

NDACC Publications – 2008

2008, Austin, J.

Tourpali, K.; Rozanov, E.; Akiyoshi, H.; Bekki, S.; Bodeker, G.E.; Brühl, C.; Butchart, N.; Chipperfield, M.; Deushi, M.; Fomichev, V.I.; Giorgetta, M.A.; Gray, L.; Kodera, K.; Lott, F.; Manzini, E.; Marsh, D.; Matthes, K.; Nagashima, T.; Shibata, K.; Stolarski, R.S.; Struthers, H.; Tian, W.

Coupled chemistry climate model simulations of the solar cycle in ozone and temperature

Journal of Geophysical Research 113(D11306)

doi:10.1029/2007JD009391

Sonde; Model; Ozone; Temperature; Solar Cycle

2008, Barnes, J. E.

T. Kaplan, H. Vömel, and W. G. Read

NASA/Aura/Microwave Limb Sounder water vapor validation at Mauna Loa Observatory by Raman lidar

J. Geophys. Res., 113, D15S03

doi:10.1029/2007JD008842

Lidar; Satellite; H₂O

2008, Beig G.

J. Scheer, M.G. Mlynczak and P. Keckhut

OVERVIEW OF THE TEMPERATURE RESPONSE IN THE MESOSPHERE AND LOWER THERMOSPHERE TO SOLAR ACTIVITY

Rev. Geophys., 46, RG3002

doi: 10.1029/2007RG000236

Lidar; Temperature

2008, Bernhard, G.

C. R. Booth, and J. C. Ehamjian

Comparison of UV irradiance measurements at Summit, Greenland; Barrow, Alaska; and South Pole, Antarctica

Atmos. Chem. Phys., 8, 4799-4810

Spectral UV; UV Irradiance; Validation

2008, Bernhard, G.

McKenzie, R.L.; Kotkamp, M.; Wood, S.; Booth, C.R.; Ehamjian, J.C.; Johnston, P.; Nichol, S.E.

Comparison of Ultraviolet Spectroradiometers in Antarctica

Journal of Geophysical Research 113(D14310)

doi: 10.1029/2007JD009489.

Spectral UV; UV Irradiance; Validation

2008, Blumthaler, M.

Schallhart, B.; Schwarzmann, M.; McKenzie, R.; Johnston, P.; Kotkamp, M.; Shiona, H.
Spectral UV measurements of global irradiance, solar radiance, and actinic fluxes in New Zealand: inter comparison between instruments and model calculations
Journal of Oceanic and Atmospheric Science and Technology (JOAST) 25(6): 945-958
Spectral UV; Model; UV Irradiance; Validation

2008, Brinksma, E. J.

E.G. Pinardi, H. Volten, R. Braak, A. Richter, A. Schoenhardt, M. van Roozendaal, C. Fayt, C. Hermans, R. J. Dirksen, T. Vlemmix, A. J. C. Berkhout, D. P. J. Swart, H. Oetjen, F. Wittrock, T. Wagner, O. W. Ibrahim, G. de Leeuw, M. Moerman, R. L. Curier, E. A. Celarier, A. Cede, W. H. Knap, J. P. Veefkind, H. J. Eskes, M. Allaart, R. Rothe, A. J. M. Piters, and P. F. Levelt
The 2005 and 2006 DANDELIONS NO₂ and aerosol intercomparison campaigns
J. Geophys. Res., 113, D16S46
doi:10.1029/2007JD008808
Satellite; UVVis; Aerosol; NO₂; Validation

2008, Brogniez, C.

V. Buchard and F. Auriol
Validation of UV-visible aerosol optical thickness retrieved from spectroradiometer measurements
Atmos. Chem. Phys., 8, 4655-4663
Spectral UV; Validation

2008, Buchard, V.

Brogniez, C., Auriol, F., Bonnel, B., Lenoble, J., Tanskanen, A., Bojkov, B., and Veefkind, P.
Comparison of OMI ozone and UV irradiance data with ground-based measurements at two French sites
Atmos. Chem. Phys., 8, 4517-4528
Spectral UV; Satellite; Ozone; UV Irradiance

2008, Celarier, E. A.

