

NDACC Publications – 2007

2007, Badosa, J.

J. Calbo, J.A. Gonzalez, R.L. McKenzie, M. Kotkamp, P.V. Johnston, and M. O'Neill
Towards closure between measured and modelled UV: Three case studies
in One century of UV radiation research, edited by J. Grobner, pp. 101-102, PMOD/WRC
Spectral UV; Model; UV Irradiance

2007; Badosa, J.

R.L. McKenzie, M. Kotkamp, J. Calbó, J.A. González, P.V. Johnston, M. O'Neill, and D.J. Anderson
Towards closure between measured and modelled UV under clear skies at four diverse sites
Atmospheric Chemistry and Physics, 7, 2817-2837
Spectral UV; Model; UV Irradiance

2007, Bais A.F.

Lubin D., Arola A., Bernhard G., Blumthaler M., Chubarova N., Erlick C., Gies H.P., Krotkov N., Lantz K.,
Mayer B., McKenzie R.L., Piacentini R.D., Seckmeyer G., Slusser J.R., Zerefos C.S.
Surface Ultraviolet Radiation: Past, Present, and Future
Chapter 7, 2006 WMO/UNEP ozone assessment, WMO
Spectral UV; UV Irradiance

2007, Balis D.

M. Kroon, M. E. Koukouli, E. J. Brinksma, G. Labow, J. P. Veefkind, R. D. McPeters
Validation of Ozone Monitoring Instrument total ozone column measurements using Brewer and
Dobson spectrophotometer ground-based observations
J. Geophys. Res., 112, D24S46
doi:10.1029/2007JD008796
Brewer; Dobson; Satellite; Ozone; Validation

2007, Balis, D.

J-C. Lambert, M. Van Roozendaal, D. Loyola, R. Spurr, Y. Livschitz, P. Valks, V. Amiridis, P. Gerard, and J.
Granville
Ten years of GOME/ERS-2 total ozone data The new GOME Data Processor (GDP) Version 4: II Ground-
based validation and comparisons with TOMS V7/V8
Journal of Geophysical Research Atmosphere, Vol. 112, D07307
doi:10.1029/2005JD006376
Satellite; Ozone; Validation

2007, Barnes, John E.

N. C. Parikh Sharma and Trevor B. Kaplan
Atmospheric aerosol profiling with a bistatic imaging lidar system

Applied Optics, 46, 2922-2929

Lidar; Aerosol

2007, Bencherif H.

L. El Amraoui, N.Semane, S. Massart, D.V. Charyulu, A. Hauchecorne and V.-H. Peuch

Examination of the 2002 major warming in the southern hemisphere using ground-based and Odin/SMR assimilated data: stratospheric ozone distributions and tropic/mid-latitude exchange

Can. J. Phys., 85, 1287-1300

Lidar; Satellite; Ozone

2007, Bernhard, G.

C. R. Booth, J. C. Ehamjian, R. Stone, and E. G. Dutton

Ultraviolet and visible radiation at Barrow, Alaska: climatology and influencing factors on the basis of version 2 National Science Foundation network data

J. Geophys. Res., 112, D09101

doi:10.1029/2006JD007865

Spectral UV; UV Irradiance; Climatology

2007, Bodeker, G.E.

Garny, H.; Smale, D.; Dameris, M.; Deckert, R.

The 1985 southern hemisphere mid-latitude total column ozone anomaly

Atmospheric Chemistry and Physics 7: 5625-5637

Dobson; Ozone

2007, Bodeker, G.E.

Waugh, D.W.; Akiyoshi, H.; Braesicke, P.; Eyring, V.; Fahey, D.W.; Manzini, E.; Newchurch, M.J.; Portmann, R.W.; Robock, A.; Shine, K.P.; Steinbrecht, W.; Weatherhead, E.C. (2007)

The Ozone Layer in the 21st Century, Chapter 6 In: Scientific Assessment of Ozone Depletion

Global Ozone Research and Monitoring Project-Report No. 50, 572 pp., World Meteorological

Organization, Geneva, Switzerland.

