NDACC Publications – 2013

Updated – 4/15/2020

2013, C. Adams
K. Strong, X. Zhao, A.E. Bourassa, W.H. Daffer, D. Degenstein, J.R. Drummond, E.E. Farahani, A. Fraser, N.D. Lloyd, G.L. Manney, C.A. McLinden, M. Rex, C. Roth, S.E. Strahan, K.A. Walker, and I. Wohltmann
The spring 2011 final stratospheric warming above Eureka: anomalous dynamics and chemistry
Atmos. Chem. Phys., 13, 611-624
FTIR; Satellite; Model

2013, Baray J-L., et al.
Maïdo observatory: a new high-altitude station facility at Reunion Island (21 S, 55 E) for long-term atmospheric remote sensing and in situ measurements
Atmos. Meas. Tech., 6, 2865-2877
doi: 10.5194/amt-6-2865-2013
Lidar

2013, Bernhard, G.
A. Dahlback, V. Fioletov, A. Heikkilâ€°, B. Johnsen, T. Koskela, K. Lakkala, and T. M. Svendby
High levels of ultraviolet radiation observed by ground-based instruments below the 2011 Arctic ozone hole
Atmos. Chem. Phys., 13, 10,573-10,590
doi:10.5194/acp-13-10573-2013
Spectral UV; UV Irradiance

2013, Brocard, E.
Philipona, R., Haefele, A., Romanens, G., Mueller, A., Ruffieux, D., Simeonov, V., and Calpini, B.
Raman Lidar for Meteorological Observations, RALMO - Part 2: Validation of water vapor measurements
Atmospheric Measurement Techniques, 6, 1347–1358
doi: 10.5194/amt-6-1347-2013, https://www.atmos-meas-tech.net/6/1347/2013/
Lidar; H2O

2013, Christensen, O. M.
Eriksson, P.
Time series inversion of spectra from ground-based radiometers
Atmos. Meas. Tech., 6, 1597-1609
doi:10.5194/amt-6-1597-2013
Microwave

2013, Dinoev, T.

Simeonov, V., Arshinov, Y., Bobrovnikov, S., Ristori, P., Calpini, B., Parlange, M., and van den Bergh, H.
Raman Lidar for Meteorological Observations, RALMO - Part 1: Instrument description
Atmospheric Measurement Techniques, 6, 1329–1346
doi: 10.5194/amt-6-1329-2013, https://www.atmos-meas-tech.net/6/1329/2013/
Lidar

2013, D. Griffin
K. A. Walker, J. E. Franklin, M. Parrington, C. Whaley, J. Hopper, J. R. Drummond, P. I. Palmer, K. Strong, T. J. Duck, I. Abboud, P. F. Bernath, C. Clerbaux, P.-F. Coheur, K. R. Curry, L. Dan, E. Hyer, J. Kliever, G. Lesins, A. Saha, K. Tereszchuk, M. Maurice, and D. Weaver
Investigation of CO, C2H6 and aerosols in a boreal fire plume over Eastern Canada during BORTAS 2011 using ground- and satellite-based observations, and model simulations
Atmos. Chem. Phys., 13, 10227-10241
FTIR; Satellite; Model; CO; C2H6; Aerosol

2013, Haluza, D.
Moshammer, H., Simic, S., Höltge, J., and Cervinka, R.
Connectedness to nature and Public (Skin) Health perspectives: Results of a representative, population-based survey among Austrian residents
International Journal of Environmental Research and Public Health
Int J Environ Res Public Health, 11(1): 1176–1191
doi: 10.3390/ijerph110101176
Spectral UV; Erythemal UV

2013, Kuang, S.
M. J. Newchurch, J. Burris, and X. Liu
Ground-based lidar for atmospheric boundary layer ozone measurements
Appl. Opt., 52, 3557-3566.
Lidar; Ozone

2013, Nedoluha, G. E.
R. M. Gomez, D. R. Allen, A. Lambert, C. Boone, and G. Stiller
Variations in Middle Atmospheric Water Vapor form 2004-2013
J. Geophys. Res., 118, 11,285–11,293
doi:10.1002/jgrd.50834
Microwave; H2O

2013, M. Palm
Golchert, S. H. W.; Sinnhuber, M.; Hochschild, G. Notholt, J
Influence of solar radiation on the diurnal and seasonal variability of O3 and H2O in the stratosphere and lower mesosphere, based on continuous observations in the tropics and the high Arctic

in Lübken, F. J. (ed.) Climate and Weather of the Sun-Earth System (CAWSES) Springer, 2013, 125
Microwave; Ozone; H2O; Diurnal

2013, G. Pinardi
M. Van Roozendael, N. Abuhassan, C. Adams, A. Cede, K. Clemer, C. Fayt, U. Friess, M. Gil, J. Herman, C. Hermans, F. Hendrick, H. Irie, A. Merlaud, M. Navarro Comas, E. Peters, A.J.M. Piters, O. Puentedura, A. Richter, A. Schoenhardt, R. Shaiganfar, E. Spinei, K. Strong, H. Takashima, M. Vrekoussis, T. Wagner, F. Wittrock, and S. Yilmaz
MAXDOAS formaldehyde slant column measurements during CINDI: intercomparison and analysis improvement
Atmos. Meas. Tech., 6, 167-185
UVVis; HCHO, Validation

2013, W. Stremme
M. Grutter, C. Rivera, A.R. Garcia, I. Ortega, M. George, C. Clerbaux, P.-F. Coheur, D. Hurtmans, J.W. Hannigan, M.T. Coffey
Top-down estimation of the carbon monoxide emissions from the Mexico Megacity based on FTIR measurements from ground and space
Atmos. Chem. Phys., 13, 1357-1376, 2013. ISSN 1680-731
doi: 10.5194/acp-13-1357-2013
FTIR; Satellite; CO

2013, C. Viatte
K. Strong, C. Paton-Walsh, J. Mendonca, N. T. O'Neill, and J. R. Drummond
Measurements of CO, HCN, and C2H6 total columns in smoke plumes transported from the 2010 Russian boreal forest fires to the Canadian High Arctic
Atmos.-Ocean, 51 (5), 522-531
doi: 10.1080/07055900.2013.823373
FTIR; CO; HCN; C2H6

2013; C. Whaley
K. Strong, C. Adams, A.E. Bourassa, W.H. Daffer, D.A. Degenstein, H. Fast, P.F. Fogal, G.L. Manney, R.L. Mittermeier, B. Pavlovic, and A. Wiacek
Using FTIR measurements of stratospheric composition to identify mid-latitude polar vortex intrusions over Toronto
J. Geophys. Res. Atmos., 118 (2), 12766-12783
FTIR

2013, Wright, C. Y
C. Brogniez, K. P. Ncongwane,V. Sivakumar, G. Coetzee, J.-M. Metzger, F. Auriol, C. Deroo, B. Sauvage
Sunburn Risk Among Children and Outdoor Workers in South Africa and Reunion Island Coastal Sites
Photochem. Photobiol.

DOI: 10.1111/php.12123
Spectral UV; Health