Clouds and the Earth's Radiant Energy System CERES PUBLICATIONS

- Allan, R. P.; 2006; Variability in clear-sky longwave radiative cooling of the atmosphere; J. Geophys. Res, accepted, doi:10.1029/2006JD007304
- Bender F.A.M.; H. Rodhe; R.J. Charlson; A.M.L. Ekman; N. Loeb; 2006; 22 views of the global albedo comparison between 20 GCMs and two satellites; Tellus, 58 (3): 320-330
- Capderou, M.; M. Viollier; 2006; True Along-Track Scan to Improve Radiation Budget Estimations Journal of Atmospheric and Oceanic Technology, 23 1093-1103
- Christopher, S. A.; J. Zhang; Y. J. Kaufman; L. A. Remer; 2006; Satellite-based assessment of top of atmosphere anthropogenic aerosol radiative forcing over cloud-free oceans; Geophys. Res. Lett., 33, L15816 doi:10.1029/2005GL025535
- Clement, A. C.; 2006; The role of the ocean in the seasonal cycle of the Hadley cell; J. Atmos. Sci., In press
- Dong, X.; B. Xi; P. Minnis; 2006; Observational Evidence of Changes in Water vapor, Clouds, and Radiation at the ARM SGP site; Journal of Geophysical Research
- Dong, X.; B. Wielicki; Xi; Y, Hu; G.G. Mace; S. Benson; 2006; Using observations of deep convective systems to constrain atmospheric column absorption in the optically thick limit; J. Geophys. Res
- Dong, X.; B. Xi; P. Minnis; 2006; A climatology of midlatitude continental clouds from ARM SGP site. Part II: Cloud fraction and surface radiative forcing; J. Climate. 19, 1765-1783
- Huang, J.; P. Minnis; B. Lin; Y. Yi; T.-F. Fan; S. Sun-Mack; J. K. Ayers; 2006; Determination of ice water path in ice-over-water cloud systems using combined MODIS and AMSR-E measurements, J. Geophysical Research
- Huang, J.; B. Lin; T. Wang; X. Wang; Y. Hu; Y. Yi; J. K. Ayers; 2006; Satellite-based assessment of possible dust aerosols semi-direct effect on cloud water path over east Asia, J. Geophysical Research 10.1029/2006GL026561
- Huang, J.; P. Minnis; T. Wang; Y. Yi; Y. Hu; S. Sun-Mack; K. Ayers; 2006; The possible influences of Asian dust aerosols on cloud properties and radiative forcing from MODIS and CERES, Journal of Geophysical Research 33, L06824, doi:10.1029/2005GL024724
- Jin, Z.; T.P. Charlock; K. Rutledge; K. Stamnes; Y. Wang; 2006; Analytical solution of radiative transfer in the coupled atmosphere-ocean system with a rough surface; Appl. Opt

- Kato, S.; N. G. Loeb; P. Minnis; J. A. Francis; T. P. Charlock; D. Rutan; E. E. Clouthiaux; S. Sun-Mack; 2006; Seasonal and interannual variations of top-of-atmosphere irradiance and cloud cover over polar regions derived from the CERES data set; Geophys. Res. Letter
- Lee, H.-T.; A. Gruber; R. G. Ellingson; I. Laszlo; 2006; Development of the HIRS Outgoing Longwave Radiation Climate Dataset; J. Atmos. Ocean. Tech.
- Lee, Y.K.; P. Yang; Y.X. Hu; B.A. Baum; N.G. Loeb; B.C. Gao; 2006; Potential nighttime contamination of CERES clear-sky fields of view by optically thin cirrus during the CRYSTAL-FACE campaign; J. Geophys. Res., 111 (D9), D09203
- Lin, B.; B. A. Wielicki; P. Minnis; L. Chambers; K.-M. Xu; Y. Hu; A. Fan; 2006; "The effect of environmental conditions on tropical deep convective systems observed from the TRMM satellite"; J. Climate
- Lin, B.; B. A. Wielicki; P. Minnis; L. Chambers; K.-M. Xu; Y. Hu; A.Fan; 2006; "The effect of environmental conditions on tropical deep convective systems observed from the TRMM satellite"; Journal of Climate
- Lin, B.; B. A. Wielicki; P. Minnis; L. Chambers; K.-M. Xu; Y. Hu; A. Fan; 2006; "The effect of environmental conditions on tropical deep convective systems observed from the TRMM satellite"; J. Clim.
- Loeb, N.G.; S. Kato; K. Loukachine; N. Manalo-Smith; 2006; Angular distribution models for top-of-atmosphere radiative flux estimation from the Clouds and the Earth's Radiant Energy System instrument on the Terra satellite. Part II: Validation; J. Atmos. Ocean. Tech
- Loeb, N.G.; W. Sun; W.F. Miller; K. Loukachine; R. Davies; 2006; Fusion of CERES, MISR and MODIS measurements for top-of-atmosphere radiative flux validation; J. Geophys. Res
- Loeb, N.G.; B.A. Wielicki; W. Su, K. Loukachine; W. Sun; T. Wong; K.J. Priestley; G. Matthews; W.F. Miller; R. Davies; 2006; Multi-instrument comparison of top- of-atmosphere re-flected solar radiation; J. Climate
- Michalsky, J.; GAnderson, J; Barnard, J.; Delamere, C.; Gueymard, S.; Kato, P.; Kiedron, A.; Mccomiskey; P. Ricchiazzi; 2006; Radiative closure studies for clear skies during the ARM 2003 aerosol intensive observation period; J. Geophys. Res., 111, D14, D14S90, 10.1029/2005JD006341
- Min, Q.; B. Lin; 2006; Remote sensing of evapotranspiration and carbon uptake at Harvard Forest; Remote Sensing of Environment, 100, 379-387
- Min, Q.; B. Lin; 2006; Determination of spring onset and growing season duration using satellite measurements; Remote Sensing of Environment