Sonde; Ozone

2007, Borchi, F.

Pommereau, J.-P.

Evaluation of ozonesondes, HALOE, SAGE II and III, Odin- OSIRIS and -SMR, and ENVISAT-GOMOS, -

SCIAMACHY and -MIPAS ozone profiles in the tropics from SAOZ long duration balloon measurements in 2003 and 2004

Atmos. Chem. Phys., 7, 2671-2690

UVVis; Satellite; Ozone; Validation

2007, Boyd, I. S.

A. D. Parrish, L. Froidevaux, T. von Clarmann, E. Kyrölä, J. M. Russell III, and J. M. Zawodny

Ground-based microwave ozone radiometer measurements compared with Aura-MLS v2.2 and other instruments at two Network for Detection of Atmospheric Composition Change sites

J. Geophys. Res., 112, D24S33

doi: 10.1029/2007JD008720

Microwave; Satellite; Ozone; Validation

2007, Brinksma, E.J.

Pinardi, G., Braak, R., Volten, H., Richter, A., Schönhardt, A., van Roozendaal, M., Fayt, C., Hermans, C., Dirksen, R.J., Vlemmix, T., Berkhout, A.J.C., Swart, D.P.J., Oetjen, H., Wittrock, F., Wagner, T., Ibrahim, O.W., de Leeuw, G., Moerman, M., Curier, R.L., Celarier, E.A., Knap, W.H., Veefkind, J.P., Eskes, H.J., Allaart, M., Rothe, R., PETERS, A.J.M., and Levelt, P.F.

The 2005 and 2006 DANDELIONS NO₂ and Aerosol Validation Campaigns

Journal of Geophysical Research, 113, D16S46

doi: 10.1029/2007JD008808

Lidar; Aerosol, NO₂, Validation

2007, M. Buchwitz

O. Schneising, J. P. Burrows, H. Bovensmann, M. Reuter, and J. Notholt

First direct observation of the atmospheric CO₂ year-to-year increase from space

Atmos. Chem. Phys., 7, 4249-4256

FTIR; CO₂

2007; M. Buchwitz

O. Schneising, J. P. Burrows, H. Bovensmann, M. Reuter, and J. Notholt

Corrigendum to "First direct observation of the atmospheric CO₂ year-to-year increase from space", published in Atmos. Chem. Phys., 7, 4249–4256, 2007

Atmos. Chem. Phys., 7, 5341-5342

FTIR; CO₂

2007, Celarier, E. A.

Brinksma, E. J., Gleason, J. F., Veefkind, J. P., Cede, A., Herman, J. R., Ionov, D., Goutail, F., Pommereau, J. P., Lambert, J.-C., Van Roosendaal, M., Pinardi, G., Wittrock, F., Schönhardt, A., Richter, A., Ibrahim, O. W., Wagner, T., Bojkov, B., Mount, G., Spinei, E., Chen, C. M., Pongetti, T. J., Sander, S. P., Bucsela, E. J., Wenig, M. O., Swart, D. P. J., Volten, H., Kroon, M. & Levelt, P. F.

Validation of Ozone Monitoring Instrument Nitrogen Dioxide Columns

Journal of Geophysical Research, 113, D15S15

doi: 10.1029/2007JD008908

Lidar; UVVis; Satellite; NO₂

2007, Clerbaux, C.

George, M., Turquety, S., Walker, K. A., Barret, B., Bernath, P., Boone, C., Borsdorff, T., Cammas, J. P., Catoire, V., Coffey, M., Coheur, P.-F., Deeter, M., De Mazière, M., Drummond, J., Duchatelet, P., Dupuy,

E., de Zafra, R., Eddounia, F., Edwards, D. P., Emmons, L., Funke, B., Gille, J., Griffith, D. W. T., Hannigan, J., Hase, F., Höpfner, M., Jones, N., Kagawa, A., Kasai, Y., Kramer, I., Le Flochmoën, E., Livesey, N. J., López-Puertas, M., Luo, M., Mahieu, E., Murtagh, D., Nédélec, Ph., Pazmino, A., Pumphrey, H., Ricaud, P., Rinsland, C. P., Robert, C., Schneider, M., Senten, C., Stiller, G., Strandberg, A., Strong, K., Sussmann, R., Thouret, V., Urban, J., and Wiacek, A.

