

NDACC Publications - 2006

2006, Baray, Jean-Luc

Jean Leveau, Serge Baldy, Jean Jouzel, Philippe Keckhut, Gilles Bergametti, Gérard Ancellet, Hassan Bencherif, Bertrand Cadet, Michel Carleer, Christine David, Martine De Mazière, Denis Faduille, Sophie Godin Beekmann, Philippe Goloub, Florence Goutail, Jean Marc Metzger, Béatrice Morel, Jean Pierre Pommereau, Jacques Porteneuve, Thierry Portafaix, Françoise Posny, Laurent Robert and Michel Van Roozendael

An instrumented station for the survey of ozone and climate change in the southern tropics,

J. Environ. Monit., 8, 1-9

doi: 10.1039/b607762e

FTIR; Lidar; Sonde; UVVis; Ozone

2006, Bernhard G.

C. R. Booth, J. C. Ebrahimian, and S. E. Nichol

UV climatology at McMurdo Station, Antarctica, based on Version 2 data of the National Science Foundation's Ultraviolet Radiation Monitoring Network

J. Geophys. Res., 111, D11201

doi:10.1029/2005JD005857

Spectral UV; UV Irradiance; Climatology

2006, Blum, U.

Khosrawi, F., Baumgarten, G., Stebel, K., Müller, R. and Fricke, K.H.

Simultaneous lidar observations of a polar stratospheric cloud on the east and west sides of the Scandinavian mountains and microphysical box model simulations

Ann. Geophys., 24, 3267-3277

Lidar; PSC

2006, Blumenstock, T.

G. Kopp, F. Hase, G. Hochschild, S. Mikuteit, U. Raffalski, R. Ruhnke

Observation of unusual chlorine activation by ground-based infrared and microwave spectroscopy in the late Arctic winter 2000/01

Atmos. Chem. Phys., 6, 897-905

FTIR; Microwave, Cl

2006, Bodeker, G.E.

H. Shiona, R. Scott-Weekley, K. Oltmanns, P. King, H. Chisholm, and R.L. McKenzie

UV Atlas version 2: What you get for your money

in UV Radiation and its Effects: an update

Spectral UV; UV Irradiance

2006, Brinksma, E.J.

A. Bracher, D. E. Lolkema¹, A. J. Segers, I. S. Boyd, K. Bramstedt, H. Claude, S. Godin-Beekmann, G. Hansen, G. Kopp, T. Leblanc, I. S. McDermid, Y. J. Meijer, H. Nakane, A. Parrish, C. von Savigny, K. Stebel, D. P. J. Swart, G. Taha, and A. J. M. Piters

Geophysical validation of SCIAMACHY Limb Ozone Profiles

Atmos. Chem. Phys., 6, 197–209

Lidar; Microwave; Satellite; Ozone; Validation

2006, Brunner, D.

J. Staehelin, H.-R. Künsch, and G.E. Bodeker

A Kalman filter reconstruction of the vertical ozone distribution in an equivalent latitude–potential temperature framework from TOMS/GOME/SBUV total ozone observations

Journal of Geophysical Research, 111, D12308

doi: 10.1029/2005JD006279

Sonde; Satellite; Ozone

2006, Brunner, D.

Staehelin, J.; Maeder, J.A.; Wohltmann, I.; Bodeker, G.E.

Variability and trends in total and vertically resolved stratospheric ozone based on the CATO ozone data set

Atmospheric Chemistry and Physics 6: 4985–5008

Sonde; Ozone

2006, A. Colette

G. Ancellet

Variability of the tropospheric mixing and of streamer formation and their impact on the lifetime of observed ozone layers

GRL, 33, L09808

DOI: 10.1029/2006GL025793

Lidar; Ozone

2006, Connor, B.J.

G.E. Bodeker, and R.L. McKenzie

Global Ozone and Its Variability

in UV Radiation and its Effects: an update

Spectral UV; Ozone; UV Irradiance

2006, Cooper, O. R., et al.

