

Bibliography

Ackerman et al., 1990

S. A. Ackerman, W. L. Smith, J. D. Spinhirne, H. E. Revercomb
The 27-28 October 1986 Fire Ifo Cirrus Case-Study - Spectral Properties of Cirrus Clouds in the 8-12 μ m Window
Monthly Weather Review, vol. 118 (11), p. 2377-2388

Ackerman et al., 1998

S. A. Ackerman, K. I. Strabala, W. P. Menzel, R. A. Frey, C. C. Moeller, L. E. Gumley
Discriminating clear sky from clouds with MODIS
Journal of Geophysical Research-Atmospheres, vol. 103 (D24), p. 32141-32157

Ackerman et al., 2002

S. Ackerman, K. Strabala, P. Menzel, R. Frey, C. Moeller, L. Gumley, B. Baum, S. W. Seeman, H. Zhang
Discriminating Clear Sky from Cloud (Algorithm Theoretical Basis Documents)
NASA Goddard Space Flight Center, ATBD-MOD-06, Version 4 (10.01.2002)
http://modis.gsfc.nasa.gov/data/atbd/atbd_mod06.pdf

Atkinson et al., 1997

P. M. Atkinson, M. E. J. Cutler, H. Lewis
Mapping sub-pixel proportional land cover with AVHRR imagery
International Journal of Remote Sensing, vol. 18 (4), p. 917-935

Atkinson and Tatnall, 1997

P. M. Atkinson, A. R. L. Tatnall
Neural networks in remote sensing - Introduction
International Journal of Remote Sensing, vol. 18 (4), p. 699-709

Anthis and Cracknell, 1999

A. I. Anthis, A. P. Cracknell

Use of satellite images for fog detection (AVHRR) and forecast of fog dissipation (METEOSAT) over lowland Thessalia, Hellas

International Journal of Remote Sensing, vol. 20 (6), p. 1107-1124

Bankert, 1994

R. L. Bankert

Cloud Classification of Avhrr Imagery in Maritime Regions Using a Probabilistic Neural-Network

Journal of Applied Meteorology, vol. 33 (8), p. 909-918

Baum et al., 1997

B. A. Baum, V. Tovinkere, J. Titlow, R. M. Welch

Automated cloud classification of global AVHRR data using a fuzzy logic approach

Journal of Applied Meteorology, vol. 36 (11), p. 1519-1540

BMRC, 2004

Recommendations for the verification and intercomparison of QPFs from operational NWP models

BMRC (Bureau of Meteorology Research Centre),

Joint Working Group on Verification, 2004

<http://www.bom.gov.au/bmrc/wefor/staff/eee/verif/WGNE/>

QPF_verif_recomm.pdf

Chesters et al., 1987

D. Chesters, W. D. Robinson, L. W. Uccellini

Optimized Retrievals of Precipitable Water from the Vas Split Window

Journal of Climate and Applied Meteorology, vol. 26 (8), p. 1059-1066

Cybenko, 1989

G. Cybenko

Approximation by superpositions of a sigmoidal function

Mathematics of Control, Signal and Systems, vol. 2, p. 303-314

Deeter and Evans, 1998

M. N. Deeter, K. F. Evans

A hybrid Eddington single scattering radiative transfer model for computing radiances from thermally emitting atmospheres

Journal of Quantitative Spectroscopy & Radiative Transfer, vol. 60 (4), p. 635-648

Downing and Williams, 1975

H. D. Downing, D. Williams

Optical-Constants of Water in Infrared

Journal of Geophysical Research, vol. 80 (12), p. 1656-1661

Dürr and Philipona, 2004

B. Dürr, R. Philipona

Automatic cloud amount detection by surface longwave downward radiation measurements

Journal of Geophysical Research-Atmospheres, vol. 109 (D5)

Efron, 1979

B. Efron

Bootstrap Methods - Another Look at the Jackknife

Annals of Statistics, vol. 7 (1), p. 1-26

Ernst, 1975

J. A. Ernst

Fog and Stratus Invisible in Meteorological Satellite Infrared (Ir) Imagery

Monthly Weather Review, vol. 103 (11), p. 1024-1026

EUMETSAT, 2001

Meteosat Second Generation - System Overview (EUM TD 07)

