft | Symposium UV-Strahlung und Gesundheit in Österreich, Medieninhaber un Herausgeber: Bundesministerium für Land und Forstwirtschaft, Umwelt und Wasserwirtschaft Ed. Martin Kriech, Symposium UV-Strahlung und Gesundheit in Österreich, 22. April 2008, Wien      |                   | Jul-09     |  |
| Rieder H. Holawe, F., Simic, S., Blumthaler, M., Kryscin, J., Weihs P  | Reconstruction of past UV levels in Austria: a comparison between Alpine and urban regions.   | In: Szent Istvan University Gödöllö , 13th workshop on Energy and Environment, Dept of Physics and Process Control, 13th workshop on Energy and Environment, 5.-6. October 2007, Gödöllö   |                   | Jun-09     |  |
| Rieder, H., Holawe, F., Simic, S., Weihs, P.   | Reconstruction of past UV levels in Austria: A comparison between Alpine and Urban regions  | Geophysical Research Abstracts,  | Vol. 9, p. 316    | 2007       |  |
| Rex, M., von der Gathen, P.  | Match campaigns to measure stratospheric ozone loss - A key contribution to the International Polar Year 2007   | World Meteorological Organization Bulletin   | 56, 257-262       | 2007       |  |
| Schiller, C., T. Peter, K. Rosenlof  | SPARC water vapour initiative   | SPARC Newsletter   | 30, 16.           | 2008       | FZJ, ETHZ                                |
| Schlager, H., C. Schiller  | Kurs auf Blitz und Donner   | DLR Nachrichten  | 20-21             | Nov. 20006 | DLR, FZJ                                 |
| Sembhi, H., J. J. Remedios, and P. Raspollini  | Investigating the effect of upper tropospheric cirrus clouds on tropical MIPAS level 2 water vapour and ozone retrievals  | Proceedings of the Envisat Symposium 2007, Montreux, Switzerland, (ESA SP-636)   |                   | 2007       |  |
| Sembhi, H., J.J. Remedios, J. Greenhough and P. Raspollini   | Validation of cloud-free tropical UTLS MIPAS H2O and O3   | SP-628 Proceedings of ESA Atmospheric Science Conference, Frascati, Italy  |                   | Jun-09     | ULEIC                                    |
| Sembhi, H., J.J Remedios and J. Greenhough   | Tropical Tropopause Layer Water Vapour and Clouds observed by the MIPAS instrument  | Proceedings Water Vapour in the UTLS workshop, Lancaster University, England   |                   | 2005       |  |
| Simic, S.; Weihs, P.; Kromp-Kolb, H.; Vacek, A.; Laube, W.   | Effect of clouds on spectral UV irradiance at the high-mountain observatory Sonnblick (3106 m) in Austria   | n: European Meteorological Society 6th EMS / 6th ECAC, 6th Annual Meeting of the EMS / 6th ECAC, 4-8 September 2006, Ljubljana.  |                   | 2006       |  |
| Simic, S., Weihs, P., Kromp-Kolb, H., Vacek, A., Laube, W.   | Influence of ground albedo and cloudiness on ground UV at the Sonnblick observatory (3106 m, Austria): model-   | 41, 2, 695-698   |                   | 2005       |  |
| Simic, S.; Weihs, P  | Variability of spectral UV irradiance in Austria in the years 1994 - 2005.  | In: 6th Annual Meeting of the European Meteorological Society Part-and-partner: 6th European Conference on Applied Climatology (ECAC), 6th Annual Meeting of the EMS / 6th ECAC, 4 – 8 September 2006, Ljubljana, Slovenia                                       |                   | 2006       |  |
| Simic,S., Weihs, P.,Kromp-Kolb, H.,Vacek, A.,Laube, W..  | Factors affecting changes of spectral UV irradiance at the Sonnblick Observatory (3106 m, Austria)  | In: Proceedings of SPIE - The International Society for Optical Engineering 5979 (Ed. Klaus Schäfer, Adolfo T. Comerón, James R. Slusser, Richard H. Picard, Michel R. Carleer, Nicolaos Sifakis): Remote Sensing of Clouds and the Atmosphere X, 2005, Belgium, | Vol. 5979, 627-53 | 2005       |  |
| Sinnhuber, B.-M., and M. J. Kurylo   | Report on the SPARC Workshop on the Role of Halogens in Polar Stratospheric Ozone Depletion   | SPARC Newsletter   | No. 32, 16-20     | 2009       | Ubremen, UCAM, AWI, FZJ, UGOT, UNIVLEEDS |

### Non Refereed Literature

|   |   |   |   |      |  |
|---|---|---|---|------|--|
| Stefan C. Müller, Niklaus Kämpfer,<br>Dietrich G. Feist   | Episode of enhanced water vapour in the middle stratosphere over Southern Europe during SCOUT-O3 Darwin Campaign in November 2005 | IAP Research Report, No. 2008-01-MW, Institut für angewandte Physik, Universität Bern | <a href="http://www.iap.unibe.ch/publications/pub-detail.php?lang=en&amp;id=3059">http://www.iap.unibe.ch/publications/pub-detail.php?lang=en&amp;id=3059</a> | 2008 |  |
| Theys, N., M. Van Roozendael, Q. Errera, S. Chabrilat, F. Daerden, F. Hendrick, D. Loyola, P. Valks | A Stratospheric BrO Climatology Based on the BASCOE 3D Chemical Transport Model   | Proceedings of the ENVISAT Symposium 2007, Montreux, Switzerland. 23-27 April         |   | 2007 |  |

## Thesis

## SCOUT-O3 Related Dissemination

## Thesis

| Author        | Title  | Institute/Supervisor  | Number   | Date/Year                                  | Partner(s) |
|---------------|--|---|--|--|------------|
| Brohede, S.   | Satellite Limb-Scatter Observations of Stratospheric NO <sub>2</sub> and O <sub>3</sub> - Retrievals, Validation and Applications  | Doctoral thesis, Chalmers University of Technology (supervisor: D.P. Murtagh)   | ISBN/ISSN: 978-91-7385-054-4                       | 2008                                       | CHALM      |
| Deckert, R.   | Climate dependencies and deterministic variability in stratospheric dynamics and ozone   | Deutsches Zentrum für Luft- und Raumfahrt, Institut für Physik der Atmosphäre, Oberpfaffenhofen / Prof. Dr. Martin Dameris                            |  | 2008                                       | DLR        |
| Dhomse S.     | Dynamical Influence on the stratospheric ozone and water vapor   | Ph.D. Thesis, University of Bremen  |  | 2006                                       | IUP-UB     |
| Farkas, E.    | Kinetics Study of the Elementary Reactions of Acetone and Acetonyl Radical in Relevance to Atmospheric Chemistry   | PhD Thesis, Budapest (in Hungarian)   |  | 2005                                       | CRIC-HAS   |
| Gensch, I.    | Water and nitric acid in cirrus clouds:microphysical kinetical modeling and a closure to field observations'   | FZJ, Institut für Chemie und Dynamik der Geosphäre, Stratosphäre Jülich   |  | 2008                                       | FZJ        |
| Henriot, J.M. | Modélisation du transport d'espèces en période convective pour l'étude de la composition de la troposphère tropicale   | CNRS(LPCE) Dr V. Marécal  |  | 2009                                       | CNRS(LPCE) |
| Hommel, R.    | Die Variabilität von stratosphärischem Hintergrund Aerosol. Eine Untersuchung mit dem globalen sektionalen Aerosolmodell MAECHAM5/SAM2                                       | Universitaet Hamburg Prof. H. Grassl., Prof. H.-F. Graf   | MPI Publikation Berichte zur Erdsystemforschung 57 | 2008                                       | MPGM       |
| Hosking, S.   | The impact of deep convection on the structure of, and transport through, the tropical tropopause layer  | University of Cambridge. Prof. J.A. Pyle  |  | 2009                                       | UCAM       |
| Jones, A.     | Validation and time series analysis of global stratospheric data sets  | Doctoral thesis, Chalmers University of Technology, Göteborg (supervisor: D.P. Murtagh, J. Urban)   | ISBN/ISSN: 978-91-7385-223-4                       | 2009                                       | CHALM      |
| Karl, C.      | Direct moonlight measurements of O <sub>3</sub> , NO <sub>2</sub> and NO <sub>3</sub> in the tropics   | Institut für Umweltphysik, University of Heidelberg, Prof. Pfeilsticker   |  | 2008                                       | IUP-HD     |
| Kerbrat, M.   | Physico-chemical interaction of acidic trace gases with ice in snow  | University of Bern, Prof. H.W. Gäggeler   |  | 2009                                       | PSI        |
| Kunkel, D.    | Ultrafine Particles in the Upper Troposphere and Lower Stratosphere  | MPI-C, J. Lelieveld   |  | 2008                                       | MPI-C      |
| Lamsai L.N.   | Advanced total column ozone retrieval from hyperspectral UV satellite Instruments  | Ph.D. Thesis, University of Bremen  |  | 2006                                       | IUP-UB     |
| Laube, J.C.   | Determination of the distribution of halocarbons in the tropical upper troposphere and stratosphere  | Institute for Atmospheric and Environmental Sciences, Goethe-University, Frankfurt, Germany/ Supervisor: PD Dr. A. Engel and Prof. Dr. B. O. Kolbesen |  | 2008                                       | JWGU       |
| Levine, J.    | Model studies of troposphere-to-stratosphere transport via the tropical tropopause layer   | University of Cambridge. Prof. J.A. Pyle  |  | 2008                                       | UCAM       |
| Lindfors, A.  | Reconstruction of past UV radiation (Ph. D. thesis)  | Finnish Meteorological Institute Contributions  | No 67  | 2007                                       | FMI        |
| Liu, X.       | "Evolution de la vapeur d'eau dans la haute atmosphère des régions tropicales et impact sur la couche d'ozone : mesure par lasers sous ballons et modélisation méso échelle" | GSMA, G. Durry and E. D. Rivière  |  | in progress to be defended in October 2010 | GSMA       |

## Thesis

|                         |   |  |   |        |            |
|-------------------------|---|--|---|--------|------------|
| Mébariki Y.             | "Etude de réservoirs chlorés et de sources de radicaux HOx dans la haute troposphère et basse stratosphère tropicales à l'aide de l'instrument SPIRALE" | CNRS-Université d'Orléans, Dr V. Catoire   | PhD Thesis                              | 2009   | CNRS(LPCE) |
| Müller, S.C.            | Airborne microwave remote sensing of water vapour from the UTLS to the mesosphere - new spectrometer aspects, validation and a dynamical case study     | University of Bern / Niklaus Kämpfer<br><a href="http://www.iap.unibe.ch/publications/pub-detail.php?lang=en&amp;id=3087">http://www.iap.unibe.ch/publications/pub-detail.php?lang=en&amp;id=3087</a> (will be available under this link from 06/2008) | PhD Thesis                              | 2008   | UBERN      |
| O'Brian, K.             | Application of a novel air-borne mini-DOAS instrument for UV/visible limb observations during the POLARCAT GRACE 2008 research campaign                 | Institut für Umweltphysik, University of Heidelberg, Prof. Pfeilsticker  |   | 2009   | IUP-HD     |
| O'Brien, L              | Halocarbons in the troposphere: Measurements and interpretation   | University of Cambridge. Prof. J.A. Pyle   |   | 2009   | UCAM       |
| O'Sullivan, D.A.        | Temporal and spatial variability of halogenated compounds and other trace gases   | University of East Anglia, Dr David Oram and Professor William Sturges   |   | 2008   | UEA        |
| Pedernera, D.A.         | Glasbildung in Aerosolpartikeln der oberen Troposphäre  | Bielefeld University / Dept. Of Chemistry / T. Koop  |   | 2008   |            |
| Punge, H.-J.            | The quasi-biennial oscillation: Representation in numerical models and effects on stratospheric transport and trace gases                               | Max Planck Institute for Meteorology/M. A. Giorgetta   | Reports on Earth System Science, No. 55 | 2008   | MPG/MPIMET |
| Rösevall, J.            | On Numerical Tracer Advection in the Stratosphere and Assimilation of Data from Satellites  | Doctoral thesis, Chalmers University of Technology, Göteborg (supervisor: D.P. Murtagh, J. Urban)  | ISBN/ISSN: 978-91-7385-052-0            | 2008   | CHALM      |
| Sembhi, H.              | Observing water vapour and ozone in the tropical UTLS with the MIPAS instrument on ENVISAT  | University of Leicester, U.K, Dr. John. Remedios   |   | 2007   | ULEIC      |
| Simic, S.               | Untersuchungen zum ultravioletten Strahlungstransfer am Hohen Sonnblick   | Institute of Meteorology, BOKU, Prof. Kromp kolb   |   | 2006   | BOKU       |
| Silva dos Santos, F. H. | 'Hydratation und Dehydratation in der tropischen Tropopausenschicht'  | FZJ Institut für Chemie und Dynamik der Geosphäre, Stratosphäre Jülich   |   | 2008   | FZJ        |
| Sölch, I.               | A Cloud-resolving Cirrus Model with Explicit Aerosol Microphysics and Lagrangian Tracking of Ice Particles: Studies of Aggregation Processes            | Dipl.-Met. Ingo Sölch, LMU München / B. Kärcher  |   | 2009   | DLR        |
| Symington, A            | Trace gas uptake on ice surfaces  | University of Cambridge. Dr R. A.Cox   |   | 2009   | UCAM       |
| Tegtmeier, S.           | Variationen der stratosphärischen Residualzirkulation und ihr Einfluss auf die Ozonverteilung   | AWI/M. Rex   |   | 2007   | AWI        |
| Vernier, J.-P.          | Transport dans la stratosphère tropicale à partir des mesures d'aérosols par CALIPSO  | CNRS JP Pommereau  |   | Oct-09 | CNRS       |
| Weigel, K.              | Infrared limb-emission observations of the upper troposphere, lower stratosphere with high spatial resolution   | FZJ Institut für Chemie und Dynamik der Geosphäre, Stratosphäre Jülich   |   | 2009   | FZJ        |
| Yang, H.                | The GCSS ARM SGP March 9, 2000 cirrus cloud case study and inter-comparison: Development and first results including selected cloud-scale sensitivities | University of Leeds, UK / B. Kärcher   |   | 2009   | UNIVLEEDS  |
| Zobrist, B.             | Heterogeneous ice nucleation in upper tropospheric aerosols   | Ph.D. thesis, Swiss Federal Institute of Technology Zurich   | Diss. ETH No. 16411                     | 2005   | ETH Zurich |

## SCOUT-O3 Related Dissemination

## International Assessments / Reports / Books

| Contributor(s)   | Report   | Chapter  | Page         | Date/Year | Partner(s)   |
|--|--|--|--------------|-----------|--|
| Bais, A.F. and D. Lubin (Lead Authors), A. Arola, G. Bernarhd, M. Blumthaler, N. Chubarova, C. Erlick, H.P. Gies, N. Krotkov, K. Lantz, B. Mayer, R.L. McKenzie, R. Piacentini, G. Seckmeyer, J.R. Slusser, C. Zerefos | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 7: Surface ultraviolet radiation: Past, present and future | 58           | 2007      | AUTH, UIIMP, FMI, UHAN, NKUA, DLR                      |
| Baldwin, M. and M. Dameris, et al.   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 5: Ozone-Climate Connections                               | 5.1-5.49     | 2007      | DLR, CNRS, UKMO, UCAM, INGV, ULAQ, MPIM                |
| Bodeker, G.E. and D.W. Waugh, et al.   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 6: The ozone layer in the 21st century                     | 6-1-6.43     | 2007      | UCAM, DLR, INGV, CNRS, MPIC, ULEEDS, MPIM, ULAQ, PMOD, |
| Bodeker, G.E., D.W. Waugh, H. Akiyoshi, P. Braesicke, V.W. Fahey, E. Manzini, M.J. Newchurch, R.W. Portmann, A. Robock, K.P. Shine, W. Steinbrecht, E.C. Weatherhead   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 6: The ozone layer in the 21st century                     |              | 2007      |  |
| Braesicke, P.  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 5 (Contributor), Chapter 6 (Coauthor)                      |              | 2007      |  |
| Bregman, B.  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 3: Global-Ozone: Past and Present                          |              | 2007      |  |
| Bregman, B.  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 5: Climate-Ozone interactions                              |              | 2007      |  |
| Butz, A., M. Dorf (contributors), K. Pfeilsticker (co-author)  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 2  |              | 2007      |  |
| Carlaw, K.S. and B. Kärcher (Lead authors)   | Stratospheric Aerosol Processes. World Climate Research Programme Report WCRP-124, WMO-TD-No.1295, Report No. 4, L.W. Thomason and Th. Peter (Eds.)          | Chapter 1, SPARC Assessment of Stratospheric Aerosol Properties.   |              | 2006      |  |
| Chipperfield, M., D. Kinnison, S. Bekki, H. Bian, C. Bruehl, T. Canty et al  | SPARC CCMVal   | 6 Chemistry  |              | 2009      | ULEEDS, MPG, ULAQ, UKMO, ETHZ, CNRS                    |
| Giorgetta, M.A. (contributing author)  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 6  |              | 2007      | MPIMET   |
| Goutail F.   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 4: Polar Ozone: Past and Present                           | Contribution | 2007      |  |
| B. Kärcher (contributing author)   | Climate Change 2007: The physical Science Basis. Fourth Assessment Report, WG I, Solomon. S, et al. (eds.) Cambridge University Press. UK and New York, USA. | Chapter 7  |              | 2007      |  |

International Assessments / Reports / Books

|  |   |  |   |                             |   |
|--|---|--|---|-----------------------------|---|
| B. Kärcher and P. Spichtinger  | Clouds in the Perturbed Climate system: their relationship to Energy Balance, Atmospheric Dynamics, and Precipitation, Strüngmann Forum Report, Cambridge, MA: The MIT Press, Heintzenberg, J., and R. J. Charlson (eds.) | Cloud-controlling factors of cirrus  | vol. 2, 235                                   | 2009                        |   |
| Langematz, U.  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 4: Polar ozone   |   | 2007                        | FUB   |
| Law, K.S. and W.T. Sturges   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 2  |   | 2007                        |   |
| MacKenzie, A. R.   | Stratospheric Chemistry: aerosols and the ozone layer   | in "The Environmental Chemistry of Aerosols", I. Colbeck (ed.), Blackwell                                    | TBD   | 2008                        | ULANC                                       |
| MacKenzie, A. R.   | Stratospheric Chemistry and transport   | in "Atmospheric Science for Environmental Scientists", C. N. Hewitt and A. Jackson (eds.), Blackwell, Oxford | TBD   | 2009                        | ULANC                                       |
| MacKenzie, R.  | <i>"High-altitude Aircraft"</i>   | International Workshop on Balloons and Rockets for Atmospheric and Space Science                             | Lecture                                       | Lancaster 24 September 2008 | ULANC                                       |
| MacKenzie, R.  | <i>"Cirrus in a CTM"</i>  | Annual meeting of Royal Met. Soc. Atmosphere Chemistry Specialist Group                                      | Oral presentation                             | Leicester, April 2009       | ULANC                                       |
| McKenzie, R.L., P. J. Aucamp, A. F. Bais, L.O. Bjorn, M. Ilyas   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 1: Changes in biologically active ultraviolet radiation reaching the Earth's surface                 | 206   | 2007                        | AUTH  |
| Manzini E., Katja Matthes (Lead Authors)   | SPARC Assessment of Chemistry Climate Models  | Chapter 8: Natural Variability of Stratospheric Ozone  | in preparation (under review, Spetember 2009) | 2009                        | INGV  |
| Müller, R., M. von Hobe, C. Schiller   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 2 and 4  |   | 2007                        | FZJ, UCAMB, AWI, UB, CNRS, UHEID and others |
| Newman, P. A., Rex, M.   | Scientific Assessment of Ozone Depletion: 2006, World Meteorological Organization Global Ozone Research and Monitoring Project—Report No. 50.   | Polar ozone  |   | 2007                        |   |
| Newman, P. A., M. Rex, P.O. Canziani, K.S. Carslaw, K. Drdla, S. Godin-Beekmann, D.M. Golden, C.H. Jackman, K. Kreher, U. Langematz, R. Müller, H. Nakane, Y.J. Oesolini, R.J. Salawitch, M.L. Santee, M. von Hobe, S. Yoden | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Polar ozone: Past and Present  | 4.1-4.48                                      | 2007                        | CNRS  |
| Orsolini, Y.J.   | WMO Ozone Assessment Report 2006  | IV   |   | 2007                        | NILU  |
| Pfeilsticker K. (Co-author of Chapter 2) / A. Butz and M. Dorf (Contributors to Chapter 2)   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 2  |   | 2007                        |   |
| Pitari, G. and E. Mancini  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 5: Climate-Ozone Connections   | 5.1-49  | 2007                        | ULAQ.DF                                     |
| Pitari, G. and E. Mancini  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50   | Chapter 6: The ozone layer in the 21st century   | 6.1-43  | 2007                        | ULAQ.DF                                     |
| Prather, M.  | IPCC, Working Group I   | Chapter D481   |   | 2007                        |   |
| Pyle, J., T. Shepherd, G. Bodeker, P. Canziani, A. Gruzdev, N.J. Muthama, W. Randel, P. Forster, G. Pitari, M. Dameris and R. Müller   | IPCC/TEAC special report on: Safeguarding the ozone layer and the global climate system: issues related to HFC and PFC  | Chapter 1: Ozone and Climate   |   | 2005                        | UCAM, ULAQ, DLR, FZJ                        |

International Assessments / Reports / Books

|  |  |  |                |      |                     |
|--|--|--|----------------|------|---------------------|
| Pyle, J., T. Shepherd, G. Bodeker, P. Canziani, M. Dameris, P. Forster, A. Gruzdev, R. Müller, N.J. Muthama, G. Pitari, W. Randel                                      | Safeguarding the ozone layer and the global climate system. Issues related to hydrofluorocarbons and perfluorocarbons, Intergovernmental Panel on Climate Change (IPCC) and the Technical and Economic Assessment Panel (TEAP)   | Chapter 1: Ozone and climate: A review of interconnections     | 85-132         | 2005 | UCAM, DLR, ULAQ     |
| Pyle, J.A.   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Steering committee   |                | 2007 | UCAM                |
| Rex, M.  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 4: Polar ozone (lead author)                           |                | 2007 | AWI                 |
| Rex, M.  | SPARC PSC assessment   | Chapter 6: Modeling of stratospheric aerosols (lead author)    | in preparation |      | AWI                 |
| Siebesma, A.P., J.-L. Brenguier, C. S. Bretherton, W. W. Grabowski, J. Heintzenberg, B. Kärcher, K. Lehmann, J. C. Petch, P. Spichtinger, B. Stevens, and F. Stratmann | Clouds in the Perturbed Climate System: Their Relationship to Energy Balance, Atmospheric Dynamics, and Precipitation, Strüngmann Forum Report, Cambridge, MA: The MIT Press, Heintzenberg, J., and R. J. Charlson (eds.) .  |  | vol.2, 269     |      |                     |
| Sinnhuber, B., -M.   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Coauthor of Chapter 2, Contributing author to Chapters 6 and 8 |                | 2007 | UB and many others! |
| Timmreck, C. (coauthor)  | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 6  |                | 2007 | MPIMET              |
| Timmreck, C. (contributing author)   | WMO/UNEP: Scientific Assessment of ozone depletion: 2006, Report No. 50  | Chapter 5  |                | 2007 | MPIMET              |
| Urban, J., J. Rösevall, D.P. Murtagh, et al.   | Odin/SMR limb observations of lower stratospheric N <sub>2</sub> O, ClO, HNO <sub>3</sub> , and O <sub>3</sub> during the Arctic winters 2004-05 and 2005-06, in: Joint WMO/EU-SCOUT-O <sub>3</sub> Arctic Ozone Bulletin -- 2006 winter/spring summary, editor G. Braathen, (1), pp. 21-24, No. 23535, 2006 |  |                | 2006 |                     |
| Urban, J., J. Rösevall, D.P. Murtagh, et al.   | The Northern Hemisphere Stratosphere in the 2006/07 Winter, report edited by the European Ozone Research Coordinating Unit / University of Cambridge, 2007   |  |                | 2007 |                     |
| Weisenstein, D., Bekki, S., Pitari, G., Timmreck, C., and Mills, M.  | WCRP/SPARC scientific assessment on stratospheric aerosols   | Chapter 6: Modeling of stratospheric aerosols                  | 219-271        | 2005 | LMD, ULAQ, MPG(M)   |