Large upper tropospheric ozone enhancements above mid-latitude North America during summer: In situ evidence from the IONS and MOZAIC ozone monitoring network

J. Geophys. Res., 111, D24S05

doi:10.1029/2006JD007306

Lidar; Ozone

2006, Cordero R.R.

Seckmeyer G., Labbe F.

Effect of the resolution on the 'type A' uncertainty analysis

Metrologia, 43, L33-L38

Spectral UV; Validation

2006, Terry Deshler

Richard Anderson-Sprecher, Horst Jäger, John Barnes, David J. Hofmann, Barclay Clemesha, Dale

Simonich, M. Osborn, R. G. Grainger, and Sophie Godin-Beekmann

Trends in the non-volcanic component of stratospheric aerosol over the period 1971 – 2004

JGR Atmospheres, 111, D01201

Lidar; Sonde; Aerosol

2006, Dils, B.

M. De Mazière, J. F. Müller, T. Blumenstock, M. Buchwitz, R. de Beek, P. Demoulin, P. Duchatelet, H.

Fast, C. Frankenberg, A. Gloudemans, D. Griffith, N. Jones, T. Kerzenmacher, I. Kramer, E. ;Mahieu, J.

Mellqvist, R. L. Mittermeier, J. Notholt, C. P. Rinsland, H. Schrijver, D. Smale, A. Strandberg, A. G.

Straume, W. Stremme, K. Strong, R. Sussmann, J. Taylor, M. van den Broek, V. Velazco, T. Wagner, T.

Warneke, A. Wiacek, S. Wood

Comparisons between SCIAMACHY and ground-based FTIR data for total columns of CO, CH₄, CO₂ and N₂O

Atmos. Chem. Phys., 6, 1953-1976

FTIR; Satellite; CO; CH₄; CO₂; N₂O; Validation

2006, Dumitru, Cristina

Klemens Hocke, Niklaus Kämpfer, Yasmine Calisesi

Comparison and validation studies related to ground-base microwave observations of ozone in the stratosphere and mesosphere

Journal of Atmospheric and Solar-Terrestrial Physics, Vol. 68, No. 7, p.745-756

doi: 10.1016/j.jastp.2005.11.001

Microwave; Ozone; Validation

2006, Edwards, D.P.

Emmons, L.K.; Gille, J.C.; Chu, A.; Attie, J.-L.; Giglio, L.; Wood, S.W.; Haywood, J.; Deeter, M.N.; Massie,

S.T.; Ziskin, D.C.; Drummond, J.R.

Satellite Observed Emissions From Southern Hemisphere Biomass Burning

Journal of Geophysical Research 111(D14312)

doi:10.1029/2005JD006655

FTIR; Satellite

2006, Ejiri, M. K.

Y. Terao, T. Sugita, H. Nakajima, T. Yokota, G. C. Toon, B. Sen, G. Wetzzel, H. Oelhaf, J. Urban, D. Murtagh, H. Irie, N. Saitoh, T. Tanaka, H. Kanzawa, M. Shiotani, S. Aoki, G. Hashida, T. Machida, T. Nakazawa, H. Kobayashi, and Y. Sasano

Validation of the Improved Limb Atmospheric Spectrometer-II (ILAS-II) Version 1.4 nitrous oxide and methane profiles

J. Geophys. Res., 111, D22S90

doi:10.1029/2005JD006449

Satellite; N₂O, CH₄

2006, Forkman, P.M.

Shulga, V.M., Pidchiachii, V.I., Korolev, A.M., Myshenko, V.V., Myshenko, A.V

An uncooled very low noise Shottky diode receiver front end for ozone and carbon monoxide measurements

International Journal of Infrared and Millimetre Waves, 27, 25-35

Microwave; Ozone; CO

2006, Frieß, U.

P. S. Monks, J. J. Remedios, A. Rozanov, R. Sinreich, T. Wagner, and U. Platt

MAX-DOAS O₄ measurements: A new technique to derive information on atmospheric aerosols: 2. Modeling studies

J. Geophys. Res., 111, D14203

doi: 10.1029/2005JD006618

UVVis; Model; Aerosol

2006, Gies, P.