- Minnis, P.; D. R. Doelling; L. Nguyen; W. F. Miller; 2006; Assessment of the visible channel calibrations of the TRMM VIRS and MODIS on Aqua and Terra; Journal of Atmospheric Oceanic Technology
- Minnis, P.; J. Huang; B. Lin; Y. Yi; R. F. Arduini; T.-F. Fan; J. K. Ayers; G. G. Mace; 2006; Ice cloud properties in ice-over-water cloud systems using TRMM VIRS and TMI data; Geophysical Research 10.1029/2006JD007626
- Rutledge, C. K.; G. L. Schuster; T. P. Charlock; F. M. Denn; W. L. Smith Jr, B. E. Fabbri, J. J. Madigan Jr.; R. J. Knapp; 2006; Offshore radiation observations for climate research at the CERES ocean validation experiment A new "laboratory" for retrieval algorithm testing BAMS
- Schuster, G. L.; O. Dubovik; B.N. Holben; 2006; angstrom exponent and bimodal aerosol size distributions; J. Geophys. Res., 111, D07207, doi:10.1029/2005JD006328
- Smirnov, A.; B.Holben; S.Sakerin; D.Kabanov; I.Slutsker; M.Chin; T.Diehl; L.Remer; R.Kahn; A.Ignatov; L.Liu; M.Mishchenko; T.Eck; T.Kosczera; D.Giles; O.Kopelevich; 2006; Ship-based aerosol optical depth measurements in the Atlantic Ocean, comparison with satellite retrievals and GOCART model; Geophys. Res. Lett., 33, L14817, doi:10.1029/2006GL026051
- Smith, G.L; Z. P. Szewczyk; D. A. Rutan; R. B. Lee III; 2006; Comparison of measurements from satellite radiation budget instruments; JGR, Vol. 111, D04101
- Soden, B; I. Held;2006; An assessment of climate feedbacks in coupled ocean-atmosphere models; J. Climate. In Press Spangenberg, D. A.; P. Minnis; M. D. Shupe; M. R. Poellot; Z. Wang; 2006; Mixed-phase cloud detection over the Atmospheric Radiation Measurmeent North Slope of Alaska site from MODIS 6.7 12.0 μm data; Journal of Atmospheric Oceanic Technology
- Sun, W.; B. Lin; 2006; Optical characterization of metallic aerosols JQSRT, 100, 359-372
- Verlinde, H.; J. Y. Harrington; G. M. McFarquhar; V. T. Yannuzzi; A. Avramov; S. Greenberg; N. Johnson; G. Zhang; M. R. Poellot; J. H. Mather; D. D. Turner; E. W. Eloranta; B. D. Zak; A. J. Prenni; J. S. Daniel; G. L. Kok; D. C. Tobin; R. Holz; K. Sassen; D. Spangenberg; P. Minnis; T. P. Tooman; M. D. Ivey; S. J. Richarson; C. P. Bahrmann; P. J. DeMott; A. J. Heymsfield; R. Scholfield; 2006; The Mixed-Phase Arctic Cloud Experiment (M-PACE)

 Bulletin of American Meteorological Society
- Wong, T.; B. A Wielicki; R. B Lee, III; G. L. Smith; K. A. Bush; J. K. Willis; 2006;Reexamination of the Observed Decadal Variability of Earth Radiation Budget using Altitude-corrected ERBE/ERBS Nonscanner WFOV data; Journal of Climate, 19, 4028-4040

Yu H.; Y.J. Kaufman; M. Chin; G. Feingold; L.A. Remer; T.L, Anderson; Y. Balkanskil; N. Bellouin; O. Boucher; S. Christopher; P. DeCola; R. Kahn; D. Koch; N. Loeb; M.S. Reddy; M. Schulz; T. Takemura; M. Zhou; 2006; A review of measurement-based assessments of the aerosol direct radiative effect and forcing; Atmos. Chem. and Physics, 6, 613-666

Zhao, T.; H. Yu; I. Laszlo; M. Chin; 2006; Combing satellite observations and model simulations to derive component aerosol direct radiative effect and forcing at the top of atmosphere for the clear sky over global oceans; J. Geophys. Res.