Press

## SCOUT-O3 Related Dissemination

### Press

| Contributor(s)                            | Title / Details   | Media Name                            | Media Type       | Date/Year    | Partner(s)                 |
|---|---|---------------------------------------|------------------|--------------|----------------------------|
| Day, C., R. M. Wilson, S. G. Benka        | The Montreal Protocol mitigates climate change  | Physics Today                         | online journal   | Sep-08       |                            |
| Harris, N.R.P.                            | Tropical ocean sucks up vast amounts of ozone   | New Scientist                         | E Newspaper      | Jun-08       | UCAM                       |
| Harris, N.R.P. and J.A. Pyle              | Julian Siddle from BBC interviewed N.R.P. Harris and J.A. Pyle to discuss the Tropical Halogen Nature Paper   | BBC                                   | Interview        | Jun-08       | UCAM                       |
| Bürgi, H.                                 | Messflug nach Australien  | SkyNews                               | Magazine         | Mar-06       | UBERN                      |
| Da Silva, L.                              | Care with the high UV radiation during the year   | El Mercurio Valparaiso                | News paper       | 29-Jun-07    | Luis Da Silva              |
| Farman, J.                                | Writing a piece   | BBC website: The Green Room           | Web site         |              |                            |
| Farman, J.                                | "The Reunion": 20 years after the Antarctic Ozone Hole discovery  | BBC Radio 4                           | Radio            | Apr-07       | UCAM                       |
| Harris, N.R.P.                            | Quoted in "Tropical ocean sucks up vast amounts of ozone"   | New Scientist                         | Popular magazine | Jun-08       | UCAM                       |
| Harris, N.R.P.                            | Appearance on "Material World" a BBC R4 radio programme on parallels and differences between the public debate on ozone depletion and climate change.                                 | BBC                                   | Radio            | Sep-09       | UCAM                       |
| Harris, N.                                | Interview on International Ozone Day  | German Public Radio                   | Radio            | 12-Sep-07    |                            |
| Heuss, C.                                 | Doppelpunkt:: Atmosphärenforschung auf 20000 m Höhe   | Swiss Radio DRS                       | Radio            | 29-Nov-05    | UBERN                      |
| Langematz, U.                             | Schutz vor schädlicher UV-Strahlung: Die Ozonschicht  | Bundeszentrale für Politische Bildung | Online-dossier   | 2008         |                            |
| MacKenzie, A. R.                          | mild winters interview  | BBC Radio Lancashire                  | Radio            | Jan-07       | ULANC                      |
| MacKenzie, A. R.                          | climate change interview  | BBC Radio Lancashire                  | Radio            | 11-Jan-06    | ULANC                      |
| MacKenzie, A. R.                          | Interview on climate change   | Lancashire Life                       | Magazine         | Feb-07       | ULANC                      |
| Müller, R.                                | Geo-engineering   | press release Jül. 24.4.08            |                  | 2007         | FZJ                        |
| Nielsen, J.K., T. Christensen, N. larsen  | Bloggen fra stratosfæren.<br>videnskab.dk/content/dk/blogs/bloggen_fra_stratosfare<br><a href="http://www.dmi.dk/dmi/afrika_felttur.pdf">http://www.dmi.dk/dmi/afrika_felttur.pdf</a> | videnskab.dk                          | web page         | 2008         | DMI                        |
| Rex, M.                                   | Ozonloch - war da was ?   | Die Tageszeitung                      | Newspaper        | 3-Jun-05     | AWI                        |
| Rex, M.                                   | Erholung am Nordpol   | Süddeutsche Zeitung                   | Newspaper        | 27-May-05    | AWI                        |
| Rex, M.                                   | Rekordkälte gefährdet Ozonschicht   | Potsdamer Neueste Nachrichten         | Newspaper        | 2-May-05     | AWI                        |
| Rex, M.                                   | Der Abbau ist gestoppt  | Tagesspiegel                          | Newspaper        | 4-May-05     | AWI                        |
| Rex, M. and several others                | Nano  | Nano - science magazine               | TV               | 1-Feb-06     | AWI, ...                   |
| Sanderson, K.                             | The world we avoided  | Nature                                | Journal          | 5/9/08       | doi:10.1038/news.2008.1081 |
| Sembhi, H.                                | RESEARCH LEADS TO BETTER UNDERSTANDING OF GREENHOUSE EFFECT   | MA TV Leicester                       | Television       | Jun-05       | ULEIC                      |
| Sembhi, H.                                | RESEARCH LEADS TO BETTER UNDERSTANDING OF GREENHOUSE EFFECT   | University of Leicester press         | Press Release    | Jun-05       |                            |
| Sembhi, H., J. Remedios and J. Greenhough | RESEARCH LEADS TO BETTER UNDERSTANDING OF GREENHOUSE EFFECT   | British Satellite News                | Television       | Jun-05       | ULEIC                      |
| Sinnhuber, B.-M. and Justus Notholt       | Climate impact on air traffic   | Nordwestradio                         | Radio            | 23/3/09      | UNI BREMEN                 |
| Sinnhuber, B.-M.                          | Auch Brom aus natürlichen Quellen schädigt Ozonschicht  | Weser-Kurier                          | Newspaper        | 18 Jul. 2008 | UNI BREMEN                 |
| Sinnhuber, B.-M.                          | Klimawandel beeinflusst Ozonschicht   | Weser-Kurier                          | Newspaper        | 21 Sep. 2007 | UNI BREMEN                 |
| Weers, U., T. Peter and D. Brunner        | Auf den Spuren Hectors  | ETH life                              | Online newspaper | 8-Dec-05     | ETHZ                       |
| Various                                   | Hoch über den Wolken - Klimaforschung in stürmischen Höhen  | Swiss Radio DRS1                      | Radio            | 29-Nov-05    |                            |

Press

|              |            |                             |  |  |  |
|--------------|------------|-----------------------------|--|--|--|
| von Hobe, M. | Ozone-hole | press release Jül. 21.12.07 |  |  |  |
|--------------|------------|-----------------------------|--|--|--|

Presentations

## SCOUT-O3 Related Dissemination

### Presentations

| Author(s)  | Title  | Conference / Meeting  | Presentation Type | Date/Year | Partner(s)                          |
|--|--|---|-------------------|-----------|-------------------------------------|
| Agosta, E.A., P. Canziani  | A Case Study of Tropospheric Synoptic-Scale Wave Incursion into Lower Stratosphere   | Chapman Conference on The Role of the Stratosphere in Climate and Climate Change  | Conference        | 2007      | UCA                                 |
| Ammann, M., Krepelova, A., Huthwelker, T., Newberg, J.T., Bluhm, H.  | The effect of strong acids on the ice - air interface probed by photoelectron spectroscopy   | IGAC conference, Annecy, France   | Poster            | 2008      | PSI                                 |
| Arteta J. and V. Marécal   | Impact of convection processes in the troposphere-stratosphere exchange of chemical compounds: a regional approach to evaluate convection transport in global CTMs | IGAC 10th International Conference  | Poster            | Sep-08    | CNRS(LPCE)                          |
| Baehr, J., C.M. Volk, A.C. Kuhn, S. Viciani, A. Ulanovski, F. Ravegnani, H. Schlager, A. Stohl   | Influence of convection on the TTL over Brazil: Analysis of airborne in situ trace gas measurements  | SCOUT-O3 Annual Meeting, Potsdam, Germany, April  | Poster            | 2008      | JWGU, INOA, CAO, CNR-ISAC, DLR      |
| Baehr, J., C. M. Volk, A.C. Kuhn, S. Viciani, A. Ulanovski, F. Ravegnani, H. Schlager, A. Stohl  | Konvektiver Transport und Mischung von Grenzschichttracern in die TTL über Brasilien   | DACH Meteorologentagung, Hamburg, Germany, September  | Talk              | 2007      | JWGU, INOA, CAO, CNR-ISAC, DLR      |
| Baehr, J., C. M. Volk, A.C. Kuhn, S. Viciani, A. Ulanovski, F. Ravegnani, H. Schlager, A. Stohl  | Mixing processes after fresh and aged convection and their impact on trace gas concentrations in the tropical tropopause layer                                     | Reunion Island International Symposium on the tropical stratosphere-upper troposphere, Saint-Gilles-les-Bains, November | Poster            | 2007      | JWGU, INOA, CAO, CNR-ISAC, DLR      |
| Baehr, J., C. M. Volk, A.C. Kuhn, S. Viciani, A. Ulanovski, F. Ravegnani, H. Schlager, A. Stohl, P. Konopka  | Convective transport and mixing processes in the tropical tropopause region during TROCCINOX   | SCOUT-O3 annual meeting, Crete, Greece, May   | Poster            | 2007      | JWGU, INOA, CAO, CNR-ISAC, FZJ, DLR |
| Baehr, J., C.M. Volk, E. Ivanova, A. Werner, T. Wetter, H.P. Haase, U. Schmidt, G.P. Stiller, T. von Clarmann, N. Glatthor, S. Kellmann, K. Grunow and I. Levin  | Validation of MIPAS-ENVISAT CH4 and N2O vertical profiles by in situ aircraft observations   | Envisat Symposium, Salzburg, Austria, September   | Poster            | 2004      | UNIKARL                             |
| Bais, A., A., M. Blumthaler, A. Webb, G. Seckmeyer, S. Rapsomanikis, T. Ruhtz, R. Schmidhauser, J. Herman, D. Balis, S. Kazadzis, B. Schallard, R. Kift, A. Cede, D. Pissula, M. Wiegner, A. Kazantzidis, N. Kouremeti, E. Giannakaki, A. Kelektsoglou | Effects of aerosols on UV radiation: Overview of the SCOUT-O3 campaign   | European Aerosol Conference 2008, Thessaloniki, Greece, August  | Poster            | 2008      | AUTH, UIIMP, UMIST, UHAN, DUTH      |
| Bais, A.F., S. Kazadzis, C. Meleti, N. Kouremeti, J. Kaurola, K. Lakkala, H. Slaper, P.N. den Outer, W. Josefsson, U. Feister, M. Janouch  | Variability in spectral UV irradiance at seven European stations   | One Century of UV Radiation Research, September   | Poster            | 2007      | AUTH, FMI, RIVM, SHMI, DWD, CHMI    |
| Bais, A. F., A. Kazantzidis, S. Kazadzis and N. Kouremeti  | Application of a model derived cosine correction method on Brewer spectral measurements  | EGU General Assembly, Vienna, Austria, April  | Poster            | 2005      | AUTH                                |
| Balis, D., V. Amiridis, A. Arola, S. Kazadzis, A. Bais   | Characterization of the aerosol type using simultaneous measurements of the lidar ratio and the single scattering albedo during EARLINET (2001-2004)               | EGU General Assembly, Vienna, Austria, April  | Poster            | 2005      | AUTH                                |

## Presentations

|  |  |   |                         |      |                  |
|--|--|---|-------------------------|------|------------------|
| Barret, B., J.E. Williams, I. Bouarar, B. Sauvage, X. Yang, B. Josse, E. le Flochmoen, V.H. Peuch, P.F.J. van Velthoven, K. Law, J. Pyle en C. Liousse                         | Impact of West African Monsoon convective mixing and lightning NOx production upon upper tropospheric O3: a multi-model study  | AMMA 3rd International Conference, Ouagadougou, Burkina Faso, Africa, EU-AMMA (int.), | Talk                    | 2009 | KNMI             |
| Bencherif, H., N. Semane, G. Kirgis, B. Morel, A. Hauchecoren and R.D. Diab  | Stratospheric ozone variability and anomalies as observed by radiosondes over Irene, South Africa  | EGU General Assembly, Vienna, Austria, April  |                         | 2006 |                  |
| Bartels-Rausch, T., Huthwelker, T., Zimmermann, I., Ammann, M.   | Interaction of peroxyacetic acid with ice surfaces   | AGU Fall Meeting, San Francisco, USA  | Oral                    | 2008 | PSI              |
| Blumthaler, M., A. Kazantzidis, N. Krotkov, A. Bais, S. Kazadzis, D. Balis, E. Giannakaki, R. Schmidhauser, A. Arola, N. Kouremeti   | Aerosol Single Scattering Albedo Retrieval with Various Techniques in the UV and Visible Wavelength Range  | IAMAS, Montreal, Canada, July   | Poster                  | 2009 | AUTH, UIIMP, FMI |
| Blumthaler M., A. Kazantzidis, A. Bais, N. Kouremeti, D. Balis, N. Krotkov, S. Kazadzis, A. Arola, R. Schmidhauser   | Aerosol Single Scattering Albedo (SSA) Retrieval with various techniques in the UV and visible wavelength range  | MOCA-09   | Poster                  | 2009 | 48               |
| Blumenstock, T., J.P. Burrows, T. von Clarmann, E. Cuevas, H. Fischer, A. Griesfeller, F. Hase, Y. Kondo, S. Mikuteit, U. Raffalski, C. von Savigny, M. Schneider and T. Steck | Validation of O3 and HNO3 profiles from ENVISAT with ground-based FTIR measurement at Kiruna (Sweden) and Izana (Tenerife)   | Quadrennial Ozone Symposium QOS 2004, Kos, Greece, June                               | Poster                  | 2004 | UNIKARL          |
| Blumthaler, M.   | The SCOUT-O3 UV-aerosol campaign 2006  | One Century of UV Radiation Research, September                                       | Invited talk            | 2007 | UIIMP            |
| Boenisch, H., B. Bregman and A. Engel  | Model-Measurement Intercomparison of CO2 and SF6 in the extratropical Upper Troposphere Lower Stratosphere (UTLS) region   | SPARC-DA workshop, Noordwijk, October   | Poster                  | 2006 |                  |
| Borchi, F., J. P. Pommereau and A. Hauchecorne   | Evaluation of ozonesondes, HALOE, SAGE II and III, Odin-OSIRIS and SMR, and ENVISAT-GOMOS, -MIPAS and -SCIAMACHY O3 profiles in the tropics from SAOZ long duration balloon measurements | EGU General Assembly, Vienna, Austria, April  |                         | 2006 |                  |
| Borrmann, S.   | Aerosols and clouds in the tropical tropopause layer: In-situ measurements of microphysics and chemistry over West Africa  | 3rd AMMA Intern. Conference, Ouagadougou, Burkina Faso                                | Pr.6B.7                 | 2009 |                  |
| Borrmann, S.   | Stratospheric Cb overshoots over HECTOR during SCOUT-O3  | Intern.Conference On Cloud Physics and Precipitation, ICCP, Cancun, Mexico            | Invited Talk, Session 5 | 2008 |                  |
| Borrmann, S.   | Background aerosol, nucleation events, and meteoric dust: Tropical lower stratospheric and upper tropospheric in situ aerosol measurements   | AMMA Workshop, Forschungszentrum Jülich GmbH  | talk                    | 2007 |                  |
| Borrmann, S.   | Ultrafine Aerosols and Cloud Particles from Cb Anvils and Stratospheric Cb Overshoots: Tropical UT/LS Measurements from South- and Meso-America, Northern Australia, and Western Africa  | Réunion Island International Conference (RIIS)  | talk                    | 2007 |                  |
| Borrmann, S.   | On the nucleation of nanoparticles in the atmosphere: The TROCCINOX nucleation events in the tropical UT/LS  | Réunion Island International Conference (RIIS)  | talk                    | 2007 |                  |
| Borrmann, S.   | Background aerosol, nucleation events, and meteoric dust: Tropical lower stratospheric and upper tropospheric in situ aerosol measurements   | Universidad Nacional Autonoma de Mexico, Mexico City                                  | talk                    | 2007 |                  |
| Borrmann, S.   | Tropical and mid-latitude cirrus cloud measurements  | HGF Zentrum - ZTT Workshop, Forschungszentrum Jülich GmbH                             | talk                    | 2006 |                  |
| Borrmann, S.   | Background aerosol, nucleation events, and meteoric dust: UT/LS in-situ measurements of ultrafine particles  | NOAA ESRL-CSD (Earth System Research Laboratory) Seminar, Boulder, Colorado           | talk                    | 2006 |                  |
| Borrmann, S.   | Ultrafine and cloud particle measurements: Results from "Geophysica" measurements in Darwin, Australia   | SCOUT-O3 Workshop, University of Frankfurt  | Talk                    | 2006 |                  |

## Presentations

|   |  |   |                   |      |                            |
|---|--|---|-------------------|------|----------------------------|
| Borrmann, S.  | In-situ real-time aerosol and cloud particle analysis  | First French-German Summer School, Ile d'Oleron | lecture           | 2004 |                            |
| Borrmann, S., J. Curtius, D. Kunkel, R. Weigel, S. Vicani, C. Schiller, A. Ulanovski, F. Ravegnani, F. Cairo, and K. A. Law   | Observations of ultrafine particle nucleation events in the tropical UT/LS over West Africa and Brazil   | EGU General Assembly, Vienna, Austria, April    |                   | 2009 |                            |
| Borrmann, S., D. Kunkel, R. Weigel, J. Curtius, G. Shur, A. Ulanovski, and T. Deshler   | Background aerosol, nucleation events, and meteoric dust: Tropical lower stratospheric and upper tropospheric in-situ measurements of ultrafine aerosols | SCOUT-O3 Annual Meeting, Julich, Germany, March |                   | 2006 |                            |
| Borrmann, S.; Kunkel, D.; Weigel, R.; Curtius, J.; Shur, G.; Ulanovski, A.  | Ultrafine particles in the West-African UT/LS: In-situ measurements during AMMA in the August 2006 monsoon period  | EGU General Assembly, Vienna, Austria, April    | oral presentation | 2007 | MPI-C, CAO                 |
| Borrmann, S., R. Weigel, J. Curtius, H.-J. Vössing, S. Raupach, C.-M. Volk, C. Schiller, A. Ulanovsky   | Characterization of ultrafine Aerosols in the tropical and mid-latitude UT/LS by in situ Measurements  | EGU General Assembly, Vienna, Austria, April    | Oral              | 2006 | UMAINZ, JWGÜ, FZJ, CAO     |
| Bracher, A., K. Bramstedt, H. Bovensmann, J.P. Burrows, T. vonClarmann, K.U. Eichmann, H. Fischer, B. Funke, S. Gil-Lopez, N. Glatthor, U. Grabowski, M. Hoepfner, M. Kaufmann, S. Kellmann, M. Kiefer, M.E. Koukouli, A. Linden, M. Lopez-Puertas, G. Mengistu Tsidu, M. Milz, S. Noel, G. Rohen, A. Rozanov, V.V. Rozanov, C.von Savigny, M. Sinnhuber, J. Skupin, T. Steck, G.P. Stiller, D.-Y. Wang, M. Weber and M.W. Wuttke | Cross validation of O3, NO2 and H2O measured by the three atmospheric ENVISAT instruments GOMOS, MIPAS, and SCIAMACHY                                    | COSPAR 2004, Paris, France, July                | Oral presentation | 2004 |                            |
| Braesicke, P.   | Progress Report for Activity 1 in SCOUT-O3   | SCOUT-O3 Annual Meeting, Julich, Germany, March | oral              | 2006 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P.   | Process oriented validation of model representations of the coupled chemistry-climate system   | Middle Atmosphere Seminar, Reading              | Oral              | 2006 |                            |
| Braesicke, P. and J. Pyle   | Preliminary results from an intercomparison of coupled modes in chemistry-climate models   | RMS Conference/Exeter, September                | poster            | 2005 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P. and J. Pyle   | Preliminary Results of an Intercomparison of Coupled Modes in Chemistry-Climature Models   | CCMVal Meeting/Boulder, October                 | oral              | 2005 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P. and J. Pyle   | Chemistry-climate interactions comprising the stratosphere and troposphere: a model perspective  | IAMAS 2005/Beijing, August                      | invited oral      | 2006 |                            |
| Braesicke, P. and J. Pyle   | Intercomparison of coupled modes and their relation to ozone in different CCMs   | SCOUT-O3 Annual Meeting, Julich, Germany, March | oral              | 2006 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P. and J. Pyle   | An Intercomparison of Coupled Modes and Their Relation to Ozone in Different CCMs  | SCOUT-O3 Annual Meeting, Jülich, Germany, March | poster            | 2006 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P. and J. Pyle   | Intercomparison of coupled modes and their relation to ozone in different CCMs   | EGU General Assembly, Vienna, Austria, April    | oral              | 2006 | MPIMET, MPICHEM, DLR, ULAQ |
| Braesicke, P., et al.   | Implications of tropopause definitions on sub-tropical ozone distributions derived from models   | AGU Fall Meeting and EGU General Assembly       | Poster            | 2006 |                            |

## Presentations

|  |  |   |                   |      |                                |
|--|--|---|-------------------|------|--------------------------------|
| Braesicke, P., G. Stiller, O. Morgenstern, J.A. Pyle   | Modelled zonal asymmetries in age-of-air: To what extent are they real?  | EGU General Assembly, Vienna, Austria, April                | Oral presentation | 2008 | P. Braesicke (UCAM)            |
| Braesicke, P., M. Hurwitz and J. Pyle  | Process orientated CCM validation: The relationship between polar ozone loss and volume of PSCs                                      | RMS Conference/Exeter, September                            | poster            | 2005 |                                |
| Braesicke, P., M. Hurwitz and J. Pyle  | Idealisierte Klimasensitivitätsstudien: Eine Spurengasperspektive (Idealised climate-change experiments: a tracer perspective)       | Karin Labitzke's 70th Birthday Seminar/Berlin, October      | oral              | 2005 |                                |
| Braesicke, P., M. Hurwitz and J. Pyle  | The Detection of Climate Change in CCMs using Eigenmodes   | SCOUT-O3 Annual Meeting, Julich, Germany, March             | poster            | 2006 |                                |
| Braesicke, P., M. Hurwitz and J. Pyle  | An Idealised Climate Sensitivity Study Assessing the Impact of Changing CO2 and Ozone on Arctic Ozone Loss                           | EGU General Assembly, Vienna, Austria, April                | poster            | 2006 |                                |
| Braesicke, P., P. Hadjinicolaou, N.R.P Harris, and J.A. Pyle   | Model studies of dynamically induced variability in ozone: Consequences for trend detection and attribution                          | NERC COSMAS/UTLS OZONE Science Meeting, Cambridge, December | oral              | 2005 |                                |
| Bregman, B.  | Overview of chemistry-transport modelling in the UTLS  | SPARC UTLS workshop   | oral (invited)    | 2005 |                                |
| Bregman, B.  | Assimilation based on GOME, SCIA and OMI   | SPARC DA workshop   | oral              | 2005 |                                |
| Bregman, B.  | Data Assimilation Evaluation with a GCM-driven CTM   | SPARC DA workshop   | oral              | 2005 |                                |
| Bregman, B.  | Diagnosing stratospheric winds and their use in CTMs   | SPARC-DA workshop, Noordwijk, October                       | Oral              | 2006 |                                |
| Bregman, B., H. Boenisch, A. Engel, H. Fischer, Ch. Gurk, P. Hoor  | Propagation of the CO2 seasonal cycle in the UTLS: a 3D model evaluation with SPURT observations                                     | EGU General Assembly, Vienna, Austria, April                |                   | 2005 |                                |
| Brühl, C., M. Giorgetta, P. Jöckel, and B. Steil   | The chemical circulation model ECHAM5/MESy with internally generated QBO   | EGU Vienna  | Poster            | 2005 | MPG                            |
| Brühl, C., B. Steil, G. Stiller, B. Funke, P. Jöckel   | Nitrogen and Chlorine Compounds, and Ozone in the Lower Stratosphere, Comparison of MIPAS Satellite Data With the CCM E5/M1          | AGU San Francisco   | Poster            | 2006 | IMK/FZK                        |
| Brühl, C., B. Steil, G. Stiller, B. Funke, and P. Jöckel   | Nitrogen and chlorine compounds, and ozone in the lower stratosphere, comparison of MIPAS satellite data with the CCM E5/M1.         | AGU San Francisco   | Poster            | 2006 | MPG, FZK                       |
| Brühl, C., B. Steil, P. Jöckel and M. Giorgetta  | The Influence of the QBO on longlived chemical tracers in the CCM ECHAM5/MESy1 and in satellite data                                 | EGU General Assembly, Vienna, Austria, April                | Oral              | 2007 | MPICHEM, MPIMET                |
| Brühl, C., B. Steil, P. Jöckel, G. Stiller, B. Funke   | Comparison of the chemistry_climate model ECHAM5/MESy with nudged tropospheric meteorology with 9 years of satellite data.           | SPARC CCMVal, Leeds   | Poster            | 2007 | MPG, FZK                       |
| Brühl, C., P. Hoor, P. Jöckel, H. Tost, B. Steil, M. Kunze, C.M. Volk, H. Schlager, A. Ulanovsky, and S. Viciani | The Chemical Circulation Model ECHAM5/MESy1 compared to Aircraft Measurements of 3 tropical Campaigns                                | EGU Vienna  | Poster            | 2008 | MPG, DLR, FUB, JWGU, CAO, INOA |
| Brühl, C., A. Baumgärtner, P. Jöckel   | Transient simulation of near past stratospheric and tropospheric ozone with the CCM ECHAM5/MESy                                      | Quadr. Ozone Symp., Tromso                                  | Poster            | 2008 | MPG                            |
| Brühl, C., A. Baumgaertner, J. Lelieveld, P. Jöckel, B. Steil and the MESy Team                                  | Transient simulation from 1960 to the present with the CCM ECHAM5/MESy1 with focus on stratospheric water vapor                      | SPARC Gen. Ass., Bologna                                    | Poster            | 2008 | MPG                            |
| Brühl, C., A.J.G. Baumgaertner, P. Jöckel, and W. Steinbrecht  | Evaluation of transient CCM simulations with ozone sondes, lidar and Dobson stations with focus on northern midlatitudes and tropics | EGU Vienna  | Poster            | 2009 | MPG, DWD                       |
| Brunner, D.  | Meteorological support for SCOUT-O3 campaign in Darwin: Some general considerations  | SCOUT-O3 tropical modelling workshop, Zurich, September     | Oral              | 2005 |                                |
| Brunner, D.  | Satellite observations of tropical O3, H2O and cirrus clouds   | SCOUT-O3 Annual Meeting, Zürich, Switzerland, March         | Oral              | 2005 |                                |
| Brunner, D. and SCOUT-O3 team  | The SCOUT-O3 tropical aircraft measurement campaign in Darwin, Nov - Dec 2005  | EGU General Assembly, April, Vienna, Austria                | Oral              | 2005 |                                |
| Brunner, D., T. Peter, S. Füglistaler and T. Corti   | A meteorological overview of the Darwin campaign of SCOUT-O3   | SCOUT-O3 Annual Meeting, Julich, Germany, March             | Oral              | 2006 |                                |