E. J. Brinksma, J. F. Gleason, J. P. Veefkind, A. Cede, J. R. Herman, D. Ionov, F. Goutail, J-P. Pommereau, J.-C. Lambert, M. van Roozendaal, G. Pinardi, F. Wittrock, A. Schönhardt, A. Richter, O. W. Ibrahim, T. Wagner, B. Bojkov, G. Mount, E. Spinei, C. M. Chen, T. J. Pongetti, S. P. Sander, E. J. Bucselá, M. O. Wenig, D. P. J. Swart, H. Volten, M. Kroon, and P. F. Levelt
Validation of Ozone Monitoring Instrument nitrogen dioxide columns
J. Geophys. Res., 113, D15S15
doi:10.1029/2007JD008908
UVVis; Satellite; NO₂, Validation

2008, Cheymol, A.

L. Gonzalez Sotelino, K.S. Lam, J. Kim, V. Fioletov, , H. De Backer and A.M. Siani
Intercomparison of Aerosol Optical Depth from Brewer Ozone Spectrophotometer and CIMEL
Sunphotometer measurements

Atmos. Chem. Phys. Discuss., 8, 11997-12022

Brewer; Ozone; Validation

2008, 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

Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)', Atmos. Chem. Phys., 8, 2569-2594

FTIR; Satellite; CO; Validation

2008, Delcloo, Andy

H. De Backer

Five day 3D backward trajectories clusters and trends analysis for the Uccle ozone sounding time series in the troposphere (1969-2001)

Atm Env, 42, 4419-4432

doi:10.1016/j.atmosenv.2008.01.72

Sonde; Ozone; Trends

2008, 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

Atmos. Chem. Phys., Special Issue 'Validation Results for the Atmospheric Chemistry Experiment (ACE)', 8, 2421-2435

FTIR; Satellite; CH₄; Validation

2008, Deshler, T.

J. L. Mercer, H. G.J. Smit, R. Stubi, G. Levrat, B. J. Johnson, S. J. Oltmans, R. Kivi, A. M. Thompson, J.

Witte, J. Davies, F. J. Schmidlin, G. Brothers, and T. Sasaki

Atmospheric comparison of electrochemical cell ozonesondes from different manufacturers, and with different cathode solution strengths: The Balloon Experiment on Standards for Ozonesondes

J. Geophys. Res., 113, D04307

doi: 10.1029/2007JD008975

Sonde; Ozone; Validation

2008, Dupuy et al.

Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE)

Atmos. Chem. Phys. Discuss., 8, 2513-2656

FTIR; Sonde; Satellite; Ozone; Validation

2008, R.D. Evans

Operations handbook - ozone observations with a Dobson spectrophotometer, Revised Version

Global Ozone Research and Monitoring Project, WMO GAW No. 183, 2008

Dobson; Ozone

2008, Ferrari, C. P.

Padova, C., Fain, X., Gauchard, P. A., Dommergue, A., Aspomo, K., Berg, T., Cairns, W., Barbante, C., Cescon, P., Kaleschke L., Richter, A., Wittrock, F., Boutron, C.

Atmospheric mercury depletion event study in Ny-Alesund (Svalbard) in spring 2005. Deposition and transformation of Hg in surface snow during springtime

Science of the Total Environment, 397,167-177

UVVis; Hg

2008, Fioletov, V. E.,

Labow, G., Evans, R., Hare, E. W., Köhler, U., McElroy, C. T., Miyagawa, K., Redondas, A., Savastiouk, V. & Shalamyansky, A. M.

Performance of the ground-based total ozone network assessed using satellite data

Journal of Geophysical Research, 113

Dobson; Sonde; Satellite; Ozone; Validation

2008, Flint, S.D.

Ballaré, C.L.; Caldwell, M.M.; McKenzie, R.

Comment on "Extreme environments in the forests of Ushuaia, Argentina" by Hector D'Antoni et.al.