- Allan, R. P.; A. Slingo; S.F. Milton; I. Culverwell; 2005; Exploitation of Geostationary Earth Radition Budget data using simulations from a numerical weather prediction model: Methodology and data validation; J.Geophys. Res., 110, D14111, 10.1029/2004JD005698
- Anderson; T.L.Charlson; N. Bellouin; O. Boucher; M.Chin; S.A.Christopher; H.J. Haywood; Y.J. Kaufman; S. Kinne; J. Ogren; L.A. Remer; T.Takemura; D. Tanre; O. Torres; C.R.Trepte; B.A. Wielicki; D. Winker; H. Yu; 2005; A-Train strategy for quantifying direct aerosol forcing of climate: Step-wise development of an observational basis for aerosol optical depth, aerosol forcing efficiency, and aerosol anthropogenic fraction; Bulletin of American Meteorological Society 1795-1809
- Anderson, T.L.; R.J., Charlson; N. Bellouin; O. Boucher; M. Chin; S.A.Christopher; H.J. Haywood; Y.J. Kaufman; S. Kinne; J. Ogren; L.A. Remer; T. Takemura; D. Tanre; O. Torres; C.R.Trepte; B.A. Wielicki; D. Winker; H. Yu; 2005; A-Train strategy for quantifying direct aerosol forcing of climate: Step-wise development of an observational basis for aerosol optical depth, aerosol forcing efficiency, and aerosol anthropogenic fraction; Bulletin of American Meteorological Society, 1795-1809
- Anderson, T.L.; R.J., Charlson; N. Bellouin; O. Boucher; M. Chin; S.A.Christopher; H.J. Haywood; Y.J. Kaufman; S. Kinne; J. Ogren; L.A. Remer; T.Takemura; D. Tanre; O. Torres; C.R.Trepte; B.A. Wielicki; D. Winker; H. Yu; 2005; A-Train strategy for quantifying direct aerosol forcing of climate: Step-wise development of an observational basis for aerosol optical depth, aerosol forcing efficiency, and aerosol anthropogenic fraction; Bulletin of American Meteorological Society
- Bertrand, C.; Clerbaux, N.; Ipe, A; Dewitte, S.; Gonzalez, L.; 2005: Angular distribution models, anisotropic correction factors, and mixed clear-scene types: A sensitivity study, IEEE Transactions On Geoscience And Remote Sensing, 43 (1): 92-102.
- Cess R. D.; 2005; Water vapor feedback in climate models; Science 310, 795-796
- Chepfer, H.; V. Noel; P. Minnis; D. Baumgardner; L. Nguyen; G. Raga; M.J. McGill; P. Yang; 2005; Particle Habit in tropical ice clouds during CRYSTAL-FACE: Comparison of two remote sensing techniques with situobservations; Journal of Geophysical Research (10.1029/2004JD005455)
- Chepfer, H.; Dubuisson, M.; M. Chiriaco; S. Sun-Mack; E.R. Riviere; 2005; Negative Brightness temperature differences (11-12um) in cold thick ice clouds: A signature of nitric acid; Journal of Geophysical Research
- Chepfer, H.; P. Minnis; P. Dubiusson; M. Chiriaco; S. Sun-Mack; E.D. Riviere; 2005; Nitric acid particles in cold thick ice clouds observed at global scale: Link with lightning, temperature and upper troposhperic water vapor.; Journal of Geophysical research