EUMETSAT, Issue 1.1 (25.05.2001)

<http://www.eumetsat.int/en/area2/publications/td07.pdf>

EUMETSAT, 2004a

MSG Meteorological Products Extraction Facility

Algorithm Specification Document EUM/MSG/SPE/022

EUMETSAT, Issue 2.6 (01.06.2004)

<http://www.eumetsat.int/en/area2/publications/>

EUMETSAT, 2004b

EUMETCast, EUMETSAT's Broadcast System for Environmental Data

Technical Description EUM TD 15

EUMETSAT, Issue 3.2 (05.09.2004)

<http://www.eumetsat.int/en/area2/publications/td15.pdf>

EUMETSAT, 2004c

History of Major Changes to the MPEF Product Algorithms

EUMETSAT, 23.08.2004

<http://www.eumetsat.int/en/dps/mpef/history.html#MSG>

EUMETSAT, 2004d

Channel Spectral Responses for MSG

EUMETSAT, 16.08.2004

http://www.eumetsat.int/en/area4/msg/missions/212_mis_obs_spectrresp.html

EUMETSAT, 2004e

MSG interpretation guide

EUMETSAT, 2004 (version 1.0)

http://www.eumetsat.int/en/dps/msg/channel_interp/index.html

EUMETSAT, 2005

*MSG Ground Segment - LRIT/HRIT Mission Specific Implementation
(EUM/MSG/SPE/057)*
EUMETSAT, Issue 5 (04.02.2005)
http://www.eumetsat.int/en/area2/publications/spe_057_5.pdf

Evans and Haigh, 1995

S. J. Evans, J. D. Haigh
The Retrieval of Total Optical Depth and Effective Droplet Radius of Clouds from Solar Reflection Measurements Using the Along-Track Scanning Radiometer-2 (Atsr-2)
Geophysical Research Letters, vol. 22 (6), p. 695-698

Eyre et al., 1984

J. R. Eyre, J. L. Brownscombe, R. J. Allam
Detection of Fog at Night Using Advanced Very High-Resolution Radiometer (Avhrr) Imagery
Meteorological Magazine, vol. 113 (1346), p. 266-271

Fischer and Grassl, 1984

J. Fischer, H. Grassl
Radiative-Transfer in an Atmosphere Ocean System - an Azimuthally Dependent Matrix-Operator Approach
Applied Optics, vol. 23 (7), p. 1032-1039

Foody et al., 1997

G. M. Foody, R. M. Lucas, P. J. Curran, M. Honzak
Non-linear mixture modelling without end-members using an artificial neural network
International Journal of Remote Sensing, vol. 18 (4), p. 937-953

Gao and Wiscombe, 1994

B. C. Gao, W. J. Wiscombe
Surface-Induced Brightness Temperature-Variations and Their Effects on Detecting Thin Cirrus Clouds Using Ir Emission Channels in the 8-12 μm Region
Journal of Applied Meteorology, vol. 33 (4), p. 568-570

Geman et al., 1992

S. Geman, E. Bienenstock and R. Doursat
Neural networks and the bias variance dilemma
Neural Computation, vol. 4 (1), p. 1-58

Gerber, 1996

H. Gerber
Microphysics of marine stratocumulus clouds with two drizzle modes
Journal of the Atmospheric Sciences, vol. 53 (12), p. 1649-1662

Götsche and Olesen, 2001

F. M. Götsche, F. S. Olesen

Modelling of diurnal cycles of brightness temperature extracted from METEOSAT data

Remote Sensing of Environment, vol. 76 (3), p. 337-348

Giraud et al., 1997

V. Giraud, J. C. Buriez, Y. Fouquart, F. Parol, G. Seze

Large-scale analysis of cirrus clouds from AVHRR data: Assessment of both a microphysical index and the cloud-top temperature

Journal of Applied Meteorology, vol. 36 (6), p. 664-675

Hahn et al., 1995

C. J. Hahn, S. G. Warren, J. London

The Effect of Moonlight on Observation of Cloud Cover at Night, and Application to Cloud Climatology

Journal of Climate, vol. 8 (5), p. 1429-1446

Hansen, 1971

J. E. Hansen

Multiple scattering of polarized light in a planetary atmosphere. Part II: Sunlight reflected by terrestrial water clouds

