

Publications Relevant to NDSC – 1970s and Earlier

1961, Mastenbrook, H. J.

Dinger, J. E.

Distribution of Water Vapor in the Stratosphere

J. Geophys. Res., 66, 1437–1444

Sonde; H₂O

1964, Rosen, J.M.

The vertical distribution of dust to 30 km, J. Geophys. Res., vol. 64 , 4673-4676

Sonde; Aerosol

1966, Rosen J.M.

Correlation of dust and ozone in the stratosphere

Nature, vol 209

Sonde; Aerosol; Ozone

1968, Rosen, J.M.

Simultaneous dust and ozone soundings over north and central America

J. Geophys. Res., vol., 73, No. 2, 479-485

Sonde; Aerosol; Ozone

1969, Komhyr W.D.

Electrochemical concentration cells for gas analysis

Ann. Geophys., 25, 203-210

Sonde; Historical

1973, Brewer, A. W.

A replacement for the Dobson spectrophotometer

Pure and Applied Geophys., 106-108, 919-927

Brewer; Dobson; Ozone; Historical

1974, Northam, G.G

J.M. Rosen, S.H. Melfi, T.J. Pepin, M.P. McCormick, D.J. Hofmann, and W.H. Fuller, Jr.

A comparison of dustsonde and lidar measurements of stratospheric aerosols

Appl. Opt., vol. 13, 2416- 2421

Sonde; Lidar; Aerosol; Validation

1975, Cadle, R.D.

G. Langer, J.B. Haberl, A. Hogan, J.M. Rosen, W.A. Sedlacek, and J. Wegrzyn

A comparison of the Langer, Rosen, Nolan-Pollak and SANDS condensation nucleus counters

J. Appl. Meteorology, vol., 14, No. 8, 1566-1571
Dustsonde; Aerosol; Validation

1975, Rosen, J.M.
T.J. Pepin, and R.G. Pinnick
Stratospheric aerosol measurements I: time variations at northern midlatitudes
J. Atmos. Sci., vol. 32, 1446-1456
Sonde; Aerosol

1976, Pinnick R.G.
J.M. Rosen, and D.J. Hofmann
Measured light scattering properties of individual aerosol particles compared to Mie scattering theory
Appl. Opts., vol., 12, 37-41
Sonde; Aerosol

1976, Pinnick, R.G.
J.M. Rosen, and D.J. Hofmann
Stratospheric aerosol measurements, III, Optical model calculations
J. Atmos. Sci., vol. 33, 304-314
Sonde; Model; Aerosol

1976, Rodgers, C.D.
Retrieval of atmospheric temperature and composition from remote sounding measurements
Rev. Geophys., 14, 609-624
Microwave; Temperature; Ozone; Historical

1977, Rosen, J.M.
D.J. Hofmann
Balloonborne measurements of condensation nuclei
J. App. Meteor., vol., 16, 56-62
Sonde; Aerosol

1977, Twomey, S.
B. Herman, R. Rabinoff
An Extension to the Chahine Method of Inverting the Radiative Transfer Equation
J. Atmospher. Sci., 34, 1085-1090
Microwave; Historical

1978, Mankin, W. G.
Airborne Fourier transform spectroscopy of the upper atmosphere.
Opt. Engr., 17, 39-43
FTIR; Historical

1979, McPherson, R. D.

K. H. Bergman, R. E. Kistler, G. E. Rasch, and D. S. Gordon

The NMC operational global data assimilation system

Mon. Wea. Rev., 107, 1445-61

Satellite; Temperature; Historical

1979, P.B. Russell

T.J. Swissler, and M.P. McCormick

Methodology for error analysis and simulation of lidar aerosol measurements

Applied Optics, Vol. 18, No. 22

Lidar; Aerosol; Validation