## Presentations

|   |  |  |                   |      |  |
|---|--|--|-------------------|------|--|
| Butkovskaya, N., A. Kukui, G. Le Bras   | Nitric acid formation in the HO <sub>2</sub> + NO reaction: parametrisation in the pressure and temperature ranges of the troposphere  | EGU General Assembly, Vienna, Austria, April   | oral              | 2007 | CNRS ICARE Orléans   |
| Cagnazzo C., Manzini E., and Giorgetta M.   | Solar UV-visible representation in CCMs based on ECHAM   | CCMVal 2005, NCAR, Boulder, Colorado, USA, October   | Poster            | 2005 |  |
| Cagnazzo C., Manzini E., and Giorgetta M.   | Solar UV-visible representation in ECHAM5  | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Oral              | 2006 |  |
| C. Cagnazzo and E. Manzini  | Impact of the stratosphere on the winter tropospheric teleconnections between ENSO and the North Atlantic and European Region  | SPARC 4 <sup>th</sup> General Assembly   | Poster            | 2008 | INGV   |
| Cairo, F., K. Law, H. Schlager, S. Balestri, C. Blom, S. Borrmann, J. Curtius, M. De Reus, F. Fierli, A. Garnier, E.R.T. Kerstel, P. Konopka, P. Mazzinghi, F. Olschewski, A. Oulanovsky, F. Ravegnani, C. Schiller, G. Shur, N. Sitnikov, M. Streibel, M. Stefanutti, F. Stroh, T. Roeckmann, S. Viciani, H. Voessing, C. Voigt, M. Volk, M. von Hobe, R. Weiger, V. Yushkov | The M55 Geophysics deployment during the west african Monsoon: campaign overview and preliminary results   | EGU General Assembly, Vienna, Austria, April   | talk              | 2007 | CNR-ISAC, CNR, DLR, FZK, UMAINZ, FZJ, CAO, UCAM, MPIHD, INOA, JWGU |
| Canty, T., Salawitch, R., Stimpfle, R., Wilmouth, D., Schofield, R., Rex, M.  | Impact of recent laboratory measurements of the absorption cross section of ClOOCl on our understanding of polar ozone chemistry: Part II, Modeled and Measured ClOx during SOLVE  | American Meteorological Society: 14th Conference on Middle Atmosphere, (20-24 August) Portland, OR     | Poster            | 2007 |  |
| Canty, T., Salawitch, R., Rex, M., Santee, M., Schofield, R., Stimpfle, R., Stroh, F., von Hobe, M., Wilmouth, D.   | On our Understanding of Chlorine Partitioning and Ozone Loss in the Polar Vortex: Models and Measurements  | SPARC Workshop on The Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion Cambridge, June | Talk              | 2008 |  |
| Canziani, P.O., E.A. Agosta, F.E. Malanca   | Ozone and UT/LS interdecadal variability at southern midlatitudes 1980-2000  | IUGG XXIV  | Poster            | 2007 | UCA  |
| Canziani, P.O., Eduardo Andres AGOSTA, M.E.   | Hemisphere total ozone column horseshoe: an indicator of tropospheric-stratospheric coupled dynamics   | IUGG XXIV  | Poster            | 2007 | UCA  |
| Canziani, P.O., P. del V Repossi  | Interannual and Interdecadal Climatic Variations over the Southern Hemisphere: An Analysis of Climatic Shifts in Zonal Mean Geopotential Height Through the Troposphere and Stratosphere   | Chapman Conference on The Role of the Stratosphere in Climate and Climate Change                       | Poster            | 2007 | UCA  |
| Chauhan, S., M. Hoepfner, T. von Clarmann, H. Fischer, B. Funke, N. Glatthor, U. Grabowski, S. Kellmann, M. Kiefer, A. Linden, M. Lopez-Puertas, M. Milz, T. Steck, G.P. Stiller, L. Froidevaux, A.Lambert, M.L. Santee, and M. Schwartz  | IMK/IAA temperature, trace gas retrievals and cirrus coverage from MIPAS reduced resolution (RR) mode measurements during SCOUT-O3 Darwin campaign and intercomparison of vertical profiles with Microwave Limb Sounder (MLS) data | DACH-2007 Meteorologentagung, Hamburg, Germany, September  | Oral presentation | 2007 |  |
| Chipperfield, M., W. Feng   | Further analyses of the TOMCAT runs with a focus of Radon experiment and validation of convective mass flux against ECMWF output and cloud heights   | SCOUT-O3 Modelling workshop, ETH, Switzerland, January   | Talk              | 2009 |  |
| Christensen, T., B.M. Knudsen, J. P. Pommereau, G. Letrenne, A. Hertzog, F.Vial   | Validation of ECMWF-ERA40 tropical lower stratosphere temperatures and winds with long duration balloon data   | EGU General Assembly, Vienna, Austria, April   |                   | 2006 |  |

## Presentations

|  |  |   |                            |      |                                      |
|--|--|---|----------------------------|------|--------------------------------------|
| Christensen, T., J. K. Nielsen, N. Larsen, S. Khaykin and J. P. Pommereau  | Alternative interpretation of combined backscatter and humidity measurements of stratospheric particles during the SCOUT-AMMA balloon campaign | SCOUT-O3 Annual Meeting, Potsdam, Germany, April  | Oral/Poster                | 2008 |                                      |
| Clark H.L., M.-L. Cathala, H. Teyssedre, J.-P. Cammas, V.-H. Peuch   | Cross-tropopause fluxes of ozone using assimilation of MOZAIC observations in a global CTM   | AGU fall meeting  | Poster                     | 2006 |                                      |
| Corti, T. and Geophysica team  | Ice particles in the tropical lower stratosphere: transported by convective overshooting?  | SCOUT-O3 Annual Meeting, Julich, Germany, March   | Oral                       | 2006 |                                      |
| Cuevas, E, J.J. Rodriguez, M. Gil, J.C. Guerra, A. Redondas, J.J. Bustos,  | Stratosphere-troposphere exchange processes driven by the subtropical jet  | 7th European Meteorological Society/ 8th ECAM, San Lorenzo de El Escorial, Spain, October | Oral contribution          | 2007 | INTA                                 |
| Curtius, J., R. Weigel, H.-J. Vössing, A. Minikin, E.R. Lovejoy, J. Kazil, C. Schiller, and S. Borrmann,   | Observations of aerosol nucleation in the tropical UT/LS   | EGU General Assembly, Vienna, Austria   |                            | 2006 |                                      |
| Da Silva, L., Luis Morales, Luis Gutierrez, Eduardo Mera and Arnado Torres   | Effect of the stratospheric humidity on the ozone column in the west side of South America   | V Chilean Symposium of Environmental Physics and Chemistry, May                           | Poster                     | 2007 | Luis Da Silva                        |
| Dameris, M.  | Long-term changes and variability in a transient simulation with the CCM E39/C   | EGU General Assembly, Vienna, Austria, April  | invited talk               | 2005 | DLR                                  |
| Dameris, M.  | The future of the ozone layer: Results from chemistry-climate model simulations  | NDSC Lidar Workshop, MOHP Hohenpeissenberg, September                                     | invited talk               | 2005 | DLR                                  |
| Dameris, M., et al.  | Simulations of recent developments of atmospheric dynamics and chemistry with an interactively coupled global chemistry-climate model          | SPARC Conference, August  | poster                     | 2004 | DLR, MPG (MPIC, MPIM), UCAM, ETHZ    |
| Dameris, M., et al.  | Simulations of recent developments of atmospheric dynamics and chemistry with an interactively coupled global chemistry-climate model          | SPARC Conference, August  | poster                     | 2004 | DLR, MPG (MPIC, MPIM), UCAM, ETHZ    |
| Dameris, M., et al.  | Long-term changes and variability in a transient simulation with the CCM E39/C   | EGU General Assembly, Vienna, Austria, April  | oral (invited)             | 2005 | DLR, MPG (MPIC, MPIM), UCAM, ETHZ    |
| Dameris, M., et al.  | Long-term changes and variability in a transient simulation with the CCM E39/C   | EGU General Assembly, Vienna, Austria, April  | oral (invited)             | 2005 | DLR, MPG (MPIC, MPIM), UCAM, ETHZ    |
| Dameris, M., R. Deckert, V. Grewe, S. Matthes, M. Ponater, V. Eyring   | Impact of climate change and solar cycle effects on ozone recovery: Sensitivity studies with the chemistry-climate model E39/C                 | EGU General Assembly, Vienna, Austria, April  | Poster                     | 2006 | DLR                                  |
| Dameris, M., V. Grewe, M. Ponater, R. Deckert, V. Eyring, S. Matthes, C. Schnadt, A. Stenke, B. Steil, C. Brühl, M. A. Giorgetta                     | Long-term changes and variability in transient CCM ensemble simulations  | CCMVal Workshop, Boulder, October   | Poster                     | 2005 | DLR, MPIM, MPIC                      |
| De Mazière, M., Cindy Senten, C. Vigouroux, B. Dils, M. Kruglanski, A.C. Vandaele, E. Neefs, F. Scolas, P.F. Coheur, M. Carleer, S. Fally, J. Leveau | FTIR observations at Réunion Island in support of ACE validation   | 14th ACE Science Team Meeting, Waterloo University, October-November                      | oral                       | 2006 | Univ. Libre de Bruxelles (ULB), LACy |
| den Outer, P., H. Slaper, A. Bais, U. Feister, M. Janouch, W. Josefsson, J. Kaurola, T. Koskela  | UV climatology from quality controlled ground-based spectral UV measurements   | SPIE, Stockholm, Sweden   | oral, paper in proceedings | 2006 | RIVM, AUTH, DWD, SHMI, CHMI, FMI     |
| de Reus, M., A. Bansemmer, W. Frey, H. Vössing, S. Raupach, C. Schiller, N. Sitnikov, A. Heymsfield, and S. Borrmann                                 | In-situ measurements of ice crystals in the tropical stratosphere  | Intern.Conference On Cloud Physics and Precipitation, Cancun, Mexico                      | Poster                     | 2008 |                                      |

## Presentations

|   |  |   |              |      |           |
|---|--|---|--------------|------|-----------|
| de Reus, M., M. Szakall, H. Vössing, S. Raupach, J. Curtius, R. Weigel and S. Borrmann  | Cirrus Cloud Particle Size Distributions in the tropical Troposphere   | SCOUT-O3 Meeting, Jülich                                    |              | 2007 |           |
| de Reus, M.; M Szakall, H. – J. Voessing, S. Raupach, J. Curtius, R. Weigel, S. Borrmann  | Cirrus Cloud Particle Size Distribution in the tropical Troposphere  | EGU, Vienna   | Poster       | 2006 | 26,30     |
| Deshler, T. and J. L. Mercer.   | Large Particles in the Tropical Lower Stratosphere, In Situ Size Distributions   | AGU fall meeting, San Francisco, December                   |              | 2006 |           |
| Deshler, T. and J. L. Mercer.   | Large Particles in the Tropical Lower Stratosphere, In Situ Size Distributions   | AMMA-SCOUT-O3 Workshop, March                               |              | 2007 |           |
| Dorf, M., A. Butz, C. Camy-Peyret, M.P. Chipperfield, A. Engel, L. Kritten, J.C. Laube, W.T. Sturges, D.R. Worton and K. Pfeilsticker                                   | The budget of bromine and iodine in the tropical UT/LS as derived from spectroscopic balloon observations  | EGU General Assembly, Vienna, Austria, April                | Talk         | 2008 |           |
| D'Ovidio, F.  | Characterization of transport and mixing across the tropopause   | EGU General Assembly, Vienna, Austria, April                |              | 2005 | CNRS      |
| Engel, A., H. Bönisch, H. Oelhaf, G. Wetzel, F. Friedl-Vallon, K. Pfeilsticker, I. Levin, V. Catoire, M. Pirre, C. Camy-Peyret, S. Payan, T. Röckmann and P. Lämmerzahl | First results from the Tropical Envisat Validation Campaign: an overview   | EGU General Assembly, Vienna, Austria, April                |              | 2006 |           |
| Engel, A.   | Quantifying the Halogen input into the stratosphere  | EGU General assembly, 2009                                  | invited talk | 2009 | JWGU, UEA |
| Ern, M., H.-K. Cho, P. Preusse, S.D. Eckermann  | A ray-tracing approach for the vertical propagation of equatorial Kelvin waves from the troposphere into the middle atmosphere   | EGU General Assembly, Vienna, Austria, April                | Poster       | 2008 | FZJ       |
| Ern, M., P. Preusse, M. Krebsbach, R.H. Picard, M.G. Mlynczak, and J. M. Russell III  | QBO related variation of equatorial gravity wave activity compared to planetary equatorial wave modes in SABER temperature data  | IUGG General Assembly, Perugia, Italy, July                 | Oral         | 2007 | FZJ       |
| Eyring, V.  | Multi-model projections of stratospheric ozone in the 21st century   | IUGG General Assembly, Perugia, Italy, July                 | Invited Talk | 2007 | CCMVal    |
| Eyring, V.  | CCMVal status and workshop goals   | CCMVal Workshop, Leeds, UK, June                            | Talk         | 2007 | CCMVal    |
| Feng, W., M. Chipperfield   | 3D SLIMCAT Studies of Arctic Ozone Loss  | HIRDLS Science Team Meeting, University of Oxford, UK, June | Talk         | 2008 |           |
| Feng, W., M. Chipperfield, S. Dhomse  | Evaluation of cloud convection and tracer transport in a three-dimensional chemical transport model  | SCOUT-O3 Final Meeting, Schliersee, Germany                 | poster       | 2009 |           |
| Ferretti R, S. Gentile, G. Redaelli, A. Taddei  | Evaluation of the dynamical structure of deep convection in the tropics using a mesoscale model and high resolution back trajectories: Hector events during TWP-ICE and SCOUT-O3 campaigns | SCOUT-O3 Third annual meeting, Crete                        |              | 2007 | ULAQ      |
| Fiedler, V., H. Aufmhoff, R. Nau, A. Kuhlmann, F. Arnold and H. Schlager  | Sulfur dioxide measurements in the tropical troposphere: Deployment of an aircraft-based CIMS instrument with permanent in-flight calibration during the SCOUT-O3 tropical campaign.       | EGU General Assembly, Vienna, April                         | Poster       | 2006 | DLR       |
| Fix, A., C. Kiemle, M. Wirth, M. Esselborn, G. Ehret  | Lidar Observations of Water Vapour and Tropical Cirrus Clouds during the SCOUT-O3 Tropical Aircraft Campaign   | SCOUT-O3 Annual Meeting, Jülich, Germany, March             | Oral         | 2006 |           |
| Flury, T.   | Dynamical case study for a mesospheric water vapor enhancement over the Indian Ocean   | EGU General Assembly, April, Vienna, Austria                | Talk         | 2009 |           |
| Flury, T.   | Mesospheric Water Vapor Profiles on a Flight from Switzerland to Australia   | SCOUT-O3 annual meeting, Crete, Greece, May                 | Poster       | 2007 |           |
| Flury, T., Stefan C. Müller, Niklaus Kämpfer, Alyn Lambert  | Water vapor profiles along the flight track from Europe to Australia by microwave radiometry and its comparison with FISH, FLASH, Lidar and satellites                                     | SCOUT-O3 annual meeting, Crete, Greece, May                 | poster       | 2007 |           |

## Presentations

|   |   |  |                     |      |                      |
|---|---|--|---------------------|------|----------------------|
| Flury, T., S.C. Müller, N. Kämpfer, A. Lambert  | Mesospheric Water Vapor Profiles on a Flight from Switzerland to Australia  | SCOUT-O3 annual meeting, Crete, Greece, May                                  | Poster              | 2007 |                      |
| Flury, T., S. C. Müller, K. Hocke, N. Kämpfer   | Dynamical case study for a mesospheric water vapor enhancement over the Indian Ocean  | EGU General Assembly, Vienna, Austria, April                                 | Talk                | 2008 |                      |
| Flury, T., S. Müller, K. Hocke, N. Kämpfer  | What H <sub>2</sub> O can tell us about the mesosphere  | Mikrowellenseminar, Bern, Switzerland, April                                 | Talk                | 2008 |                      |
| Franz Immler, Kirstin Krüger, Masatomo Fujiwara, Otto Schrems   | Cirrus and dehydration at the tropical tropopause   | Annual meeting of the German Physical Society, Regensburg                    | Oral                | 2008 |                      |
| Freitas S. R., Longo K., Pirre M., Alonso M., Maréchal V. and L. F. Rodriguez:  | The Chemistry-CATT-BRAMS modeling system: numerical tools, data description and preliminary evaluation,   | LBA International Scientific conference "Amazon in perspective", November    | Oral Presentation   | 2008 | CPTEC and CNRS(LPCE) |
| Funke, B. for the IMK/IAA MIPAS/ENVISAT team, R.L. deZafra, G. Muscari, E. Dupuy, J. Urban and D. Murtagh   | Validation of CO measurements from MIPAS-ENVISAT with SMR and ground based microwave measurements   | EGU General Assembly, Vienna, Austria, April                                 | Oral presentation   | 2005 | UNIKARL              |
| Funke, B., T. von Clarmann, H. Fischer, S. Gil-Lopez, N. Glatthor, U. Grabowski, M. Hoepfner, M. Kaufmann, S. Kellmann, M. Kiefer, M.E. Koukoulis, A. Linden, M. Lopez-Puertas, G. Mengistu Tsidu, M. Milz, T. Steck, G.P. Stiller and D.-Y. Wang | Carbon monoxide in the middle atmosphere measured by MIPAS/ENVISAT in 2002  | Envisat Symposium, Salzburg, Austria, September                              | Poster              | 2004 | UNIKARL              |
| FZJ staff   |   | Polar Chlorine Chemistry Workshop Cambridge                                  | 3 oral              | 2008 | FZJ                  |
| FZJ staff   |   | Quadrennial ozone symposium, Tromsø  | 4 oral, 2 posters   | 2008 | FZJ                  |
| FZJ staff   |   | SPARC General Assembly, Bologna  | 1 oral, 7 posters   | 2008 | FZJ                  |
| FZJ staff   |   | Chapman Conference on Water Vapor and its Role in the Climate System, Hawaii | 1 oral, 2 posters   | 2008 | FZJ                  |
| FZJ staff   |   | AGU fall meeting, San Francisco  | 1 oral, 1 poster    | 2008 | FZJ                  |
| FZJ staff   |   | SPARC WAVAS workshop, Toronto  | 4 oral              | 2009 | FZJ                  |
| FZJ staff   |   | EGU General Assembly, Vienna   | 5 oral, 6 posters   | 2009 | FZJ                  |
| FZJ staff   |   | SCOUT-O3 Final Meeting, Schliersee, Germany, June                            | 3 oral, 2 posters   | 2009 | FZJ                  |
| FZJ staff   |   | IAMAS, Montreal  | 3 oral, 4 posters   | 2009 | FZJ                  |
| FZJ staff   |   | EGU General Assembly, Vienna, Austria, April                                 | 8 orals, 11 posters | 2007 |                      |
| Garane, K. Tourpali, A. F. Bais, C. Meleti  | Signals from natural fluctuations in the re-evaluated surface UV irradiance record of Thessaloniki, Greece  | EGU General Assembly, Vienna, Austria, April                                 | oral                | 2007 | AUTH                 |
| Garane, K., A. Bais, C. Meleti, S. Kazadzis, A. Kazantzidis   | Long term changes from re-evaluated solar UV radiation measurements at Thessaloniki, Greece   | SCOUT-O3 Annual Meeting, Jülich, Germany, March                              | Poster              | 2006 | AUTH                 |
| Gentile, S., R. Ferretti, F.S. Marzano, and N. Cimini   | A microphysical study using radar/satellite data and WRF high resolution model simulations for two events: Deep convection in the tropical area and a storm in the Mediterranean area       | 11th Plinius Conference on Mediterranean Storms, Barcelona, Spain            |                     | 2009 |                      |
| Gentile, S., R. Ferretti and F.S. Marzano   | Deep convection in the tropical area: Hector a case study using TRMM data and high resolution model simulation  | 2nd International Summit on Hurricanes and Climate Change, Corfu, Greece     |                     | 2009 |                      |
| Gentile, S., R. Ferretti and F.S. Marzano   | The microphysical structure of deep convection in the tropical area: TRMM Precipitation Radar data, TRMM Microwave Imager data and high resolution model simulation for Hector a case study | 10th Plinius Conference on Mediterranean Storms, Nicosia, Cyprus             |                     | 2008 |                      |
| Gerber, D.  | MARSCHALS to the rescue!  | SSTD Forum at Rutherford Appleton Lab., Oxon, UK, November                   | Talk                | 2006 |                      |

## Presentations

|  |   |  |                     |      |            |
|--|---|--|---------------------|------|------------|
| Gerber, D.   | MARSCHALS - "Scrutinising the UTLS region with millimetre-waves"  | Millimetre-wave Seminar University of Berne, Switzerland, May  | Talk                | 2007 |            |
| Gerber, D., B.P.Moyna, M.L.Oldfield, R.Siddans, W.J.Reburn, B.J.Kerridge, D.Matheson   | MARSCHALS & the MSF - "A Play in Four Acts"   | NERC MSF Meeting, June   | Talk                | 2006 |            |
| Gerber, D., B.P.Moyna, M.L.Oldfield, R.Siddans, W.J.Reburn, B.J.Kerridge, D.Matheson   | MARSCHALS - Current state of data analysis November 2006  | SCOUT-O3-ACTIVE Workshop, Cambridge, UK, November  | Talk                | 2006 |            |
| Gerber, D., B.P.Moyna, M.L.Oldfield, R.Siddans, W.J.Reburn, B.J.Kerridge, D.Matheson   | Progress in MARSCHALS Data Analysis   | SCOUT-O3 annual meeting, Crete, Greece, May  | Poster              | 2007 |            |
| Gerber, D., et al.   | The MARSCHALS UTLS Limb-Sounder - A Status Report on the Threshold of SCOUT-O3  | International Workshop on Submillimeter Wave Earth Observation, Kyoto, Japan, November                   | Talk                | 2005 |            |
| Gerber, D., et al.   | First results from the MARSCHALS mm-wave UTLS limb-sounder deployed in SCOUT-O3   | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Poster presentation | 2006 |            |
| Gerber, D., R. Siddans, W. J. Reburn, B. J. Kerridge, B. P. Moyna, M. L. Oldfield, D. N. Matheson  | Results from the first deployment of the MARSCHALS mm-wave UTLS limb-sounder in SCOUT-O3                                      | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Oral                | 2006 |            |
| Gerber, D., B.P.Moyna, M.L.Oldfield, R.Siddans, W.J.Reburn, B.J.Kerridge, D.Matheson   | MARSCHALS - Millimetre-Wave UTLS Limb-Sounder on the "Geophysica" High Altitude Aircraft                                      | COST723 Final Meeting, May   | Talk                | 2006 |            |
| Giannakaki E., D. Balis, D. Mueller, V. Amiridis, S. Rapsomanikis, A. Bais   | Estimates of microphysical properties over Thessaloniki, Greece using a Raman lidar and sunphotometric data                   | 24th International Laser radar Conference, Boulder, Colorado, USA, June                                  |                     | 2008 | AUTH, DUTH |
| Glatthor, N., T. von Clarmann, H. Fischer, B. Funke, U. Grabowski, M. Hoepfner, S. Kellmann, M. Kiefer, A. Linden, G. Mengistu Tsidu, M. Milz, T. Steck, G.P. Stiller and D.-Y. Wang | Comparisons of ESA-operational MIPAS CH4 and N2O profiles (IPF V4.61) with IMK-scientific retrievals and other measurements   | Second Workshop on the Atmospheric Chemistry Validation of Envisat (ACVE-2), ESRIN, Frascati, Italy, May | Poster              | 2004 | UNIKARL    |
| Goutail, F., A. Pazmino, F. Lefevre, J.P. Pommereau, M. Van Roozendael, M. Chipperfield, W. Feng, E. Kyro, S.B. Andersen, K. Stebel, V. Dorokhov, A. M. Fraser, K. Strong,           | Total ozone loss during the 2007/2008 Arctic winter and comparison to previous years.   | QOS, Tromsø, Norway, July  | Poster              | 2008 |            |
| Goutail, F., F. Lefevre, J.P. Pommereau, A. Pazmino, M. Van Roozendael, M. Chipperfield, W. Feng, E. Kyro, P. Eriksen, K. Stebel, V. Dorokhov, C. Adams, K. Strong,                  | Total ozone loss during the 2008/2009 Arctic winter and comparison to previous years.   | EGU General Assembly, April, Vienna, Austria   | Poster              | 2009 |            |
| Goutail, F., F. Lefevre, J.P. Pommereau, A. Pazmino, M. Van Roozendael, M. Chipperfield, W. Feng, E. Kyro, P. Eriksen, K. Stebel, V. Dorokhov, C. Adams, K. Strong,                  | Total ozone loss during the 2008/2009 Arctic winter and comparison to previous years.   | SCOUT-O3 Final Meeting, Schliersee, Germany, June  | Poster              | 2009 |            |
| Grovesnor, D.P., T.W. Choularton, H. Coe and G. Held   | Cloud resolving model studies of upper tropospheric dehydration due to tropical deep convection observed during HIBISCUS 2004 | EGU General Assembly, Vienna, Austria, April   |                     | 2006 |            |
| Grunow, K., U. Langematz, M. Rex, M. Dameris, U. Cubasch   | Climate change and Arctic winters: A dynamical feedback mechanism?  | SCOUT-O3 Annual Meeting, Potsdam, Germany, April   | Poster              | 2008 |            |
| Günther, G., C. Schiller, M. Krämer, P. Konopka, F. H. Silva dos Santos, and N. Spelten  | Transport Processes in the Tropical Tropopause Region   | SCOUT-O3 Annual Meeting, Julich, Germany, March  | oral                | 2006 |            |