Journal of the Atmospheric Sciences, vol. 28, p. 1400-1426

Hansen et al., 1981

J. Hansen, D. Johnson, A. Lacis, S. Lebedeff, P. Lee, D. Rind, G. Russell

Climate Impact of Increasing Atmospheric Carbon-Dioxide

Science, vol. 213 (4511), p. 957-966

Harries and Crommelynck, 1999

J. Harries, D. Crommelynck

The geostationary earth radiation budget experiment on MSG-1 and its potential applications

Satellite Applications for Energy Budgets and the Hydrological Cycle, vol. 24 (7), p. 915-919

Harris and Mason, 1992

A. R. Harris, I. M. Mason

An Extension to the Split-Window Technique Giving Improved Atmospheric Correction and Total Water-Vapor

International Journal of Remote Sensing, vol. 13 (5), p. 881-892

Hartmann et al., 1992

D. L. Hartmann, M. E. Ockertbell, M. L. Michelsen

The Effect of Cloud Type on Earth's Energy-Balance - Global Analysis

Journal of Climate, vol. 5 (11), p. 1281-1304

Henderson-Sellers et al., 1987

A. Hendersonsellers, G. Seze, F. Drake, M. Desbois
Surface-Observed and Satellite-Retrieved Cloudiness Compared for the 1983 Isccp Special Study Area in Europe
Journal of Geophysical Research-Atmospheres, vol. 92 (D4), p. 4019-4033

Hornik et al., 1989

K. Hornik, M. Stinchcombe and H. White
Multilayer feedforward networks are universal approximators
Neural Networks, vol. 2 (5), p. 359-366

Hutchison and Choe, 1996

K. D. Hutchison, N. J. Choe
Application of 1.38 μ m imagery for thin cirrus detection in daytime imagery collected over land surfaces
International Journal of Remote Sensing, vol. 17 (17), p. 3325-3342

Ichoku et al., 2003

C. Ichoku, Y. J. Kaufman, L. Giglio, Z. Li, R. H. Fraser, J. Z. Jin, W. M. Park
Comparative analysis of daytime fire detection algorithms using AVHRR data for the 1995 fire season in Canada: perspective for MODIS
International Journal of Remote Sensing, vol. 24 (8), p. 1669-1690

Inoue, 1987

T. Inoue
A Cloud Type Classification with Noaa 7 Split-Window Measurements
Journal of Geophysical Research-Atmospheres, vol. 92 (D4), p. 3991-4000

Jacobson, 1999

M. Z. Jacobson
Fundamentals of atmospheric modeling
Cambridge University Press, ISBN 0-521-63717-1, p. 283-284

Joseph et al., 1976

J. H. Joseph, W. J. Wiscombe, J. A. Weinman
Delta-Eddington Approximation for Radiative Flux-Transfer
Journal of the Atmospheric Sciences, vol. 33 (12), p. 2452-2459

Kästner and Kriebel, 2001

M. Kästner, K. T. Kriebel
Alpine cloud climatology using long-term NOAA-AVHRR satellite data
Theoretical and Applied Climatology, vol. 68 (3-4), p. 175-195

Kerr et al., 1992

Y. H. Kerr, J. P. Lagouarde, J. Imbernon
Accurate Land Surface-Temperature Retrieval from Avhrr Data with Use of an Improved Split Window Algorithm
Remote Sensing of Environment, vol. 41 (2-3), p. 197-209

King et al., 1992

M. D. King, Y. J. Kaufman, W. P. Menzel, D. Tanre
Remote-Sensing of Cloud, Aerosol, and Water-Vapor Properties from the Moderate Resolution Imaging Spectrometer (Modis)
Ieee Transactions on Geoscience and Remote Sensing, vol. 30 (1), p. 2-27

King et al., 1997

M. D. King, S.-C. Tsay, S. E. Platnick, M. Wang, K.-N. Liou
Cloud Retrieval Algorithms: Optical Thickness, Effective Particle Radius, and Thermodynamic Phase (Algorithm Theoretical Basis Documents)
NASA Goddard Space Flight Center, ATBD-MOD-05, Version 5 (23.12.1997)
http://modis.gsfc.nasa.gov/data/atbd/atbd_mod05.pdf

