



Subject Guide No. 11 –

Meteorological Instruments:

a selection of references from the Library and Archive's
catalogue, available at

www.metoffice.gov.uk/corporate/library/index.html



Updated August 2008

National Meteorological Library and Archive
Met Office
FitzRoy Road
Exeter EX1 3PB
United Kingdom

Tel: +44(0)1392 884841
Fax: +44(0)1392 885681

E-mail:
metlib@metoffice.gov.uk (Library)
metarc@metoffice.gov.uk (Archive)

METEOROLOGICAL INSTRUMENTS

Azzopardi, S.
Thermoscopes and thermometers.
Spiridion Scientific Instruments, 1984

Found at: [551.508.2 AZZ \(Books\)](#)

Banfield, E.
Barometer makers and retailers 1660-1900.
Trowbridge, Baros Books, 1991

Found at: [551.508.4 BAN \(Books\)](#)

Barrett, E.C.
Climatology from satellites
London, Methuen, 1974

Found at: [551.508.82 BAR \(Books\)](#)

Barrett, E.C.
Viewing the weather from space.
Bristol, Longmans, 1967

Found at: [551.508.82 BAR \(Books\)](#)

Barstow, D.
The world's cheapest weather recording instruments.
Weatherwise, Vol. 40 No. 3, 1987, pp.146-148

Found at: [JOURNALS](#)

Bradshaw, P.
An introduction to Turbulence and its measurement.
Oxford, Pergamon Press,

Found at: [551.508.5 BRA \(Books\)](#)

Brock, F.V.
Meteorological measurement systems
Oxford, Oxford University Press, 2001

Found at: [551.508 BRO \(Books\)](#)

Brooks, L.
Wind dials and their makers.
Manchester, Portico Library, 2000

Found at: [551.508.5 BRO \(Books\)](#)

Burroughs, W.J.
Watching the world's weather.
Cambridge, Cambridge University Press, 1991

Found at: [551.508.82 BUR \(Books\)](#)

Casella, C.F.
Meteorological instruments.
London, Casella, C.F. and Co., 1958

Found at: [551.508 CAS \(Books\)](#)

[Updated August 2008](#)

Books and pamphlets may be available for loan.

Articles from journals are generally for reference only, audio visual items may be for restricted loan only

Clifton, G.
Directory of British Scientific Instrument Makers 1550-1851.
London, National Maritime Museum and Zwemmer, 1995

Found at: [551.508 CLI \(Books\)](#)

Cobb, A.B.
Weather observation satellites.
New York, Rosen Publishing Group, 2003
ISBN: 0823938565

Shelved at [551.501.8 COB \(Books\)](#)

Collins, P.R.
Barographs
Trowbridge, Baros Books, 2002

Found at: [551.508.4 COL \(Books\)](#)

Collins, P.R.
FitzRoy and his barometers.
Trowbridge, Baros Books, 2007

Found at: [551.508.4 COL \(Books\)](#)

Cracknell, A.P.
The Advanced very high resolution radiometer.
London, Taylor & Francis, 1997

Found at: [551.508.2 CRA \(Books\)](#)

Doyle, F.E.
Instrumentation temperature.
Glasgow, Blackie, 1970

Found at: [551.508.2 DOY \(Books\)](#)

Duvernoy, J., Dubois, A.
Training material on meteorology and calibration.
WMO/TD, NO. 1306
Instruments and Observing Methods Report, NO. 86
Geneva, WMO, 2006

Found at: [CD-ROM \(Library CD rack\)](#)

Fritschen, L.J.
Environmental instrumentation.
New York, Springer-Verlang, 1979

Found at: [551.508 FRI \(Books\)](#)

Griffiths, E.
Methods of Measuring Temperature
London, Charles Griffin and Company Ltd., 1918

Found at: [551.508.2 GRI \(Books\)](#)

Grum, F.
Optical Radiation Measurements Vol. 1 Radiometry
New York, Academic Press, 1979

Found at: [551.508.2 GRU \(Books\)](#)

Heard, D.E., editor
Analytical techniques for atmospheric measurement.
Oxford, Blackwell Publishing, 2006

Found at: [551.508 HEA \(Books\)](#)

Henderson, C.
Cloud and Bubble Chambers
London, Methuen, 1970

Found at: [551.508.7 HEN \(Books\)](#)

Insley, J.
"Instruments well adapted to the work": meteorological instruments in 1850 and since.
Weather (R.Met.Soc.), Vol. 55 No. 8, 2000, pp.254-262

Found at: [JOURNALS](#)

Jay, J.P
The museum of meteorological instruments
Meteorological Magazine (UK), Vol. 109, 1980, pp. 246-248