## Presentations

|   |   |  |                         |      |                                      |
|---|---|--|-------------------------|------|--------------------------------------|
| Hadjinicolaou, P., J.A. Pyle and N.R.P. Harris  | The Recent Turnaround in Stratospheric Ozone over Northern Mid-Latitudes: A Dynamical Modelling Approach                | EGU General Assembly, Vienna, Austria, April   | Oral presentation       | 2005 | UCAM                                 |
| Harris, N.R.P.  | Distribution of short-lived bromocarbons in the tropics   | IGBP-UK meeting, London  | Oral                    | 2009 | UCAM                                 |
| Harris, N.R.P.  | Ship-borne measurements of halocarbons  | 2nd PGGM Conference, Taiwan  | Oral                    | 2009 | UCAM                                 |
| Harris, N.R.P.  | Results and Stratospheric Implications of SCOUT-O3 Research in the Tropics  | SMILES International Workshop, Kyoto University, Japan, March                          | Oral                    | 2008 | UCAM                                 |
| Harris, N.R.P.  | The long history of ozone measurements: Analyses of recent global ozone measurements                                    | 20th anniversary Montreal Protocol Meeting, Athens, September                          | Oral                    | 2007 | UCAM                                 |
| Harris, N.R.P.  | Presentations on SCOUT-03, ACTIVE and AMMA Field Campaigns  | SCOUT-O3 / DIAC meeting, University of Leicester, January                              | University of Leicester | 2005 | UCAM                                 |
| Harris, N.R.P.  | GMES-GATO Strategy Report: Overview and Key Findings  | 3rd Japan-EU Workshop on Climate Change Research, Yokohama, January                    | Oral presentation       | 2005 | UCAM                                 |
| Harris, N.R.P.  | Presentations on SCOUT-03, ACTIVE and AMMA Field Campaigns  | SCOUT-O3 / DIAC meeting, Leicester, UK   |                         | 2005 | UCAM                                 |
| Harris, N.R.P.  | Ozone-Climate Interaction in the UTLS: SCOUT-03   | 3rd Japan-EU Workshop on Climate Change Research, Yokohama, January                    | Oral presentation       | 2005 | UCAM                                 |
| Harris, N.R.P. et al.   | Boundary Layer Concentrations of Halocarbons at Coastal and Forest Sites in Borneo                                      | South China Sea Conference 2008, Kuantan, Malaysia                                     | Oral                    | 2008 | UCAM                                 |
| Harris, N.R.P. et al.   | Boundary Layer Concentrations of Halocarbons at Coastal Sites in Borneo   | European Geophysical Union, Vienna   | Oral                    | 2009 | UCAM                                 |
| Harris, N.R.P., R. Lehmann, M. Rex, and P. von der Gathen   | Understanding the Relation between V(PSC) and Arctic Ozone Loss   | SPARC General Assembly   | Oral                    | 2008 | UCAM, AWI                            |
| Harris, N.R.P., R. Lehmann, M. Rex, and P. von der Gathen   | Understanding the Relation between V(PSC) and Arctic Ozone Loss   | International Ozone Commission, Quadrennial Ozone Symposium                            | Oral                    | 2008 | UCAM, AWI                            |
| Harris, N.R.P., P. Braesicke, J. Levine, J.A. Pyle  | Transport through the Tropical Troposphere Layer,   | Réunion Island International Symposium, Saint-Gilles, Reunion Island, France, November | Oral                    | 2007 | UCAM                                 |
| Harris, N.R.P. and J.A. Pyle  | Ozone-Climate Interaction in the UTLS: SCOUT-03   | EGU General Assembly, Vienna, Austria, April   | Oral presentation       | 2005 | UCAM                                 |
| Hendrick, F., M. Van Roozendael, C. Fayt, C. Hermans, N. Theys, and M. De Mazière                                       | Seasonal variation and trends of tropospheric and stratospheric BrO derived from ground-based DOAS observations at 60°N | Third International DOAS Workshop, March   | oral                    | 2006 | BIRA-IASB                            |
| Höller, H., D. Betz, K. Schmidt   | LINET lightning observations in different climate regimes   | EGU General Assembly, Vienna, Austria, April   | Poster                  | 2006 | DLR                                  |
| Homan, C.D., C. M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, P. Konopka, D. Brunner | Vertical mixing and ascent in the TTL during the SCOUT-03 and AMMA/SCOUT aircraft campaigns                             | EGU General Assembly, Vienna, Austria, April   | Talk                    | 2008 | JWGU, INOA, CAO, CNR-ISAC, FZJ, ETHZ |
| Homan, C.D., C.M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani                          | Tracer measurements in the tropical tropopause layer during the AMMA/SCOUT-03 aircraft campaign                         | SCOUT-03 Final Meeting, Schliersee   | talk                    | 2009 | JWGU, BUW(Uwupp), CNR, CAO           |
| Homan, C.D., C.M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, D. Brunner              | Influence of biomass burning, convection and the subtropical jet on the TTL over Darwin                                 | SCOUT-03 Final Meeting, Schliersee   | Poster                  | 2009 | JWGU, BUW(Uwupp), CNR, CAO, ETHZ     |
| Homan, C.D., C.M. Volk, J. Baehr  | Residence times and vertical transport rates in the background TTL derived from in situ tracer measurements             | SCOUT-03 Final Meeting, Schliersee   | Poster                  | 2009 | JWGU, BUW(Uwupp)                     |
| Homan, C.D., C. M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, G. Günther, D. Brunner | Mixing of overshooting air in the TTL during the SCOUT-03 Aircraft Campaign   | EGU General Assembly, Vienna, Austria, April   | Poster                  | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ, ETHZ |

## Presentations

|  |   |   |                   |      |                                |
|--|---|---|-------------------|------|--------------------------------|
| Homan, C.D., C.M. Volk, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovski, F. Ravagnani, G. Günther | Mixing of overshooting air in the TTL during the SCOUT-O3 Aircraft Campaign   | SCOUT-O3-ACTIVE Workshop, Cambridge, UK, November                           | talk              | 2006 | JWGU, INOA, CAO, CNR-ISAC, FZJ |
| Hommel, R, H Kokkola, J Kazil, U Niemeier, Al Partanen, J Feichter, and C Timmreck                                       | Intercomparison of aerosol microphysics modules in the framework of the ECHAM5 climate model,   | European Aerosol Conferences 2009, Karlsruhe                                | poster            | 2009 |                                |
| Hommel, R., H Kokkola, J Kazil, U Niemeier, Al Partanen, J Feichter, and C Timmreck                                      | Intercomparison of aerosol microphysics modules in the framework of the ECHAM5 climate model  | EGU General Assembly, Vienna  | poster            | 2009 |                                |
| Hommel, R C. Timmreck, M.A Giorgetta, and H-F Graf   | The interannual variability of the stratospheric aerosol layer as seen in MAECHAM5-SAM2   | EGU General Assembly, Vienna  | poster            | 2009 |                                |
| Hommel, R, C. Timmreck, and H-F Graf   | Introducing the aerosol-climate model MAECHAM5-SAM2   | EGU General Assembly, Vienna  |                   |      |                                |
| Hommel, R C Timmreck, and HF Graf  | The middle atmosphere aerosol-climate model MAECHAM5-SAM2   | European Aerosol Conferences 2009, Karlsruhe                                | poster            | 2009 |                                |
| Hoor, P. and H. Wernli   | What do CO and water vapour tell us about transport in the UTLS?  | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2009 |                                |
| Hoor, P. and H. Wernli   | Transport regimes and the distribution of CO and H2O in the UTLS  | SCOUT-O3 Final Meeting, Schliersee, Germany, June                           | oral presentation | 2009 |                                |
| Hrechanyy, S., M. von Hobe and F. Stroh  | In-situ Measurements of Bromine Monoxide and Chlorine Monoxide in the Tropical Tropopause Region                                      | SCOUT-O3 Annual Meeting, Julich, Germany, March                             | Talk              | 2006 | FZJ                            |
| Hrechanyy, S., M. von Hobe and F. Stroh  | Lessons from In-situ Measurements of Bromine Monoxide in the Lower Stratosphere   | EGU General Assembly, Vienna, Austria, April                                | Talk              | 2006 | FZJ                            |
| Huntrieser, H., H. Schlager, A. Roiger et al.  | Lightning Activity and NOx Production (LNOx) in a Hector Blow-Up: First Observations During SCOUT-O3/ACTIVE                           | IAMAS / Montreal, 19-29 July  | oral              | 2009 |                                |
| Huthwelker T.1, Kerbat M.1, Pinzer B.2, Kaempfer T.2, Schneebeli M.2, Ammann M.1   | Uptake processes of nitrous oxide on ice studied with radioactively tracers   | 11th International Conference on the Physics and Chemistry of Ice PCI, July | Talk              | 2006 | SLS, Davos                     |
| Iachetti, D., G. Pitari, and E. Mancini  | Recent updates of the ULAQ-CCM: inclusion of the equatorial QBO and parameterization of UT/LS ice clouds                              | SCOUT-O3 2007, Crete, Greece  |                   | 2007 |                                |
| Iachetti, D., and G. Pitari  | Parameterisation of cirrus formation in the ULAQ-CCM: number and mass density, size distribution, optical depth and radiative forcing | SCOUT-O3 2007, Karlsruhe, Germany   |                   | 2007 |                                |
| Iachetti, D., G. Pitari, and V. Montanaro  | Homogeneous freezing of ice particles, including effects of aerosol size distribution in the University of L'Aquila CCM               | EGS 2006, Wien, Austria   |                   | 2006 |                                |
| Iachetti, D. and G. Pitari   | Parameterization of cirrus cloud formation in the University of L'Aquila climate chemistry model                                      | EGU General Assembly, Vienna, Austria, April                                | poster            | 2005 | ULAQ                           |
| Iachetti, D., G. Pitari and E. Mancini   | ACCENT/ Experiment 1. Results from ULAQ CCM   | ACCENT Meeting, January   | oral              | 2005 | ULAQ                           |
| Immmler F., Kaiser D., Schrems O., Krüger K., Fortuin J. P., Verver G. H. L.   | Thin ice clouds at the tropical tropopause; observations by a mobile lidar system during the STAR-project 2004 in Paramaribo/Suriname | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2005 | AWI, KNMI                      |
| Immmler F., Krüger K., Tegtmeier S., Schrems O., Verver G., Fortuin P.   | Lidar observations and model studies of subvisible cloud formation at the tropical tropopause.  | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2006 | AWI, KNMI                      |
| Immmler F., Schrems O.   | Observation of thin and subvisible cirrus in the tropics and mid latitudes.   | DPG Frühjahrstagung, Heidelberg, March                                      | Oral              | 2006 | AWI                            |
| Immmler F., Schrems O., Krüger K., Verver G., Fortuin P., Engelbart D.   | Cirrus clouds and ice supersaturated regions observed by lidar and radiosondes.   | NERC UTLS OZONE 'Water Vapour in the UTLS' Workshop, Lancaster, UK, July    | Oral              | 2005 | AWI, KNMI                      |
| Immmler F., Schrems O., Terli Ö., Beninga I., Ruhe W. (2006).  | Design and construction of a compact and mobile LIDAR system for atmospheric aerosol research.  | DPG Frühjahrstagung, Heidelberg, March                                      | Oral              | 2006 | AWI                            |
| Immmler, F., K. Krüger, G. Verver, M. Fujiwara, O. Schrems   | Equatorial Kelvin waves, cirrus clouds, and dehydration in the TTL.   | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2008 |                                |

## Presentations

|  |   |   |                 |                             |                           |
|--|---|---|-----------------|-----------------------------|---------------------------|
| Immler, F., K. Krüger, M. Fujiwara, G. Verver, M. Rex, O. Schrems                        | Equatorial Kelvin waves, cirrus clouds, and dehydration in the TTL  | RIIS, 5-9 November 2007, International Symposium, Reunion Island, France                        |                 | 2007                        |                           |
| Immler, F., K. Krüger, S. Tegtmeier, O. Schremms   | A study on the formation of thin clouds in the TTL based on ground-based and ship-borne lidar observations  | SCOUT-O3 Annual Meeting, Jülich, Germany, March   | oral and poster | 2006                        |                           |
| Immler, F., O. Schremms, D. Kaiser, K. Krueger, P. Fortuin, G. Verver                    | Thin ice clouds at the tropical tropopause: observations by a mobile lidar system during the STAR-project 2004 in Paramaribo/Suriname                       | EGU General Assembly, Vienna, Austria, April  |                 | 2005                        | AWI                       |
| Immler, F., R. Maurer, O. Schrems  | The Compact cloud and aerosol LIDAR ComCAL: first results aerosol measurements  | Annual meeting of the German Physical Society, Regensburg                                       | Oral            | 2008                        |                           |
| James, R. and B. Legras  | Mixing across the subtropical tropopause during pre-Ave campaign  | EGU General Assembly, Vienna, Austria, April  |                 | 2006                        |                           |
| Jégou, F., D. Hauglustaine, F. Lott, F. Lefèvre, S. Bekki                                | LMDZ-INCA a climate chemistry model for the troposphere and stratosphere  | EGU General Assembly, Vienna, Austria, April  | Poster          | 2006                        | (1) LSCE, (2) LMD, (3) SA |
| Jégou, F., D. Hauglustaine, F. Lott, J-P. Pomereau, F. Lefevre, and S. Bekki             | Validation of the LMDZ-INCA climate chemistry model   | CCMVal Workshop 2007, Leeds, UK   | Poster          | 2007                        | CNRS(LSCE)?<br>?          |
| Jégou, F., K. Law, D. Hauglustaine, S. Bekki, I. Pisso, F. Lott, F. Lefèvre, M. Marchand | Evaluation of the LMDZ-INCA chemistry-climate model in the extratropical tropopause region  | SCOUT-O3 Annual Meeting, Potsdam, Germany, April  | Poster          | 2008                        | CNRS(LSCE)?<br>?          |
| Jégou, F., K. Law, D. Hauglustaine, S. Bekki, I. Pisso, F. Lott, F. Lefèvre, M. Marchand | Evaluation of the LMDz-INCA chemistry-climate model in the extratropical tropopause region  | IGAC 2008 : 10 <sup>th</sup> Conference, Annecy-le-Vieux, France                                | Poster          | 7-12 September 2008         | CNRS(LSCE)?<br>?          |
| Jégou, F., K. Law, D. Hauglustaine, S. Bekki, I. Pisso, F. Lott, F. Lefèvre, M. Marchand | Evaluation of the LMDz-INCA chemistry-climate model in the extratropical tropopause region  | SPARC 2008 : 4 <sup>th</sup> General Assembly, Bologna, Italie                                  | Poster          | 1 August - 5 September 2008 | CNRS(LSCE)?<br>?          |
| Jégou, F., K. Law, D. Hauglustaine, S. Bekki, I. Pisso, F. Lott, F. Lefèvre, M. Marchand | Evaluation of the LMDz-INCA chemistry-climate model in the extratropical tropopause region  | SCOUT-03 2009 : 5 <sup>th</sup> annual meeting, Schliersee, Germany                             | Poster          | 15-17 June 2009             | CNRS(LSCE)?<br>?          |
| Jonas, M. and H. Wernli  | A Lagrangian climatology of stratosphere-troposphere exchange derived from the ERA-40 data set -- its features and limitations                              | EGU General Assembly, Vienna, Austria, April  | Poster          | 2008                        |                           |
| Jonas, M. and H. Wernli  | A Lagrangian climatology of STE derived from the ERA40 data set -- its features and limitations   | SCOUT-O3 Annual Meeting, Crete, Greece, May   | Poster          | 2007                        |                           |
| Jonas, M. and H. Wernli  | A Lagrangian climatology of stratosphere-troposphere exchange derived from the ERA40 data set - its features and the limitations of the underlying data set | IUGG, Perugia, July   | Oral            | 2007                        |                           |
| Jonas, M. and H. Wernli  | Eine Lagrange'sche Klimatologie des stratosphärisch-troposphärischen Massen- und Ozonaustauschs (STE) basierend auf dem ERA40 Reanalyse-Datensatz           | DACH, Hamburg, July   | Oral            | 2007                        |                           |
| Jonas, M. and H. Wernli  | A Lagrangian climatology of stratosphere-troposphere exchange derived from the ERA-40 data set - its features and limitations                               | 7th EMS Annual Meeting, San Lorenzo de El Escorial, Spain, October                              | Poster          | 2007                        |                           |
| Jonas, M. and H. Wernli  | A Lagrangian climatology of STE derived from the ERA40 data set -- its features and limitations   | SCOUT-O3 annual meeting, Crete, Greece, May   | poster          | 2007                        |                           |
| Jonas, M. and H. Wernli  | Cross-tropopause mass transport for the ERA40 period from Lagrangian calculations   | SCOUT-O3 Annual Meeting, Jülich, Germany, March   |                 | 2006                        |                           |
| Jonas, M. and H. Wernli  | A 44-year climatology of cross-tropopause mass and ozone transport based upon Lagrangian calculations   | Joint CACGP/IGAC/WMO Symposium on Atmospheric Chemistry at the Interfaces, Cape Town, September | oral            | 2006                        |                           |
| Jonas, M. and H. Wernli  | Comparison of Lagrangian estimates of cross-tropopause fluxes derived from different ECMWF data sets  | EGU General Assembly, Vienna, Austria, April  | Poster          | 2005                        |                           |

## Presentations

|   |  |   |                              |      |                      |
|---|--|---|------------------------------|------|----------------------|
| Jonas, M. and H. Wernli   | Global climatologies of cross-tropopause fluxes of mass and ozone  | EGU General Assembly, Vienna, Austria, April                                | Poster                       | 2005 |                      |
| Jonas, M. and H. Wernli   | Comparison of Lagrangian estimates of cross-tropopause fluxes derived from different ECMWF data sets   | EGU General Assembly, Vienna, Austria, April                                | Poster                       | 2005 |                      |
| Jonas, M. and H. Wernli   | Global climatologies of cross-tropopause fluxes of mass and ozone  | EGU General Assembly, Vienna, Austria, April                                | Poster                       | 2005 |                      |
| Junk, J., Feister, U., Görgen, K., Helbig, A  | Advantages of modelled ozone data for the reconstruction and analysis of long-term erythemal UV radiation time series  | International Conference on Urban Climate (ICUC 7), Japan                   | Poster                       | 2009 |                      |
| Kärcher, B.   | The Formation of HNO <sub>3</sub> / H <sub>2</sub> O Particles in Cirrus Clouds  | SCOUT-O3 Annual Meeting, Julich, Germany, March                             | Plenary Talk                 | 2006 |                      |
| Kärcher, B. and T. Koop   | The role of organic aerosols in homogeneous ice formation  | EGU General Assembly, Vienna, Austria, April                                | Talk                         | 2005 | DLR, ETH             |
| Karpechko, A., A. Lukyanov, E. Kyro, H. Vomel, A. Paukkunen, S. Khaikin, R. Kivi  | Transport of the water vapour in the winter Arctic lowermost stratosphere during LAUTLOS campaign in Sodankyla, Finland  | EGU General Assembly, Vienna, Austria, April                                | poster                       | 2005 |                      |
| Kazadzis, S., A. Bais, D. Balis, A. Kazantzidis, S. Misios, N. Kouremeti, E. Gianakaki, M. Zebila, V. Amiridis, P. Tzoumaka               | SCOUT-O3 aerosol campaign: Temporal and spatial variations of aerosols at Thessaloniki, Greece   | One Century of UV Radiation Research, September                             | Poster                       | 2007 | AUTH                 |
| Kazantzidis, A., A. Bais, K. Garane, S. Kazadzis, C. Meleti   | Estimation of UV irradiance from ancillary data and comparison with measurements at Thessaloniki, Greece (40.5°N, 23°E)  | SPiE, Stockholm, Sweden   | poster, paper in proceedings | 2006 | AUTH                 |
| Kazantzidis, A., A. F. Bais   | Estimation of daily erythemal UV dose at five European stations from measurements of solar irradiance, total ozone and snow observations: first results                  | Cost 726 Workshoph, Garmisch-Partenkirchen, Germany, September              | Poster                       | 2005 | AUTH                 |
| Kazantzidis, A., A. F. Bais, U. Feister, B. Johnsen, L. Vuilleumier   | Estimation of erythemal dose at four European stations from ancillary measurements   | SCOUT-O3 Annual Meeting, Julich, Germany, March                             | Poster                       | 2006 | AUTH                 |
| Kazantzidis, A., A.F. Bais, P. Den Outer, H. Slaper, T. Koskela, U. Feister, M. Woldt   | Reconstructed long-term erythemal irradiance over Europe from measurements of solar irradiance and total ozone   | 12th Congress of the European Society for Photobiology, September           | Oral                         | 2007 | AUTH, FMI, RIVM, DWD |
| Kazantzidis, A., A.F. Bais, S. Kazadzis, N. Kouremeti, D. Balis, E. Gianakaki, R. Schmidhauser, K. Kelektoglou, S. Rapsomanikis, R. M. Hu | The aerosol single scattering albedo during the SCOUT-O3 Aerosol-UV radiation campaign   | One Century of UV Radiation Research, September                             | Poster                       | 2007 | AUTH, CPERI          |
| Kerbrat M., Huthwelker T., Pinzer B., Kaempfer T., Schneebeli M., Ammann M.   | Comparison of the specific surface area of natural and artificial snow samples measured using methane adsorption at 77 K and micro-tomography                            | 11th International Conference on the Physics and Chemistry of Ice PCI, July | Poster                       | 2006 | SLS Davos            |
| Kerbrat, M.; Huthwelker, T.; Gäggeler, H. W.; Pinzer, B.; Schneebeli, M.; Ammann, M.  | Co-adsorption of nitrous acid and acetic acid on ice   | EGU General Assembly, Vienna, Austria, April                                | Poster                       | 2007 |                      |
| Kivi, R. and E. Kyrö  | Ozone, polar stratospheric cloud and stratospheric water vapor observations in northern Finland  | EGU General Assembly, Vienna, Austria, April                                | poster                       | 2008 | FMI                  |
| Kivi, R., E. Kyrö, A. Dörnbrack   | Polar stratospheric cloud and ozone observations in northern Finland   | EGU General Assembly, Vienna, Austria, April                                | poster                       | 2005 |                      |
| Kivi, R., E. Kyrö, A. Dörnbrack, H. Vömel, A. Paukkunen, V. Yushkov, A. Lukyanov, S. Khaykin, R. Neuber, M. Müller                        | Stratospheric and Upper Tropospheric Water Vapor Observations in Sodankyla   | EGU General Assembly, Vienna, Austria, April                                | poster                       | 2005 |                      |
| Knudsen, B., og B. Christiansen   | ERA40 and REAN temperature errors and future ozone extrapolations  | SCOUT-O3 Annual Meeting, Julich, Germany, March                             | poster                       | 2006 | DMI                  |
| Knudsen, B.M., T. Christensen, A. Hertzog, A. Deme, F. Vial and J. P. Pommereau   | Accuracy of analysed temperatures, winds and trajectories in the southern hemisphere tropical and mid-latitude stratosphere as compared to long duration balloon flights | EGU General Assembly, Vienna, Austria, April                                |                              | 2006 | DMI                  |

## Presentations

|  |  |  |                               |      |  |
|--|--|--|-------------------------------|------|--|
| Koop, T.   | Atmospheric Water Vapor, Aerosols, and Clouds: A Microphysical Perspective   | SPARC Assembly, Bologna, Italy   | Invited Plenary SPARC Lecture | 2008 | Bielefeld                              |
| Koop, T.   | Ice nucleation and growth in aqueous solutions   | British Association for Crystal Growth Conference 2008, Loughborough University, UK  | Invited Plenary Lecture       | 2008 |  |
| Koop, T.   | Glasses in the Sky: The Unusual Properties of Organic Aerosols   | SPARC-WAVAS authors meeting / Toronto, Canada  | Oral                          | 2009 |  |
| Koop, T. and B. Zobrist  | Comparison of parameterizations for homogeneous and heterogeneous ice nucleation   | EGU General Assembly, Vienna, Austria, April   | Poster                        | 2009 | ETH                                    |
| Koop, T. and B. Zobrist  | Parameterizing Heterogeneous Ice Nucleation Processes in Environmental Systems   | 18th International Conference on Nucleation and Atmospheric Aerosols; Prague (Czech Republic), August  | Oral                          | 2009 | ETH/Bielefeld                          |
| Koop, T. and B. Zobrist  | Comparison of parameterizations for homogeneous and heterogeneous ice nucleation   | SCOUT-O3 Final Meeting, Schliersee, Germany, June  | Poster                        | 2009 | ETH                                    |
| Koop, T., B. Zobrist, C. Marcolli, D.A. Pedernera  | Ice clouds and humidity  | EGU General Assembly, Vienna, Austria, April   | Invited talk                  | 2008 | ETHZ/Biel                              |
| Koop, T., D.A. Pedernera, C. Marcolli, B. Zobrist  | The effects of organics on ice nucleation  | International Workshop on Upper Tropospheric Humidity, Karlsruhe, Germany, June  | Invited talk                  | 2007 | ETHZ/Biel                              |
| Koop, T., B. Kärcher, B. Zobrist, C. Marcolli, B.P. Luo, T. Peter  | Organics and ice nucleation: homogeneous and heterogeneous nucleation processes  | The routes for organics oxidation in the atmosphere, European Science Foundation conference within the INTROP program / Alpe d'Huez, France, January | Invited talk                  | 2006 | ETH Zurich / Bielefeld University, DLR |
| Kouremeti, N., A.F. Bais, S. Kazandzis   | A CCD spectrometer for direct solar irradiance and sky radiance measurements   | One Century of UV Radiation Research, September  | Poster                        | 2007 | AUTH                                   |
| Krämer, M., C. Schiller, S. Schlicht, N. Spelten, Ch. Voigt and H. Schlager  | A Climatology of Ice in Arctic, Midlatitude and Tropical Cirrus: Implications for Nitric Acid partitioning                 | SCOUT-O3 Annual Meeting, Julich, Germany, March  | talk                          | 2006 | FZJ, DLR                               |
| Krämer, M., C. Schiller, S. Schlicht, N. Spelten, Ch. Voigt and H. Schlager  | A Climatology of Ice in Arctic, Midlatitude and Tropical Cirrus: Implications for Nitric Acid partitioning                 | EGU General Assembly, Vienna, Austria, April   | Oral                          | 2006 | FZJ and DLR                            |
| Krepelova, A., Ammann, M., Newberg, J.T., Bluhm, H., Huthwelker, T.  | Influence of nitric acid on ice surface melting studied by X-ray photoelectron spectroscopy                                | AICI-HiT-SPARC workshop, British Antarctic Survey, Cambridge, UK   | Oral                          | 2008 | PSI                                    |
| Kritten, L., A. Butz, C. Camy-Peyret, M. Dorf, H. Oelhaf, C. Prados-Roman, U. Reichl, B. Simmes, F. Weidner and K. Pfeilsticker    | Time-Resolved Profiling of Stratospheric Radical Species by Balloon-Borne Skylight Lime Observations - A Sensitivity Study | 4th International Atmospheric Limb Workshop, October/November  | Talk                          | 2007 |  |
| Kritten, L., A. Butz, T. Deutschmann, M. Dorf, H. Oelhaf, C. Prados-Roman, B. Simmes, F. Weidner and K. Pfeilsticker               | Ballongestützte Messungen von HONO in der oberen tropischen Troposphäre  | DPG Frühjahrstagung, Darmstadt, March  | Talk                          | 2008 |  |
| Kritten, L., A. Butz, T. Deutschmann, M. Dorf, K. Grunow, H. Oelhaf, C. Prados-Roman, R. Schofield, G. Wetzels and K. Pfeilsticker | Time Resolved Profiling of HONO by Balloon-Borne Skylight Lime Observations  | EGU General Assembly, Vienna, Austria, April   | Poster                        | 2008 |  |
| Kritten, L., A. Butz, T. Deutschmann, M. Dorf, K. Grunow, H. Oelhaf, C. Prados-Roman, R. Schofield, G. Wetzels and K. Pfeilsticker | Time Resolved Profiling of HONO by Balloon-Borne Skylight Lime Observations  | Invited Expert workshop: Nitrous acid Bergische Universität Wuppertal, Germany   | Poster                        | 2008 |  |
| Krueger, K., S. Tegtmeier, F. Immler, T. Corti, I. Wohltmann, M. Rex, P. Haynes and J.-J. Morcrette                                | Transport processes calculated in the TTL by a newly developed trajectory model coupled with a radiative transfer model    | EGU General Assembly, Vienna, Austria, April   |                               | 2005 | AWI                                    |
| Krüger, K.   | The middle atmosphere in climate change  | SFB-Seminar, IFM-GEOMAR, Kiel  | oral                          | 2005 |  |

