

NDSC Publications - 1992

1992, Adriani A.

T. Deshler, G.P. Gobbi, B.J. Johnson, G. Di Donfrancesco

Polar stratospheric clouds over McMurdo, Antarctica, during the 1991 spring: Lidar and particle counter measurements

Geophys. Res. Lett., 19, 1755-1758

Lidar; Aerosol; PSC

1992, Brogniez, C.

R. Santer, B.S. Diallo, M. Herman, J. Lenoble, and H. Jaeger

Comparative observations of stratospheric aerosols by ground-based lidar, balloon-borne polarimeter, and satellite solar occultation

J. Geophys. Res., 97, 20, 805-20,823

Lidar; Sonde; Satellite; Aerosol; Validation

1992, Brown, L. R.

C. B. Farmer, C. P. Rinsland, and R. Zander

Remote sensing of the atmosphere by high resolution infrared absorption spectroscopy,

Chapter 2 in "Spectroscopy of the Earth's Atmosphere and Interstellar Medium", pp. 97-151, K. Narahari

Rao and A. Weber Eds., Academic Press, Inc.

FTIR

1992, De Muer

De Backer

Revision of 20 years of Dobson total ozone data at Uccle (Belgium): Fictitious trends induced by sulfur dioxide trends

J. Geophys. Res., 97, 5921-5937

Dobson; Ozone

1992, Deshler, T.

A. Adriani, G.P. Gobbi, D. J. Hofmann, G. Di Donfrancesco, B. J. Johnson

Volcanic aerosol and ozone depletion within the Antarctic polar vortex during the austral spring of 1991

Geophys. Res. Lett., 19, 1819-1822

Sonde; Aerosol; Ozone

1992, di Sarra, A.

M. Cacciani, P. Di Girolamo, G. Fiocco, D. Fua`, B. Knudsen, N. Larsen, and T.S. Joergensen

Observations of correlated behavior of stratospheric ozone and aerosol at Thule during winter 1991-1992

Geoph. Res. Lett., 19, 1823-26

Lidar; Ozone; Aerosol

1992, Hauchecorne A.

M.L. Chanin, P. Keckhut, and D. Nedeljkovic

Lidar monitoring of the temperature in the middle and lower atmosphere

Appl. Phys., B 54, 2573-2579

Lidar; Temperature

1992, Jaeger, H.

The Pinatubo eruption cloud observed by lidar at Garmisch-Partenkirchen

Geophys. Res. Lett., 19, 191-194

Lidar; Aerosol; Volcano

1992, Johnson, B. J.

T. Deshler, R. L. Thompson

Vertical profiles of ozone at McMurdo Station, Antarctica; spring 1991

Geophys. Res. Lett., 19, 1105-1108

Sonde; Ozone

1992, Johnston, P.V.

McKenzie, R.L.; Keys, J.G.; Matthews, W.A.,

Observations of depleted stratospheric NO₂ following the Pinatubo volcanic eruption

Geophys. Res. Lett., 19, 211-213

FTIR; UVVis; NO₂; Volcano

1992, Kondo, Y.

P. Amedieu, M. Koike, Y. Iwasaka, P.A. Newman; U. Schmidt, W.A. Matthews, M. Hayashi, W.R. Sheldon

Reactive nitrogen, ozone and nitrate aerosols observed in the Arctic stratosphere in January 1990

J. Geophys. Res., 97, 13025-13038

Sonde; Ozone; Aerosol

1992, Lacoste, A.M.

S. Godin, G. Mégie,

Lidar measurements and Umkehr observations of the ozone vertical distribution at the Observatoire de Haute-Provence

J. Atmos. Terr. Phys., 54, 571-582

Lidar; Umkehr; Ozone; Validation

1992, Lehmann, P.

Karoly, D.J.; Newman, P.A.; Clarkson, T.S.; Matthews, W.A.

Long-term winter total ozone changes over MacQuarie Island

Geophys. Res. Lett., 19, 1459-1462

UVVis; Ozone

1992, Liu, X.

R. D. Blatherwick, F. J. Murcray, J. G. Keys, and S. Solomon

Measurements and model calculations of HCl column amounts and related parameters over McMurdo during the austral spring in 1989

J. Geophys. Res., 97, 20795-20804

FTIR; HCl

1992, McKenzie, R. L.