Geophysical Research Letters 35(L13710)

doi:10.1029/2008GL033570

Spectral UV

2008, Frankenberg, C.

T. Warneke, A. Butz, I. Aben, F. Hase, P. Spietz, and L. R. Brown

Methane spectroscopy in the near infrared and its implication on atmospheric retrievals

ACPD, Vol. 8, 10021-10055

FTIR; CH₄

2008, A. Fraser

P.F. Bernath, R.D. Blatherwick, J.R. Drummond, P.F. Fomal, D. Fu, F. Goutail, T.E. Kerzenmacher, C. T.

McElroy, C. Midwinter, J.R. Olson, K. Strong, K.A. Walker, D. Wunch, and I.J. Young

Intercomparison of Ground-based Ozone and NO₂ Measurements during the MANTRA 2004 Campaign
Atmos. Chem. Phys. (MANTRA Special Issue), 7, 5489-5499, 2007
UVVis; Ozone; NO₂; Validation

2008, Fraser, A.

Goutail, F., Strong, K., Bernath, P. F., Boone, C., Daffer, W. H., Drummond, J. R., Dufour, D. G., Kerzenmacher, T. E., Manney, G. L., McElroy, C. T., Midwinter, C., McLinden, C. A., Nichitiu, F., Nowlan, C. R., Walker, J., Walker, K. A., Wu, H., and Zou, J.

Intercomparison of UV-visible measurements of ozone and NO₂ during the Canadian Arctic ACE validation campaigns: 2004–2006

Atmos. Chem. Phys., 8, 1763-1788

UVVis; Satellite; Ozone; NO₂; Validation

2008, Fromm, M.

O. Torres, D. Diner, D. Lindsey, B. Vant Hull, R. Servranckx, E. P. Shettle, and Z. Li

Stratospheric impact of the Chisholm pyrocumulonimbus eruption: 1. Earth-viewing satellite perspective
J. Geophys. Res., 113, D08202

doi: 10.1029/2007JD009153

Lidar; Satellite; Aerosol

2008, Fromm, M.

E. Shettle, K. H. Fricke, C. Ritter, T. Trickl, H. Giehl, M. Gerding, J. Barnes, M. O'Neill, S. Massie, U. Blum, I. S. McDermid, T. Leblanc and T. Deshler

The Stratospheric Impact of the Chisholm PyroCummulus Eruption: Part II, Vertical Profile Perspective
J. Geophysical Research, 113, D08203

doi: 10.1029/2007JD009147

Lidar; Aerosol

2008, B. M. Funatsu

C. Claud, P. Keckhut, A. Hauchecorne

Cross-Validation Of AMSU And Lidar For Long-Term Upper-Stratospheric Temperature Monitoring
J. Geophys. Research, J. Geophys. Res., 113, D23108

doi: 10.1029/2008JD010743

Lidar; Temperature

2008, Gil, M.

Yela, M., Gunn, L. N., Richter, A., Alonso, I., Chipperfield, M. P., Cuevas, E., Iglesias, J., Navarro, M., Puertedura, O., and Rodríguez, S.

NO₂ climatology in the northern subtropical region: diurnal, seasonal and interannual variability
Atmos. Chem. Phys., 8, 1635-1648

UVVis; Satellite; NO₂; Diurnal; Climatology

2008, M. Grutter

R. Basaldud, C. Rivera, R. Harig, W. Junkerman, E. Caetano and H. Delgado-Granados

SO₂ emissions from Popocatepetl volcano: emission rates and plume imaging using optical remote sensing techniques

Atmos. Chem. Phys. 8, 6655-6663

FTIR; SO₂

2008, Gruzdev A.N

Latitudinal dependence of variations in stratospheric NO₂ content

Izvestiya, Atmospheric and Oceanic Physics, Vol. 44, No 3, pp. 319-333.

UVVis; NO₂

2008, Haeferle, A.