## Presentations

|  |  |   |                 |      |   |
|--|--|---|-----------------|------|---|
| Krüger, K., S. Tegtmeier, I. Wohltmann, M. Rex   | Multi-year calculations of transport processes in the TTL  | SCOUT-O3 Annual Meeting, Julich, Germany, March   | oral and poster | 2006 |   |
| Krüger, K., S. Tegtmeier, I. Wohltmann, M. Rex   | Multi-year calculations of transport processes in the TTL  | EGU General Assembly, Vienna, Austria, April  | poster          | 2006 |   |
| K. Krüger, S. Tegtmeier, F. Immler, M. Rex, I. Wohltmann, O. Schrems, P. Haynes, J.-J. Morcrette   | Transport processes in the TTL calculated by a newly developed trajectory model coupled with a radiative transfer model                                    | EGU General Assembly 2005, April, Vienna, Austria   | Poster          | 2005 |   |
| Kuhn, A.C, C. M. Volk, J. Baehr, A. Werner, E. Ivanova, P. Konopka, A. Ulanovski, F. Ravegnani, S. Viciani, H. Schlager  | Isentropic transport and mixing in the sub-tropical UTLS over Brazil: Analysis of airborne tracer measurements during Troccinox II                         | SCOUT-O3 Annual Meeting, Crete, Greece, May   | Poster          | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ, DLR   |
| Kuhn, A.C, C. M. Volk, J. Baehr, A. Werner, E. Ivanova, P. Konopka, A. Ulanovski, F. Ravegnani, S. Viciani, H. Schlager  | Horizontale Mischung in der tropischen Tropopausenregion beobachtet mittels Messungen langlebiger Spurengase auf dem Höhenforschungsflugzeug Geophysica    | DACH Meteorologentagung, Hamburg, Germany, September  | Talk            | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ, DLR   |
| Kuhn, A.C, C. M. Volk, J. Baehr, A. Werner, E. Ivanova, P. Konopka, A. Ulanovski, F. Ravegnani, S. Viciani, H. Schlager  | Isentropic transport and mixing between the tropical UTLS and the extratropical stratosphere as observed by in-situ measurements of long-lived trace gases | Reunion Island International Symposium on the tropical stratosphere-upper troposphere, Saint-Gilles-les-Bains, November | Poster          | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ, DLR   |
| Kunze, M., U. Langematz  | Influences of the Indian Summer Monsoon on tracer concentrations in the UTLS as simulated by chemistry climate models                                      | EGU-General Assembly 2009, Vienna, April  | Poster          | 2009 | S. Bekki, IPSL<br>C.Brühl MPI-C<br>M. Chipperfield<br>U Leeds M.<br>Dameris DLR<br>R. Garcia<br>NCAR<br>M. Giorgetta<br>MPI-M |
| Kunze, M., U. Langematz  | Representation of the Asian summer monsoon circulation in chemistry climate models   | SPARC 4th General Assembly 2008, Bologna, Italy, September  | Poster          | 2008 | S. Bekki, IPSL<br>C.Brühl MPI-C<br>M. Chipperfield<br>U Leeds M.<br>Dameris DLR<br>R. Garcia<br>NCAR<br>M. Giorgetta<br>MPI-M |
| Kunze, M., C. Bruehl, F. dAmato, M. Dameris, P. Hoor, P. Joeckel, C. Kurz, U. Langematz, M. Lawrence, F. Ravegnani, C. Schiller, H. Schlager, N. Sitnikov, A. Ulanovsky, S. Viciani, and C.M. Volk | Comparison of SCOUT-O3 Darwin campaign measurements with results from a global chemistry-climate model along flight tracks                                 | CCMVal Workshop Leeds   | Poster          | 2007 |   |
| Kunze, M., C. Brühl, P. Hoor, P. Jöckel, H. Tost, B. Steil, M. Kunze, C.M. Volk, H. Schlager, A. Ulanovsky, S. Viciani   | The Chemical Circulation Model ECHAM5/MESy1 compared to Aircraft Measurements of 3 tropical Campaigns  | EGU General Assembly, Vienna, Austria, April  | Poster          | 2008 |   |

## Presentations

|   |  |   |              |        |   |
|---|--|---|--------------|--------|---|
| Kunze, M., P. Braesicke, P. Telford, O. Morgenstern, C. Bruehl, P. Joeckel, C. Hoyle, W. Feng, M. Chipperfield, C. Schiller, F. Ravagnani, V. Yushkov, S. Viciani, A. Ulanovsky | Trace constituents in the tropical TTL as modelled by CCMs and CTMs compared with campaign measurements                      | SCOUT-O3 Annual Meeting, Potsdam, Germany, April          | Talk, Poster | 2008   |   |
| Kunze, M., U. Langematz, and the SCOUT-O3 CCMVal Team   | Representation of the summer monsoon circulation of the lower stratosphere in chemistry-climate models                       | EGU General Assembly, Vienna, Austria, April              | Talk         | 2006   |   |
| Kunze, M., U. Langematz, and the SCOUT-O3 CCMVal Team   | Representation of the summer monsoon circulation of the lower stratosphere in chemistry-climate models                       | SCOUT-O3 Annual Meeting, Julich, Germany, March           | Talk         | 2006   |   |
| Kuttippurath J., S. Godin-Beekmann, F. Lefevre and A. Pazmino   | Simulations of ozone loss for the recent Arctic and Antarctic winters  | Quadrennial Ozone Symposium                               | Poster       | Jul-09 |   |
| Kuttippurath J., S. Godin-Beekmann, F. Lefevre and A. Pazmino   | Numerical simulation of ozone loss in the Antarctic winters 2005-2008: Comparison with MLS measurements                      | EGU General Assembly                                      | Poster       | Apr-09 |   |
| Kuttippurath, J., F.. Goutail, F. Lefèvre, A. Pazmiño, J. P. Pommereau, M. Chipperfield, W. Feng,   | Antarctic Ozone Loss 1988-2008 History at Dumont d'Urville (67S, 140E). Vienna, Austria, April 2009                          | EGU General Assembly, Vienna, Austria, April              | Poster       | 2009   |   |
| Kuttippurath, J., F.. Goutail, F. Lefèvre, A. Pazmiño, J. P. Pommereau, M. Chipperfield, W. Feng,   | Antarctic Ozone Loss 1988-2008 History at Dumont d'Urville (67S, 140E). Vienna, Austria, April 2009                          | SCOUT-O3 Final Meeting, Schliersee, Germany, June         | Poster       | 2009   |   |
| Kuttippurath, J., F.. Goutail, F. Lefèvre, A. Pazmiño, J. P. Pommereau, M. Chipperfield, W. Feng, and H. Roscoe,  | Chemical ozone loss in the Antarctic winter of 2006 and comparison with that of 2005 and 2007 ,                              | QOS, Tromsø, Norway, July                                 | Poster       | 2008   |   |
| Lakkis, S., A. Yuchechen, P. Canziani   | The tropopause as derived from upper-air, reanalyses and remote sensing data: (dis)advantages for each method                | 7th Annual Meeting of the European Meteorological Society | Conference   | 2007   | UCA   |
| Lakkis, S., A. Yuchechen, P. Canziani   | Single and multiple tropopause events as GPS, radiosonde and reanalyses data reveal: a comparison in the Southern Hemisphere | 7th Annual Meeting of the European Meteorological Society | Conference   | 2007   | UCA   |
| Lakkis, S.G. , P.O. Canziani  | Multiple tropopause events as GPS, Radiosonde and Reanalyses data reveal in the Southern Hemisphere                          | ICES  | Conference   | 2007   | UCA   |
| Lakkis, S.G., A.E. Yuchechen  | Study over the Southern Hemisphere using GPS, ECMWF and reanalysis data  | IUGG XXIV   | Conference   | 2007   | UCA   |
| Langematz, U., M. Kunze   | Influences of the Indian Summer Monsoon on tracer concentrations in the UTLS as simulated by chemistry climate models        | CCMVal-Workshop 2009, Toronto, June                       | Poster       | 2009   | S. Bekki, IPSL<br>C.Brühl MPI-C<br>M. Chipperfield<br>U Leeds M.<br>Dameris DLR<br>R. Garcia<br>NCAR<br>M. Giorgetta<br>MPI-M |
| Langematz, U., M. Kunze   | Influences of the Indian Summer Monsoon on tracer concentrations in the UTLS as simulated by chemistry climate models        | SCOUT-O3 Annual Meeting 2009, Schliersee, June            | Poster       | 2009   | S. Bekki, IPSL<br>C.Brühl MPI-C<br>M. Chipperfield<br>U Leeds M.<br>Dameris DLR<br>R. Garcia<br>NCAR<br>M. Giorgetta          |
| Langematz, U.   | Predictions, based on a new generation of CCMs   | SCOUT-O3 Annual Meeting, Crete, Greece, May               | Talk         | 2007   |   |

## Presentations

|   |  |   |                 |          |   |
|---|--|---|-----------------|----------|---|
| Langematz, U.   | Global Climate Modelling at the Freie Universität Berlin (FUB):<br><u>Overview of past activities and future perspectives</u>                        | Workshop at MPI für Chemie, Mainz   | Talk            | 2006     |   |
| Langematz, U., and M. Kunze   | Observed trends of polar stratospheric temperature and vortex dynamics for the evaluation of Chemistry-Climate Models (CCMs)                         | SCOUT-O3 Annual Meeting, Julich, Germany, March   | Poster          | 2006     |   |
| Langematz, U., and M. Kunze   | Observed trends of polar stratospheric temperature and vortex dynamics for the evaluation of Chemistry-Climate Models (CCMs)                         | EGU General Assembly, Vienna, Austria, April  | Poster          | 2006     |   |
| Laube, J.C., A. Engel, H. Bönisch, W. T. Sturges, M. Braß and T. Röckmann   | Stratospheric lifetimes of long-lived halocarbons  | SCOUT-O3 Final Meeting, Schliersee, Germany, June   | Poster          | 2009     |   |
| Laube, J.C., C.A.M. Brenninkmeijer, A. Engel, S.A. Montzka, E.G. Nisbet, K.P. Shine, M. Steinbacher, and W.T. Sturges | A systematic search for unknown halocarbons in the troposphere and stratosphere - Overview and first results of the CLEARFOGG project                | EGU General Assembly, Vienna, Austria, April  | Oral            | 2009     | 46, 62, 30                                |
| Laube, J.C., A. Engel, H. Bönisch, T. Möbius, D. R. Worton and W. T. Sturges  | The impact of very short-lived organic substances on stratospheric ozone depletion – A case study  | 4th SPARC General Assembly, 31st August – 5th September 2008, Bologna, Italy                                      | Poster          | 2008     |   |
| Laube, J.C., A. Engel, H. Bönisch, D. R. Worton and W. T. Sturges   | Unknown chlorinated and brominated organic compounds in the troposphere and stratosphere   | AGU Fall Meeting 2008, San Francisco, USA, December   | Poster          | 2008     |   |
| Laube, J.; A. Engel, H. Bönisch, T. Möbius, M. Dorf, K. Pfeilsticker, D. Worton, W. Sturges, U. Schmidt               | The stratospheric chlorine and bromine loading in the tropics derived from balloon-born observations   | EGU General Assembly, Vienna, Austria, April  | Poster          | 2007     |   |
| Le Bras, G.   | Reactions at the low temperatures of the upper troposphere   | 19th Int. Symp. Gas kinetics, Orléans, July   | Invited talk    | 2006     | CNRS ICARE Orléans                        |
| Legras, B.  | Variability of the Lagrangian turbulent diffusion in the lower stratosphere  | AMS Cambridge, 13th Conference on Middle Atmosphere, June   |                 | 2005     | CNRS                                      |
| Levine, J.G., P. Braesicke, N.R.P. Harris N.H. Savage and J. A. Pyle  | Pathways and timescales for troposphere-to-stratosphere transport via the tropical tropopause layer and their relevance for very short lived species | EGU General Assembly, Vienna, Austria, April  |                 | 2006     |   |
| Lindfors, A. and Arola, A   | On the wavelength-dependent attenuation of radiation in the UV-visible range by a homogeneous cloud layer  | International Radiation Symposium 2008, Foz do Iguassu, Brazil, August  | oral            | 2008     | FMI                                       |
| Lindfors, A., and Kaurola, J  | Pyranometer based reconstruction of UV radiation.  | Nordic Ozone Group (NOG) meeting, Copenhagen.   | Oral            | 2006     | FMI                                       |
| Lindfors, A.V., Holmgren, B., Hansen, G.  | Long-term erythemal UV at Abisko and Helsinki estimated using total ozone, sunshine duration, and snow depth.  | Spie Remote Sensing, Stockholm 2006   | Poster          | 2006     | FMI                                       |
| Liu, X., E. D. Rivièrè , V. Marécal , J. Arteta , G. Durry and H. Hamdouni  | Water vapour budget associated to overshoots in the tropical stratosphere: mesoscale modeling study of August 5, 2006 during SCOUT-AMMA              | Schliersee SCOUT-03 final meeting   | Poster          | May 2009 | GSMA, LPCE                                |
| Lohmann, U., B. Kärcher, J. Hendricks   | Sensitivity Studies of Cirrus Clouds Formed by Heterogeneous Freezing in the ECHAM GCM   | 14th International Conference on Clouds and Precipitation (ICCP/IAMAS)  | Talk            | 2004     | DLR, ETH                                  |
| Longo K., Freitas S. R., Rodriguez, L. F., Pirre M., Marécal V. And M. Alonso:  | The Chemistry-CATT-BRAMS modeling system: model description and preliminary results,   | IGAC 10th International Conference  | Poster          | Sep-08   | CPTEC and CNRS(LPCE)                      |
| MacKenzie, A. R.  | Troposphere-Stratosphere Processes   | 3rd ESF-JSPS Frontier Science Conference Series for Young Researchers - "Climate Change", Nynäshamn, Sweden, June | Invited Lecture | 2006     | ULANC                                     |
| MacKenzie, A. R.  | Measurements and modelling of tropical cirrus  | Imperial College, School of Earth Science and Engineering, February   | Invited Lecture | 2006     | ULANC (representing Darwin campaign team) |

## Presentations

|  |   |   |                   |      |   |
|--|---|---|-------------------|------|---|
| MacKenzie, A. R.   | Measurements and modelling of tropical cirrus   | Leeds University, School of the Environment, February                                 | Invited Lecture   | 2006 | ULANC (representing Darwin campaign team) |
| MacKenzie, A. R.   | Results from the SCOUT-O3 Tropical Aircraft Experiment Darwin 2005  | EGU General Assembly, Vienna, Austria, April  | Invited Lecture   | 2006 | ULANC (representing Darwin campaign team) |
| MacKenzie, A. R.   | Airborne measurements in the tropical lower stratosphere  | Atmospheric Chemistry Specialist Group of the Royal Meteorological Society, April     | Invited Lecture   | 2007 | ULANC (representing Darwin campaign team) |
| MacKenzie, A.R., C. Schiller, Th. Peter and the SCOUT-O3 tropical aircraft team                                      | The SCOUT-O3 Tropical Aircraft Campaign Darwin 2005- an overview  | EGU General Assembly, Vienna, Austria, April  | Oral              | 2006 | ULANC, FZJ, and others                    |
| Manzini, E., C. Bruehl, B. Steil and M.A. Giorgetta  | Chemistry-climate modeling of the Middle Atmosphere: Dynamical feedbacks in a transient simulation  | SPARC Conference, August  | poster            | 2004 | INGV, MPG (MPIC, MPIM)                    |
| Manzini, E., C. Cagnazzo, P.G. Fogli and A. Navarra  | Recent Climate Change and Stratospheric Variability: Results from an Ensemble of Simulations for the last 50 years                              | MOCA 2009 Conference  | Invited Talk      | 2009 | INGV                                      |
| Manzini, E., C. Cagnazzo, P.G. Fogli   | The separate influence of recent climate change on stratospheric variability: Results from a transient simulation with a middle atmosphere mode | SPARC 4 <sup>th</sup> General Assembly  | Poster            | 2008 | INGV                                      |
| Manzini, E., Cagnazzo C. and the SCOUT-O3 Team   | Impact of ENSO on the polar lower stratosphere simulated by CCMs  | CCMVal 2005, NCAR, Boulder, Colorado, USA, October                                    | Oral              | 2005 |   |
| Marcolli, C., B. Zobrist, U.K. Krieger, B.P. Luo, T. Peter, V. Soonsin, D. A. Pedernera and T. Koop                  | Organic aerosols: liquids or glasses?   | Goldschmidt Conference; Davos (Switzerland), June                                     | Oral              | 2009 | ETH/Bielefeld                             |
| Marcolli, C., S. Gedamke, T. Peter and B. Zobrist  | Efficiency of immersion mode ice nucleation on surrogates of mineral dust   | International Conference on Nucleation & Atmospheric Aerosols, Galway Ireland, August | Poster            | 2007 | ETHZ                                      |
| Maturilli, M., Dörnbrack, A.   | Polar stratospheric ice cloud above Spitsbergen   | EGU General Assembly, Vienna, Austria, April  | Poster            | 2006 | AWI, DLR                                  |
| Mebarki, Y., V. Catoire, M. Pirre, V. Marécal, N. Huret, G. Berthet and C. Robert                                    | In situ vertical profiles of trace gases in the tropical stratosphere   | XXI quadrennial ozone symposium, July   | Poster            | 2008 | CNRS(LPCE)                                |
| Milz, M. N.Glatthor, G.P. Stiller and T.von Clarmann   | Dependence of water vapor results for MIPAS/Envisat on the spectral lines used for the retrieval  | EGU General Assembly, Vienna, Austria, April  | Poster            | 2005 | UNIKARL                                   |
| Milz, M. T. von Clarmann, H. Fischer, N. Glatthor, U. Grabowski, M. Hoepfner, S. Kellmann, T. Steck and G.P. Stiller | Measurements of water vapor in the lower stratosphere and the tropopause region with MIPAS/Envisat  | Envisat Symposium, Salzburg, Austria, September                                       | Oral presentation | 2004 | UNIKARL                                   |

## Presentations

|  |   |  |                   |      |           |
|--|---|--|-------------------|------|-----------|
| Milz, M., D.-Y. Wang, T. von Clarmann, H. Fischer, B. Funke, S. Gil-Lopez, N. Glatthor, U. Grabowski, M. Hoepfner, M. Kaufmann, S. Kellmann, M. Kiefer, M.E. Koukouli, A. Linden, M. Lopez-Puertas, G. Mengistu Tsidu, T. Steck and G.P. Stiller | Comparisons of ES-operational MIPAS water vapor profiles (IPF V4.61) with IMK-scientific retrievals and other measurements  | Second Workshop on the Atmospheric Chemistry Validation of Envisat (ACVE-2), ESRIN, Frascati, Italy, May | Poster            | 2004 | UNIKARL   |
| Milz, M., G.P. Stiller, T. von Clarmann, A. Linden, and H. Fischer   | Analysis of water vapour in the tropics and the Asian monsoon region from MIPAS/Envisat   | Regional SPARC Workshop, Bremen, Germany, September  | Poster            | 2007 |           |
| Milz, M., T. von Clarmann, H. Fischer, N. Glatthor, U. Grabowski, M. Hoepfner, S. Kellmann, T. Steck and G.P. Stiller  | Measurements of water vapor in the tropical and subtropical tropopause region with MIPAS/Envisat  | SPARC General Assembly 2004, Victoria, British Columbia, Canada, August                                  | Poster            | 2004 | UNIKARL   |
| Milz, M., T. von Clarmann, S. Kellmann, A. Linden, G.P. Stiller, and H. Fischer  | Analysis of water vapour in the tropics and the Asian monsoon region from MIPAS/Envisat   | SCOUT-O3 annual meeting, Crete, Greece, May  | Oral presentation | 2007 |           |
| Mitev, V., G. Martucci, R. Matthey, V. Makarov   | Tropical high-altitude thin cirrus clouds observed with an airborne lidar on M55-Geophysica during the transfer flights in TROCCINOX and SCOUT-O3                 | EGU General Assembly, Vienna, Austria, April   | Poster            | 2006 | ON        |
| Möhler, O., Saathoff, H., Schnaiter, M., Wagner, R., Field, P. R., Connolly, P., Krämer, M., Heymsfield, A. J.   | A new parameterisation for the deposition mode ice nucleation on mineral dust particles   | EGU General Assembly, Vienna, Austria, April   | Poster            | 2006 |           |
| Montoux, N., A. Hauchecoren, F. Dalaudier and H. Bencherif   | Determination of the top altitude of high level clouds in the tropics with GOMOS/ ENVISAT   | EGU General Assembly, Vienna, Austria, April   |                   | 2006 |           |
| Morgenstern, O.  | Climate-ozone interactions  | Quad. Ozone Symposium, Tromsø, June  | oral              | 2008 |           |
| Müller, S.C.   | Mixing of polar and mid-latitude air in the middle stratosphere over southern Europe in November 2005   | EGU General Assembly, Vienna, Austria, April   | Poster            | 2008 |           |
| Müller, S.C.   | Wasserdampfmessungen der mittleren Atmosphäre mit dem flugzeuggetragenen Mikrowellenradiometer AMSOS  | Promotionsvortrag, Bern, Switzerland   | Talk              | 2008 |           |
| Müller, S.C., D.G. Feist, N. Kämpfer, C. Schiller, C. Kiemle, N. Sitnikov, J. Urban, A. Lambert  | Water vapor profiles along the flight track from Europe to Australia by microwave radiometry and its comparison with FISH, FLASH, Lidar and satellites            | SCOUT-O3 annual meeting, Crete, Greece, May  | Poster            | 2007 |           |
| Müller, S.C., D.G. Feist, N. Kämpfer, J. Urban, A. Lambert   | Intrusion of enhanced water vapor amounts in the middle stratosphere in south eastern Europe during SCOUT-O3 Darwin campaign                                      | SCOUT-O3 annual meeting, Crete, Greece, May  | Poster            | 2007 |           |
| Müller, S.C., Dietrich Feist, Niklaus Kämpfer  | Results of AMSOS during SCOUT-O3 Darwin campaign: Analysis of a stratospheric water vapor intrusion and comparison with other campaign instruments and satellites | Seminar über Mikrowellenphysik und Umweltdiagnostik, Bern, Switzerland, June                             | Talk              | 2007 |           |
| Müller, S.C., Dietrich G. Feist, Niklaus Kämpfer, Cornelius Schiller, Christoph Kiemle, Nikolay Sitnikov, Joachim Urban, Alyn Lambert  | Mesospheric Water Vapor Profiles on a Flight from Switzerland to Australia  | SCOUT-O3 annual meeting, Crete, Greece, May  | poster            | 2007 |           |
| Müller, S.C., Dietrich G. Feist, Niklaus Kämpfer, Joachim Urban, Alyn Lambert  | Intrusion of enhanced water vapor amounts in the middle stratosphere in south eastern Europe during SCOUT-O3 Darwin campaign                                      | SCOUT-O3 annual meeting, Crete, Greece, May  | poster            | 2007 |           |
| Müller, S.C., N. Kämpfer, D.G. Feist   | Mixing of polar and mid-latitude air in the middle stratosphere over southern Europe in November 2005   | EGU General Assembly, Vienna, Austria, April   | Poster            | 2008 |           |
| Nielsen, J.K., T. Christensen, N. Larsen, S. Khaykin, J.-P. Pommereau  | Convective Origin of Stratospheric Water Vapor?   | Climatechange, <a href="http://climatecongress.ku.dk">http://climatecongress.ku.dk</a>                   | Poster            | 2009 | DMI, CNRS |
| Nielsen, J.K. and N. Larsen  | Modelling of charged stratospheric ice particles  | EGU general assembly april 2009  | Oral              | 2009 | DMI       |
| Nielsen, J.K.  | Climate impact of hydration and dehydration processes near the tropical tropopause - field studies, new theories and general view                                 | Copenhagen University, Atmospheric Chemistry, seminar, November  | Oral              | 2007 |           |