- Chiriaco, M.; H. Chepfer; P. Minnis, M. Haeffelin, S. Platnick, D. Baumgardner, P. Dubuisson, M. McGill, V. Noel, J. Pelon, D. Spangenberg, S. Sun-Mack, G. Wind; 2005; Comparison of CALIPSO-like, LaRc and MODIS retrievals of ice cloud properties over SIRTA in France and Florida during CRYSTAL-FACE; Journal of Appl. Meteorol
- Clement, A.C.; R. Seager; R. Murtugudde; 2005; Why Are There Tropical Warm Pools?; Journal of Climate, Vol. 18, No. 24, 5294-5311
- Clement, A. C., 2005: The Sensitivity of the Tropical-mean Radiation Budget, Journal of Climate, in press.
- Coakley, J. A.: Jr., Friedman, M. A.: and Tahnk, W.R.; 2005: Retrievals of cloud properties for partly cloudy imager pixels, Journal of Atmospheric and Oceanic Technology, 22, 3-17.
- Diner D.J.; B.H, Braswell; R. Davies; N. Gobron; J.N. Hu; Y.F. Jin; R.A. Kahn; Y. Knyazikhin; N. Loeb; J.P. Muller; A.W. Nolin; B. Pinty; C.B. Schaaf; G. Seiz; J. Stroeve; 2005; The value of multiangle measurements for retrieving structurally and radiatively consistent properties of clouds, aerosols, and surfaces; Rem. Sens. Environ., 97 (4): 495-518
- Dong, X; 2005; The impact of surface albedo on the retrievals of low-level stratus cloud properties: An update parameterization; Journal of Geophysical Research No.10, L10802.10.1029/2005GL022548.
- Dong, X.; P. Minnis; B. Xi; 2005; A climatology of midlatitude continental clouds from ARM SGP site. Part I: Low-level Cloud Macrophysical, microphysical and radiative properties; J. Climate. 18; 1391-1410
- Halthore, R. N.; Crisp, D.: Schwartz, S.: Anderson, G. P.; Berk, A.; Bonnel, B.; Boucher, O.; Chang, F.-L.; Chou, M.-D.; Clothiaux, E. E.; Dubuisson, P.; Fomin, B.; Fouquart, Y.; Freidenreich, S.; Gautie, C.; Kato, S.; Laszlo, I.; Li, Z.; Mather, J. H.; Fattori, A. P.; Ramaswamy, V.; Ricchiazzi, P.; Shiren, Y.; Trischenko, A.; Wiscombe, W.; 2005: Intercomparison of shortwave radiative transfer codes and measurements, Journal of Geophysical Research, in press.
- Hansen, J.; M. Sato; R. Ruedy; L. Nazarenko; A. Lacis; G. A. Schmidt; G. Russell; I. Aleinov; M. Bauer; S. Bauer; N. Bell; B. Cairns; V. Canuto; M. Chandler; Y, Cheng; A. Del Genio,; G. Feluvegi; E. Fleming; A. Friend; T. Hall; C. Jackman, M. Kelley, N. Kiang, D. Koch, J. Lean, J. Lerner, K. Lo, S. Menon, R. Miller; P. Minnis; T. Novakov; V. Oinas; Ja. Perlwitz; Ju. Perlwitz; D. Rind, D. Romanou; D. Shindell; P. Stone; S. Sun; N. Tausnev; D. Thresher; B. Wielicki; T. Wong; M. Yao; S. Zhang; 2005; Efficacy of climate forcings; Journal of Geophysical Research doi:10.1029/2005JD005776
- Huang, J; P. Minnis; B. Lin; Y. Yi; M. M. Khaiyer; R. F. Arduini; G. G. Mace; 2005 Advanced retrievals of multilayered cloud properties using multi-sensor and multi-spectral measurements; Journal of Geophysical Research, 110 10.1029/2004JD005101

- Ignatov, A.; P. Minnis; N. Loeb; B. Wielicki; W. Miller; S. Sun-Mack; D. Tanre; L. Remer; I. Laszlo; E. Geier; 2005; Two MODIS aerosol products over ocean on the Terra and Aqua CERES SSF datasets; Journal of Atmostpheric Sciences, 52 1008-1031
- Jin, Z.; Charlock, T. P; Smith Jr., W. L.; Rutledge, K.; Cota, G.; Kahn, R.; Redemann, J.; Zhang, T.; Rutan, D.; Rose, F.; 2005; Radiative Transfer Modeling for the CLAMS experiment; Journal of the Atmospheric Sciences 62 (4), 1053 1071
- Jin, Z.; T.P. Charlock; K. Rutledge; G. Cota; R. Kahn; J. Redemann; T. Zhang; D.A. Rutan; F. Rose; 2005; Radiative Transfer Modeling for the CLAMS Experiment; Journal of Atmospheric Sciences 62, 1052-1070
- Kandel, R.; Viollier, M.; 2005: Planetary Radiation Budget, Space Science Reviews, in press.
- Kato, S.; Rose, F. G.; Charlock, T. P.; 2005: Computation of Domain-averaged Irradiance Using Satellite-derived Cloud Properties, Journal of Atmospheric and Oceanic Technology, 22 (2):146-164 February 2005.
- Kato, S.; L. M. Hinkelman; A. Cheng; 2005; Estimate of satellite-derived cloud optical thickness and effective radius errors and their effect on computed domain-averaged irradiances; J. Geophys. Research
- Kratz, D. P.; Mlynczak, M. G.; Mertens, C. J.; Brindley, H.; Gordley, L. L.; Martin-Torres, J.; Miskolczi, F. M.; Turner, D. D., 2005: An inter-comparison of far-infrared line-by-line radiative transfer models, Journal of Quantitative Spectroscopy and Radiative Transfer, 90 (3-4): 323-341.
- Lin, B.;T. Wong; B.A. Wielicki; Y. Hu; 2005; Reply to Comment on "Examination of the decadal tropical mean ERBS Nonscanner radiation data for the Iris hypothesis"; J. Clim., 18, 2128-2131
- Loeb, N.G.; N. Manalo-Smith; 2005; Top-of-atmosphere direct radiative effect of aerosols over global oceans from merged CERES and MODIS observations; J. Climate, 18, 3506-3526
- Luderer, G.; J.A. Coakley, Jr.; W.R. Tahnk; 2005; Using sun glint to check the relative calibration of reflected spectral radiances; Journal of Atmospheric Ocean Technology, 22, 1480-149
- Mace, G. G.; Benson, S.; Kato, S.; 2005: Cloud Radiative Forcing at the ARM Climate Research Facility: Part 2. The Vertical Redistribution of Radiant Energy by Clouds, submitted to the Journal of Geophysical Research.
- Mace, G. G.; Benson, S.; Sonntag, K. L.; Kato, S.; Min, Q.; Minnis, P.; Twohy, C. H.; Poellot, M.; Dong, X.; Long, C.; Zhang, Q.; Doelling, D. R.; 2005: Cloud Radiative Forcing at the ARM Climate Research Facility: Part 1. Technique, Validation, and Comparison to Satellite-Derived Diagnostic Quantities, submitted to the Journal of Geophysical Research.