S. Henderson, J. Javorniczky, C. Roy, and D. Anderson

Inter-comparison of solar spectral irradiance measurements in Melbourne

in UV radiation and its effects: an update 2006 pp. 80-81, Royal Society of New Zealand

Spectral UV; UV Irradiance; Validation

2006, Gottwald, M.

H. Bovensmann, G. Lichtenberg, S. Noël, A. von Barga, S. Slijkhuis, A. PETERS, R. Hoogeveen, C. von Savigny, M. Buchwitz, A. Kokhanovsky, A. Richter, A. Rozanov, T. Holzer-Popp, K. Bramstedt, J.-C.

Lambert, J. Skupin, F. Wittrock, H. Schrijver, and J. P. Burrows

SCIAMACHY, Monitoring the Changing Earth's Atmosphere

Book edited by M. Gottwald, published by DLR, Institut für Methodik der Fernerkundung (IMF), 167 pp.

Satellite

2006, Griesfeller, A.

J. Griesfeller, F. Hase, I. Kramer, P. Loës, S. Mikuteit, U. Raffalski, T. Blumenstock, and H. Nakajima

Comparison of ILAS-II and ground-based FTIR measurements of O₃, HNO₃, N₂O, and CH₄ over Kiruna, Sweden

J. Geophys. Res., 111, D11S07

doi:10.1029/2005JD006451

FTIR; Satellite; Ozone; HNO; N₂O; CH₄; Validation

2006, Hase, F.

P. Demoulin, A. J. Sauval, G. C. Toon, P. Bernath, A. Goldman, J. W. Hannigan, C. Rinsland

An empirical line-by-line model for the infrared solar transmittance spectrum from 700 to 5000 cm⁻¹

J. Quant. Spectrosc. Radiat. Transfer, 102, 450-463

Lidar

2006, Hendrick, F.

M. Van Roozendaal, A. Kylling, A. Petritoli, A. Rozanov, S. Sanghavi, R. Schofield, C. von Friedeburg, T.

Wagner, F. Wittrock, D. Fonteyn, and M. De Mazière

Intercomparison exercise between different radiative transfer models used for the interpretation of ground-based zenith-sky and multi-axis DOAS observations

Atmospheric Chemistry and Physics, 6, 93-108

UVVIs; Model

2006, Klemens Hocke

Niklaus Kämpfer, Dietrich G. Feist, Yasmine Calisesi, Jonathan H. Jiang, Simon Chabrilat

Temporal variance of lower mesospheric ozone over Switzerland during winter 2000/2001

Geophysical Research Letters, Vol33, L09801

doi:10.1029/2005GL025496

Microwave; Ozone

2006, M. Höpfner

T. von Clarmann, H. Fischer, B. Funke, N. Glatthor, U. Grabowski, S. Kellmann, M. Kiefer, A. Linden, M.

Milz, T. Steck, G. P. Stiller, P. Bernath, C. E. Blom, Th. Blumenstock, C. Boone, K. Chance, M. T. Coffey, F.

Friedl-Vallon, D. Griffith, J. W. Hannigan, F. Hase, N. Jones, K. W. Jucks, C. Keim, A. Kleinert, W. Kouker,

G. Y. Liu, E. Mahieu, J. Mellqvist, S. Mikuteit, J. Notholt, H. Oelhaf, C. Piesch, T. Reddman, R. Ruhnke, M.

Schneider, A. Strandberg, G. Toon, K. A. Walker, T. Warneke, G. Wetzel, S. Wood1, and R. Zander

Validation of MIPAS ClONO₂ measurements

Atmos. Chem. Phys. Discuss, 6, 9765–9821, 2006.

FTIR; Satellite; ClONO₂; Validation

2006, Irie, H.