## Presentations

|   |  |  |        |      |      |
|---|--|--|--------|------|------|
| Nielsen, J.K.   | Stratospheric water vapour, modelling, and tropical campaigns  | DMI-seminar on clouds, December  | Oral   | 2008 |      |
| Nielsen, J.K.   | Stratospheric water vapour, modelling, and tropical campaigns, Science background, open questions, where are we heading?                       | Roskilde University Seminar - same presentation at Danish Space Research Inst., June   | Oral   | 2008 |      |
| Nielsen, J.K., N. Larsen and T. Christensen   | Stratosfærisk vanddamp og tropiske kampagner   | DMI/DKC seminar, September   | Oral   | 2007 |      |
| Nielsen, J.K., N. Larsen, F. Cairo, G. Di Donfrancesco, J. M. Rosen and G. Durrý  | Solid particles in the tropical lowest stratosphere  | EGU General Assembly, Vienna, Austria, April   |        | 2006 |      |
| Nielsen, J.K., N. Larsen, T. Christensen and J.-P. Pommereau  | Could electrical charge explain stability of ice-particles in the lowest stratosphere?   | SCOUT-O3 annual meeting, Crete, Greece, May  | Poster | 2007 |      |
| Nielsen, J.K., N. Larsen, T. Christensen, S. Khaykin and J. P. Pommereau  | Alternative interpretation of combined backscatter and humidity measurements of stratospheric particles during the SCOUT-AMMA balloon campaign | SCOUT-O3 /ACTIVE / TWP-ICE workshop on tropical UTLS University of Manchester, January | Oral   | 2008 |      |
| Nielsen, J.K., N. Larsen, T. Christensen, S. Khaykin, and J.-P. Pommereau.  | Alternative interpretation of combined backscatter and humidity measurements of stratospheric particles during the SCOUT-AMMA balloon campaign | EGU General Assembly, Vienna, Austria, April   | Poster | 2008 |      |
| Nielsen, J.K., T. Christensen, N. Larsen  | Recent observations of solid particles above the tropical cold point tropopause  | Seminar at ETH   | Oral   | 2007 |      |
| Niemeier, U.; Giorgetta, M.; Graf H.  | The aerosol cloud of major volcanic eruptions: Sensitivity st  | CCMVAL workshop, Toronto   | poster | 2009 |      |
| Niemeier, U. C. Timmreck, and J.S. Rast   | The Aerosol Cloud of a large Volcanic Eruption: Simulation of Evolution  | EGU General Assembly, Vienna   | oral   | 2009 |      |
| Niemeier, U., C. Timmreck, J.S. Rast, H.F. G  | The influence of fine ash on the dispersal of a volcanic cloud,  | EGU General Assembly, Vienna   | poster | 2009 |      |
| Nissen, K., K. Matthes, and U. Langematz  | A high-resolution short-wave heating parameterisation for the middle atmosphere  | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Poster | 2006 |      |
| Nissen, K., K. Matthes, and U. Langematz  | A high-resolution short-wave heating parameterisation for the middle atmosphere  | EGU General Assembly, Vienna, Austria, April   | Poster | 2006 |      |
| Oelhaf, H., A. Engel, H. Bönisch, G. Wetzel, F. Friedl-Vallon, K. Pfeilsticker, I. Levin, V. Catoire, M. Pirre, C. Camy-Peyret, S. Payan, T. Röckmann and P. Lämmerzahl | First results from the Tropical Envisat Validation Campaign: an overview   | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Oral   | 2006 |      |
| Oelhaf, H., G. Wetzel, F. Friedl-Vallon, A. Kleinert, A. Lengel, G. Maucher, H. Nordmeyer, R. Ruhnke, A. Wiegele, S. Freitas, K. Longo, V. Marecal, M. Pirre            | The tropical tropopause layer and lower stratosphere over NE Brazil: MIPAS-B measurements and modelling  | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Oral   | 2006 |      |
| Oelhaf, H., G. Wetzel, F. Friedl-Vallon, A. Kleinert, A. Lengel, G. Maucher, H. Nordmeyer, R. Ruhnke, and A. Wiegele  | The tropical tropopause layer and lower stratosphere as sounded with MIPAS-B: First results  | EGU General Assembly, Vienna, Austria, April   |        | 2006 |      |
| Oelhaf, H., G. Wetzel, R. Ruhnke, F. Friedl-Vallon, A. Kleinert, A. Lengel, G. Maucher, and H. Nordmeyer  | Nitrogen chemistry and tracer correlations in the tropical UT/LS region from MIPAS-B measurements  | SCOUT-O3 annual meeting, Crete, Greece, May  | Poster | 2007 |      |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin   | Variability of the northern hemisphere polar stratospheric cloud potential: the role of North Pacific disturbances                             | EGU General Assembly, Vienna, Austria, April   | Poster | 2009 | NILU |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin   | Variability of the northern hemisphere polar stratospheric cloud potential: the role of North Pacific disturbances                             | SCOUT-O3 Final Meeting, Schliersee, Germany, June                                      | Poster | 2009 | NILU |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin   | Variability of the northern hemisphere polar stratospheric cloud potential: the role of North Pacific disturbances                             | IAMAS Symposium, Montreal (Canada)   | Oral   | 2009 | NILU |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin   | Tropospheric precursors to a cold polar stratosphere   | Quadriennial Ozone Symposium, Tromso (Norway)  | Oral   | 2008 | NILU |
| Orsolini, Y. J., A. Karpetchko and G. Nikulin   | Tropospheric precursors to a cold polar stratosphere   | SPARC General Assembly, Bologna (Italy)  | Poster | 2008 | NILU |

## Presentations

|   |   |   |              |      |                                   |
|---|---|---|--------------|------|-----------------------------------|
| Peter, T.   | Nucleation and Growth of ice at cirrus level  | ACS National Meeting, New Orleans USA, April  | oral         | 2008 | ETH                               |
| Peter, T.   | Particles and the TTL/LS  | SCOUT-O3 annual meeting, Crete, Greece, May   | oral         | 2007 | ETH                               |
| Peter, T.   | An overview of RHI measurements and interpretations   | Workshop on Upper Tropospheric Humidity, Forschungszentrum Karlsruhe, June  | oral         | 2007 | ETH                               |
| Peter, T.   | The High Supersaturation Puzzle, An overview of upper tropospheric RHi measurements and interpretations | Middle Atmosphere Meeting of the American Meteorological Society, Portland USA, August  | oral         | 2007 | ETH                               |
| Peter, T., B. Zobrist, U.K. Krieger, B.P. Luo, V. Soonsin, C.R. Hoyle, C. Marcolli and T. Koop  | Water uptake impedance of glassy organic aerosols   | EGU, Vienna, Austria  | Oral         | 2009 | ETH/Bielefeld                     |
| Peter, T.; Marcolli, C.; Spichtinger, P.; Corti, T.; Luo, B.P.; Baker, M.B.; Koop, T.; Krämer, M.; Möhler, O.; Vömel, H.  | The high supersaturation puzzle   | EGU General Assembly, Vienna, Austria, April  | Talk         | 2007 | ETHZ/Bielefeld                    |
| Peter, T., B. Zobrist, C. Marcolli, T. Koop, B.P. Luo, D.M. Murphy, U. Lohmann, A. Zardini, U.K. Krieger, T. Corti  | The indirect aerosol effect of oxalic acid on cirrus  | EGU General Assembly, Vienna, Austria, April  | Invited talk | 2006 | ETH Zurich / Bielefeld University |
| Peter, T., B. Zobrist, C. Marcolli, T. Koop, B.P. Luo, D.M. Murphy, U. Lohmann, A. Zardini, U.K. Krieger, T. Corti, D.J. Cziczo, S. Fueglistaler, P.K. Hudson, D.S. Thomson | Organics and ice nucleation: the case of oxalic acid  | The routes for organics oxidation in the atmosphere, European Science Foundation conference within the INTROP program, Alpe d'Huez, France, January | Invited talk | 2006 | ETH Zurich / Bielefeld University |
| Peter, T., B. Zobrist, C. Marcolli, B.P. Luo, T. Corti, C. Hoyle, F. Wienhold, A. Zardini, U. Krieger, D. Cziczo, T. Koop, D. Murphy  | Ice formation in Organic & Mixed-Phase Organic/Inorganic Aerosols                                       | Gordon Conference on Atmospheric chemistry, September   | Invited talk | 2005 | ETH Zurich / Bielefeld University |
| Pfeilsticker, K., A. Butz, C. Camy-Peyret*, M. Chipperfield, M. Dorf, K. Grunow, L. Kritten, B. Simmes, F. Weidner  | Stratospheric Bromine: Budget, trend and contribution of VSLS   | SCOUT-O3 Annual Meeting, Julich, Germany, March   | Oral         | 2006 |                                   |
| Pfeilsticker, K.; Camy-Peyret, C.; Engel, A.; Laube, J.; Lotter, A.; Schwärzle, J.; O'Sullivan, D. A.; Sturges, W. T.; DOAS Balloon Team                                    | Inorganic iodine and bromine in the coastal troposphere of northeastern Brazil                          | EGU General Assembly, Vienna, Austria, April  | Poster       | 2007 |                                   |
| Pinzer, B.; Kerbrat, M.; Huthwelker, T.; Ammann, M.; Schneebeli, M.   | Is the surface of ice smooth in snow?   | EGU General Assembly, Vienna, Austria, April  | Poster       | 2007 |                                   |
| Pisso, I.   | Turbulent diffusion and dispersion in the lower stratosphere  | EGU General Assembly, Vienna, Austria, April  |              | 2005 | CNRS                              |
| Pisso, I. and B. Legras   | Lagrangian reconstructions of chemical tracers nearby the tropical tropopause                           | EGU General Assembly, Vienna, Austria, April  |              | 2006 |                                   |
| Pitari, G., E. Mancini, and N. De Luca  | Sensitivity of future ozone recovery to major explosive volcanic eruption                               | EGU General Assembly, Vienna, Austria, April  | poster       | 2009 |                                   |
| Pitari, G., N. De Luca and E. Mancini   | Sensitivity of future ozone recovery to major explosive volcanic eruptions                              | SCOUT-O3 2008, Potsdam, Germany   |              | 2008 |                                   |
| Pitari, G., and E. Mancini  | Results of the University of L'Aquila CCM in the first SCOUT-O3 simulations                             | SCOUT-O3 2006, Aachen, Germany  |              | 2006 |                                   |
| Pitari, G., and E. Mancini  | Aerosol impact studies on climate and chemistry made with the University of L'Aquila CCM                | SCOUT-O3 2005, Zurich (Svizzera)  |              | 2005 |                                   |

## Presentations

|   |  |  |                   |        |                            |
|---|--|--|-------------------|--------|----------------------------|
| Pitari, G., Montanaro, V., and Mancini, E.  | ACCENT/ Experiment 2. Results from ULAQ CCM  | ACCENT Meeting, January  | oral              | 2005   | ULAQ                       |
| Pommereau, J.-P.  | Convective Troposphere-Stratosphere Transport in the Tropics and Hydration by ice Crystals Geysers,            | AGU Chapman Conference on Atmospheric Water_Vapor and Its Role in Climate, October     | Invited talk      | 2008   | CNRS                       |
| Pommereau, J.-P.  | Contribution of convective overshooting to troposphere-stratosphere transport in the tropics                   | 19th ESA Symposium on European Rocket and Balloon Programme and Related Research, June | talk              | 2009   | CNRS                       |
| Pommereau, J.-P.  | The HIBISCUS project in Brazil   | EGU General Assembly, Vienna, Austria, April   |                   | 2006   | CNRS                       |
| Pommereau, J.-P., J.P. Vernier, P. Ricaud,  | Importance of convective overshooting troposphere to stratosphere transport in the tropics at the global scale | IAMAS MOCA 09, July  | talk              | 2009   | CNRS                       |
| Prados-Roman, C., A. Butz, M. Dorf, L. Kritten, B. Simmes, F. Weidner and K. Pfeilsticker                                       | Air-borne limb-scanning miniDOAS   | 4th International Atmospheric Limb Workshop, October/November                          | Talk              | 2007   |                            |
| Prados-Roman, C., A. Butz, T. Deutschman, M. Dorf, L. Kritten, A. Minikin, H. Schlager, B. Simmes, U. Platt and K. Pfeilsticker | Detection of halogen activation and "BrO explosions" in the Arctic spring 2007                                 | EGU General Assembly, Vienna, Austria, April   | Talk              | 2008   |                            |
| Puentedura, O., M. Gil and M. Navarro   | Bromine Monoxide Vertical Column at Izaña Observatory (28°N,16°W)  | SCOUT-O3 annual meeting, Crete, Greece   | Poster            | May-07 | INTA                       |
| Punge, H. J., M. A. Giorgetta   | Differences between the QBO in the first and in the second half of the ERA-40 reanalysis                       | EGU General Assembly, Vienna, Austria, April   | Poster            | 2007   | MPIMET                     |
| Punge, H. J., M. A. Giorgetta   | Impact of the QBO on trace gas distributions in a chemistry-climate model                                      | EGU General Assembly, Vienna, Austria, April   | Poster            | 2007   | MPIMET                     |
| Punge, H.J. and M.A. Giorgetta  | The quasi-biennial oscillation: On the long term mean impact on dynamics and trace gases                       | ICESM, Hamburg, August   | Poster            | 2007   | MPI-Met Hamburg, FZ Jülich |
| Punge, H.J., M.A. Giorgetta and P.Konopka   | A combined Eulerian-Lagrangian model study of QBO effects on stratospheric transport                           | EGU General Assembly, Vienna, Austria, April   | Poster            | 2008   | MPI-Met Hamburg, FZ Jülich |
| Pyle, J.A.  | Climate Change and Stratospheric Ozone   | Regional climate conference, Kuala Lumpur, November                                    | Oral              | 2007   | UCAM                       |
| Pyle, J.A.  | Chemistry-climage modelling at the UTLS  | Réunion Island International Symposium, Saint-Gilles, Reunion Island, France, November | Oral              | 2007   | UCAM                       |
| Pyle, J.A.  | Models, measurements and field campaigns: the path to understanding human influences on ozone                  | 20th anniversary Montreal Protocol Meeting, Athens, September                          | Oral              | 2007   | UCAM                       |
| Pyle, J.A.  |  | NCAS annual meeting, York, Dec   | Oral              | 2007   | UCAM                       |
| Pyle, J.A.  |  | SOLAS, tropical bromine meeting, Manchester, January                                   | Oral              | 2008   | UCAM                       |
| Reddmann, T., B.Funke, T.von Clarmann, S.Gabriel, W.Kouker, M.Lopez-Puertas, R.Ruhnke, G.P. Stiller, and R.Uhl                  | Model simulations of thermospheric NO intrusions and comparison with MIPAS-ENVISAT observations                | DPG Symposium, Berlin, March   | Oral presentation | 2005   | UNIKARL                    |
| Ren, C. and A. R. MacKenzie   | Forecasting cirrus clouds and water vapour in the tropical tropopause layer                                    | EGU General Assembly, Vienna, Austria, April   | Poster            | 2006   | ULANC                      |
| Ren, C. and A.R. MacKenzie  | Tropical cirrus clouds modelling and forecast tests  | RMetS Conference, September  | Oral              | 2005   | Lancaster University       |
| Ren, C. and A.R. MacKenzie  | Tropical cirrus clouds modelling and forecast tests in Field Campaigns   | NERC UTLS OZONE 'Water Vapour in the UTLS' Workshop, Lancaster, UK, July               | Oral              | 2005   | Lancaster University       |
| Ren, C., A.R. MacKenzie, C. Schiller and Others   | Tropical cirrus cloud forecasts and water content reconstruction   | SCOUT-O3 Annual Meeting, Jülich, Germany, March  | Oral              | 2006   |                            |

## Presentations

|  |   |  |              |      |     |
|--|---|--|--------------|------|-----|
| Rex M.   | Ozone Loss in the Arctic - degree of current understanding and impact of climate change                   | Symposium on the 20th Anniversary of the Montreal Protocol, Athens, Greece, September                      | Invited Talk | 2007 |     |
| Rex M.   | Polar stratospheric ozone loss: current understanding and links to changes in climate                     | International Symposium "Polar environment and climate: The challenges", Brussels, March                   | Invited Talk | 2007 | AWI |
| Rex M.   | Ozonzerstörung in der polaren Stratosphäre: Einfluss von Klimaänderungen und derzeitiges Verständnis      | Kolloquium IFM-GEOMAR, June  | Invited Talk | 2007 |     |
| Rex M.   | The role of IGACO for ozone research - a user perspective   | Integrated Global Atmospheric Chemistry Observations (IGACO), March 2007                                   | Invited Talk | 2007 |     |
| Rex M.   | Arctic ozone loss and climate change  | IAGA 2005 Scientific Assembly, Toulouse, France, July  | Invited Talk | 2005 |     |
| Rex, M., Lehmann, R., Schofield, R., Salawitch, R. J., Canty, T.   | Is a major fraction of polar ozone loss due to a currently unknown mechanism ?                            | SCOUT O3 Workshop, Crete, Greece   | Talk         | 2007 |     |
| Rex, M., R. Lehmann, I. Wohltmann, S. Kremser  | Ascent rates, dehydration and vertical diffusion in the tropical tropopause region and lower stratosphere | COSPAR 2008, Montreal, July  | Invited Talk | 2008 |     |
| Rex, M., Salawitch, R. J., Harris, N. R. P., Chipperfield, M. P., Naujokat, B., von der Gathen, P., Deckelmann, H., Reimer, E., Braathen, G. B., Allaart, M., Andersen, S. B., Claude, H., Davies, J., De Backer, H., Dier, H., Dorokov, V., Fast, H., Gerding, M., Kyrö, E., Litynska, Z., Moore, D., Moran, E., Nagai, T., Nakane, H., Parrondo, C., Skrivankova, P., Stübi, R., Vaughan, G., Viatte, P., Yushkov, V., Zerefos, C. | Arctic Ozone Loss and Climate Change - Large Ozone Loss in Arctic Winter 2004/2005                        | American Geophysical Union Fall Meeting, San Francisco, CA, USA  | talk         | 2005 | AWI |
| Rex, M., Schofield, R., Canty, T., Salawitch, R. J.  | Polar Ozone Chemistry: Field Observations and Ozone Loss Rates  | MOCA-09 - IAMAS, IAPSO, IACS joint assembly, July, Montreal, Canada  | Invited Talk | 2009 |     |
| Rex, M., Schofield, R., Canty, T., Salawitch, R. J.  | On Our Understanding of Ozone Loss Rates in the Polar Vortex: Models and Measurements                     | American Chemical Society, Spring 2009 National Meeting & Exposition, March, 2009, Salt Lake City, UT, USA | Invited Talk | 2009 |     |

## Presentations

|   |  |  |              |      |  |
|---|--|--|--------------|------|--|
| Rex, M., Schofield, R., Canty, T., Salawitch, R.  | Impact of recent laboratory measurements of the absorption cross section of ClOOCl on our understanding of polar ozone chemistry                 | SPARC 4th General Assembly, 31 August - 5 September 2008, Bologna, Italy                               | Invited Talk | 2008 |  |
| Rex, M., Schofield, R., Canty, T., Salawitch, R., Bayes, K.   | Impact of recent Laboratory Measurements of the Absorption Cross Section of ClOOCl on our Understanding of polar Ozone Chemistry: Part I, Theory | American Meteorological Society, 14th Conference on Middle Atmosphere, (20-24 August) Portland, OR     | Poster       | 2007 |  |
| Rex, M., R. Schofield, R. Lehmann, K. Frieler, I. Wohltmann, M. von Hobe, F. Stroh, G. Koch, T. Peter, R. Salawitch, T. Canty | Is a major fraction of polar ozone loss due to a currently unknown mechanism?  | Regional SPARC Workshop, Bremen, September   | Talk         | 2007 |  |
| Rex, M., Schofield, R., Salawitch, R., Canty, T.  | If Pope et al. is correct, how might ClOOCl be lost?   | SPARC Workshop on The Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion Cambridge, June | Talk         | 2008 |  |

## Presentations

|  |  |  |              |               |                      |
|--|--|--|--------------|---------------|----------------------|
| Rieder, H.E., Holawe F., Simic S., Blumthaler M., Krzyscin J.W., Schmalwieser A.W., Wagner J.E., Weihs P.    | UV-changes in Austria: A comparison between alpine and urban regions   | Quadrennial Ozone Symposium, 29. June-5. July, Tromso  | Oral         | 2008          |                      |
| Rieder, H.E., Holawe, F., Simic, S., Blumthaler, M., Krzyscin, J.W. Wagner, J., Schmalwieser, A., Weihs, P.. | Rekonstruktion der erythemwirksamen UV-Bestrahlungsstärke in Österreich: ein Vergleich zwischen Hochgebirge und Wiener Ballungsraum  | 10. Österreichischer Klimatag "Klima, Klimawandel und Auswirkungen", 13.-14. März 2008, Wien | Oral         | 2008          |                      |
| Riese, M., A. R. MacKenzie, C. Schiller, Th. Peter, A. Fix, N. Sitnikov and G. Shur                          | Water in the tropical upper troposphere: a comparative study of recent aircraft campaigns  | AGU fall meeting, San Francisco, December  | oral invited | 2006          | FZJ, ULANC, CAO, DLR |
| Rivière, E. D. and G. Durry  | Water Vapor#1 and Water Vapor#2: H <sub>2</sub> O and CH <sub>4</sub> by $\mu$ -SDLA   | SCOUT-AMMA workshop  | Talk         | March 2007    | GSMA, SA             |
| Rivière, E. D., V. Marécal, G. Durry, H. Hamdouni, S. Freitas, K. Longo                                      | Study of water vapour in the West-African UTLS from SCOUT-AMMA observations and from mesoscale simulation results. SCOUT-O3 annual meeting   | SCOUT-O3 annual meeting, Heraklion, Crete  | Poster       | May 2007b     | GSMA, LPCE, SA       |
| Rivière, E. D., V. Marécal, G. Durry, H. Hamdouni, Saulo Freitas and Karla Longo                             | Mesoscale meteorological simulation of the two day period from August 5 to August 7 in the West-African region: preliminary results using water vapour observations                        | SCOUT-AMMA workshop  | Talk         | March 2007    | GSMA, LPCE, SA       |
| Rivière, E. D., V. Marécal, X. Liu, S. Freitas, K. Longo and G. Durry  | Mesoscale modelling of the observational case of August 22-23 SCOUT-AMMA : Impact of MCS and local convection overshoots on the TTL structure. H <sub>2</sub> O and CH <sub>4</sub> budget | AMMA meeting, Karlsruhe, Germany   | Poster       | November 2007 | GSMA, LPCE, SA       |
| Rodríguez J.J., E. Cuevas, J.C. Guerra, A. Redondas, Manuel Gil, J.J. Bustos and S. Afonso                   | climatology of Ozone in the Inter-Tropopause Region over the Northern Subtropics   | SCOUT-O3 annual meeting, Crete, Greece   | Poster       | May-07        | INTA                 |
| Rodríguez, J.J.; Cuevas, E.; Guerra, J.C.; Redondas, A.; Gil, M.; Bustos, J.J.                               | Characterization of the Subtropical UTLS from a long-term radiosonde and ozonesonde series (1992-2006) analysis  | 7th European Meteorological Society/ 8th ECAM, San Lorenzo de El Escorial, Spain, October    | Poster       | 2007          | INTA                 |
| Ruhtz, T., P. Zieger, C. Lindemann, S. Stapelberg, A.R. Webb, R. Kift, M. Wiegner, A.F. Bais                 | Airborne measurements of aerosol properties during SCOUT-O3  | One Century of UV Radiation Research, Davos, September                                       | Poster       | 2007          | UNIMAN, AUTH         |