Found at: [JOURNALS](#)

McConnell, A.
Origins of the marine barometer.
Annals of Science Vol.62 No.1, 2005, pp. 83-101

Found at: [PAMPHLET P224 \(MCCO\)](#)

McConnell, A.
No sea too deep. The history of oceanographic instruments.
Bristol, Adam Hilger, 1982

Found at: [551.46.08 MCC \(Books\)](#)

Mather, P.M.
Computer processing of remotely-sensed images. An introduction.
3rd edition Chichester, John Wiley and Sons, 2004

Found at: [621.391 MAT](#)

Met Office
Observers Handbook.
Bracknell, Bracknell Met Office, 2000

Found at: [ORGS UKMO O](#)

Meteorological Office
Handbook of meteorological instruments. Part I and II (M.O, NO. 577)
London, Air Ministry, Meteorological Office, 1956 and 1961

Found at: [551.508 AIR and ORGS UKMO H](#)

Updated August 2008

Books and pamphlets may be available for loan.

Articles from journals are generally for reference only, audio visual items may be for restricted loan only

Meteorological Office

Handbook of meteorological instruments. (2nd ed.) In 7 vol.s. Vol. 6 and 7 with World Meteorological Organization

- Volume 1. Measurement of atmospheric pressure.
- Volume 2. Measurement of temperature
- Volume 3. Measurement of humidity
- Volume 4. Measurement of surface wind
- Volume 5. Measurement of precipitation and evaporation
- Volume 6. Solar and terrestrial radiation
- Volume 7. Measurement of visibility and cloud height.

London, HMSO, 1980-82

Found at: [ORGS UKMO H](#)

Middleton, W.E.K.

The History of the Barometer.

Trowbridge, Cromwell Press, 1994

Found at: [551.508.4 MID \(Books\)](#)

Middleton, W.E.K.

Invention of the meteorological instruments.

Baltimore, John Hopkins Press, 1969

Found at: [551.508 MID \(Books\)](#)

Middleton, W.E.K.

Meteorological instruments.

Toronto, Toronto University Press, 1953

Found at: [551.508 MID \(Books\)](#)

Monteith, J.L.

Survey of instruments for micrometeorology.

Oxford, Blackwell Scientific Publications, 1972

Found at: [551.508 MON \(Books\)](#)

Needham, A.

English Weathervanes. Their stories and legends from Medieval to modern times.

Haywards Heath, Charles Clarke Ltd, 1953

Found at: [551.508.5 NEE \(Books\)](#)

Negretti, E.A.L. & Zambra.

A treatise on meteorological instruments: explanatory of their scientific principles, method of construction, and practical utility

Trowbridge, Baros Books, 1995

Found at: [551.508 NEG \(Books\)](#)

PIC's Bookshop

Sundials and weathervanes

Dorset, Pics Publishing Co., 1992

Found at: [551.508.5 PIC \(Books\)](#)

Updated August 2008

Books and pamphlets may be available for loan.

Articles from journals are generally for reference only, audio visual items may be for restricted loan only

Platt, R.B. and Griffiths, J.F.
Environmental measurement and interpretation.
New York, Reinhold, 1964

Found at: [551.508 PLA \(Books\)](#)

Rider, N.E.
Meteorological instruments. (Set of 34 slides), 1990

Found at: [SLIDE FOLIO SF109 \(ask Library staff for availability\)](#)

Six, J.
The construction and use of a thermometer
London, Nimbus Books, 1980

Found at: [551.508.2 SIX \(Books\)](#)

U.S. National Research Council, Committee on Climate Data Records from NOAA Operational Satellites.
Climate data records from environmental satellites.
Washington, National Academy Press, 2004
ISBN: 0309091683

Found at: [551.58 UNI \(Books\)](#)

Visconti, G., editor, Di Carlo, P., editor, Brune, W.H., editor and others
Observing systems for atmospheric composition: satellite, aircraft, sensor web and ground based observational methods and strategies.
Berlin, Springer, 2007

Found at: [551.501 VIS \(Books\)](#)

World Meteorological Organisation
Guide to meteorological instruments and methods of observation (1996)
Geneva, WMO, 1996
Found at: [ORGS WMO NO. 8](#)

World Meteorological Organization
Papers presented at the WMO technical conference on meteorological and environmental instruments and methods of observation. TECO-2006. Geneva, 4-6 December 2006.
WMO/TD, NO. 1354
Instruments and Observing Methods Report, NO. 94
Geneva, WMO, 2006

Found at: [ORGS WMO/TD NO. CD-ROM \(Library CD rack\)](#)