T. Sugita, H. Nakajima, T. Yokota, H. Oelhaf, G. Wetzel, G. C. Toon, B. Sen, M. L. Santee, Y. Terao, N.

Saitoh, M. K. Ejiri, T. Tanaka, Y. Kondo, H. Kanzawa, H. Kobayashi, and Y. Sasano

Validation of stratospheric nitric acid profiles observed by Improved Limb Atmospheric Spectrometer (ILAS)-II

J. Geophys. Res., 111, D11S03
doi:10.1029/2005JD006115
Satellite; HNO₃

2006, Johnston, P.V.
R.L. McKenzie, and J.B. Liley
Seasonal and Geographic Variation of Vitamin D Producing Radiation in New Zealand
in UV Radiation and its Effects: an update
Spectral UV; UV Irradiance; Vitamin D

2006, Kerzenmacher T.E.
P. Keckhut, A. Hauchecorne, and M.L. Chanin
METHODOLOGICAL UNCERTAINTIES IN MULTI-REGRESSION ANALYSES OF MIDDLE-ATMOSPHERIC DATA
SERIES
J. Environ. Monit., 8, 682-690, DOI:10.1039/b603750j.

2006, Kivi, R.
Kyrö, E.; Dörnbrack, A.; Vömel, H.
Polar stratospheric cloud observations in northern Finland in the 2004-2005 winter,
Geophysical Research Abstracts, Vol. 8, 06247
Dobson; Sonde; Cloud

2006, M. Koike
N. B. Jones, P. I. Palmer, H. Matsui, Y. Zhao, Y. Kondo, Y. Matsumi, and H. Tanimoto
Seasonal variation of carbon monoxide in northern Japan: Fourier transform IR measurements and
source-labeled model calculations
JGR, 111, D15306
doi:10.1029/2005JD006643
FTIR; Model; CO

2006, Kotkamp, M.
R.L. McKenzie, P.V. Johnston, Y. Kondo, N. Takegawa, and M. O'Neill
UV Spectral Irradiance measurements at Lauder, New Zealand
in UV Radiation and its Effects: an update
Spectral UV; UV Irradiance

2006, Leblanc, T.
O. P. Tripathi, I. S. McDermid, L. Froidevaux, N. J. Livesey, W. G. Read, and J. W. Waters
Simultaneous lidar and EOS MLS measurements, and modeling, of a rare polar ozone filament event
over Mauna Loa Observatory, Hawaii
Geophys. Res. Lett., 33, L16801
doi:10.1029/2006GL026257

Lidar; Satellite; Ozone

2006, Liley, J.B.

R.L. McKenzie

Where on Earth has the highest UV?
in UV Radiation and its Effects: an update
Spectral UV; UV Irradiance

2006, Massoli, P.

Maturilli, M., Neuber, R.

Climatology of Arctic polar stratospheric clouds as measured by lidar in Ny-Alesund, Spitsbergen [79° N, 12° E]

Journal of geophysical research-atmospheres, 111(D9), D09206

DOI: 10.1029/2005JD005840.1029/2005JD005840.1029/2005JD005840

Lidar; PSC; Climatology

2006; Maturilli, M.,

Dörnbrack, A.

Polar Stratospheric Ice Cloud above Spitsbergen

Journal of Geophysical Research-Atmospheres, 111(D18210)

doi: 10.1029/2005JD006967

Lidar; PSC

2006, McKenzie

R., P. Johnston, and B. Liley

Huge seasonal and latitudinal variability in vitamin-D production from sunlight

New Zealand Family Physician (NZFP), 32 (2), 87-88

Spectral UV; Vitamin D

2006, McKenzie, R.

B. Liley, and P. Johnston

UV exposure and vitamin D production (editorial)

New Zealand Public Health Surveillance Report (NZPHSR), 4 (2), 2

Spectral UV; Erythemal UV; Vitamin D

2006, McKenzie, R.L.

Implications of the large geographical and temporal variability in UV radiation

in UV Radiation and its Effects: an update

Spectral UV; UV Irradiance

2006, McKenzie, R.L.

G.E. Bodeker, G. Scott, and J. Slusser

Geographical differences in erythemally-weighted UV measured at mid-latitude USDA sites
Photochemical & Photobiological Sciences, 5 (3), 343 – 352
Spectral UV; Erythema UV

2006, Meijer, Y.J.

