

NDACC Publications – 2015

2015, Bais, A. F.

R. L. McKenzie, G. Bernhard, P. J. Aucamp, M. Ilyas, S. Madronich, and K. Tourpali, K.

Ozone depletion and climate change: Impacts on UV radiation

Photochem. Photobiol. Sci., 14, 19-52

doi: 10.1039/c4pp90032d

Spectral UV; UV Irradiance; Ozone

2015, Barthlott, S.

M. Schneider, F. Hase, A. Wiegeler, E. Christner, Y. Gonzalez, T. Blumenstock, S. Dohe, O. E. Garcia, E. Sepulveda, K. Strong, J. Mendonca, D. Weaver, M. Palm, N. M. Deutscher, T. Warneke, J. Notholt, B. Lejeune, E. Mahieu, N. Jones, D. W. T. Griffith, V. A. Velasco, D. Smale, J. Robinson, R. Kivi, P. Heikkinen, and U. Raffalski

Using XCO₂ retrievals for assessing the long-term consistency of NDACC/FTIR data sets

Atmos. Meas. Tech., 8, 1555-1573

doi: 10.5194/amt-8-1555-2015

FTIR; XCO₂

2015, Bernhard, G.

A. Arola, A. Dahlback, V. Fioletov, A. Heikkilä, B. Johnsen, T. Koskela, K. Lakkala, T. Svendby, and J. Tamminen

Comparison of OMI UV observations with ground-based measurements at high northern latitudes,

Atmos. Chem. Phys., 15, 7391-7412, DOI:10.5194/acp-15-7391-2015. Spectral UV; Satellite; UV

Irradiance; Validation

2016, Hall, E. G.

Jordan, A. F., Hurst, D. F., Oltmans, S. J., Vömel, H., Kühnreich, B. and Ebert, V.

Advancements, measurement uncertainties and recent comparisons of the NOAA frost point hygrometer

Atmos. Meas. Tech., 9, 4295–4310

doi: 10.5194/amt-9-4295-2016

Sonde; H₂O; Validation

2015, Dammers, E., et al

Retrieval of ammonia from ground-based FTIR solar spectra

Atmos. Chem. Phys., 15, 12789-12803

doi: 10.5194/acp-15-12789-2015

FTIR; NH₃

2015, L Di Liberto

R Lehmann, I Tritscher, F Fierli, JL Mercer, M Snels
Lagrangian analysis of microphysical and chemical processes in the Antarctic stratosphere: a case study
Atmospheric Chemistry and Physics 15 (12), 6651-6665
doi: 10.5194/acp-15-6651-2015
Lidar; Aerosol

2015, Duflot, V., et al.
Acetylene (C₂H₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model
Atmos. Chem. Phys., 15(18), 10509-10527
doi: 10.5194/acp-15-10509-2015
FTIR; Satellite; C₂H₂, HCN; Validation

2015, A. Gaudel
G. Ancellet, S. Godin-Beekmann, Analysis of 20 years of tropospheric ozone vertical profiles by lidar and ECC at Observatoire de Haute Provence (OHP) at 44°N, 6.7°E
Atmospheric Environment, Volume 113, 2015, Pages 78-89
doi: 10.1016/j.atmosenv.2015.04.028
Lidar; Sonde; Ozone

2015, Kremser, S., et al
Positive trends in Southern Hemisphere carbonyl sulfide
Geophys. Res. Lett., 42, 9473-9480
doi: 10.1002/2015GL065879
FTIR; COS

2015, Mahieu, E., et al
Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes
Nature, 515,104-107
doi: 10.1038/nature13857
FTIR; HCl

2015, Nedoluha, G. E., et al
Unusual stratospheric ozone anomalies observed in 22 years of measurements from Lauder, New Zealand
Atmos. Chem. Phys., 15, 6817-6826
Microwave; Ozone

2015, Scheepmaker, R. A., et al
Validation of SCIAMACHY HDO/H₂O measurements using the TCCON and NDACC-MUSICA networks
Atmos. Meas. Tech., 8(4), 1799-1818
doi: 10.5194/amt-8-1799-2015

FTIR; Satellite; H₂O

2015, Schoeberl, M.

H. Selkirk, A. Douglass, and H Vömel

Sources of Seasonal Variability in Tropical UTLS Water Vapor and Ozone: Inferences from the Ticosonde Dataset at Costa Rica

J. Geophys. Res., 120, 9684–9701

doi:10.1002/2015JD023299

Sonde; H₂O; Ozone

2015, C. Viatte

K. Strong, J. Hannigan, E. Nussbaumer, L. Emmons, S. Conway, C. Paton-Walsh, J. Hartley, J. Benmergui, and J. Lin

Identifying fire plumes in the Arctic with tropospheric FTIR measurements and transport models

Atmos. Chem. Phys., 15, 2227-2246

doi:10.5194/acp-15-2227-2015

FTIR; Model

2015, Vigouroux, C.

T. Blumenstock, M. Coffey, Q. Errera, O. Garcia, N. B. Jones, J. W. Hannigan, F. Hase, B. Liley, E. Mahieu, J. Mellqvist, J. Notholt, M. Palm, G. Persson, M. Schneider, C. Servais, D. Smale, L. Thalix, and M. De Maziere

Trends of ozone total columns and vertical distribution from FTIR observations at eight NDACC stations around the globe

Atmos. Chem. Phys., 15, 2915-2933

doi: 10.5194/acp-15-2915-2015

FTIR; Ozone; Trends

2015, Zeng, G., et al

Multi-model simulation of CO and HCHO in the Southern Hemisphere: comparison with observations and impact of biogenic emissions

Atmos. Chem. Phys., 15, 7217-7245

doi: 10.5194/acp-15-7217-2015

FTIR; Model; CO; HCHO