Kriebel et al., 2003

K. T. Kriebel, G. Gesell, M. Kastner, H. Mannstein
The cloud analysis tool APOLLO: improvements and validations
International Journal of Remote Sensing, vol. 24 (12), p. 2389-2408

Kudoh and Noguchi, 1991

J. Kudoh, S. Noguchi
Identification of Fog with Noaa Avhrr Images
Ieee Transactions on Geoscience and Remote Sensing, vol. 29 (5), p. 704-709

Kurucz, 1997

R. L. Kurucz
The solar irradiance by computation
Harvard-Smithsonian Center for Astrophysics, Cambridge, USA, 25.11.1997
<http://kurucz.harvard.edu/>

Lee et al., 1990

J. Lee, R. C. Weger, S. K. Sengupta, R. M. Welch
A Neural Network Approach to Cloud Classification
Ieee Transactions on Geoscience and Remote Sensing, vol. 28 (5), p. 846-855

Lee et al., 1997

T. F. Lee, F. J. Turk, K. Richardson
Stratus and fog products using GOES-8-9 3.9 μ m data
Weather and Forecasting, vol. 12 (3), p. 664-677

Lutz, 2003

H.-J. Lutz

Scenes and Cloud Analysis from Meteosat Second Generation (MSG) Observations
Proceeding of the EUMETSAT Meteorological Satellite Conference,

Weimar, Germany, 29.09. - 03.10.2003

http://www.eumetsat.int/en/area2/proceedings/eump39/docs/2_24_lutz.pdf

McClatchey et al., 1972

R. A. McClatchey, R. W. Fenn, J. E. A. Selby, F. E. Volz, J. S. Garing

Optical properties of the atmosphere (third edition)

Air Force Cambridge Research Laboratories, Report AFCRL-72-0497

Menzel et al., 1983

W. P. Menzel, W. L. Smith, T. R. Stewart

Improved Cloud Motion Wind Vector and Altitude Assignment Using Vas

Journal of Climate and Applied Meteorology, vol. 22 (3), p. 377-384

Mie, 1908

G. Mie

Beiträge zur Optik trüber Medien, speziell kolloidaler Metallösungen

Annalen der Physik, vol. 4, p. 377-445

Mohr, 1971

T. Mohr

Comparison of Satellite and Soil Observations - Cloud Behavior (Cloud Amount Greater Than 4/8) in European North Atlantic Region, April 1, 1966, to March 31, 1967

Meteorologische Rundschau, vol. 24 (4), p. 112-120

Nakajima and King, 1990

T. Nakajima, M. D. King

Determination of the Optical-Thickness and Effective Particle Radius of Clouds from Reflected Solar-Radiation Measurements. I. Theory

Journal of the Atmospheric Sciences, vol. 47 (15), p. 1878-1893

Preusker, 1999

R. Preusker

Fernerkundung des Luftdrucks am Oberrand von Wolken mit Messungen in der O₂A-Bande

Dissertation, publisher J. Fischer, 2001, ISBN 3-931545-19-9

Rathke, 2000

C. Rathke

Fernerkundung mikrophysikalischer Parameter von Grenzschichtwolken aus Fourier-Spektrometermessungen im thermischen Infrarot

Dissertation, publisher J. Fischer, ISBN 3-931545-17-2

Rathke and Fischer, 2000

C. Rathke, J. Fischer

Retrieval of cloud microphysical properties from thermal infrared observations by a fast iterative radiance fitting method

Journal of Atmospheric and Oceanic Technology, vol. 17 (11), p. 1509-1524

Roedel, 1992

W. Roedel

Physik unserer Umwelt: Die Atmosphäre

Springer, ISBN 3-540-54285-X, p. 23, 28, 71

Rojas, 1993

R. Rojas

Theorie der neuronalen Netze: Eine systematische Einführung

Springer Verlag, ISBN 3-540-56353-9, p. 149 et sqq., 165 et sqq., 171, 172, 175 et sqq., 207 et sqq., 225

Rosenfeld and Lensky, 1998

D. Rosenfeld, I. M. Lensky

Satellite-based insights into precipitation formation processes in continental and maritime convective clouds