CO measurements from the ACE-FTS satellite instrument: data analysis and validation using ground-based, airborne and spaceborne observations

Atmos. Chem. Phys. Discuss., 7, 15277-15340

FTIR; Microwave; Satellite; CO; Validation

2007, Connor, B.J.

T. Mooney, J. Barrett, P. Solomon, A. Parrish, and M. Santee

Comparison of ClO measurements from the Aura Microwave Limb Sounder to ground-based microwave measurements at Scott Base, Antarctica, in spring 2005

J. Geophys. Res., 112, D24S42

doi:10.1029/2007JD008792

Microwave; Satellite; ClO; Validation

2007, O.R. Cooper, et al.

Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer, Journal Of Geophysical Research, Vol. 112, D23304

doi:10.1029/2007JD008710

Sonde; Ozone

2007, Cordero R.R.

Seckmeyer G., Labbe F.

Evaluating the uncertainties of data rendered by computational models

Metrologia, 44, L23-L30

Spectral UV; Model; UV Irradiance, Validation

2007, Cordero R.R.

Seckmeyer G., Pissulla D., DaSilva L.

Uncertainty evaluation of the spectral UV irradiance evaluated by using the UVSPEC Radiative Transfer Model

Optic Communications, 276, 44-53

doi: 10.1016/j.optcom.2007.04.008

Spectral UV; Model; UV Irradiance; Validation

2007, Cortesi, U.

J. C. Lambert, C. De Clercq, G. Bianchini, T. Blumenstock, A. Bracher, E. Castelli, V. Catoire, K. V. Chance, M. De Mazière, P. Demoulin, S. Godin-Beekmann, N. Jones, K. Jucks, C. Keim, T. Kerzenmacher, H.

Kuellmann, J. Kuttippurath, M. Iarlori, G. Y. Liu, Y. Liu, I. S. McDermid, Y. J. Meijer, F. Mencaraglia, S.

Mikuteit, H. Oelhaf, C. Piccolo, M. Pirre, P. Raspollini, F. Ravegnani, W. J. Reburn, G. Redaelli, J. J. Remedios, H. Sembhi, D. Smale, T. Steck, A. Taddei, C. Varotsos, C. Vigouroux, A. Waterfall, G. Wetzel, and S. Wood

Geophysical validation of MIPAS-ENVISAT operational ozone data

ACP, Vol. 7, pp. 4807-4867

FTIR; Lidar; Sonde; Satellite; Ozone; Validation

2007, De Maziere, M., et al

Validation of ACE-FTS v2.2 methane profiles from the upper troposphere to lower mesosphere

Atmospheric Chemistry and Physics 8: 2421-2435

FTIR; Satellite; CH4

2007, Deutscher, N.M.

N.B. Jones, D.W.T. Griffith, S.W. Wood, and F.J. Murcray

Total and partial column variation of carbonyl sulfide (OCS) by ground-based solar FTIR spectrometry

Atmos. Chem. and Physics Discussions, 6, 1619-1636

FTIR; OCS

2007; Duncan, B. N.

Logan, J. A., Bey, I., et al.

The global budget of CO, 1988-1997: source estimates and validation with a global model

J. Geophys. Res., 112(D22301)

doi:10.1029/2007JD008459

FTIR; Model; CO; Validation

2007, Espy, P. J.

J. Stegman, P. Forkman, and D. Murtagh

Seasonal variation in the correlation of airglow temperature and emission rate

Geophys. Res. Lett., 34, L17802

doi: 10.1029/2007GL031034

Microwave

2007, Eyring, V.