- Mace, G. G.; Y. Zhang; S. Platnick; M. D. King; P. Minnis; P. Yang; 2005; Evaluation of cirrus cloud properties from MODIS radiances using cloud properties derived from ground-based data collected at the ARM SGP site; Journal Appl. Meteorol., vol. 44, 221-240
- Mitas, C. M.; Clement, A.; 2005: Has the Hadley cell been strengthening in recent decades?, Geophysical Research Letters, 32, Lo3509, doi: 10.1029/2004GL021765.
- Mitas C. M.; A. Clement; 2005; Recent behavior of the Hadley cell and tropical thermodynamics in climate models and reanalyses; Geophys. Res. Lett., 33, L01810, doi:10.1029/2005GL024406
- Myhre G.; F. Stordal; M. Johnsrud; D.J. Diner; I.V. Geogdzhayev; J.M. Haywood; B.N. Holben; T. Holzer-Popp; A. Ignatov; R.A. Kahn; Y.J. Kaufman; N. Loeb; J.V. Martonchik; M.I. Mishchenko; N.R. Nalli; L.A. Remer; M. Schroedter-Homscheidt; D. Tanre; O. Torres; M. Wang; 2005; Intercomparison of satellite retrieved aerosol optical depth over ocean during the period September 1997 to December 2000; Atmos. Chem. and Physics, 5, 1697-1719
- Palikonda, R.; P. Minnis; D. P. Duda; H. Mannstein; 2005; Contrail coverage derived from 2001 AVHRR data over the continental United States of America and surrounding areas; Meteorol Zeitschrift 14(4), 525-536.
- Ramachandran, R; S. A. Christopher; S. Mova; X. Li; H. Conover; K.Keiser; S. Graves; Richard McNider; 2005; Earth Science Markup Language: A Solution to Address Data Format Heterogeneity Problems in Atmospheric Sciences Bulletin of American Meteorological Society, 86(6), 791-794
- Redemann J.; Schmid, B.; Eilers, J. A.; Kahn, R.; Levy, R. C.; Russell, P. B.; Livingston, J. M.; Hobbs, P. V.; Smith Jr., W. L.; Holben, B. N.; 2005: Suborbital measurements of spectral aerosol optical depth and its variability at sub-satellite-grid scales in support of CLAMS, 2001, Journal of the Atmospheric Sciences, 62 (4): 993-1007.
- Schuster; O. Dubovik; B. N. Holben; E. E. Clothiaux; 2005; Inferring black carbon content and specific absorption from Aerosol Robotic Network (AERONET) aerosol retrievals; J. Geophys. Res., 110, D10S17, doi:10.1029/2004JD004548
- Sharon, T.; B. A. Albrecht; H. H. Jonsson; P. Minnis; M. M. Khaiyer; T. M. Van Reken; J. Seinfeld; R. Flagan; 2005; Aerosol and cloud microphysical characteristics of rifts and gradients in maritime stratocumulus clouds; J. Atmos. Sci., 63, 983-997.
- Sharon, T. M.; B. A. Albrecht; H. H. Johnson; P. Minnis; M. M. Khaiyer; T. Van Reken; J. Seinfeld; R. Flagan; 2005; Aerosol and cloud microphysical characteristics of rifts and gradients in maritime stratocumulus clouds; J. Atmos. Sci. 62