K. Hocke, N. Kämpfer, P. Keckhut, M. Marchand, S. Bekki, B. Morel, T. Egorova, and E. Rozanov, Diurnal changes in middle atmospheric H₂O and O₃: Observations in the Alpine region and climate models

J. Geophys. Res., 113, D17303

doi: 10.1029/2008JD009892

Microwave; Model; Ozone; H₂O; Diurnal

2008, 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

Annales Geophysicae, 26, 5, 1207-1220

Lidar; Sonde; Ozone; Trends

2008, Hassinen, S.

J. Tamminen, A. Tanskanen, G. Leppelmeier, A. Mälkki, T. Koskela, J. M. Karhu, K. Lakkala, P. Veefkind, N. Krotkov, and O. Aulamo

Description and validation of the OMI very fast delivery products

J. Geophys. Res., 113, D16S35

doi:10.1029/2007JD008784

Satellite; Dobson; Ozone; Validation

2008, Hendrick, F.

P.V. Johnston, K. Kreher, C. Hermans, M. De Mazière, and M. Van Roozendaal

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

UVVis; BrO; Trends

2008, K. Hocke

N. Kämpfer, Gap filling and noise reduction of unevenly sampled data by means of the Lomb-Scargle periodogram

Atmos. Chem. Phys. Discuss., 8, 4603-4623

Microwave; Algorithm

2008, Ionov D. V.

Y. M. Timofeyev, V. P. Sinyakov, V. K. Semenov, F. Goutail, J.-P. Pommereau, E. J. Bucsela, E. A. Celarier, and M. Kroon

Ground-based validation of EOS-Aura OMI NO₂ vertical column data in the midlatitude mountain ranges of Tien Shan (Kyrgyzstan) and Alps (France)

J. Geophys. Res., 113, D15S08

doi: 10.1029/2007JD008659

UVVis; Satellite; NO₂

2008, Jégou, F., et al.

Technical Note: Validation of Odin/SMR limb observations of ozone, comparisons with OSIRIS, POAM III, ground-based and balloon-borne instruments

Atmos. Chem. Phys. Discuss., 8, 727-7798

Lidar; UVVis; Satellite; Ozone; Validation

2008, Johnson, B.J.

Helmig, H., and S. Oltmans

Evaluation of ozone measurements from a tethered balloon-sampling platform at South Pole Station in December 2003

Atmospheric Environment, 42, 2780-2787

doi:10.1016/j.atmosenv.2007.03.043

Sonde; Ozone

2008, Jumelet J.

S. Bekki, C. David, and P. Keckhut

Statistical estimation of stratospheric particle size distribution by combining optical modelling and lidar scattering measurements

Atmos. Chem. Phys., 8, 1-14

Lidar; Aerosol

2008, Kerzenmacher, T.

Wolff, M. A., Strong, K., et al.

Validation of NO₂ and NO from the Atmospheric Chemistry Experiment (ACE)

Atmos. Chem. Phys. Discuss., 8(1), 3027-3142, 2008.

FTIR; Satellite; NO₂; NO; Validation

2008, Kiemle, C.

Wirth, M., Fix, A., Ehret, G., Schumann, U., Gardiner, T., Schiller, C., Sitnikov, N., and Stiller, G.
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., 8, 5245-5261

Lidar; Satellite; H₂O; Validation

2008, Kramer, L. J.

R. J. Leigh, J. J. Remedios, and P. S. Monks

Comparison of OMI and ground-based in situ and MAX-DOAS measurements of tropospheric nitrogen
dioxide in an urban area

J. Geophys. Res., 113, D16S39

doi: 10.1029/2007JD009168

UVVis; Satellite; NO₂; Validation

2008, Leblanc, T.

I. Stuart McDermid, and Robin A. Aspey

First-Year Operation of a New Water Vapor Raman Lidar at the JPL Table Mountain Facility, California
Journal of Atmospheric and Oceanic Technology, Vol. 25, Iss. 8, pp. 1454–1462

Lidar; H₂O

2008, Li, T.