## Presentations

|   |   |   |                |      |                  |
|---|---|---|----------------|------|------------------|
| Salawitch, R. J., Canty, T., Cunnold, D., Dorf, M., Frieler, K., Godin-Beekman, S., Newchurch, M., Pfeilsticker, K., Rex, M., Stimpfle, R., Streibel, M., von der Gathen, P., Weisenstein, D., Yang, F. -S. | Chemical Loss of Polar Ozone: Present Understanding and Remaining Uncertainties   | American Geophysical Union Fall Meeting, San Francisco, CA, USA   | invited talk   | 2005 | AWI              |
| Santos, F., C. Schiller, N. Spelten, A. Afchine, N. Sitnikov, G. Shur   | In-situ water measurements during SCOUT-O3  | SCOUT-O3 Annual Meeting, Julich, Germany, March   | poster         | 2006 | FZJ, CAO         |
| Schiller, C.  | The SCOUT-O3 Darwin Aircraft Experiment   | TWP-ICE Science Meeting, New York, November   | oral invited   | 2006 | Activity 2       |
| Schiller, C.  | FISH water measurements in the TTL and tropical lower stratosphere  | CR-AVE Science meeting, Greenbelt, MD, USA, November  | oral           | 2006 | FZJ              |
| Schiller, C., S. Balestri, D. Brunner, H. Finkenzeller, N. Harris, A.R. MacKenzie, P. May, T. Peter, H. Schlager and the SCOUT-O3 science teams   | The Darwin Aircraft Experiment November – December 2005   | SCOUT-O3 Annual Meeting, Julich, Germany, March   | Oral           | 2006 |                  |
| Schmidhauser, R., E. Weingartner, S. Rapsomanikis, A. Bais  | Ground based measurements of scattering and absorption coefficients at Thessaloniki   | One Century of UV Radiation Research, Davos, September  | Poster         | 2007 | CPERI, AUTH      |
| Schofield, R., K. Frieler, M. Rex, I. Wohltmann, M. von Hobe, F. Stroh, G. Koch, T. Peter, T. Canty, R. Salawitch   | CIO Match: An examination of chlorine kinetics using the self-Match flight during EUPLEX II 2003                            | EGU General Assembly 2007, Vienna, April  | Talk           | 2007 |                  |
| Schofield, R., K. Frieler, M. Rex, I. Wohltmann, M. von Hobe, F. Stroh, G. Koch, T. Peter, T. Canty, R. Salawitch   | Chlorine kinetics examination using the Self-Match flight during EUPLEX II 2003   | SCOUT-O3 Annual Meeting, Heraklion, Crete   | Poster         | 2007 |                  |
| Schofield, R., K. Frieler, I. Wohltmann, M. Rex, T. Canty, R. Salawitch, M. von Hobe, F. Stroh, A. Butz, M. Dorf, K. Pfeilsticker   | Chlorine Kinetics Review and Recent Results from OCIO and the Self-Match flight   | SPARC Workshop on The Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion, Cambridge, June | Talk           | 2008 |                  |
| Schofield, R., K. Frieler, I. Wohltmann, M. Rex, M. von Hobe, F. Stroh, G. Koch, T. Peter, T. Canty, R. Salawitch, C. M. Volk   | Retrieval of chlorine kinetics from a self-match flight   | Quadrennial Ozone Symposium, Tromsø, Norway, July   | Poster         | 2008 | AWI, ETH, Jülich |
| Schofield, R., Frieler, K., Wohltmann, I., Rex, M., von Hobe, M., Stroh, F., Canty, T., Salawitch, R., Koch, G., Peter, T., Volk, C. M.   | Chlorine kinetics examination using the Self-Match flight during EUPLEX II 2003   | Regional SPARC Science Workshop, Bremen, September  | Poster         | 2007 | AWI, ETH, Jülich |
| Schofield, R., Frieler, K., Wohltmann, I., Rex, M., von Hobe, M., Stroh, F., Koch, G., Peter, T., Canty, T., Salawitch, R.  | Self Match Flight during EUPLEX II 2003 - 'CIO Match': An examination of chlorine kinetics                                  | American Meteorological Society: 14th Conference on Middle Atmosphere, Portland, Oregon, August         | Talk by M. Rex | 2007 | AWI, ETH, Jülich |
| Schofield, R., S. Fueglistaler, I. Wohltmann, M. Rex  | Conceptual investigation of the interaction of water vapor and Bry transport across the tropical transition layer.          | SPARC 4th General Assembly, September, Bologna, Italy   | Poster         | 2008 | AWI, ETH, Jülich |
| Schrems, O., Immler, F., Krüger, K., Rex, M., Fujiwara, M.  | Cirrus Clouds, Equatorial Kelvin Waves and Dehydration in the Tropical Tropopause Layer                                     | Fall Meeting American Geophysical Union, December 10-14, San Francisco, USA                             | Poster         | 2007 |                  |
| Schwarzmann, Blumthaler   | Measured distribution of polarization of sky radiance   | One Century of UV Radiation Research, Davos, September  | oral           | 2007 |                  |
| Semane, N., V. Peuch, H. Clark  | An Observed and Simulated Stratospheric Ozone Intrusion Over the High Canadian Arctic UTLS Region During the Summer of 2003 | AGU fall meeting, San Francisco, December   | Poster         | 2006 |                  |

## Presentations

|  |  |   |                   |             |   |
|--|--|---|-------------------|-------------|---|
| Sembhi, H., J.J. Remedios and P. Raspollini  | Characterising the vertical distribution of ozone in the tropical UTLS observed by the MIPAS instrument on ENVISAT                   | Quadrennial Ozone Symposium 2008  | Poster            | Jun-08      | ULEIC   |
| Sembhi, H., J. J. Remedios, and P. Raspollini  | Investigating the effect of upper tropospheric cirrus clouds on tropical MIPAS level 2 water vapour and ozone retrievals             | ENVISAT Symposium, Montreux, Switzerland                                    | Oral              | April, 2007 | ULEIC   |
| Sembhi, H., J.J. Remedios, J. Greenhough   | Tropical UTLS water vapour and clouds as observed by the MIPAS instrument  | NERC UTLS water vapour in the UTLS workshop, Lancaster University           | Oral              | Jul-05      | ULEIC   |
| Sembhi, H., J.J. Remedios, J. Greenhough   | MIPAS measurements of the tropical UTLS  | SCOUT annual meeting, Zurich  | Oral              | Mar-05      | ULEIC   |
| Sembhi, H., J.J. Remedios, G. Allen and A.M Waterfall  | Tropical UTLS water vapour and ozone as observed by the MIPAS instrument"  | European Geosciences Union general Assembly, Vienna, Austria                | poster            | Apr-05      | ULEIC   |
| Senten, C., M. De Mazière, C. Hermans, B. Dils, M. Kruglanski, A. Merlaud, E. Neefs, F. Scolas, A.C. Vandaele, C. Vigouroux, K. Janssens, B. Barret, M. Carleer, P.F. Coheur, S. Fally, J.L. Baray, J.M. Metzger, J. Leveau, E. Mahieu | Ground-based FTIR measurements at Ile de La Réunion: Observations, error analysis and comparisons with satellite data                | EGU General Assembly, Vienna, Austria, April                                | poster            | 2007        | Univ. Libre de Bruxelles (ULB), LACy, Univ. Liège |
| Senten, C., M. De Mazière, C. Hermans, B. Dils, M. Kruglanski, A. Merlaud, E. Neefs, F. Scolas, A.C. Vandaele, C. Vigouroux, K. Janssens, B. Barret, M. Carleer, P.F. Coheur, S. Fally, J.L. Baray, J.M. Metzger, J. Leveau, E. Mahieu | Ground-based FTIR measurements at Ile de La Réunion: Observations, error analysis and comparisons with satellite data                | SCOUT-O3 annual meeting, Crete, Greece, May                                 | poster            | 2007        | Univ. Libre de Bruxelles (ULB), LACy, Univ. Liège |
| Senten, C., M. De Mazière, C. Vigouroux  | Data comparison: ground-based FTIR versus other sounders, results from a measurement campaign at Réunion Island                      | STAR International Research School: Atmospheric reserach in Suriname. March | oral              | 2006        | BIRA-IASB   |
| Siddans, R., et al.  | Results from the first deployment of the MARSCHALS mm-wave UTLS limb-sounder in SCOUT-O3   | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2006        |   |
| Silva, C., L.Morales, L. Da Silva, Cristian Mattar and R.Orrego.   | Spatial and time anlysis of ozone layer in Suth America (1979-2005) using TOMS data  | V Chilean Symposium of Environmental Physics and Chemistry, May             | Oral presentation | 2007        | Luis Da Silva                                     |
| Simic, S., P. Weihs, H. Kromp-Kolb, A. Vacek, W. Laube   | MEASUREMENTS AND ANALYSIS OF TOTAL OZONE AT HOHER SONNBLICK (3106 m, Austria)  | 9. Österreichischer Klimatag, March   | Poster            | 2006        |   |
| Simic, S., Weihs, P.,Kromp-Kolb, H.,Vacek, A.,Laube, W   | Influence of ground albedo and cloudiness on ground UV at the Sonnblick observatory (3106 m, Austria): model-measurement comparison. | 17th International congress of Biometeorology ICB2005, September            | Poster            | 2005        |   |
| Simic, S., Weihs, P.,Kromp-Kolb, H.,Vacek, A.,Laube, W   | Investigations of long and short term variations of UV radiation at Sonnblick Observatory (3106 altitude), Austria                   | Österreichischer Klimatag, March  | Poster            | 2006        |   |
| Sinnhuber, B.-M., I. Wohltmann   | Upwelling across the tropical tropopause   | SCOUT-O3 Annual Meeting, Schliersee, Germany, June                          | Poster            | 2009        |   |
| Sinnhuber, B.M., et al.  | Convective transport of short-lived species into the TTL   | EGU General Assembly, Vienna, Austria, April                                | Invited Poster    | 2006        | UB  |
| Sinnhuber, B.M., et al.  | Towards a climatology of stratospheric BrO   | ESA Atmospheric Science Conference, May                                     | Poster            | 2006        | UB  |
| Sinnhuber, B.-M., et al.   | Decadal scale changes in polar ozone suggest solar influence through energetic electron precipitation                                | EGU General Assembly, Vienna, Austria, April                                | Talk              | 2006        | UB, AWI   |
| Sprenger, M. and H. Wernli   | Diabatic processes associated with stratosphere-troposphere exchange and the link to synoptic and mesoscale features                 | EGU General Assembly, Vienna, Austria, April                                | Poster            | 2008        |   |

## Presentations

|  |  |   |                   |      |   |
|--|--|---|-------------------|------|---|
| Steck, T. for the MIPAS-IMK-O3-VAL Team  | Validation of ozone measurements from MIPAS-Envisat with HALOE, ground-based FTIR, and MIPAS balloon measurements  | EGU General Assembly, Vienna, Austria, April  | Poster            | 2005 | UNIKARL   |
| Steinwagner, J., T. Roeckmann, G.P. Stiller, and T. von Clarmann   | HDO measurements from space with MIPAS   | Riis 2007: Tropical Stratosphere - Upper Troposphere, Reunion Island International Symposium, Saint Gilles les Bains, France, November  | Poster            | 2007 |   |
| Steinwagner, J., T. Roeckmann, G.P. Stiller, N. Glatthor, H. Hoepfner, and T. von Clarmann   | HDO measurements with MIPAS  | EGU General Assembly, Vienna, Austria, April  | Oral presentation | 2008 |   |
| Steinwagner, J., T. Roeckmann, M. Milz, T. von Clarmann, G.P. Stiller, N. Glatthor, U. Grabowski, M. Hoepfner  | Water isotope measurements from space  | Proceedings of the Envisat Symposium 2007, Montreux, Switzerland, April   | CD-Rom            | 2007 |   |
| Stiller, G.P. and the IMK/IAA MIPAS/Envisat team   | Global mean age of stratospheric air from MIPAS/ENVISAT SF6 observations   | Regional SPARC Workshop, Bremen, September  | Oral and poster   | 2007 |   |
| Stiller, G.P., T.von Clarmann, M. Hoepfner, N.Glatthor, U.Grabowski, S.Kellmann, A.Kleinert, A.Linden, M.Milz, T.Reddmann, T.Steck, H.Fischer, B.Funke, M.Lopez-Puertas, and A.Engel | Global circulation studies with MIPAS  | 13th International Workshop on Atmospheric Science from Space Using Fourier Transform Spectroscopy (ASSFTS), Toulouse, France, November | Oral presentation | 2007 |   |
| Stroh, F., K. Großmann, L. Hoffmann, M. Kaufmann, A. Kullmann, F. Olschewski, P. Preuße, M. Riese, S. Schröder, R. Spang, K. Weigel  | CRISTA-NF: First Measurements of a New Airborne Mid-IR Limb Emission Instrument  | EGU General Assembly, Vienna, Austria, April  | Poster            | 2006 | FZJ   |
| Stroh, F., K. Großmann, L. Hoffmann, M. Kaufmann, P. Knieling, A. Kullmann, F. Olschewski, P. Preuße, M. Riese, S. Schröder, R. Spang, K. Weigel                                     | First Mid-IR Limb Emission Measurements of CRISTA-NF in the Tropical UTLS Region   | SCOUT-O3 Annual Meeting, Julich, Germany, March   | Poster            | 2006 | FZJ   |
| Sturges, W.T.; O'Sullivan, D.A.; Oram, D.E.; Röckmann, T.; Braß, M.; Engel, A.; Laube, J.; Brenninkmeijer, C.A.M   | Halocarbon measurements from the M55 Geophysika high altitude aircraft during the SCOUT-O3 campaigns over Northern Australia and West Africa, and during transit flights from Europe | EGU General Assembly, Vienna, Austria, April  | Poster            | 2008 | 46, 62, 30  |
| Sturges, W.T.; Worton, D.R.; O'Sullivan, D.A.; Engel, A.; Laube, J.; Röckmann, T., Braß, M.  | Very short lived halogenated organic gases in the tropical upper troposphere and lower stratosphere  | EGU General Assembly, Vienna, Austria, April  | Poster            | 2007 |   |
| Tegtmeier, S., M. Rex, K. Krüger, I. Wohltmann, K. Schöllhammer  | Variations of the Residual Circulation in Northern Hemispheric Winter and Their Impact on Arctic Ozone   | AGU Fall Meeting 2006, San Francisco, USA   | Poster            | 2006 |   |
| Theys, N., M. Van Roozendael, F. Hendrick  | Tropospheric And Stratospheric BrO Evaluations From Ground-Based Multi-Axis DOAS Measurements at Reunion Island  | Third International DOAS Workshop, March  | oral              | 2006 | BIRA-IASB   |
| Tost, H., P. Jöckel, M.G. Lawrence, C. Brühl, the GABRIEL Team, the SCOUT_O3(Darwin)/TWP_ICE Team and J. Lelieveld   | Convection Parameterisations and Campaign Data from GABRIEL and SCOUT_O3 (DARWIN)  | EGU Vienna  | Talk              | 2009 | MPG, DLR, CAO, INOA, FZJ, UNIMAN                            |
| Tourpali, K., A.F. Bais, A. Kazantzidis et al.   | Clear sky UV simulations in the 21st century based on CCM predictions  | One Century of UV Radiation Research, Davos, September  | Oral              | 2007 | AUTH, DLR, UKMO, UNIVLEEDS, FUB, MPC, MPG, ULAQ, PMOD, INGV |

## Presentations

|  |  |  |        |      |                               |
|--|--|--|--------|------|-------------------------------|
| Tourpali, T., S. Kazadzis, A. F. Bais, A. Kazandzidis, M.E. Koukoulis, B. Mayer, P. Jockel   | Variability of surface erythemal irradiance calculated from a Chemistry- Climate Model output                                  | Quadr. Ozone Symposium, Tromso, Norway, 29 June – 5 July   | Poster | 2008 | AUTH, DLR                     |
| Tourpali, K., A. F. Bais, A. Kazantzidis   | Surface UV simulations in the 21st century   | SPARC 4th General Assembly, Bologna, Italy, 31 August - 5 September  | Oral   | 2008 | AUTH                          |
| Urban, J. et al.   | Recent evolution of stratospheric water vapour, ozone and related trace gases derived from satellite measurements              | MOCA-2009 IAMAS/IAPSO/IACS Joint Assembly, Montreal, Canada, 19-29 July 2009   | Oral   | 2009 |                               |
| Urban, J. et al.   | Evolution of stratospheric water vapour observed by Odin and other satellites  | Joint session of 5th SCOUT-O3 annual meeting and COST-ES0604 workshop on Atmospheric Water Vapour in the Climate System (WAVACS), Schliersee, Bavaria, 15-17 and 17-19 June 2009 | Oral   | 2009 |                               |
| Urban, J. et al.   | Global trace gas observations with the Odin satellite: Climatology of stratospheric nitric acid                                | Annual meeting of the Japanese Atmospheric Science Community, 30 October 2008, Yokohama, Japan   | Oral   | 2008 |                               |
| Urban, J. et al.   | Middle atmospheric transport as observed by the Odin Sub-Millimetre Radiometer   | 37th COSPAR Scientific Assembly, 13-20 July 2008, Montreal, Canada.  | Oral   | 2008 |                               |
| Urban, J. et al.   | Remote observations of ClO in the sub-mm spectral range  | Workshop for the SPARC Initiative on the Role of Halogen Chemistry in Polar Stratospheric Ozone Depletion, 17-19 June 2008, Cambridge, UK  | Oral   | 2008 |                               |
| Urban, J. et al.   | Chemical and dynamical variability of the Arctic and Antarctic lower stratosphere derived from Odin observations 2001-2008     | Quadrennial Ozone Symposium, 30 June to 5 July 2008, Tromsø, Norway  | Oral   | 2008 |                               |
| Urban, J. et al.   | Spatio-temporal variability of stratospheric water vapour as observed by Odin  | SPARC 4th General Assembly, 31 August -- 5 September 2008, Bologna, Italy  | Poster | 2008 |                               |
| Urban, J. et al.   | Overview and quality of global observations of middle atmospheric water vapour by the Odin satellite                           | EU-COST Workshop on Atmospheric Water Vapour (WG-1 kickoff meeting), 21-23 May 2008, Lindenberg, Germany   | Oral   | 2008 |                               |
| Urban, J. et al.   | Global observations of long-lived trace constituents in the middle atmosphere by Odin/SMR: N <sub>2</sub> O and CO             | SCOUT-O3 annual meeting, 7-10 May 2007, Heraklion, Greece  | Poster | 2007 |                               |
| Urban, J. et al.   | Tropical ascent and polar descent of lower stratospheric air analysed using measurements of the Odin Sub-Millimetre Radiometer | Reunion Island Int. Symp. Tropical Stratosphere - Upper Troposphere, 5-9 November 2007, St. Gilles, Reunion Island, France   | Oral   | 2007 |                               |
| Vigouroux, C., M. De Mazière, C. Hermans, E. Neefs, F. Scolas, C. Senten, P.-F. Coheur, S. Fally, M. Carleer, J. Leveau and J. Metzger.  | Campaigns of automated ground-based FTIR measurements of atmospheric constituents above the Reunion Island.                    | Annual meeting of the Belgian and French Physical societies, August  | Poster | 2005 | BIRA-IASB, ULB, Univ. Réunion |
| Vigouroux, C., N. Theys, M. De Mazière, M. Van Roozendael, C. Senten, C. Hermans, M. Kruglanski, A.C. Vandaele, E. Neefs, F. Scolas, F. Hendrick, C. Fayt, S. Fally, M. Carleer, P.F. Coheur, and J. Leveau. | Solar absorption FTIR and UV-visible MAXDOAS observations at the Ile de La Réunion.  | SCOUT-O3 Annual Meeting, Julich, Germany, March  | Poster | 2006 | BIRA-IASB, ULB, Univ. Réunion |
| Voigt, C., H. Schlager, B. Kärcher, A. Fix, C. Schiller, M. Krämer, H. Vössing, S. Borrmann  | Relative humidity in cold temperature cirrus clouds – Impact of NO <sub>y</sub>  | International Workshop on Upper Tropospheric Humidity, Karlsruhe, Germany, June  | talk   | 2007 |                               |
| Voigt, C., H. Schlager, B. Kärcher, C. Schiller, S. Borrmann et al.  | Cirrus Clouds in the Tropics   | SCOUT-O3 Annual Meeting, Julich, Germany, March  | poster | 2006 | DLR, MPI Mainz, FZ Jülich     |

## Presentations

|  |  |  |      |      |                                       |
|--|--|--|------|------|---------------------------------------|
| Voigt, C., H. Schlager, B. Kärcher, H. Ziereis, A. Fix, C. Kiemle, C. Schiller, M. Krämer, S. Borrmann, H. Vössing                 | Nitric Acid in Tropical Cirrus Clouds  | EGU General Assembly, Vienna, Austria, April   | Oral | 2006 | DLR, FZJ, Mainz                       |
| Voigt, C., H. Schlager, A. Roiger, A. Stenke, M. de Reus, S. Borrmann, C. Schiller, N. Stinikov                                    | The tropical tropopause nitric acid trihydrate (NAT) belt  | SCOUT-O3 /ACTIVE / TWP-ICE workshop on the tropical UTLS, Manchester, January                              | talk | 2008 |                                       |
| Volk, C. M.  | Transport and mixing in the tropical tropopause region: Insights from recent in situ tracer measurements   | Royal Meteorological Society Atmospheric Chemistry Special Interest Group Annual Meeting, Leicester, April | talk | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C.M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovsky, F. Ravegnani, P. Konopka, D. Brunner               | Transport across the tropical tropopause by convection, mixing, and slow upwelling: Insights from recent in situ observations with the Geophysica aircraft | 4th SPARC General Assembly Bologna   | talk | 2008 | BUW(Uwupp), JWGU, CNR, CAO, FZJ, ETHZ |
| Volk, C. M., J. Baehr, A.C. Kuhn, A. Werner, C. Homan, P. Mazzinghi, S. Viciani, A. Ulanovsky, F. Ravegnani, P. Konopka            | Spurengastransport in der tropischen Tropopausenregion   | Workshop zum Zentrum Tropische Tropopause, Jülich, March   | talk | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C.M., C. Homan, J. Baehr, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, P. Konopka, D. Brunner               | Key transport processes in the TTL: Insights from the SCOUT-O3 and AMMA/SCOUT-O3 Aircraft Campaigns  | SCOUT-O3 Annual Meeting, Potsdam, Germany, April   | Talk | 2008 | JWGU, INOA, CAO, CNR-ISAC, FZJ, ETHZ  |
| Volk, C. M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovski, F. Ravegnani, P. Konopka            | Transport and mixing in the TTL: Results from recent Geophysica campaigns  | SCOUT-O3 annual meeting, Crete, Greece, May  | Talk | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C. M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovski, F. Ravegnani, P. Konopka            | Key transport processes in the tropical tropopause layer: Recent in situ observations with the Geophysica aircraft   | Regional SPARC Workshop, Bremen, Germany, September  | Talk | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C. M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovski, F. Ravegnani                        | Airborne in situ Observations in the tropical UTLS over West Africa: First Results and Implications for Trace Gas Transport                                | EGU General Assembly, Vienna, Austria, April   | talk | 2007 | JWGU, INOA, CAO, CNR-ISAC             |
| Volk, C. M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovsky, F. Ravegnani, P. Konopka            | In situ Tracer Measurements on board the M55 Geophysica during AMMA-SCOUT-O3   | Workshop on the AMMA - SCOUT-O3 UTLS Balloon/Aircraft Campaign, Jülich, March                              | talk | 2007 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C.M., J. Baehr, A.C. Kuhn, A. Werner, C. Homan, P. Mazzinghi, S. Viciani, A. Ulanovsky, F. Ravegnani, H. Schlager, C. Voigt  | M55 Tracer Measurements during SCOUT-O3  | SCOUT-O3 Darwin Data Workshop, Frankfurt, Germany, March   | talk | 2006 | JWGU, INOA, CAO, CNR-ISAC, DLR        |
| Volk, C.M., J. Baehr, A.C. Kuhn, A. Werner, C. Homan, P. Mazzinghi, S. Viciani, A. Ulanovsky, F. Ravegnani, P. Konopka, G. Günther | Transport in the tropical UTLS during the SCOUT-O3 aircraft campaign – A first assessment of in situ tracer measurements on board the M55 Geophysica       | SCOUT-O3 Annual Meeting, Jülich, Germany, March  | Oral | 2006 | JWGU, INOA, CAO, CNR-ISAC, FZJ        |
| Volk, C.M., J. Baehr, C. Homan, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani  | Preliminary results about transport in the tropical tropopause region during the SCOUT-AMMA campaign   | AMMA-Burkina Science Meeting, Ouagadougou, Burkina Faso, Africa, August                                    | talk | 2006 | JWGU, INOA, CAO, CNR-ISAC             |
| Volk, C.M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, H. Schlager, P. Konopka              | In situ Tracer Observations during the SCOUT-O3 Tropical Aircraft Campaign: A first analysis of TTL transport and mixing                                   | EGU General Assembly, Vienna, Austria, April   | Oral | 2006 | JWGU, INOA, CAO, CNR-ISAC, DLR, FZJ   |