Swart, D.P.J., Baier, F., Bhartia, P.K., Bodeker, G.E., Casadio, S., Chance, K., Del Frate, F., Erbetseder, T., Flynn, L.E., Godin-Beekmann, S., Hansen, G., Hasekamp, O.P., Kaifel, A., Kelder, H.M., Kerridge, B.J., Lambert, J.-C., Landgraf, J., Latter, B., Liu, X., McDermid, I.S., Müller, M.D., Pachevsky, Y., Rozanov, V., Siddans, R., Tellmann, S., van der A, R.J., van Oss, R.F., Weber, M. and Zehner, C.

Evaluation of GOME ozone profiles from nine different algorithms

J. Geophys. Res., 111, D21306

doi:10.1029/2005JD006778

Lidar; Sonde; Satellite; Ozone; Validation

2006, Miloshevich, L. M.

H. Vömel, D. N. Whiteman, B. M. Lesht, F. J. Schmidlin, and F. Russo

Absolute accuracy of water vapor measurements from six operational radiosonde types launched during AWEX-G and implications for AIRS validation

J. Geophys. Res., 111, D09S10

doi: 10.1029/2005JD006083

Satellite; Sonde; H₂O; Validation

2006, Muscari, G., A.

di Sarra, R. L. de Zafra, F. Lucci, F. Baordo, F. Angelini, and G. Fiocco

Middle atmospheric O₃, CO, N₂O, HNO₃, and temperature profiles during the warm Arctic winter 2001-2002

J. Geophys. Res., 112, D14304

doi: 10.1029/2006JD007849

Microwave; Ozone; Temperature; CO; N₂O; HNO₃

2006, Myhre, G.

F. Stordal, I. Gausemel, C.J. Nielsen, and E. Mahieu

Line-by-line calculations of thermal infrared radiation representative for global conditions: CFC-12 as an example

J. Quant. Spectrosc. Radiat. Transfer, 97, 317-331

FTIR; CFC-12

2006, Noguchi, K.

Imamura, T.; Oyama, K.-I.; Bodeker, G.E.

A global statistical study on the origin of small-scale ozone vertical structures in the lower stratosphere
Journal of Geophysical Research 111: D23105

doi: 10.1029/2006JD007232

Sonde; Ozone

2006, J. Notholt

G.C. Toon, N. Jones, D. Griffith, T. Warneke

Spectral line finding program for atmospheric remote sensing using full radiation transfer

J. Quant. Spectroscopy & Rad. Transfer, 97, 112-115

FTIR

2006, S.J. Oltmans

A.S. Lefohn, J.M. Harris, I. Galbally, H.E. Scheel, G. Bodeker, E. Brunke, H. Claude, D. Tarasick, B.J. Johnson

Long-term changes in tropospheric ozone,

Atmospheric Environment, Volume 40, Issue 17, Pages 3156-3173

Dobson; Sonde; Ozone

2006, C. B. Park

H. Nakane, N. Sugimoto, I. Matsui, Y. Sasano, Y. Fujinuma, I. Ikeuchi, J. Kurokawa and N. Furuhashi

Algorithm improvement and validation of National Institute for Environmental Studies ozone differential absorption lidar at the Tsukuba Network for Detection of Stratospheric Change complementary station

Appl. Opt. 45-15, 3561-3576

Lidar; Ozone; Algorithm, Validation

2006, Piters, A. J. M.

K. Bramstedt, J.-C. Lambert, and B. Kirchhoff

Overview of SCIAMACHY validation: 2002-2004, Invited paper opening the "Geophysical validation of SCIAMACHY: 2002-2004"

Special Issue of Atmospheric Chemistry and Physics, Vol. 6, 127-148

Satellite; Validation

2006, Renard, J.

P. Blelly, Q. Bourgeois, M. Chartier, F. Goutail, and Y. J. Orsolini

Origin of the January–April 2004 increase in stratospheric NO₂ observed in the northern polar latitudes

Geophys. Res. Lett., 33, L11801

doi: 10.1029/2005GL025450

UVVis; NO₂

2006, Rex, M.

R. J. Salawitch, H. Deckelmann, P. von der Gathen, N. R. P. Harris, M. P. Chipperfield, B. Naujokat, E.

Reimer, M. Allaart, S. B. Andersen, R. Bevilacqua, G. O. Braathen, H. Claude, J. Davies, H. De Backer, H.

