

NDSC Publications - 1995

1995, Chazette P., C. David, J. Lefrere, J. Pelon, S. Godin, and G. Megie, Study of the optical, geometrical and dynamical properties of stratospheric post-volcanic aerosols from lidar remote sensing at 532 nm, following the eruptions of El Chichon and Mt Pinatubo, J. Geophys. Res., 100, 23195-23207, 1995. Lidar; Aerosol

1995, Adriani A.

T. Deshler, G. Di Donfrancesco, G.P. Gobbi

Polar stratospheric clouds and volcanic aerosol during the 1992 spring over McMurdo, Antarctica: Lidar and particle counter comparative measurements

J. Geophys. Res., 100, 25,877-25,897

Lidar; Sonde; Aerosol; PSC

1995, Beekmann, M.

G.Ancellet, D.Martin, C.Abonnel, G.Duverneuil, F.Eideliman, P.Bessemoulin, N.Fritz, and E.Gizard

Intercomparison of tropospheric ozone profiles obtained by electrochemical sondes, a ground-based lidar and an airborne UV-photometer

Atmos. Environ., 29, 1027-1042

Lidar; Sonde; UVVis; Ozone

1995, Bodeker, G.E.

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Radiation protection in Australia, 13, 39-49

Spectral UV; Ozone; Erythemal UV

1995, Clancy R.

D.O. Muhleman

Ground-based Microwave Spectroscopy of the Earth's Stratosphere and Mesosphere

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Microwave

1995, Connor B.J.

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Error analysis for the ground-based microwave ozone measurements during STOIC

J. Geophys. Res., 100, 9283-9291

Microwave; Ozone; Validation

1995, Crewell, S.

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J. Geophys. Res., 100, 20,839-20,844
Microwave; N₂O

1995, Delbouille, L.
Roland, G.
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Optical Engineering, 34, 2736-2739
FTIR

1995, de Zafra, R.L.
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Vertical Profiles
J. Geophys. Res., 100, 13,999-14,007
Microwave; ClO

1995, di Sarra, A.
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Ozone and aerosol correlated observations at Thule, Greenland, in the period 1991-1994
J. Geophys. Res., 100, 25965-25977
Lidar; Ozone; Aerosol

1995, Donovan, D.P.
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Lidar Observations of Stratospheric Ozone and Aerosol above the Canadian High Arctic During the 1994-
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Geophys. Res. Lett., 22, 3489-3492
Lidar; Ozone; Aerosol

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Estimation of tropospheric and stratospheric NO₂ from spectrometric measurements of column NO₂
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SPIE, 2506, 444-455
UVVis; NO₂

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J. Geophys. Res., 100, 3049-3055

Microwave; CIO

1995, Ferrare, R. A.

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Lidar Measurements of Stratospheric Temperature During STOIC, J. Geophys. Res., 100, 9303-9312

Lidar; Temperature

1995, Gross, M.

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Measurements of Stratospheric Aerosols with a Combined Rayleigh/Raman Lidar

Appl. Opt., 34, 6915-6924

Lidar; Aerosol

1995, Hofmann, D.

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J. Geophys. Res., 100, 16765-16791

UVVis; NO₂; Validation

1995, Hoppe, U.-P.

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Lidar; Ozone

1995, Jaeger, H.

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Lidar; Sonde; Aerosol

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Ground-based remote sensing of the decay of the Pinatubo eruption cloud at three northern hemisphere sites

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Lidar; Aerosol; Volcano

1995, Johnson, B. J.

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Sonde; Ozone

1995, Kampfer N.

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Optical Eng., 34, 2413-2424

Microwave

1995, Keckhut P.

A. Hauchecorne, and M.L. Chanin

Mid-latitude long-term variability of the middle atmosphere trends, and cyclic and episodic changes

J. Geophys. Res., 100, 18887-18897

Lidar; Temperature; Trends

1995, Komhyr W.D.

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J. Geophys. Res., 100, 9231-9244

Sonde; Ozone

1995, Komhyr, W. D.