- Smith, W. L., Jr.; Charlock, T. P.; Kahn, R.; Vanderlei Martins, J.; Remer, L.; 2005: EOS-TERRA aerosol and radiative flux validation: An overview of the Chesapeake Lighthouse and Aircraft Measurements for Satellites (CLAMS) experiment, Journal of the Atmospheric Sciences, 62(4): 903-918.
- Su, W.; T. P. Charlock; F. G. Rose; 2005; Deriving surface ultraviolet radiation from CERES surface and atmospheric radiation budget: Methodology JGR Vol.110, doi: 10.1029/2005JG005794
- Sun, M.; R. D. Cess; 2005; Improvements in cloud identification over snow/ice surface from ERBE to CERES; Geophys. Res. Lett., 32, doi:10.1029/2004GL022009
- Szewczyk, Z. P.; Smith, G. L.; Priestley, K. J.; 2005: Validation of Clouds and Earth Radiant Energy System instruments aboard the Terra and Aqua satellites, Journal of Geophysical Research Atmospherics, 110 (D2): Art. No. D02103.
- Wielicki, B. A.; T. Wong; N. Loeb; P. Minnis; K. Priestley; R. Kandel; 2005; Changes in Earth's albedo measured by satellites; Science, 308, 825
- Xu, K.-M., Wong, T.; Wielicki, B. A.; Parker, L.; Eitzen, Z. A.; 2005: Statistical Analyses of Satellite Cloud Object Data for Large Ensemble Evaluation of Cloud Models. Part I: Methodology and Preliminary Results, J. Climate, in press.
- Xu, K.-M.; T. Wong; B.A. Wielicki; L. Parker; B. Lin; Z.A. Eitzen1; M. Branson; 2005; Statistical Analyses of Satellite Cloud Object Data from CERES. Part II: Tropical Convective Cloud Objects During 1998 El Niòo and Validation of the Fixed Anvil Temperature Hypothesis; J. Climate
- Zhang, M. H.; W. Y. Lin; S. A. Klein; J. T. Bacmeister; S. Bony; R. T. Cederwall; A. D. Del Genio; J. J. Hack; N. G. Loeb; U. Lohmann; P. Minnis; I. Musat; R. Pincus; P. Stier; M. J. Suarez; M. J. Webb; J. B. Wu; S. C. Xie; M.-S. Yao; J. H. Zhang; 2005; Comparing clouds and their seasonal variations in 10 atmospheric general circulation models with satellite measurements; Journal of Geophysical Research 110, 10.1029/2004JD005021
- Zhang M.H.; W.Y. Lin; S.A. Klein; J.T. Bacmeister; S. Bony; R.T. Cederwall; A.D. Del Genio; J.J. Hack; N.G. Loeb; U. Lohmann; P. Minnis; I. Musat; R.Pincus; P. Stier; M.J. Suarez; M.J. Webb; J.B. Wu; S.C. Xie; M.S. Yao; J.H.Zhang; 2005; Comparing clouds and their seasonal variations in 10 atmospheric general circulation models with satellite measurements; J. Geopys. Res., 110 (D15), D15S02
- Zhang, J; S. A. Christopher; L. A. Remer; Y. J. Kaufman; L. A. Remer; Y. J. Kaufman; 2005; Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 1. Angular models for Aerosols; J. Geophys. Res., 110, D10S23, doi:10.1029/2004JD005008
- Zhang, J.; S.A. Christopher; L.A. Remer; Y.J. Kaufman; 2005 Shortwave aerosol radiative forcing over cloud-free oceans from Terra: 2. Seasonal and global distributions; J. Geophysical Research-Atmospheres, D10, S24,doi:10.1029/2004jd005009

Zhao, T.; I. Laszlo; P. Minnis; L. Remer; 2005; Comparison and analysis of two aerosol retrievals over the ocean in the Terra/Clouds and the Earth's Radiant Energy System - Moderate Resolution Imaging Spectroradiometer single scanner footprint data: 1. Global evaluation; Journal of Geophysical Research, 110 D21209, doi:10.1029/2005JD005852

Zhao, T.; I. Laszlo; P. Minnis; L. Remer; 2005; Comparison and analysis of two aerosol retrievals over the ocean in the Terra/Clouds and the Earth's Radiant Energy System - Moderate Resolution Imaging Spectroradiometer single scanner footprint data: 2. Regional evaluation; Journal of Geophysical Research, 110 D21209, doi:10.1029/2005JD005852