D.W. Waugh, G.E. Bodeker, E. Cordero, H. Akiyoshi, J. Austin, S.R. Beagley, B.A. Boville, P. Braesicke, C.

Brühl, N. Butchart, M.P. Chipperfield, M. Dameris, R. Deckert, M. Deushi, S.M. Frith, R.R. Garcia, A.

Gottelman, M.A. Giorgetta, D.E. Kinnison, E. Mancini, E. Manzini, D.R. Marsh, S. Matthes, T. Nagashima,

P.A. Newman, J.E. Nielsen, S. Pawson, G. Pitari, D.A. Plummer, E. Rozanov, M. Schraner, J.F. Scinocca, K.

Semeniuk, T.G. Shepherd, K. Shibata, B. Steil, R.S. Stolarski, W. Tian, and M. Yoshiki

Multimodel projections of stratospheric ozone recovery in the 21st century

Journal of Geophysical Research, 112, D16303

doi:10.1029/2006JD008332

Dobson; Model; Ozone

2007, Farahani, E.E.

H. Fast, R.L. Mittermeier, Y. Makino, K. Strong, C. McLandress, T.G. Shepherd, M.P. Chipperfield, J.W. Hannigan, M.T. Coffey, S. Mikuteit, F. Hase, T. Blumenstock, and U. Raffalski

Nitric acid measurements at Eureka obtained in winter 2001-2002 using solar and lunar Fourier transform infrared absorption spectroscopy: Comparisons with observations at Thule and Kiruna and with results from three-dimensional models

J. Geophys. Res., 112, D01305

doi:10.1029/2006JD007096

FTIR; Model; HNO₃

2007, Feng, W.

Chipperfield, M. P., Davies, S., von der Gathen, P., Kyrö, E., Volk, C. M., Ulanovsky, A., Belyaev, G.

Large chemical ozone loss in 2004/2005 Arctic winter/spring

Geophys. Res. Lett., 34, L09803

doi: 10.1029/2006GL029098

Sonde; Ozone

2007, Forster, P.M.

Bodeker, G.E.; Schofield, R.; Solomon, S.; Thompson, D.W.J.

Effects of ozone cooling in the tropical lower stratosphere and upper troposphere

Geophysical Research Letters 34(L23813)

doi: 10.1029/2007GL031994

Dobson; Ozone

2007, J.P.F. Fortuin

C.R. Becker, M. Fujiwara, F. Immler, H.M. Kelder, M.P. Scheele, O. Schrems, and G.H.L. Verver

Origin and Transport of tropical cirrus clouds observed over Paramaribo, Suriname (5.8°N, 55.2°W)

J. Geophys. Res. Vol. 112, D09107

doi: 10.1029/2005JD006420

Lidar; Clouds

2007, Fraser, A.

F. Goutail, C. A. McLinden, S. M. L. Melo, and K. Strong

Lightning-produced NO₂ observed by two ground-based UV-visible spectrometers at Vanscoy, Saskatchewan in August 2004

Atmos. Chem. Phys., 7, 1683-1692

UVVis; NO₂

2007, Fraser, A.

P. F. Bernath,, R. D. Blatherwick, J. R. Drummond,, P. F. Fogal,, 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., 7, 5489-5499
UVVis; Ozone; NO₂; Validation

2007, T. Gardiner

A. Forbes, P. Woods, M. De Mazière, C. Vigouroux, E. Mahieu, P. Demoulin, V. Velazco, J. Notholt, T. Blumenstock, F. Hase, I. Kramer, R. Sussman, W. Stremme, J. Mellqvist, A. Strandberg, K. Ellingsen, and M. Gauss

Method for evaluating trends in greenhouse gases from ground-based remote FTIR measurements over Europe

Atmos. Chem. Phys. Discuss., 7, 15781-15803

FTIR; Trends

2007, Garny, H.

Bodeker, G.E.; Dameris, M.