B. J. Connor, I. S. McDermid, T. J. McGee, A.D. Parrish and J. J. Margitan

Comparison of STOIC 1989 Ground-Based Lidar, Microwave Radiometer, and Dobson

Spectrophotometer Umkehr Ozone Profiles With Ozone Profiles from Balloon-Borne ECC Ozonesondes

J. Geophys. Res., 100, 9273-9282

Lidar; Microwave; Sonde; Umkehr; Ozone; Validation

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The latitudinal distribution (50N - 50S) of NO₂ and O₃ in October/November 1990

Geophys. Res. Lett., 22, 1217-1220

UVVis; Ozone; NO₂

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Deliquescence and freezing of stratospheric aerosol observed by balloonborne backscattersondes

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Sonde; Aerosol

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Analytic solution of a one-dimensional equation for aerosol and gas dispersion in the stratosphere

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Theory; Aerosol

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J. Atmos. Chem., 20, 299-310

FTIR; HCN

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Ambio, 24, 143-152

Spectral UV; UV Irradiance

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Parsons, A. L. Torres, J. J. Tsou, T. D. Walsh, and D. Whiteman,

Stratospheric Ozone Intercomparison Campaign (STOIC) 1989: Overview,

J. Geophys. Res., 100, 9193-9208

Lidar; Microwave; Sonde; Ozone; Validation

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The Review of Laser Engineering, 23, 97-103

Lidar

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J. Geophys. Res., 100, 9263-9272

Lidar; Ozone; Validation

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Lidar; Ozone

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Lidar; Ozone

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J. Geophys. Res., 100, 2927
Microwave; H₂O

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Shipborne FTIR measurements of atmospheric trace gases on a South (33 M-OS) to North (53 M-ON)
Atlantic traverse
Applied Spectr., 49, 1525-1527
FTIR

1995, Notholt, J.
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Heterogeneous conversion of HCl and ClONO₂ during the Arctic winter 1992/93 initiating the ozone
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J. Geophys. Res., 100, 11269-11274
FTIR; HCl; ClONO₂

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Total column densities of tropospheric and stratospheric trace gases in the undisturbed Arctic summer
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J. Atmosph. Chem., 20, 311-332
FTIR;

1995, Notholt, J.
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Ground-based FTIR spectroscopic absorption measurements of stratospheric trace gases with the sun and moon as light sources

J. Mol. Structure, 347, 407-416

FTIR

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Increase in lower-stratospheric water vapour at a mid-latitude northern hemisphere site from 1981 to 1994

Nature, 374, 146–149

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Sonde; H₂O

1995, Pommereau, J. P.

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SAOZ Total Ozone Measurements in Antarctica. Comparisons with TOMS Versions 6 and 7

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UVVis; Satellite; Ozone; Validation

1995, Pougatchev, N.S.

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Infrared measurements of the ozone vertical distribution above Kitt Peak

J. Geophys. Res., 100, 16,689-16,698

FTIR; Ozone

1995, Reisinger, A.R.

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J. Geophys. Res., 100(D11), 23183-23193

FTIR; ClONO₂; Trend

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B. J. Connor, N. B. Jones, I. Boyd, W.A. Matthews, A. Goldman, F. J. Murcray, D. G. Murcray, S. J. David, and N. S. Pougatchev

Comparison of infrared and Dobson total columns measured from Lauder, New Zealand

Geophys. Res. Lett., 23, 1025-1028

FTIR; Dobson

1995, Seckmeyer, G.

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Geophys. Res. Lett., 22, 1889-1892
Spectral UV; UV Irradiance; Validation

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J. Geophys. Res., 101, 1475-1488

Microwave, Model, ClO, Diurnal

1995, Shindell, D.T.

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Microwave; ClO

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J. Geophys. Res., 100., 11191-11201

Microwave; Model; Ozone

1995, Slaper, H.

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Geophys. Res. Lett., 22 (20) 2721-2724

Spectral UV; UV Irradiance; Validation

1995, Stefanutti, L.

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Lidar; PSC

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FTIR; HCl

1995, Tsou, J. J.

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Lidar; Microwave; Satellite; Ozone; Validation

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Lidar, Aerosol; Volcano

1995, von der Gathen, P.

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Sonde; Ozone

1995, Wild, J. D.

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Comparison of stratospheric temperatures from several lidars, using National Meteorological Center and microwave limb sounder data as transfer references

J. Geophys. Res., 100, 11,105-11,111

Lidar; Satellite; Temperature; Validation