- Allan, R. P.; M. A. Ringer; J. A. Pamment; A. Slingo; 2004; Simulation of the Earth's radiation budget by the European Centre for Medium Range Weather Forecasts 40-year Reanalysis (ERA40); J.Geophys. Res., 109, D18107, doi:10.1029/2004JD004816
- Ba, M. B.; Ellingson, R. G.; Gruber, A.; 2004: Enhancement of ERBS data by using data from sounders onboard NPP/NPOESS and METOP satellites, Climate Change Processes In The Stratosphere, Earth-Atmosphere-Ocean Systems, And Oceanographic Processes From Satellite Data, 33 (7): 1132-1135, book series title: Advances In Space Research.
- Christopher, S. A; Zhang, J. L.; 2004: Cloud-free shortwave aerosol radiative effect over oceans: Strategies for identifying anthropogenic forcing from Terra satellite measurements, Geophysical Research Letters, 31 (18): Art. No. L18101.
- Costa, M. J.; Levizzani, V.; Silva, A.M.; 2004: Aerosol characterization and direct radiative forcing assessment over the ocean, Part II: Application to test cases and validation, Journal of Applied Meteorology, 43 (12): 1818-1833.
- Dong, X.; Minnis, P.; Xi, B.; 2004: A climatology of midlatitude continental clouds from ARM SGP site. Part I: Low-level Cloud Macrophysical, microphysical and radiative properties, Journal of Climate, in press.
- Futyan, J. M.; Russell, J. E.; Harries, J. E.; 2004: Cloud radiative forcing in Pacific, African, and Atlantic tropical convective regions, Journal of Climate, 17 (16): 3192-3202.
- Govaerts, Y. M.; Clerici, M.; Clerbaux, N.; 2004: Operational calibration of the Meteosat radiometer VIS band, IEEE Transactions On Geoscience And Remote Sensing, 42 (9): 1900-1914.
- Gupta, S. K.; Kratz, D. P.; Wilber, A. C.; Nguyen, L. C.; 2004: Validation of parameterized algorithms used to derive TRMM-CERES surface radiative fluxes, Journal of Atmospheric and Oceanic Technology, 21 (5): 742-752.
- Hu, Y. X.; Wielicki, B. A.; Yang, P.; Stackhouse, P. W.; Lin, B; Young, D. F.; 2004: Application of deep convective cloud albedo observation to satellite-based study of the terrestrial atmosphere: Monitoring the stability of spaceborne measurements and asssessing absorption anomaly, IEEE Transactions On Geoscience And Remote Sensing, 42 (11): 2594-2599.
- Ignatov, A.; Laszlo, I.; Harrod, E.; Kidwell, K.; Goodrum, G.; 2004: Equator Crossing Times for NOAA, ERS and EOS Sun-Synchronous Satellites. International Journal of Remote Sensing, 25, 23, 5255-5266.
- Ignatov, A.; Minnis, P.; Loeb, N.; Wielicki, B.; Miller, W.; Sun-Mack, S.; Tanre, D.; Remer, L.; Laszlo, I.; Geier, E.; 2004: Two Aerosol Products on the Terra and Aqua CERES SSF Datasets, Journal of the Atmospheric Sciences, in press.
- Ignatov, A.; Sapper, J.; Laszlo, I.; Nalli, N.; Kidwell, K.; 2004: Operational Aerosol Observations (AEROBS) from AVHRR/3 onboard NOAA-KLM satellites, Journal of Atmospheric and Oceanic Technology, 21, 3-26.

- Ignatov, A.; P. Minnis; B. Wielicki; N. Loeb; L. Remer; Y. Kaufman; W. Miller; S. Sun-Mack; I. Laszlo; E. Geier; 2004; Consistency of two global MODIS aerosol products over ocean on Terra and Aqua CERES SSF datasets
- Inamdar, A. K.; Ramanathan, V.; Loeb, N. G.; 2004: Satellite observations of the water vapor greenhouse effect and column longwave cooling rates: Relative roles of the continuum and vibration-rotation to pure rotation bands, Journal of Geophysical Research-Atmospheres, 109 (D6): Art. No. D06104.
- Ipe, A.; Bertrand, C.; Clerbaux, N.; Dewitte, S.; Gonzalez, L.; 2004: Validation and homogenization of cloud optical depth and cloud fraction retrievals for GERB/SEVIRI scene identification using Meteosat-7 data, Atmospheric Research, 72 (1-4): 17-37.
- Jin, Z.; Charlock, T. P.; Smith Jr., W. L.; Rutledge, K.; 2004: A parameterization of ocean surface albedo, Geophysical Research Letters, 31, Nov. 16, 2004, 4 pp.
- Kato, S.; Loeb, N. G.; 2004: Top-of-atmosphere shortwave broadband observed radiance and estimated irradiance over polar regions from Clouds and the Earth's Radiant Energy System (CERES) instruments on Terra, Journal of Geophysical Research, in press.
- Le Borgne, P.; Legendre, G.; Marsouin, A.; 2004: Meteosat and GOES-East imager visible channel calibration, Journal of Atmospheric and Oceanic Technology, 21 (11): 1701-1709.
- Li, F.; Vogelmann, A. M.; Ramanathan, V.; 2004: Saharan dust aerosol radiative forcing measured from space, Journal of Climate, 17 (13): 2558-2571.
- Lin, B.; Wong, T.; Wielicki, B. A.; Hu, Y.; 2004: Examination of the decadal tropical mean ERBS nonscanner radiation data for the iris hypothesis, Journal of Climate, 17 (6): 1239-1246.
- Lin, J. L.; Mapes, B. E.; 2004:Radiation budget of the tropical intraseasonal oscillation, Journal of the Atmospheric Sciences, 61 (16): 2050-2062.
- Loeb, N.G.; S. Kato; K. Loukachine; N. M. Smith; 2004; Angular distribution models for top-of-atmosphere radiative flux estimation from the Clouds and the Earth's Radiant Energy System instrument on the Terra Satellite. Part I: Methodology; J. Atmos. Ocean. Tech., 22, 338-351
- Loukachine, K.; Loeb, N. G.; 2004: Top-of-atmosphere flux retrievals from CERES using artificial neural networks, Remote Sensing of Environment, 93 (3): 381-390.
- Lu, R.Y.; Dong, B.W.; Cess, R.D.; Potter, G.L.; 2004; The 1997/1998 El Nino: A test for climate models Geophysical Research Letters, 31, L12216
- Marsden, D.; Valero, F. P. J.; 2004: Observation of water vapor greenhouse absorption over the Gulf of Mexico using aircraft and satellite data, Journal of the Atmospheric Sciences, 61 (6): 745-753.
- Matthews, G.; 2004: Calculation of the static in-flight telescope-detector response by deconvolution applied to point-spread function for the Geostationary Earth Radiation Budget experiment, Applied Optics, 43 (34): 6313-6322.