Trends and variability in stratospheric mixing: 1979-2005.

Atmospheric Chemistry and Physics 7: 5611-5624

Dobson, Ozone

2007, M. Gil

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

NO₂ Climatology in the Northern Subtropical Region: Diurnal, Seasonal and Interannual variability

Atmos. Chem. Phys. Discuss., 7, S6731-S6737

UVVis; NO₂; Climatology; Diurnal

2007, Goldman, A.

R.H. Tipping, Q. Ma, C.D. Boone, P.F. Bernath, P. Demoulin, F. Hase, M. Schneider, J.W. Hannigan, M.T. Coffey and C.P. Rinsland

On the line parameters for the (1-0) infrared quadrupolar transitions of ¹⁴N₂

Journal of Quantitative Spectroscopy and Radiative Transfer 103, 168-174

FTIR; N₂

2007, Gruzdev, A.N.

Latitudinal structure of trends and effect of solar activity in stratospheric NO₂

Doklady Earth Sciences, Vol. 416, No. 7, pp. 1057-1061

UVVis; NO₂; Trends

2007, Häder, D.-P.

Lebert, M.; Schuster, M.; del Ciampo, L.; Helbling, E.W.; McKenzie, R.

ELDONET - a decade of monitoring solar radiation on five continents

Photochemistry and Photobiology 83: 1-10

Spectral UV; UV Irradiance

2007, Hauchecorne A.

P. Keckhut, and M.L. Chanin

INTERANNUAL VARIABILITY AND LONG TERM CHANGES IN PLANETARY WAVE ACTIVITY IN THE MIDDLE ATMOSPHERE OBSERVED BY LIDAR

Atmos. Chem. Phys. Discuss., 6, 1–19

Lidar; Temperature

2007, Hendrick, F.

M. Van Roozendaal, M. P. Chipperfield, M. Dorf, F. Goutail, X. Yang, C. Fayt, C. Hermans, K. Pfeilsticker, J.-P. Pommereau, J. A. Pyle, N. Theys, and M. De Mazière

Retrieval of stratospheric and tropospheric BrO profiles and columns using ground-based zenith-sky DOAS observations at Harestua, 60N

Atmos. Chem. Phys., 7, 4869-4885

UVVis; BrO

2007, K. Hocke

N. Kämpfer, D. Ruffieux, L. Froidevaux, A. Parrish, I. Boyd, T. von Clarmann, T. Steck, Y.M. Timofeyev, A.V. Polyakov, E. Kyrölä

Comparison and synergy of stratospheric ozone measurements by satellite limb sounders and the ground-based microwave radiometer SOMORA

Atmos. Chem. Phys., 7, 4117-4131

Microwave; Satellite; Ozone; Validation

2007, W.K. Hocking

T. Carey-Smith, D.W. Tarasick, P.S. Argall, K. Strong, Y. Rochon, I. Zawadzki, P.A. Taylor.

Detection of Stratospheric Ozone Intrusions by Windprofiler Radars

Nature, 450, 281-284

doi:10.1038/nature06312

FTIR; Ozone

2007, Hoepfner, M.

von Clarmann, T., Fischer, H., Funke, B., Glatthor, N., Grabowski, U., Kellmann, S., Kiefer, M., Linden, A., Milz, M., Steck, T., Stiller, G. P., Bernath, P., Blom, C. E., Blumenstock, Th., Boone, C., Chance, K., Coffey, M. T., Friedl-Vallon, F., Griffith, D., Hannigan, J. W., Hase, F., Jones, N., Jucks, K. W., Keim, C., Kleinert, A., Kouker, W., Liu, G. Y., Mahieu, E., Mellqvist, J., Mikuteit, S., Notholt, J., Oelhaf, H., Piesch, C., Reddman, T., Ruhnke, R., Schneider, M., Strandberg, A., Toon, G., Walker, K. A., Warneke, T., Wetzels, G., Wood, S., and Zander, R.