P. V. Johnston, M. Kotkamp, A. Bittar, and J. D. Hamlin

Solar ultraviolet spectroradiometry in New Zealand: instrumentation and sample results from 1990

Appl. Opt., 31, 6501-6509

Spectral UV; UV Irradiance

1992, Nakane, H.

S. Hayashida, Y. Sasano, N. Sugimoto, I. Matsui and A. Minato

Vertical profiles of temperature and ozone observed during DYANA campaign with the NIES ozone lidar system at Tsukuba

J. Geomag. Geoelectr., 44, 1071-1083

Lidar; Ozone; Temperature

1992, Neuber, R.

G. Beyerle, and O. Schrems

LIDAR Measurements of Stratospheric Aerosols in the Arctic

Ber. Bunsenges Phys. Chem. 96, 350-353

Lidar; Aerosol

1992, Parrish, A.

B.J. Connor, J.J. Tsou, I.S. McDermid, and W.P. Chu

Ground-based Microwave Monitoring of Stratospheric Ozone, J. Geophys. Res., 97, 2541-2546

Microwave; Ozone

1992, Rinsland, C. P.

R. Zander, E. Mahieu, P. Demoulin, A. Goldman, D. H. Ehhalt, and J. Rudolph

Ground-based infrared measurements of carbonyl sulfide total column abundances: long-term trends and variability

J. Geophys. Res., 97, 5995-6002

FTIR; COS

1992, Rosen, J.M., et al

Measured and calculated optical properties profiles in the mixed layer and free troposphere

J. Geophys. Res., vol. 97, p 12837-12850

Sonde; Aerosol

1992, Rosen J.M.

N.T.Kjome, V.U.Khattatov, V.V. Rudakov, V.A. Yushkov

Observations of ozone and polar stratospheric clouds at Heiss Island during winter 1998-1989

J. Geophys. Res., 8099-8104

Sonde; Ozone; PSC

1992, Rosen, J.M.

N.T.Kjome, H.Fast, V.U.Khattatov, V.V.Rudakov

Penetration of Mt. Pinatubo aerosols into the north polar vortex

Geophys. Res. Lett., 19, 1751-1754

Sonde; Aerosol; Volcano

1992, Rummukainen M.

S. Joffre, J. Damski, und P. von der Gathen, Stratospheric ozone variability over Spitsbergen in March - April 1991

Ber. Bunsenges. Phys. Chem., 96, 277-280

Sonde; Ozone

1992, Seckmeyer, G.

R. L. McKenzie

Increased ultraviolet radiation in New Zealand (45 S) relative to Germany (48 N)

Nature, 359, 135-137

Spectral UV; UV Irradiance

1992, Solomon, S.

J. G. Keys

Seasonal variations in Antarctic NO_x chemistry

J. Geophys. Res., 97, 7971-7978

FTIR; NO_x

1992, Stefanutti L. et al.

The Antarctic Ozone Lidar System

Appl. Phys., B55, 3-12

Lidar; Ozone

1992, Stefanutti L. et al.

A Four Wavelength Depolarization Backscattering Lidar for Polar Stratospheric Cloud Monitoring

Appl. Phys. B55, 13-17

Lidar; Aerosol; PSC

1992, Toon, G.C.

C.B.Farmer, P.W.Schaper, L.L.Lowes, and R.H.Norton

Composition Measurements of the 1989 Arctic Winter Stratosphere by Airborne Infrared Solar Absorption Spectroscopy

J. Geophys. Res., 97, 7939-7961

FTIR

1992, White, M.G.

Smith, G.J.; Ryan, K.G.; Coppel, R.B.; Backshall, D.; Edmunds, C.J.; McKenzie, R.L.

Erythemal and carcinogenic ultraviolet radiation at three New Zealand cities

Weather and Climate, 12, 83-88

Spectral UV; Erythemal UV

1992, Zander, R.

M. R. Gunson, C. B. Farmer, C. P. Rinsland, F. W. Irion, and E. Mahieu

The 1985 chlorine and fluorine inventories in the stratosphere based on ATMOS observations at 30E north latitudes

J. Atmos. Chem., 15, 171-186

FTIR; Cl; F