T. Leblanc, and I. S. McDermid

Interannual Variations of Middle Atmospheric Temperature as Measured by the JPL Lidar at Mauna Loa
Observatory, Hawaii (19.5°N, 155.6°W)

J. Geophysical Research, 113, D14109

doi: 10.1029/2007JD009764

Lidar; Temperature

2008, Mahieu, E.; et al

Validation of ACE-FTS v2.2 measurements of HCl, HF, CCl₃F and CCl₂F₂ using space-, balloon- and
ground-based instrument observations

Atmospheric Chemistry and Physics Discussions 8: 3431-3495

FTIR; Satellite; HCl; HF; CCl₃F; CCl₂F₂; Validation

2008, McKenzie, R.L.

Liley, J.B.; Björn, L.O.

UV Radiation: Balancing Risks and Benefits. Photochemistry and Photobiology:

DOI: 10.1111/j.1751-1097.2008.00400.x.

2008, McPeters R.

M. Kroon, G. Labow, E. Brinksma, D. Balis, I. Petropavlovskikh, J. P. Veefkind, P. K. Bhartia, and P. F. Levelt

Validation of the Aura Ozone Monitoring Instrument total column ozone product

J. Geophys. Res., 113, D15S14

doi: 10.1029/2007JD008802

Dobson; Satellite; Ozone; Validation

2008, Müller, R.

Grooß, J.-U.; Lemmen, C.; Heinze, D.; Dameris, M.; Bodeker, G.E.

Simple measures of ozone depletion in the polar stratosphere

Atmospheric Chemistry and Physics 8: 251-264

Dobson; Ozone

2008, Nardi, B.

J. C. Gille, J. J. Barnett, C. E. Randall, V. L. Harvey, A. Waterfall, W. J. Reburn, T. Leblanc, T. McGee, L.

Twigg, A. M. Thompson, S. Godin-Beekmann, P. Bernath, B. Bojkov, C. D. Boone, C. Cavanaugh, M.

T.Coffey, J. Craft, C. Craig, V. Dean, T. D. Eden, G. Francis, L. Froidevaux, C. Halvorson, J. W. Hannigan, C.

L. Hepplewhite, D. E. Kinnison, R. Khosravi, C. Krinsky, A. Lambert, H. Lee, J. Loh, S. T. Massie, I. S.

McDermid, D. Packman, B. Torpy, J. Valverde-Canossa, K. A. Walker, D. N. Whiteman, J. C. Witte and G.

Young

Initial Validation of Ozone Measurements from the High Resolution Dynamics Limb Sounder (HIRDLS)

J. Geophysical Research, 113, D16S36

doi: 10.1029/2007JD008837

Lidar; Satellite; Ozone; Validation

2008, Nassar, R.

J. A. Logan, H. M. Worden, I. A. Megretskaya, K. W. Bowman, G. B. Osterman, A. M. Thompson, D. W.

Tarasick, S. Austin, H. Claude, M. K. Dubey, W. K. Hocking, B. J. Johnson, E. Joseph, J. Merrill, G. A.

Morris, M. Newchurch, S. J. Oltmans, F. Posny, F. J. Schmidlin, H. Vömel, D. N. Whiteman, and J. C. Witte

Validation of Tropospheric Emission Spectrometer (TES) nadir ozone profiles using ozonesonde measurements

J. Geophys. Res., 113, D15S17

doi: 10.1029/2007JD008819

Sonde; Satellite; Ozone; Validation

2008, Neuber, R.