Validation of MIPAS ClONO₂ measurements

Atmos. Chem. Phys., 7, 257-281

Satellite; ClONO₂; Validation

2007, Huck, P.E.

S. Tilmes, G.E. Bodeker, W.J. Randel, A.J. McDonald, and H. Nakajima,
An improved measure of ozone depletion in the Antarctic stratosphere,
Journal of Geophysical Research, 112, D111104,
doi:10.1029/2006JD007860
Dobson; Ozone

2007, M. Iopaolo

S. Godin-Beekmann, F. Del Frate, S. Casadio, M. Petitdidier, I. S. McDermid and D. P. J. Swart
GOME Ozone Profiles Retrieved by Neural Network Techniques: A Global Validation with Lidar
Measurements
J. Quantitative Spectroscopy and Radiative Transfer, 107, 105-119
doi:10.1016/j.jqsrt.2007.02.015
Lidar; Satellite; Ozone; Validation

2007, F. Immler

K. Krüger, S. Tegtmeier, M. Fujiwara, P. Fortuin, G. Verver and O. Schrems
Cirrus Clouds, humidity, and dehydration in the tropical tropopause layer observed at Paramaribo,
Suriname (5.8°N, 55.2°W)
J. Geophys. Res. Vol. 112, D03209
doi: 10.1029/2006JD007440
Lidar; Clouds; H₂O

2007, Jeannet, P.

R. Stübi, G. Levrat, P. Viatte, and J. Staehelin
Ozone balloon soundings at Payerne (Switzerland): Reevaluation of the time series 1967–2002 and trend
analysis
J. Geophys. Res., 112, D11302
doi: 10.1029/2005JD006862
Sonde; Ozone; Trends

2007, Jiang, Y. B.

L. Froidevaux, A. Lambert, N. J. Livesey, W. G. Read, J. W. Waters, B. Bojkov, J. A. Logan, T. Leblanc, I. S.
McDermid, S. Godin-Beekmann, M. J. Filipiak, R. S. Harwood, R. A. Fuller, W. H. Daffer, B. J. Drouin, R. E.
Cofield, D. T. Cuddy, R. F. Jarnot, B. W. Knosp, V. S. Perun, M. J. Schwartz, W. V. Snyder, P. C. Stek, R. P.
Thurstans, P. A. Wagner, M. Allaart, S. B. Andersen, G. Bodeker, B. Calpini, H. Claude, G. Coetzee, J.
Davies, H. De Backer, H. Dier, M. Fujiwara, B. Johnson, H. Kelder, N. P. Leme, G. König-Langlo, E. Kyro, G.
Laneve, L. S. Fook, J. Merrill, G. Morris, M. Newchurch, S. Oltmans, M. C. Parrondos, F. Posny, F.
Schmidlin, P. Skrivankova, R. Stubi, D. Tarasick, A. Thompson, V. Thouret, P. Viatte, H. Vömel, P. von Der
Gathen, M. Yela, and G. Zabolcki
Validation of Aura Microwave Limb Sounder Ozone by Ozonesonde and Lidar Measurements

J. Geophysical Research, 112, D24S34
doi:10.1029/2007JD008776
Lidar; Sonde; Satellite; Ozone; Validation

2007, Jones N.

B. Allen, K. Riedel, et al.

Long-term tropospheric formaldehyde concentrations deduced from ground-based fourier transform solar infrared measurements

Atmos. Chem. Phys. Disc., 1, 14543-14568

FTIR; CH₂O

2007, Jones, N. B.

Y. Kasai, E. Dupuy, et al.

Annual Variability of Mesospheric CO as measured by a ground based FT Spectrometer; comparisons with Odin/SMR and a 2-D model

J. Geophys. Res., 112, D20303

doi:10.1029/2006JD007916

FTIR; Satellite; Model; CO

2007, Kagawa, A.