Dier, V. Dorokhov, H. Fast, M. Gerding, S. Godin-Beekmann, K. Hoppel, B. Johnson, E. Kyro, Z. Litynska, D.

Moore, H. Nakane, M. C. Parrondo, A. D. Risley Jr., P. Skrivankova, R. Stubi, P. Viatte, V. Yushkov, and C.

Zerefos

Arctic winter 2005: Implications for stratospheric ozone loss and climate change

Geophys. Res. Lett., 33, L23808

doi: 10.1029/2006GL026731

Sonde; Ozone

2006, Rinsland, C.P.

A. Goldman, J.W. Elkins, L.S. Chiou, J.W. Hannigan, S.W. Wood, E. Mahieu, and R. Zander

Long-term trend of CH at northern mid-latitudes: Comparisons between ground-based infrared solar and surface sampling measurements

J. Quant. Spectrosc. Radiat. Transfer, 97, 457-466

FTIR; CH, Trends

2006, Rinsland

C.P., E. Mahieu, R. Zander, R. Nassar, P. Bernath, C. Boone, and L.S. Chiou

Long-Term Stratospheric Carbon Tetrafluoride (CF₄) Increase Inferred from 1985-2004 Infrared Space-based Solar Occultation Measurements

Geophys. Res. Lett., 33, L02808

doi:10.1029/2005GL024709

FTIR; Satellite; CF₄

2006, Roscoe, H.K.

The Brewer-Dobson circulation in the stratosphere and mesosphere - is there a trend?

Advances in Space Research 38, 2446-2451

doi: 10.1016/j.asr.2006.02.078

Theory; UVVis; Brewer-Dobson Circulation; Trend

2006, Schneider, M.

F. Hase, T. Blumenstock

Ground-based remote sensing of HDO/H₂O ratio profiles: introduction and validation of an innovative retrieval approach

Atmos. Chem. Phys. Discuss., 6, 5269-5327

FTIR; HDO; H₂O; Algorithm, Validation

2006, Schneider, M.

F. Hase, T. Blumenstock

Water vapour profiles by ground-based FTIR spectroscopy: study for an optimised retrieval and its validation

Atmos. Chem. Phys., 6, 811-830

FTIR; H₂O; Algorithm; Validation

2006, Schofield, R.

Johnston, P.V.; Thomas, A.; Kreher, K.; Connor, B.J.; Wood, S.; Shooter, D.; Chipperfield, M.P.; Richter, A.; von Glasow, R.; Rodgers, C.D.

Tropospheric and stratospheric BrO columns over Arrival Heights, Antarctica, 2002

J. Geophys. Res. 111: D22310

doi: 10.1029/2005JD007022

UVVis; BrO

2006, Sharma S.

Sivakumar V., Bencherif H., Chandra H., Jayaraman A., Acharya Y. B., Rao P. B., and Rao D. N.

A comprehensive study on middle atmospheric thermal structure over a tropic and sub-tropic stations

Adv. Space Res., 37, 12, 2278-2283

Lidar; Temperature

2006, Sinnhuber, B.-M.

P. von der Gathen, M. Sinnhuber, M. Rex, G. König-Langlo, S. J. Oltmans

Large decadal scale changes of polar ozone suggest solar influence

Atmos. Chem. Phys., 6, 1835-1841

SRef-ID: 1680-7324/acp/2006-6-1835

Sonde; Ozone

2005, Sivakumar V.

H. Bencherif, A. Hauchecorne, P. Keckhut, D. N. Rao, S. Sharma, H. Chandra, A. Jayaraman, P. B. Rao

Rayleigh lidar observations of double stratopause structure over three different northern hemisphere stations

Atmos. Chem. Phys. Discuss., 6, 6933-6956

Lidar; Temperature

2006, Sivakumar V.

J.-L. Baray, S. Baldy, and H. Bencherif

Tropopause characteristics over a southern sub-tropical site, Reunion Island (21 S, 55 E): using

Radiosonde/Ozonesonde data

J. of Geophys. Res., 111, D19111

doi: 10.1029/2005JD006430

Lidar; Sonde; Ozone

2006, Sivakumar V.

