

NDSC Publications - 1993

1993, Donovan, D.P.

J.A. Whiteway, and A.I. Carswell

Correction for Nonlinear Photon-counting Effects in Lidar Systems

Applied Optics, 32, 6742-6753

Lidar

1993, Elokhov, A.S.

A.N.Gruzdev

Spectrometric measurements of total NO₂ in different regions of the globe

SPIE, 2107, 111-121

UVVis; NO₂

1993, Finger, F. G.

M. E. Gelman, J. D. Wild, M. L. Chanin, A. Hauchecorne and A. J. Miller

Evaluation of NMC upper-stratospheric temperature analyses using rocketsonde and lidar data

Bull. Amer. Meteor. Soc., 74, 789-799

Lidar; Satellite; Rocket; Temperature; Validation

1993, Grainger, R. G.

R. E. Basher, and R. L. McKenzie

UV-B Robertson-Berger meter characterization and field calibration

Appl. Opt., 32, 343-349

Spectral UV; UV-B

1993, Hofmann, D.J.

Oltmans, S.J., Harris, J.M., Komhyr, W.D., Lathrop, L.A., Defoor, T., and Kuniyuki, D.

Ozonesonde measurements at Hilo, Hawaii following the eruption of Pinatubo

Geophys. Res. Lett. 20, 1555-1558

Sonde; Ozone;Volcano

1993, Keckhut P.

A. Hauchecorne and M. L. Chanin

A critical review on the data base acquired for the long term surveillance of the middle atmosphere by french rayleigh lidars

J. Atmos. Oceanic Technol., 10, 850-867

Lidar; Temperature

1993, Keys, J. G.

P. V. Johnston, R. D. Blatherwick, and F. J. Murcray

Evidence of heterogeneous reactions involving nitrogen compounds in the Antarctic stratosphere
Nature, 361, 49-51
FTIR

1993, Koike, M.
Y. Kondo, W. A. Matthews, P. V. Johnston, and K. Yamazaki
Decrease of stratospheric NO₂ at 44° N caused by Pinatubo volcanic aerosols
Geophys. Res. Lett., 20, 1975-1978
UVVis; NO₂; Volcano

1993, McDermid, J. S.
A 4-Year Climatology of Stratospheric Ozone from Lidar Measurements at Table Mountain (34.4M-0 N)
J. Geophys. Res., 98, 10509-10515
Lidar; Ozone; Climatology

1993, McGee, T. J.
M. Gross, R. Ferrare, W. S. Heaps, and U. Singh
Raman DIAL Measurements of Stratospheric Ozone in the Presence of Volcanic Aerosols
Geophys. Res. Lett., 20, 955-958
Lidar; Ozone

1993, McKenzie, R.L.
UV solar spectral irradiance in New Zealand
Frontiers of Photobiology, eds. A. Shima, M. Ichihashi, Y. Fujiwara, H. Takebe, Excerpta Medica,
Amsterdam, 527-529
Spectral UV; UV Irradiance

1993, McKenzie, R. L.
M. Kotkamp, G. Seckmeyer, R. Erb, R. Gies, and S. Toomey
First southern hemisphere intercomparison of measured solar UV spectra
Geophys. Res. Lett., 20, 2223-2226
Spectral UV; UV Irradiance; Validation

1993, Nakane, H.
Y. Sasano, S. Hayashida, N. Sugimoto, I. Matsui, A. Minato and M.P. McCormick
Comparison of ozone profiles obtained with NIES DIAL and SAGE II measurements
J. Meteorol Soc. Jpn., 71, 153 – 159
Lidar; Satellite; Ozone; Validation

1993, Nichol, S.E.
C. Valenti

Intercomparison of total ozone measured at low sunangles by the Brewer and Dobson spectrophotometers at Scott Base, Antarctica
Geophys. Res. Lett., 20, 2051-2054
Brewer; Dobson; Ozone

1993, Notholt, J.
R. Neuber, O. Schrems, T. v. Clarmann
Stratospheric trace gas concentrations in the Arctic polar night derived by FTIR-spectroscopy with the moon as IR light source
Geophys. Res. Letters, 20, 2059-2062
FTIR

1993, Rosen, J.M.
N.T.Kjome, S.J.Oltmans
Simultaneous ozone and polar stratospheric cloud observations at South Pole Station during winter and spring 1991
J. Geophys. Res., 98, 12,741-12,751
Sonde; Ozone; PSC

1993, Sanders, R. W.
S. Solomon, J. P. Smith, L. Perliski, H. L. Miller, G. H. Mount, J. G. Keys, and A. L. Schmeltekopf
Visible and near-ultraviolet spectroscopy at McMurdo Station, Antarctica, 9. Observations of OCIO from April-October, 1991
J. Geophys. Res., 98, 7219-7228
UVVis; OCIO

1993; Smith, J.P.
S. Solomon, R.W. Sanders, H.L. Miller, L.M. Perliski, J.G. Keys, A.L. Schmeltekopf
Atmospheric NO₃ 4. Vertical profiles at middle and polar latitudes at sunrise
J. Geophys. Res., 98, 8983-8989
UVVis; NO₃

1993, Solomon, S.
R.W. Sanders, R.R. Garcia, J.G. Keys
Increased chlorine dioxide over Antarctica caused by volcanic aerosols from Mount Pinatubo
Nature, 363, 245- 248
UVVis; ClO₂; Aerosol; Volcano

1993, Solomon, S.
Smith, J.P.; Sanders, R.W.; Perliski, L.; Miller, H.L.; Mount, G.H.; Keys, J.G.; Schmeltekopf, A.L.
Visible and near-ultraviolet spectroscopy at McMurdo Station, Antarctica 8. Observations of nighttime NO₂ and NO₃ from April to October 1991

J. Geophys. Res., 98, 993-1000
UVVis; NO₂; NO₃