Bulletin of the American Meteorological Society, vol. 79 (11), p. 2457-2476

Rosenfeld, 2000

D. Rosenfeld

Application of the added MSG spectral information for insights into cloud microstructure and precipitation processes

Proceeding of the EUMETSAT Meteorological Satellite Conference, Bologna, Italy, 29.05. - 02.06.2000

http://www.eumetsat.int/en/area2/proceedings/eump29/pdf/session_3/verbal/rosenfeld.pdf

Rossow, 1989

W. B. Rossow

Measuring Cloud Properties from Space: A Review

Journal of Climate, vol. 2 (3), p. 201-213

Rossow et al., 1993

W. B. Rossow, A. W. Walker, L. C. Garder

Comparison of ISCCP and Other Cloud Amounts

Journal of Climate, vol. 6 (12), p. 2394-2418

Rossow and Garder, 1993a

W. B. Rossow, L. C. Garder

Cloud Detection Using Satellite Measurements of Infrared and Visible Radiances for Isccp

Journal of Climate, vol. 6 (12), p. 2341-2369

Rossow and Garder, 1993b

W. B. Rossow, L. C. Garder

Validation of Isccp Cloud Detections

Journal of Climate, vol. 6 (12), p. 2370-2393

Rossow and Zhang, 1995

W. B. Rossow, Y. C. Zhang

Calculation of Surface and Top of Atmosphere Radiative Fluxes from Physical Quantities Based on Isccp Data Sets.2. Validation and First Results

Journal of Geophysical Research-Atmospheres, vol. 100 (D1), p. 1167-1197

Rothman et al., 2003

L. S. Rothman, A. Barbe, D. C. Benner, L. R. Brown, C. Camy-Peyret,
 M. R. Carleer, K. Chance, C. Clerbaux, V. Dana, V. M. Devi, A. Fayt, J. M. Flaud,
 R. R. Gamache, A. Goldman, D. Jacquemart, K. W. Jucks, W. J. Lafferty,
 J. Y. Mandin, S. T. Massie, V. Nemtchinov, D. A. Newnham, A. Perrin,
 C. P. Rinsland, J. Schroeder, K. M. Smith, M. A. H. Smith, K. Tang, R. A. Toth,
 J. van der Auwera, P. Varanasi, K. Yoshino

The HITRAN molecular spectroscopic database: edition of 2000 including updates through 2001

Journal of Quantitative Spectroscopy & Radiative Transfer, vol. 82 (1-4), p. 5-44

Salisbury and D'Aria, 1992

J. W. Salisbury and D. M. D'Aria

Emissivity of Terrestrial Materials in the 8-14 Mu-M Atmospheric Window

Remote Sensing of Environment, vol. 42 (2), p. 83-106

Salisbury and D'Aria, 1994

J. W. Salisbury and D. M. D'Aria

Emissivity of Terrestrial Materials in the 3-5-Mu-M Atmospheric Window

Remote Sensing of Environment, vol. 47 (3), p. 345-361

Salisbury et al., 1994

J. W. Salisbury, D. M. D'Aria and A. Wald

Measurements of Thermal Infrared Spectral Reflectance of Frost, Snow, and Ice

Journal of Geophysical Research-Solid Earth, vol. 99 (B12), p. 24235-24240

Saunders and Kriebel, 1988

R. W. Saunders, K. T. Kriebel

An Improved Method for Detecting Clear Sky and Cloudy Radiances from Avhrr Data

International Journal of Remote Sensing, vol. 9 (1), p. 123-150

Schmetz et al., 2002a

J. Schmetz, P. Pili, S. Tjemkes, D. Just, J. Kerkmann, S. Rota, A. Ratier

An introduction to Meteosat Second Generation (MSG)

Bulletin of the American Meteorological Society, vol. 83 (7), p. 977-992

Schmetz et al., 2002b

J. Schmetz, P. Pili, S. Tjemkes, D. Just, J. Kerkmann, S. Rota, A. Ratier

Radiometric performance of SEVIRI

Bulletin of the American Meteorological Society, vol. 83 (7), p. ES50-ES51

Schmetz et al., 2002c

J. Schmetz, P. Pili, S. Tjemkes, D. Just, J. Kerkmann, S. Rota, A. Ratier

SEVIRI calibration

Bulletin of the American Meteorological Society, vol. 83 (7), p. ES52-ES53

Schröder et al., 2002

M. Schröder, R. Bennartz, L. Schüller, R. Preusker, P. Albert, J. Fischer

Generating cloudmasks in spatial high-resolution observations of clouds using texture and radiance information