Determination of atmospheric ozone profiles at 68N and 79N with a daylight LIDAR instrument

in Optoelectronics for Environmental Science, S. Martellucci and A.N. Chester, eds, Plenum Press, New York

Lidar; Ozone

2008, N.T. O'Neill

O. Pancrati, K. Baibakov, E. Eloranta, R.L. Batchelor, J. Freemantle, L.J.B. McArthur, K. Strong, and R. Lindenmaier
Occurrence of weak, sub-micron, tropospheric aerosol events at high Arctic latitudes
Geophys. Res. Lett., 35, L14814
doi:10.1029/2008GL033733
FTIR; Aerosol

2008, Petersen, A. K.
Warneke, T.; Lawrence, M. G.; Notholt, J. & Schrems, O.
First ground-based FTIR observations of the seasonal variation of carbon monoxide in the tropics
Geophys. Res. Lett. 35(3), L03813
FTIR; CO

2008, A.V. Polyakov
C.E. Randall, V.L. Harvey, and K. Hocke
New improved algorithm for interpreting the SAGE III occultation measurements
Earth research from Space, 1, 31-36
Microwave, Satellite; Algorithm

2008, A. Papayannis
V. Amiridis, L. Mona, G. Tsaknakis, D. Balis, J. Bösenberg, A. Chaikovsky, F. De Tomasi, I. Grigorov, I. Mattis, V. Mitev, D. Müller, S. Nickovic, C. Pérez, A. Pietruczuk, G. L. Pisani, F. Ravetta, V. Rizi, M. Sicard, T. Trickl, M. Wiegner, M. Gerding, R. E. Mamouri, G. D'Amico, G. Pappalardo
Systematic lidar observations of Saharan dust over Europe in the frame of EARLINET (2000-2002)
J. Geophys. Res. 113 (2008), D10204
doi: 10.1029/2007JD009028
Lidar; Aerosol

2008, Paton-Walsh, C.
Stephen R. Wilson, Jones, N. B., et al.
Measurement of Methanol Emissions from Australian Wildfires by Ground-based Solar Fourier Transform Spectrometry
Geophys. Res. Lett., 35, L08810
doi:10.1029/2007GL032951
FTIR; CH₃OH

2008, Redondas, A.
Torres, C., Meinander, O., Lakkala, K., García, R., Cuevas, E., Ochoa, H., Deferrari, G. & Díaz, S.
Antarctic network of lamp-calibrated multichannel radiometers for continuous ozone and uv radiation data
Atmos. Chem. Phys. Discuss, 8, 3383-3404
Dobson; Sonde; Ozone

2008, Santee, M.L., et al
Validation of the Aura Microwave Limb Sounder ClO Measurement
J. Geophys. Res., 113, D15S22
doi:10.1029/2007JD008762
Microwave; Satellite; ClO; Validation

2008, Scherer, M.
Vömel, H., Fueglistaler, S., Oltmans, S. J., and Staehelin, J.
Trends and variability of midlatitude stratospheric water vapour deduced from the reevaluated Boulder
balloon series and HALOE
Atmos. Chem. Phys., 8, 1391–1402
doi: 10.5194/acp-8-1391-2008
Sonde; H₂O; Trends

2008, Schneider, M.
Hase, F., Blumenstock, T., Redondas, A. & Cuevas, E.
Quality assessment of O₃ profiles measured by a state-of-the-art ground-based FTIR observing system
Atmos. Chem. Phys. Discuss, 8, 4977-5006
FTIR; Sonde; Ozone

2008, Schneider, M.
Redondas, A., Hase, F., Guirado, C., Blumenstock, T. & Cuevas, E.
Comparison of ground-based Brewer and FTIR total O₃ monitoring techniques.
Atmos. Chem. Phys. Discuss, 8, 285-325.
Brewer; FTIR; Sonde; Ozone

2008, Schneider, M.
F. Hase
Technical Note: Recipe for monitoring of total ozone with a precision of around 1 DU applying mid-
infrared solar absorption spectra
ACP, Vol. 8, 63-71
FTIR; Ozone

2008, Schönhardt, A.
Richter, A., Wittrock, F., Kirk, H., Oetjen, H., Roscoe, H. K. and Burrows, J. P.
Observations of iodine monoxide (IO) columns from satellite
Atmos. Chem. Phys., 8, 637-653
UVVis; Satellite; IO

2008, G. Seckmeyer

D. Pissulla, M. Glandorf, D. Henriques, B. Johnsen, A. Webb, A.M. Siani, A. Bais, B. Kjeldstad, C. Brogniez, J. Lenoble, B. Gardiner, P. Kirsch, T. Koskela, J. Kaurola, B. Uhlmann, H. Slaper, P. den Outer, M. Janouch, P. Werle, J. Groebner, B. Mayer, A. de la Casiniere, S. Simic, F. Carvalho

Variability of UV Irradiance in Europe

Photochemistry and Photobiology 84, 172-179

Spectral UV; UV Irradiance

2008, 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

FTIR; Satellite; Validation

2008, Shephard, M. W.