Rao P. B. and Bencherif H.

Lidar observations of middle atmospheric gravity wave activity over a low-latitude site (Gadanki, 13.5°N, 79.2°E)

Ann. Geophys. 24, 823-834

Lidar

2006, P. Skrivankova

Vaisala Radiosonde RS92 Ozone Validation Trial at Praha-Libus
VAISALA News 170, 18-19
Sonde; Ozone; Validation

2006, P. Solomon et al.
The Rise and Decline of Active Chlorine in the Stratosphere
Geophysical Research Letters 33, No. 18, L18807
doi: 10.1029/2006GL027029
Microwave; Cl

2006, Steinbrecht W.
H. Claude, F. Schönerborn, I. McDermid, T. Leblanc, S. Godin, T. Song, D. Swart, Y. Meijer, G. Bodeker, B. Connor, N. Kämpfer, K. Hocke, Y. Calisesi, N. Schneider, J. Noe, A. Parrish, I. Boyd, C. Brühl, B. Steil, M. Giorgetta, E. Manzini, L. Thomasson, J. Zawodny, M. McCormick, J. Russel III, P. Bhartia, R. Stolarski, S. Hollandsworth-Frith
Long-term evolution of upper stratospheric ozone at selected stations of the Network for the Detection of Stratospheric Change (NDSC)
J. Geophys. Res., 111, D10308
doi: 10.1029/2005JD006454
Lidar; Microwave; Sonde; Satellite; Ozone

2006, Steinbrecht, W., et al.
Interannual variation patterns of total ozone and lower stratospheric temperature in observations and model simulations
Atmos. Chem. Phys., 6, 349-374
Lidar; Model; Ozone; Temperature

2006, Streibel, M.
M. Rex, P. von der Gathen, R. Lehmann, N. R. P. Harris, G. O. Braathen, E. Reimer, H. Deckelmann, M. Chipperfield, G. Millard, M. Allaart, S. B. Andersen, H. Claude, J. Davies, H. De Backer, H. Dier, V. Dorokov, H. Fast, M. Gerding, E. Kyrö, Z. Litynska, D. Moore, E. Moran, T. Nagai, H. Nakane, C. Parrondo, P. Skrivankova, R. Stübi, G. Vaughan, P. Viatte, V. Yushkov
Chemical ozone loss in the Arctic winter 2002/03 determined with Match
Atmos. Chem. Phys., 6, 2783-2792
SRef-ID: 1680-7324/acp/2006-6-2783
Sonde; Ozone

2006, N. Sugimoto
C. H. Lee
Characteristics of dust particles inferred from lidar depolarization measurements at two-wavelengths
Applied Optics, Vol.45, No.28, pp.7468-7474
Lidar; Aerosol

2006, Sugita, T.

H. Nakajima, T. Yokota, H. Kanzawa, H. Gernandt, A. Herber, P. von der Gathen, G. König-Langlo, K. Sato, V. Dorokhov, V. A. Yushkov, Y. Murayama, M. Yamamori, S. Godin-Beekmann, F. Goutail, H. K. Roscoe, T. Deshler, M. Yela, P. Taalas, E. Kyrö, S. J. Oltmans, B. J. Johnson, M. Allaart, Z. Litynska, A. Klekociuk, S. B. Andersen, G. O. Braathen, H. De Backer, C. E. Randall, R. M. Bevilacqua, G. Taha, L. W. Thomason, H. Irie, M. K. Ejiri, N. Saitoh, T. Tanaka, Y. Terao, H. Kobayashi, and Y. Sasano

Ozone profiles in the high-latitude stratosphere and lower mesosphere measured by the Improved Limb Atmospheric Spectrometer (ILAS)-II: Comparison with other satellite sensors and ozonesondes

J. Geophys. Res., 111, D11S02

doi:10.1029/2005JD006439

Satellite; Sonde; UVVis; Ozone; Validation

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FTIR; Lidar; Sonde; Satellite; Ozone; HNO₃, Temperature; Validation