International Journal of Remote Sensing, vol. 23 (20), p. 4247-4261

Schwartz and Govett, 1992

B. Schwartz and M. Govett

A hydrostatically consistent north american radiosonde data base at the forecast systems laboratory, 1946-present (NOAA technical memorandum)

NOAA, Forecast Systems Laboratory, Boulder, Colorado

<http://raob.fsl.noaa.gov/>,

Segelstein, 1981

D. J. Segelstein

The complex refractive index of water

M. S. Thesis, Department of Physics, University of Missouri - Kansas City

Smith et al., 1970

W. L. Smith, H. M. Woolf, W. J. Jacob

A Regression Method for Obtaining Real-Time Temperature and Geopotential Height Profiles from Satellite Spectrometer Measurements and Its Application to Nimbus-3 Sirs Observations

Monthly Weather Review, vol. 98 (8), p. 582-&

Snyder et al., 1998

W. C. Snyder, Z. Wan, Y. Zhang, Y. Z. Feng
Classification-based emissivity for land surface temperature measurement from space
International Journal of Remote Sensing, vol. 19 (14), p. 2753-2774

Sobrino et al., 1991

J. A. Sobrino, C. Coll, V. Caselles
Atmospheric Correction for Land Surface-Temperature Using Noaa-11 Avhrr Channel-4 and Channel-5
Remote Sensing of Environment, vol. 38 (1), p. 19-34

Stephens, 1994

G. L. Stephens
Remote Sensing of the Lower Atmosphere - An Introduction
Oxford University Press, ISBN 0-19-508188-9, p. 219

Stephenson, 2000

D. B. Stephenson
Use of the "odds ratio" for diagnosing forecast skill
Weather and Forecasting, vol. 15 (2), p. 221-232

Stott et al., 2004

P. A. Stott, D. A. Stone, M. R. Allen
Human contribution to the European heatwave of 2003
Nature, vol. 432 (7017), p. 610-614

Strabala et al., 1994

K. I. Strabala, S. A. Ackerman, W. P. Menzel
Cloud Properties Inferred from 8-12 μm Data
Journal of Applied Meteorology, vol. 33 (2), p. 212-229

Warren, 1984

S. G. Warren
Optical-Constants of Ice from the Ultraviolet to the Microwave
Applied Optics, vol. 23 (8), p. 1206-1225

Watts et al., 1998

P. D. Watts, C. T. Mutlow, A. J. Baran, A. M. Zavody
Study on Cloud properties derived from Meteosat Second Generation Observations
EUMETSAT, Final Report ITT no. 97/181, 08.11.1998
http://www.eumetsat.int/en/area2/publications/rep_cloud.pdf

Welch et al., 1992

R. M. Welch, S. K. Sengupta, A. K. Goroch, P. Rabindra, N. Rangaraj, M. S. Navar
*Polar Cloud and Surface Classification Using Avhrr Imagery - an Intercomparison
of Methods*
Journal of Applied Meteorology, vol. 31 (5), p. 405-420

Wilks, 1995

D. S. Wilks
Statistical Methods in the Atmospheric Sciences
Academic Press, Inc., ISBN 0-12-751965-3, p. 248-250

Wiscombe, 1980

W. J. Wiscombe
Improved Mie Scattering Algorithms
Applied Optics, vol. 19 (9), p. 1505-1509

Woodcock, 1976

F. Woodcock
Evaluation of Yes-No Forecasts for Scientific and Administrative Purposes
Monthly Weather Review, vol. 104 (10), p. 1209-1214

Xiong et al., 2004

X. Z. Xiong, R. Storvold, K. Stamnes, D. Lubin
*Derivation of a threshold function for the Advanced Very High Resolution
Radiometer 3.75 μ m channel and its application in automatic cloud discrimination
over snow/ice surfaces*
International Journal of Remote Sensing, vol. 25 (15), p. 2995-3017