R. L. Herman, B. M. Fisher, K. E. Cady-Pereira, S. A. Clough, V. H. Payne, D. N. Whiteman, J. P. Comer, H. Vömel, L. M. Miloshevich, R. Forno, M. Adam, G. B. Osterman, A. Eldering, J. R. Worden, L. R. Brown, H. M. Worden, S. S. Kulawik, D. M. Rider, A. Goldman, R. Beer, K. W. Bowman, C. D. Rodgers, M. Luo, C. P. Rinsland, M. Lampel, and M. R. Gunson

Comparison of Tropospheric Emission Spectrometer nadir water vapor retrievals with in situ measurements

J. Geophys. Res., 113, D15S24

doi: 10.1029/2007JD008822

Lidar; Sonde; Satellite; H₂O; Validation

2008, R. J. Sica

M. R. M. Izawa, K. A. Walker, C. Boone, S. V. Petelina, P. S. Argall, P. Bernath, G. B. Burns, V. Catoire, R. L. Collins, W. H. Daffer, C. De Clercq, Z. Y. Fan, B. J. Firanski, W. J. R. French, P. Gerard, M. Gerding, J. Granville, J. L. Innis, P. Keckhut, T. Kerzenmacher, A. R. Klekociuk, J. C. Lambert, E. J. Llewellyn, G. L. Manney, I. S. McDermid, K. Mizutani, Y. Murayama, C. Piccolo, C. Robert, W. Steinbrecht, K. B. Strawbridge, K. Strong, R. Stübi and B. Thuairajah

Validation of the Atmospheric Chemistry Experiment (ACE) Version 2.2 Temperature Using Ground-based and Space-borne Measurements

Atmospheric Chemistry and Physics, 8, 35-62

Lidar; Satellite; Temperature; Validation

2008, Simic, S

Weih, P; Vacek, A; Kromp-Kolb, H; Fitzka, M

Spectral UV measurements in Austria from 1994 to 2006: investigations of short- and long-term changes

Atmos Chem Phys, 2008; 8(23): 7033-7043

Spectral UV; UV Irradiance

2008, Solberg, Sverre

Ø. Hov, A. Søvde, I. Isaksen, P. Coddeville, H. De Backer, C. Forster, Y. Orsolini and K. Uhse

European surface ozone in the extreme summer 2003

J. Geophys. Res., 113 D07307

doi:10.1029/2007JD009098

Sonde; Ozone

2008, Stajner, I., et al.

Assimilated ozone from EOS-Aura: Evaluation of the tropopause region and tropospheric columns

J. Geophys. Res., 113, D16S32

doi: 10.1029/2007JD008863

Sonde; Satellite; Ozone

2008, Strong, K., et al.

Validation of ACE-FTS N₂O measurements

Atmos. Chem. Phys., Special Issue 'Validation results for the Atmospheric Chemistry Experiment (ACE)',
8, 4759-4786

DOI: 10.5194/acp-8-4759-2008

FTIR; Satellite; N₂O; Validation

2008, Stübi, R.

