

NDACC Publications – 2013

Updated – 6/23/2021

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. Heikkilä, 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, Cuevas, E.

González, Y., Rodríguez, S., Guerra, J. C., Gómez-Peláez, A. J., Alonso-Pérez, S., Bustos, J., and Milford, C.

Assessment of atmospheric processes driving ozone variations in the subtropical North Atlantic free troposphere

Atmos. Chem. Phys., 13, 1973-1998

doi: 10.5194/acp-13-1973-2013.

Sonde; Ozone

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.

Moshhammer, H., Simic, S., Hölzge, 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; Erythematous 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 from 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. PETERS, 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, Rodriguez-Franco, J. J.

Cuevas, E.

Characteristics of the subtropical tropopause region based on long-term highly-resolved sonde records over Tenerife

J. Geophys. Res. Atmos., 118

doi: 10.1002/jgrd.50839

Sonde; Ozone

2013, Scheiben, D.,

Schanz, A., Tschanz, B., & Kämpfer, N.

Diurnal variations in middle-atmospheric water vapor by ground-based microwave radiometry.

Atmospheric Chemistry and Physics, 13, 6877–6886

doi: 10.5194/acp-13-6877-2013

Microwave; Ozone; diurnal

2013, J. Staufer

J. Staehelin, R. Stübi, T. Peter, F. Tummon, and V. Thouret

Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS – Part 1: Method description and application at Payerne, Switzerland

Atmos. Meas. Tech., 6, 3393–3406, www.atmos-meas-tech.net/6/3393/2013/

Sonde; Ozone

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, Tschanz, B.

Straub, C., Scheiben, D., Walker, K. A., Stiller, G. P., & Kämpfer, N.

Validation of middle-atmospheric campaign-based water vapour measured by the ground-based microwave radiometer MIAWARA-C,

AMT, 6, 1725–1745

doi: 10.5194/amt-6-1725-2013

Microwave; H₂O; Validation

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