Y. Kasai, N. B. Jones, et al.

Characteristics of stratospheric ozone and ozone-related species over Poker Flat (65°N, 147°W), Alaska observed by a ground-based infrared spectrometer for 2001-2003

Atmos. Chem. Phys., 7, 3791-3810

FTIR; Ozone

2007, Keckhut P.

C. David, M. Marchand, S. Bekki, J. Jumelet, A. Hauchecorne, and M. Höpfner

Observation of Polar Stratospheric Clouds down to the Mediterranean coast

Atmos. Chem. Phys., 7, 5275-5281

Lidar; PSC

2007, Kivi, R.

Kyrö, E., Turunen, T., Harris, N. R. P., von der Gathen, P., Rex, M., Anderson, S. B., Wohltmann, I.

Ozonesonde observations in the Arctic during 1989-2003: ozone variability and trends in lower stratosphere and free troposphere

J. Geophys. Res.-Atmospheres, 112, D08306

doi:10.1029/2006JD007271

Sonde; Ozone; Trends

2007, Ladstätter-Weissenmayer, A.

Altmeyer, H., Bruns, M., Richter, A., Rozanov, A., Rozanov, V., Wittrock, F., and Burrows, J. P.

Measurements of O₃, NO₂ and BrO during the INDOEX campaign using ground based DOAS and GOME satellite data

Atmos. Chem. Phys., 7, 283-291

UVVis; Satellite; Ozone; NO₂; BrO; Validation

2007, Lambert, A.

W. G. Read, N. J. Livesey, M. L. Santee, G. L. Manney, L. Froidevaux, D. L. Wu, M. J. Schwartz, H. C. Pumphrey, C. Jimenez, G. E. Nedoluha, R. E. Cofield, D. T. Cuddy, W. H. Daffer, B. J. Drouin, R. A. Fuller, R. F. Jarnot, B. W. Knosp, H. M. Pickett, V. S. Perun, W. V. Snyder, P. C. Stek, R. P. Thurstans, P. A. Wagner, J. W. Waters, K. W. Jucks, G. C. Toon, R. A. Stachnik, P. F. Bernath, C. D. Boone, K. A. Walker, J. Urban, D. Murtagh, J. W. Elkins, and E. Atlas

Validation of the Aura Microwave Limb Sounder middle atmosphere water vapor and nitrous oxide measurements

J. Geophys. Res., 112, D24S36

doi:10.1029/2007JD008724

Satellite; H₂O, N₂O; Validation

2007, Mahieu, E.

C. Servais, P. Duchatelet, R. Zander, P. Demoulin, M. De Mazière, C. Senten, K.A. Walker, C.D. Boone, C.P. Rinsland and P. Bernath

Optimisation of retrieval strategies using Jungfraujoch high-resolution FTIR observations for long-term trend studies and satellite validation

in Observing Tropospheric Trace Constituents from Space, ACCENT-TROPOSAT-2 in 2006-7, J. Burrows and P. Borrell, Eds., 280-285

FTIR; Satellite; Validation; Trends

2007, McKenzie, R.L.

P.J. Aucamp, A.F. Bais, L.O. Björn, and M. Ilyas

Changes in biologically-active ultraviolet radiation reaching the Earth's surface (Chapter 1 of the UNEP Effects Panel Assessment: 2006)

Photochemical & Photobiological Sciences, 6 (UNEP Special Issue), 218-231

doi: 10.1039/b700017k

Spectral UV; Erythemal UV

2007, Mercer, J.L.

Kroger, C., Nardi, B., Johnson, B.J., Chipperfield, M.P., Wood, S.W., Nichol, S.E., Santee, M.L., Deshler, T. Comparison of measured and modelled ozone above McMurdo Station, Antarctica, 1989-2003, during austral winter/spring

J. Geophys. Res., 112 (D19). Art. No. D19307

Model; Ozone; Validation

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Lidar; Satellite; Validation

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Sonde; Model; Ozone; Validation

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Sonde; H₂O; Validation

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Lidar; Sonde; Satellite; H₂O; Validation

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FTIR; Satellite; ClONO₂; Validation

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