G. Levrat, B. Hoegger, P. Viatte, J. Staehelin, and F. J. Schmidlin

In-flight comparison of Brewer-Mast and electrochemical concentration cell ozonesondes

J. Geophys. Res., 113, D13302

doi: 10.1029/2007JD009091

Sonde; Ozone

2008, S. Swadley

G. Poe, W. Bell, Y. Hong, D. Kunkee, I. S. McDermid, and T. Leblanc

Analysis and Characterization of the SSMIS Upper Atmosphere Sounding Channel Measurements

IEEE Transactions on Geoscience and Remote Sensing, 46, , 962-983

doi:10.1109/TGRS.2008.916980

Lidar; Satellite

2008, J.R. Taylor

K. Strong, C.A. McLinden, D.A. Degenstein, and C.S. Haley

Comparison of OSIRIS Stratospheric O₃ and NO₂ Measurements with Ground-based Fourier Transform

Spectrometer Measurements at the Toronto Atmospheric Observatory

Can. J. Phys. (Odin Special Issue), 85, 1301-1316

FTIR; Satellite; Ozone; NO₂; Validation

2008, J.R. Taylor

D. Wunch, C. Midwinter, A. Wiacek, J.R. Drummond, and K. Strong

An Extended Intercomparison of Simultaneous Ground-Based Fourier Transform Spectrometer Measurements at the Toronto Atmospheric Observatory

J. Quant. Spectrosc. Radiat. Transfer, 109 (12-13), 2244-2260

FTIR; Validation

2008, UNEP

Environmental effects of ozone depletion and its interactions with climate change: Progress report, 2007

Photochemical & Photobiological Sciences 7: 15-27

doi: 10.1039/b717166h

Spectral UV; UV Irradiance; Ozone

2008, Vigouroux et al.

Evaluation of tropospheric and stratospheric ozone trends over Western Europe from ground-based FTIR network observations

Atmos. Chem. Phys. Discuss., 8, 5007-5060

FTIR; Ozone; Trends

2008, Voemel H.

J. Barnes, et al.

Validation of Aura/MLS Water Vapor by Balloon Borne Cryogenic Frostpoint Hygrometer Measurements

J. Geophys. Res., 112, D24S37

doi:10.1029/2007JD008698

Lidar; Satellite; Sonde; H₂O

2008, H. Vogelmann

T. Trickl

Wide-range sounding of free-tropospheric water vapor with a differential-absorption lidar (DIAL) at a high-altitude station

Appl. Opt., 47, 2116-2132

Lidar; H₂O

2008, Wenig M. O.

A. M. Cede, E. J. Bucsela, E. A. Celarier, K. F. Boersma, J. P. Veefkind, E. J. Brinksma, J. F. Gleason, J. R. Herman

Validation of OMI tropospheric NO₂ column densities using direct-Sun mode Brewer measurements at NASA Goddard Space Flight Center

J. Geophys. Res., 113, D16S45

doi: 10.1029/2007JD008988

Brewer; Satellite; NO₂; Validation

2008, Wolff, M.A.; et al
Validation of HNO₃, ClONO₂, and N₂O₅ from the Atmospheric Chemistry Experiment Fourier Transform Spectrometer (ACE-FTS)
Atmospheric Chemistry and Physics Discussions 8: 2429-2512
FTIR; Satellite; HNO₃; ClONO₂; N₂O; Validation

2008, M. Wolff, et al
Validation of HNO₃, ClONO₂, and N₂O₅ 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
FTIR; Satellite; HNO₃; ClONO₂; N₂O₅; Validation

2008, A. Wiacek and K. Strong
Effects of Vertical Grid Discretization in Infrared Transmission Modeling
J. Quant. Spectrosc. Radiat. Transfer, 109, 2463-2490
FTIR

2008, Yurganov, L.
McMillan, W. W., Dzhola, A., et al.: Global MOPITT and AIRS CO measurements: validation, comparison, and links to biomass burning variations and global carbon cycle.
J. Geophys. Res., 113, D09301
doi:10.1029/2007JD009229
FTIR; Satellite; CO; Validation

2008, Zander, R.
Mahieu, E., Demoulin, P., Duchatelet, P., Roland, G., Servais, C., De Maizière, M., Reimann, S. and Rinsland, C. P.
Our changing atmosphere: Evidence based on long-term infrared solar observations at the Jungfraujoch since 1950
Science of the Total Environment, 391(2-3), 184–195
doi: 10.1016/j.scitotenv.2007.10.018
FTIR