## Presentations

|  |  |   |                   |      |                                |
|--|--|---|-------------------|------|--------------------------------|
| Volk, C.M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, A. Ulanovski, F. Ravegnani, P. Konopka   | Transport Processes in the Tropical Tropopause Region – Observations   | German SPARC Workshop, Berlin, Germany, December                              | talk              | 2006 | JWGU, INOA, CAO, CNR-ISAC, FZJ |
| Volk, C.M., J. Baehr, C. Homan, A.C. Kuhn, A. Werner, S. Viciani, P. Mazzinghi, A. Ulanovski, F. Ravegnani   | Tracer distributions in the background TTL and lower stratosphere during the SCOUT-O3 Aircraft Campaign – implications for large-scale transport           | ACTIVE/SCOUT-O3 Workshop, Cambridge, UK, November                             | talk              | 2006 | JWGU, INOA, CAO, CNR-ISAC, FZJ |
| von Clarmann, T., H. Fischer, B. Funke, S. Gil-Lopez, N. Glatthor, U. Grabowski, M. Hoepfner, M. Kaufmann, S. Kellmann, M. Kiefer, M.E. Koukouli, A. Linden, M. Lopez-Puertas, G. Mengistu Tsidu, M. | Retrieval of atmospheric parameters from MIPAS measurements at IMK/IAA and application to atmospheric sciences   | Envisat Symposium, Salzburg, Austria, September                               | Oral presentation | 2004 | UNIKARL                        |
| von Clarmann, T., N. Glatthor, G.P. Stiller, U. Grabowski, M. Hoepfner, S. Kellmann, A. Linden, M. Milz, T. Steck, H. Fischer, B. Funke, M.L. Koukouli   | C2H6 as tracer of tropospheric transport   | SCOUT-O3 annual meeting, Crete, Greece, May                                   | Oral presentation | 2007 |                                |
| von Hobe, M., J.-U. Grooß, R. Müller, R. Salawitch and F. Stroh  | Constraints on the Photolysis Rate of ClOOCl   | EGU General Assembly, Vienna, Austria, April                                  | Poster            | 2006 | FZJ                            |
| von Hobe, M., P. Konopka, G. Günther, and F. Stroh   | Chlorine Activation on Cirrus Clouds in the tropical UTLS  | EGU General Assembly, Vienna, Austria, April                                  | Poster            | 2006 | FZJ                            |
| Vössing, H.-J., S.M.F. Raupach, R. Weigel, J. Curtius, C. Voigt, H. Schlager, S. Borrmann  | Upper Tropospheric Tropical Ice Clouds: In-situ Measurements of Aerosol covering sizes from 6 nm to 1550 nm and Particle NOy during TROCCINOX and SCOUT-O3 | EGU General Assembly, Vienna, Austria, April                                  | Poster            | 2006 | Umainz, DLR                    |
| Weber, M., Dhomse, S., Wohltmann, I., Rex, M., Burrows, J.   | On the possible cause of recent increases in NH total ozone  | EGU General Assembly, Vienna, Austria, April                                  | talk              | 2005 | AWI                            |
| Weihls, P., H.E. Rieder, J.E. Wagner, S. Simic.  | Reconstruction and prediction of erythemal UV doses at two stations in Austria   | SCOUT 2009 Final Meeting - Schliersee, 15.-17. Juni, 2009, Schliersee         | Oral              | 2009 |                                |
| Weihls, P.   | Investigations on the accuracy of 3-D radiation Monte Carlo calculations in mountainous terrain in the UV wavelength range.                                | EGU General Assembly, Vienna, Austria, April                                  | Poster            | 2005 |                                |
| Wernli, H.   | Stratosphaeren-Troposphaeren Austausch: Neue Ergebnisse und offene Fragen  | Meteorologisches Kolloquium, München, Germany, May                            |                   | 2004 |                                |
| Wernli, H.   | Key issues of STE in the extra-tropics   | SPARC, 3rd General Assembly, Victoria BC, Canada, August                      |                   | 2004 |                                |
| Wernli, H.   | Klimatologische Untersuchungen zu STE in den Aussertropen basierend auf ERA15 und ERA40 Daten  | DACH-MT 2004, Karlsruhe, Germany, September                                   |                   | 2004 |                                |
| Wernli, H.   | Stratosphere-troposphere exchange  | Lectures at the COST 723 summer school on the UTLS, Cargese, Corsica, October |                   | 2005 |                                |
| Wernli, H.   | Resultate einer STE Klimatologie basierend auf ERA-40 Daten  | Seminar, Forschungszentrum Karlsruhe, December                                | Oral              | 2007 |                                |
| Wiegand, L., M. Jonas, L. Fröhlich and H. Wernli   | Der Transport von stratosphärischen Luftmassen in die tropische Troposphäre: Klimatologie und Einfluss auf das Ozonbudget                                  | DACH, Hamburg, September  | Poster            | 2007 |                                |
| Wiegner, M., B. Heese, V. Freudenthaler, D. Balis, T. Ruhtz, M. Blumthaler, R. Schmidhauser  | The SCOUT UV-Aerosol campaign 2006: Vertical distribution of aerosols from airborne lidar measurements   | One Century of UV Radiation Research, Davos, September                        | Poster            | 2007 | UIIMP, AUTH                    |
| Williams, J.E., J. Landgraf, A. Bregman and H. Walter  | A modified band approach for accurate calculation of online photolysis rates in stratospheric-tropospheric Chemistry Transport Models                      | EGU General Assembly, Vienna, Austria, April                                  | Poster            | 2006 | KNMI                           |
| Williams, J.E., G.J. van Zadelhoff and P.F.J. van Velthoven  | The effect of ice particles on the tropospheric ozone budget via heterogeneous conversion processes  | TAC-II Transport, Atmosphere and Climate, Aachen, Germany, KNMI/DLR (int.)    | Talk              | 2009 | KNMI                           |
| Williams, J.E., G.J. van Zadelhoff and M.P. Scheele  | Incorporating a parameterization for cirrus formation in a global CTM  | SCOUT-O3 final meeting, Schliersee, Germany, SCOUT-O3                         | Poster            | 2009 | KNMI                           |

## Presentations

|  |  |   |              |      |                |
|--|--|---|--------------|------|----------------|
| Williams, J.E. and M.P. Scheele  | Enhanced formation of HNO <sub>3</sub> due to water vapour from the reaction of NO with HO <sub>2</sub> : The Effect on Tropospheric Composition | SCOUT-O3 final project meeting, Schliersee, Germany, SCOUT-O3 (int.)    | Talk         | 2009 | KNMI           |
| Williams, J.E. and G.J. van Zadelhoff  | Incorporating a parameterization for cirrus formation in a global CTM to account for reversible uptake of trace gases in the upper troposphere   | EGU general assembly, Vienna, Austria, European Geophysical Union, 2009 | Poster       | 2009 | KNMI           |
| Wohltmann, I., M. Rex  | The Lagrangian Chemistry and Transport Model ATLAS   | Technisches Seminar, FZ Juelich, March                                  | Invited Talk | 2009 |                |
| Wohltmann, I., M. Rex  | The Lagrangian chemistry and transport model ATLAS   | CCMVal Workshop, Toronto, Canada, June                                  | Poster       | 2009 | AWI            |
| Wohltmann, I., M. Rex  | The Lagrangian chemistry and transport model ATLAS   | SCOUT-O3 Annual Meeting, Schliersee, Germany, June                      | Poster       | 2009 | UCA            |
| Wohltmann, I., M. Rex  | An update on statistical trend analysis of column ozone in the CANDIDOZ project: Influence of dynamical and chemical processes                   | SPARC 4th General Assembly, Bologna, Italy, September                   | Poster       | 2008 |                |
| Wohltmann, I., M. Rex  | Improved vertical and residual velocities on pressure coordinates in analysis data and application to trajectory calculations in the TTL         | SCOUT-O3 Annual Meeting, Heraklion, Crete                               | Poster       | 2007 | UCA            |
| Wohltmann, I., M. Rex  | Improved vertical and residual velocities on pressure coordinates in analysis data and application to trajectory calculations in the TTL         | SPARC Workshop, Bremen, September                                       | Poster       | 2007 | UCA            |
| Wohltmann, I., M. Rex  | Improved vertical and residual velocities on pressure coordinates in analysis data and application to trajectory calculations in the TTL         | EGU General Assembly 2007, Vienna, April                                | Poster       | 2007 | UCA            |
| Wohltmann, I., M. Rex, D. Brunner, J. Maeder   | Integrated equivalent latitude as a proxy for dynamical changes in ozone column  | EGU General Assembly 2005, April, Vienna, Austria                       | Poster       | 2005 | UCA            |
| Wohltmann, I., M. Rex, R. Lehmann  | The Lagrangian chemistry and transport model ATLAS   | EGU General Assembly 2009, Vienna, Austria, April                       | Poster       | 2009 |                |
| I. Wohltmann, M. Rex, R. Lehmann   | ATLAS - A new fully Lagrangian transport and mixing model with detailed stratospheric chemistry.   | SCOUT-O3 Annual Meeting, Potsdam, Germany, April                        | Poster       | 2008 |                |
| Yuchechen, A.E., S.A. Bischoff, P.O. Canziani  | Monthly frequency distributions for tropopause variables over Mexico and its relation to the Tropical Western Hemisphere Warm Pool               | Congreso Mexicano de Meteorología                                       | Conference   | 2007 | UCA            |
| Yushkov, V., N. Sitnikov, A. Ulanovsky, F. Ravegnani   | Some results of in situ water vapour and ozone measurements in the tropical UTLS on board of high-altitude aircraft M-55 "Geophysica"            | EGU General Assembly, Vienna, Austria, April                            | Poster       | 2006 | CAO, CNR       |
| Zeferos, C.S., K. Eleftheratos, A.F. Bais, S. Kazadzis   | Preliminary analysis of long-term UV variability at locations outside of Europe  | SCOUT-O3 Annual Meeting, Juelich, Germany, March                        | Poster       | 2006 | NKUA, AUTH     |
| Zhong W., R. Hogan and J.D. Haigh  | 3D radiative transfer in cirrus cloud  | SCOUT-O3 workshop   | Oral         | 2005 |                |
| Zhong, W., R. Hogan, J. Haigh  | 3D radiative heating rates in cirrus clouds  | IAMAS2005, August   | Oral         | 2005 |                |
| Zobrist, B., T. Peter, U.K. Krieger, B.P. Luo, V. Soonsin, C.R. Hoyle, C. Marcolli and T. Koop | Water uptake impedance of glassy organic aerosols  | MOCA-09 Conference; Montreal, Canada, July                              | Oral         | 2009 | ETH/Bielefeld  |
| Zobrist, B., T. Peter, U.K. Krieger, B.P. Luo, V. Soonsin, C.R. Hoyle, C. Marcolli and T. Koop | Water uptake impedance of glassy organic aerosols  | SCOUT-O3 Final Meeting, Schliersee, Germany, June                       | Oral         | 2009 | ETH/Bielefeld  |
| Zobrist, B., C. Marcolli, D. A. Pedernera and T. Koop  | Do atmospheric aerosols from glasses?  | AQUAVIT workshop, Zurich, Switzerland                                   | Oral         | 2008 | ETH            |
| Zobrist, B., C. Marcolli, D. A. Pedernera and T. Koop  | Do atmospheric aerosols from glasses?  | SPARC Assembly, Bologna, Italy  | Poster       | 2008 | ETH            |
| Zobrist, B.; Koop, T.; Luo, B.P.; Marcolli, C.; Peter, T.                                      | Heterogeneous Ice Nucleation induced by Surfactant Monolayers  | EGU General Assembly, Vienna, Austria, April                            | Poster       | 2007 | ETHZ/Bielefeld |
| Zhong W., R. Hogan and J.D. Haigh  |  |   |              |      |                |

## Presentations

|  |  |   |        |      |                                   |
|--|--|---|--------|------|-----------------------------------|
| Zobrist, B., C. Marcolli, T. Koop and T. Peter | Heterogeneous ice nucleation of aqueous solutions with immersed mineral dust particles | International Conference on Nucleation & Atmospheric Aerosols, Galway Ireland, August | Poster | 2007 | ETHZ/Biel                         |
| Zobrist, B., C. Marcolli, T. Koop, T. Peter    | Heterogeneous ice nucleation in the immersion mode- the role of water activity         | EGU General Assembly, Vienna, Austria, April  | Poster | 2006 | ETH Zurich / Bielefeld University |
|  |  |   |        |      |                                   |
|  |  |   |        |      |                                   |

Other Material

**SCOUT-O3 Related Dissemination**

**Other Material**

| Author(s)                                 | Title   | Event(s) displayed (if applicable)                               | Material Type | Date/Year | Partner(s) |
|---|---|--|---------------|-----------|------------|
| Australien National Geographic            | Thunderheads  | 45 min movie shown in Australian, German and UK television, July |               | 2009      | Many       |
| Eyring, V., et al.                        | CCM Validation Activity for SPARC (CCMVal)<br><a href="http://www.pa.op.dlr.de/CCMVal/">http://www.pa.op.dlr.de/CCMVal/</a> |  | webpage       | 2004      | DLR        |
| Fjaeraa, A.M. and A.F. Vik                | Nadir News 2006   |  | Magazine      | 2006      | NILU       |
| Iachetti, D., G. Pitari, and V. Montanaro | Homogeneous freezing of ice particles, including effects of aerosol size distribution in the University of L'Aquila CCM     | EGS 2006, Wien, Austria  | poster        | 2006      |            |
| Janouch M.                                | UV Index pro ve_ejnost  | Referátov_ v_ b_ r z dermatologie, speciál 1/05                  | 44-45         | 2005      | CHMI       |
| Knudsen, B.M.                             | Article on the DMI homepage about future ozone  |  | webpage       | 2004      | DMI        |

## SCOUT-O3 Related Dissemination

### Science/Society

| Name  | Event description   | Event Type   | Date/Year | Partner(s)    |
|---|---|--|-----------|---------------|
| Bregman, B.   | On the use of assimilated winds for stratospheric tracer transport  | seminar and participation in a promotion commission  | 2005      |               |
| Bregman, B.   | University of Toronto and Meteorological Service Canada   | visit and seminar, summer  | 2005      |               |
| Brunner, D. and C. Schiller   | Report from TWP-ICE meeting in Darwin, 15-19 Nov 2004, on issues relevant for the SCOUT-O3 tropical campaign planning   | Project report, April  | 2005      |               |
| Brunner, D., Corti, T., Füglistaler, S., Harris, N., Luo, B., MacKenzie, R., Peter, T., Pyle, J., Rex, M., Schiller, C. | Planning Document for the SCOUT-O3 Tropical Aircraft Campaign   | Project report, April  | 2005      |               |
| Da Silva, L.  | "The depletion of ozone layer in the west side of South America". Student Activity during their Week Celebration  | Conference of the Engennering Student. U. de Valparaiso Chile  | 2006      | Luis Da Silva |
| Godin-Beekmann, S.  | "Vers un rétablissement de l'ozone stratosphérique?" presentation at the yearly event « Fête de la Science »  | researchers meet the public in their laboratories, October   | 2006      | CNRS          |
| Godin-Beekmann, S.  | "Etat actuel de la couche d'ozone et lien avec le changement climatique" presentation at « Ecole Normale Supérieure » of Lyon, France   | Seminar, November  | 2006      | CNRS          |
| Harris, N.R.P   | Transport of Very Short-lived Species through the Tropical Troposphere Layer  | Research Seminar presented at the Research Institute for Sustainable Humanosphere, Kyoto University, March | 2008      | UCAM          |
| Harris, N.R.P   | A Head in the Clouds: what an atmospheric scientist does  | Presentation to Years 7-8, Terrace Primary School, Alexandra, New Zealand, March                           | 2007      | UCAM          |
| Harris, N.R.P   | The Possible Influence of Climate Change on the Stratosphere  | Research Seminar at NIWA Lauder, Alexandra, New Zealand, April   | 2007      | UCAM          |
| Harris, N.R.P   | The Possible Influence of Climate Change on the Stratosphere: The Tropics   | Research Seminar at NIWA Greta Point, Wellington, New Zealand, March                                       | 2007      | UCAM          |
| Harris, N.R.P   | Transport of Trace Gases from the Tropical Troposphere to the Stratosphere  | Research Seminar at the Bureau of Meteorology Research Centre, Melbourne, Australia, January               | 2006      | UCAM          |
| Harris, N.R.P   | Climate Change: Challenge of Today  | 2005 Foley Lecture to the Old Swinford Hospital School, May  | 2005      | UCAM          |
| Harris, N.R.P   | Aims and Plans of TWP-ICE Pt. I: SCOUT-03 and ACTIVE Field Campaigns  | Seminar at the Bureau of Meteorology, Darwin, Australia, November  | 2005      | UCAM          |
| Harris, N.R.P.  | Lecture to Royal Society of Chemistry (Mid Southern Counties) and School of Chemistry, University of Southampton,   | Non-specialist seminar, November   | 2004      | UCAM          |
| Harris, N.R.P.  | Royal Meteorological Society special interest groups' seminar on "Ozone In The Atmosphere - The History of Endeavours to Understand and Measure it", Clarendon Laboratory, University of Oxford | Non-specialist seminar, October  | 2004      | UCAM          |

## Science/Society

|                              |  |   |      |                                   |
|------------------------------|--|---|------|-----------------------------------|
| Harris, N.R.P. and J.A. Pyle | Cambridge Environmental Initiative Horizon Day: Towards a Sustainable Earth, University of Cambridge.  | Meeting promoting links between research, industry and government, December   | 2004 | UCAM                              |
| Immler, F.                   | Cirrus clouds in the mid-latitudes and the tropics observed with a mobile Raman Lidar system.          | Seminaire du Service d'Aeronomie, Insitute Pierre Simon Laplace - CNRS, Paris, November                             | 2005 | AWI                               |
| Immler, F.                   | Cirrus und NAT Wolken in der TTL: Lidar Beobachtungen in Paramaribo/Surinam und von der RV Polarstern  | ZTT annual meeting, Jülich, March   | 2006 | AWI                               |
| Koop, T.                     | Talk entitled "One water without ice, please!" (in German)   | 30th anniversary of the Chemistry Department at Bielefeld University, July  | 2005 | ETH Zurich / Bielefeld University |
| Koop, T.                     | Talk entitled "Water - can one hear clouds? A musical flight through a cirrus cloud" (in German)       | Talks, pieces of music, and discussions on the topic: Musical representation of scientific data and phenomena, July | 2005 | ETH Zurich / Bielefeld University |
| Koop, T.                     | What happens when water is stored in a closed metal container at subfreezing temperatures? (in German) | Short Article in web discussion forum "Science in Dialogue - You ask, we answer", October                           | 2005 | ETH Zurich / Bielefeld University |
| Koop, T.                     | "Clouds and Climate - A cool relationship" (In German)   | Talk before general public in the "Open Science" forum at Bielefeld University, May                                 | 2006 | ETHZ/Bielefeld                    |
| Koop, T.                     | "Why does it rain so much in Oelde?" (In German)   | Talk in Children's University in the Children's Museum Klipp-Klapp in Oelde, June                                   | 2006 | ETHZ/Bielefeld                    |
| Koop, T.                     | "Borders and transitions in waterland - a map of water" (In German)                                    | Talk in School Academy of Bielefeld University (12./13. grade), December  | 2006 | ETHZ/Bielefeld                    |
| Koop, T.                     | Talk: "Borders and transitions in waterland - a map of water" (In German)                              | Talk in School Academy of Bielefeld University (12./13. grade school children), Bielefeld/Germany, June             | 2007 | ETHZ/Biel                         |
| Koop, T.                     | Talk: "H2O - A small molecule on ist way through the atmospheric water land" (In German)               | Talk in Study Trials of the Department of Chemistry (12./13. grade school children), Bielefeld/Germany, June        | 2007 | ETHZ/Biel                         |
| Koop, T.                     | "Why does it rain so often in Halle?" (In German)  | Talk in Children's University in the Volkshochschule Halle, March   | 2007 | ETHZ/Bielefeld                    |
| Koop, T.                     | "Cold Water: Not Cold Coffee " (In German)   | Talk before members of the Westfälisch-Lippische Universitätsgesellschaft, April                                    | 2007 | ETHZ/Bielefeld                    |
| Koop, T.                     | Talk: "Water and Clouds - Look! And Listen?" (In German)   | Talk before general public in "Wasserturm", Lüneburg/Germany, March   | 2008 | ETHZ/Biel                         |
| Koop, T.                     | Talk: "Why does it rain so often in Bielefeld?" (In German)  | Talk in Children's University of Bielefeld University (5./6. grade school children), Bielefeld/Germany, February    | 2008 | ETHZ/Biel                         |
| Mackenzie, R.                | Lecture, "What on Earth is Global Warming?", Inst. Chem. Eng. N. Lancs. Area                           | Visiting speaker, October   | 2005 | ULANC                             |
| Mackenzie, R.                | Seminar at School of Earth and Environment, Leeds University, UK                                       | Visiting speaker, February  | 2006 | ULANC                             |
| Mackenzie, A. R.             | SET Ambassador for Lancs&Cumbria climate change project, Oct2006-May2007.                              | Schools outreach  | 2006 | ULANC                             |

## Science/Society

|  |  |  |           |                |
|--|--|--|-----------|----------------|
| Mackenzie, A. R.   | Climate Change training for school teachers, 27 Feb 2007   | Schools outreach   | 2007      | ULANC          |
| Mackenzie, A. R.   | National Science Week: environmental impact practical for schoolchildren, 13-14 March 2007   | Schools outreach   | 2007      | ULANC          |
| Mackenzie, R.  | Informal science support for EC Comenius project on climate change by Blackpool 6 <sup>th</sup> Form and Gaziemir Kipa 10 school, Yil Lisesi, Turkey   | International schools science/society project  | 2008-2010 | ULANC          |
| Nielsen, J.K.  | Presentation of measurements and theory.   | Invited lecture  | 2009      | DMI            |
| Penkett, R.G., S. Bauguitte, M.A. Streibel, R. Freshwater, R.C. Pike, M. Koehler, H. Barjat, P. Young, O. Wild, M. Mead, S. Hosking, J. Triest, S. Foord, M. Russo, N. Brough H. Roscoe, S. Garcelon | Cambridge Science Festival activity organised by Centre for Atmospheric Science, University of Cambridge and British Antarctic Survey "Climate Change & Atmosphere : from Cambridge to Antarctica", March                                | Public outreach (children and parents). Stand of activities, displays etc.                                 | 2007      | UCAM, BAS      |
| Penkett, R.G., S. Bauguitte, M.R. Russo, D. Stephenson, S. Foord, P. Cook, R.A. Cox, M.I. Mead, N. Abram, I. Young, A. Symington, R. Rothlisberger, P. Young, P. Telford, R.C. Pike, N. Lang         | Cambridge Science Festival activity organised by Centre for Atmospheric Science, University of Cambridge and British Antarctic Survey "Climate Change & Atmosphere : from Cambridge to Antarctica", 15 March                             | Public outreach (children and parents). Stand of activities, displays etc.                                 | 2008      | UCAM, BAS      |
| Peter, T.  | Aerosolpartikel zwischen 10 und 30 km Höhe: Was wissen wir über sie, was nicht?  | Öffentlicher Festvortrag anlässlich des zehnjährigen Bestehens der Aerosolkammer AIDA, Karlsruhe (D), June | 2007      | ETH            |
| Peter, T.  | The high supersaturation puzzle  | Deutscher Wetterdienst in Offenbach/Main (D), 16 May   | 2007      | ETH            |
| Pyle, J.   | Talk to Green Group, Dry Drayton, Cambridgeshire, UK about climate change issues   | Public outreach  | 2008      | UCAM           |
| Pyle, J.   | J. Pyle helped organise a schools regional forum on climate change in Cambridge in February involving six schools and also spoke at the forum on the science of climate change.  | Public outreach  | 2008      | UCAM           |
| Pyle, J.   | Climate change talk at St Catharine's College, Cambridge   | Public outreach  | 2007      | UCAM           |
| Pyle, J.   | Climate change talk at Perse School for girls, Cambridge   | Public outreach  | 2007      | UCAM           |
| Rex, M.  | lecture series   | Summer School, Banff, Canada, May  | 2005      | AWI            |
| Rivière, E.D.  | "Fête de la Science 2008" = French Science Festival 2008. Here I presented the main French and European research activities related to the ozone layer, and the climate change (part of the talk was dedicated to the SCOUT-O3 campaign) | 2 Seminars in front of high school students, and larger audience in Saint Dizier, France. Talk             | 2008      | GSMA           |
| Santos, F.   | Cargese International School, COST Action 723, Upper troposphere and lower stratosphere  | summer school, October   | 2005      | COST           |
| Schiller, C., H. Schlager, J.-P.-Pommereau, G. Vaughan   | "The tropical tropopause"  | Special session at EGU Vienna  | 2008      | FZJ, DLR, CNRS |
| Schofield, R.  | Invited talk in Nobel series in the physics department at the University of Toronto, Canada  | Seminar, October   | 2007      | AWI            |
| Schofield, R.  | Invited talk at the Frei Universität Berlin  | Seminar, November  | 2007      | AWI            |
| Schofield, R.  | Invited talk at the University of Heidelberg   | Seminar, January   | 2008      | AWI            |

## Science/Society

|                        |  |  |      |           |
|------------------------|--|--|------|-----------|
| Schrems, O. Immler, F. | Pilot study: lidar observations of tropical cirrus | Lecture, STAR research school,<br>Paramaribo, Suriname, March, | 2006 | AWI, KNMI |
|------------------------|--|--|------|-----------|

Awards/Prizes

**SCOUT-O3 Related Dissemination**

**Awards/Prizes**

| <b>Name</b>                                  | <b>Reason for Award</b>   | <b>Award Title</b>  | <b>Awarded by</b>   | <b>Date/Year</b> | <b>Partner(s)</b>                 |
|--|---|---|---|------------------|-----------------------------------|
| Da Silva, L.                                 | For the research about the ozone depletion on the west side of South America  | Cyted Merit   | Group of work Cyted   | 2005             |                                   |
| Eyring, V.                                   |   | Dobson Award of the International Ozone Commission                | Dobson Award of the International Ozone Commission                            | 2008             |                                   |
| Koop, T.                                     | Significant research contribution to aerosol science  | Marian Smoluchowski Award   | Association for Aerosol Research  | 2008             |                                   |
| Koop, Thomas                                 | Outstanding achievements and personal commitment in teaching  | Karl Peter Grottemeyer-Preis                                      | Westfälisch-Lippische Universitätsgesellschaft                                | 2006             | ETHZ/Bielefeld                    |
| Laube, J.C.                                  | PhD Thesis  | Procter & Gamble Sustainability Prize 2009                        | Procter & Gamble Germany/University of Frankfurt                              | 2009             |                                   |
| Prather, Michael                             | elected fellow  | Fellow of the American Association for the Advancement of Science | AAAS  | 2004             |                                   |
| Rex, Markus                                  |   | Dobson Award  | IOC   | 2004             | AWI                               |
| Schofield, Robyn                             | Visiting research award - funding of position   | Humboldt fellowship award   | Alexander von Humboldt Stiftung   | 2006 to 2007     | AWI - Potsdam                     |
| Schofield, Robyn, Markus Rex, Kristin Krüger | Visiting research award - funding of position   | Marie Curie International Incoming Fellow                         | European Commission   | 2007 to 2009     | AWI - Potsdam, University of Keil |
| Sinnhuber, Björn-Martin                      | For important contributions towards a better understanding of the contribution of very short-lived substances to the stratospheric bromine budget | Dobson Award of the International Ozone Commission                | International Ozone Commission  | 2008             |                                   |
| SSTD Team Award                              | Going the extra mile in the deployment of MARSCHALS during the SCOUT-O3 campaign in Darwin  |   | CCLRC Rutherford Appleton Laboratory, Space Science and Technology Department | 2006             |                                   |