

NDACC Publications – 2012

2012, C. Adams

K. Strong, X. Zhao, M.R. Bassford, M.P. Chipperfield, W. Daffer, J.R. Drummond, E.E. Farahani, W. Feng, A. Fraser, F. Goutail, G. Manney, C.A. McLinden, A. Pazmino, M. Rex, and K.A. Walker

Severe 2011 ozone depletion assessed with 11 years of ozone, NO₂, and OClO measurements at 80N
Geophys. Res. Lett., 39, L05806

doi:10.1029/2011GL050478

UVVis; Ozone; NO₂ OClO

2012, C. Adams,

K. Strong, R.L. Batchelor, P.F. Bernath, S. Brohede, C. Boone, D. Degenstein, W.H. Daffer, J.R. Drummond, P.F. Fogal, E. Farahani, C. Fayt, A. Fraser, F. Goutail, F. Hendrick, F. Kolonjari, R. Lindenmaier, G. Manney, C.T. McElroy, C.A. McLinden, J. Mendonca, J.-H. Park, B. Pavlovic, A. Pazmino, C. Roth, V. Savastiouk, K.A. Walker, D. Weaver, and X. Zhao

Validation of ACE and OSIRIS ozone and NO₂ measurements using ground-based instruments at 80N
Atmos. Meas. Tech., 5, 927-953

UVVis; Ozone; NO₂; Validation

2012, David, C.,

Haefele, A., Keckhut, P., Marchand, M., Jumelet, J., Leblanc, T., Cenac, C., Laqui, C., Porteneuve, J., Haeffelin, M., Courcoux, Y., Snels M. and Viterbini, M. and Quatrevalet, M.

Evaluation of stratospheric ozone, temperature, and aerosol profiles from the LOANA lidar in Antarctica
Polar Science, 2012, Vol. 6, pp. 209-225

Lidar; Aerosol; Temperature; Ozone

2012, Fitzka, M.

Simic, S., and Hadzimustafic, J.

Trends in spectral UV radiation from long-term measurements at Hoher Sonnblick, Austria

Theor. Appl. Climatol., 110, 585-593

Spectral UV; UV Irradiance; Trends

2012, Kohlhepp, R., et al

Observed and simulated time evolution of HCl, ClONO₂, and HF total column abundances

Atmospheric Chemistry and Physics 12: 3527-3556

FTIR; HCl; ClONO₂; HF

2012, R. Lindenmaier

K. Strong, R.L. Batchelor, M.P. Chipperfield, W.H. Daffer, J.R. Drummond, T.J. Duck, H. Fast, W. Feng, P.F.

Fogal, F. Kolonjari, G.L. Manney, A. Manson, C. Meek, R.L. Mittermaier, G.J. Nott, C. Perro, and K.A.

Walker

Unusually low O₃, HCl, and HNO₃ column measurements at Eureka, Canada during spring 2011
Atmos. Chem. Phys., 12, 3821-3835
FTIR; Ozone; HCl; HNO₃

2012, Morgenstern, O., et al
Long-range correlations in FTIR, satellite, and modeled CO in the Southern Hemisphere
Journal of Geophysical Research
doi:10.1029/2012JD017639
FTIR; Satellite; Model; CO

2012, C. Ochoa, D.
Baumgardner, M. Grutter, J.Allan, J. Fast, B. Rappengluck
Physical and chemical properties of the regional mixed layer of Mexico's Megapolis Part II: Evaluation of Measured and Modeled Trace Gases and Particle Size Distributions
Atmospheric Chemistry and Physics 12 (24), p. 10161-10179, 2012
doi: 10.5194/acp-12-10161-2012
FTIR; Model

2012, A.J. M. Piters
K.F. Boersma, M. Kroon, J.C. Hains, M. Van Roozendael, F. Wittrock, N. Abuhassan, C. Adams, M. Akrami, M.A.F. Allaart, A. Apituley, J.B. Bergwerff, A.J.C. Berkhout, D. Brunner, A. Cede, J. Chong, K. Clemer, C. Fayt, U. Friess, L.F.L. Gast, M. Gil-Ojeda, F. Goutail, R. Graves, A. Griesfeller, K. Grossmann, G. Hemerijckx, F. Hendrick, B. Henzing, J. Herman, C. Hermans, M. Hoexum, G.R. van der Hoff, H. Irie, P.V. Johnston, Y. Kanaya, Y.J. Kim, H. Klein Baltink, K. Kreher, G. de Leeuw, R. Leigh, A. Merlaud, M.M. Moerman, P.S. Monks, G.H. Mount, M. Navarro-Comas, H. Oetjen, A. Pazmino, M. Perez-Camacho, E. Peters, A. du Piesanie, G. Pinardi, O. Puentedura, A. Richter, H.K. Roscoe, A. Schonhardt, B. Schwarzenbach, R. Shaiganfar, W. Sluis, E. Spinei, A.P. Stolk, K. Strong, D.P.J. Swart, H. Takashima, T. Vlemmix, M. Vrekoussis, T. Wagner, C. Whyte, K.M. Wilson, M. Yela, S. Yilmaz, P. Zieger, and Y. Zhou
The Cabauw Intercomparison campaign for Nitrogen Dioxide Measuring Instruments (CINDI): design, execution, and early results
Atmos. Meas. Tech. 5, 457-485
UVVis; NO₂; Validation

2012, Rinsland, C. P.
Mahieu, E., Demoulin, P., Zander, R., Servais, C. and Hartmann, J.-M.
Decrease of the carbon tetrachloride (CCl₄) loading above Jungfraujoch, based on high resolution infrared solar spectra recorded between 1999 and 2011
Journal of Quantitative Spectroscopy and Radiative Transfer, 113(11), 1322–1329
doi:10.1016/j.jqsrt.2012.02.016
FTIR; CCl₄

2012, Risi, C., et al

Process-evaluation of tropospheric humidity simulated by general circulation models using water vapor isotopologues: 1. Comparison between models and observations
Journal of Geophysical Research 117: D05303
FTIR; Model; H₂O

2012, Schneider, M., et al
Ground-based remote sensing of tropospheric water vapour isotopologues within the project MUSICA
Atmos. Meas. Tech., 5, 3007-3027
doi: 10.5194/amt-5-3007-2012
FTIR; H₂O

2012, Vigouroux, C.
T. Stavrakou, C. Whaley, B. Dils, V. Duflot, C. Hermans, N. Kumps, J.-M. Metzger, F. Scolas, G. Vanhaelewyn, J.-F. Müller, D. B. A. Jones, Q. Li, and M. De Mazière
FTIR time-series of biomass burning products (HCN, C₂H₆, C₂H₂, CH₃OH, and HCOOH) at Reunion Island (21°S, 55°E) and comparisons with model data
Atmos. Chem. Phys., 12, 10367-10385
doi: 10.5194/acp-12-10367-2012
FTIR; Model; HCN; C₂H₆; C₂H₂; CH₃OH; HCOOH

2012, Zeng, G., et al
Trends and variations in CO, C₂H₆ and HCN in the Southern Hemisphere point to the declining anthropogenic emissions of CO and C₂H₆
Atmospheric Chemistry and Physics 12: 7543 – 7555
FTIR; CO; C₂H₆; HCN; CO, C₂H₆; Trends