- Min, Q.; P. Minnis; M. M. Khaiyer; 2004; Comparison of cirrus optical depths from GOES-8 and surface measurements; J. Geophys. Res., 109, No. D20, D20119, 10.1029/2003JD004390
- Minnis, P; Gambheer, A. V.; Doelling, D. R.; 2004: Azimuthal anisotropy of longwave and infrared window radiances from the Clouds and the Earth's Radiant Energy System on the Tropical Rainfall Measuring Mission and Terra satellites, Journal of Geophysical Research-Atmospheres, 109 (D8): Art. No. D08202.
- Parol, F.; Buriez, J. C.; Vanbauce, C.; Riedi, J.; Labonnote, L. C; Doutriaux-Boucher, M.; Vesperini, M.; Seze, G.; Couvert, P.; Viollier, M.; Breon, F. M.; 2004: Review of capabilities of multi-angle and polarization cloud measurements from Polder, Climate Change Processes In The Stratosphere, Earth-Atmosphere-Ocean Systems, And Oceanographic Processes From Satellite Data, 33 (7): 1080-1088, book series title: Advances In Space Research.
- Penner, J. E.; Dong, X.; Chen, Y.; 2004: Observational evidence for a change in radiative forcing due to the indirect aerosol effect, Nature, 427, 231-234.
- Potter, G. L.; Cess, R. D.; 2004: Testing the impact of clouds on the radiation budgets of 19 atmospheric general circulation models, Journal of Geophysical Research, 109, D102106, doi:10.1029/2003JD004018.
- Riyu, R.; Dong, B.; Cess, R. D.; Potter, G. L.; 2004: The 1997/98 El Niño: A test for climate models, Geophysical Research Letters, 31, L12216, doi:10.1029/2004GL019956.
- Sherwood, S. C.; J.-H. Chae; P. Minnis; M. McGill; 2004; Underestimation of deep convective cloud tops by thermal imagery; Geophys. Res. Lett., 31 (11), 10.1029/2004GL019699.
- Smith, G. L.; Wielicki, B. A.; Barkstrom, B. R.; Lee, R. B.; Priestley, K. J.; Charlock, T. P.; Minnis, P.; Kratz, D. P.; Loeb, N.; 2004: Clouds and Earth Radiant Energy System (CERES): An overview, Advances In Space Research, 33, 1125-1131.
- Stephens, G. L.; Webster, P, J.; Johnson, R. H.; Engelen, R.; L'Ecuyer, T.; 2004: Observational evidence for the mutual regulation of the tropical hydrological cycle and tropical sea surface temperatures, Journal of Climate, 17 (11): 2213-2224.
- Sun, M.; Cess, R. D.; 2004: A procedure for evaluating feedback mechanisms in coupled atmosphere/ocean climate models, Geophysical Research Letters, 31, L12215, doi:10.1029/2004GL019876.
- Sun, W. B.; Loeb, N.G.; Kato, S.; 2004: Estimation of instantaneous TOA albedo at 670 nm over ice clouds from POLDER multidirectional measurements, Journal of Geophysical Research-Atmospheres, 109 (D2): Art. No. D02210.
- Sun, W.; Loeb, N.; Lin, B.; 2004: Light scattering by an infinite circular cylinder immersed in an absorbing medium, Applied Optics, 44(12): 2338-2342.
- Sutter, M.; Durr, B.; Philipona, R.; 2004: Comparison of two radiation algorithms for surface-based cloud-free sky detection, Journal of Geophysical Research-Atmospheres, 109 (D17): Art. No. D17202.
- Valero, F. P. J.; Cess, R. D.; Pope, S. K.; 2004: Disagreements over cloud absorption, Science, 305, 1239-1239.

Viollier, M.; Kandel, R.; Raberanto, P.; 2004: Combination of ScaRaB-2 and CERES with Meteosat-5 to remove time sampling bias and improve radiation budget estimations in the INDOEX region, Journal of Geophysical Research-Atmospheres, 109 (D5): Art. No. D05105.

Zhang, Y. C.; Rossow, W. B.; Lacis, A. A.; Oinas, V.; Mishchenko, M. I.; 2004: Calculation of radiative fluxes from the surface to top of atmosphere based on ISCCP and other global data sets: Refinements of the radiative transfer model and the input data, Journal of Geophysical Research-Atmospheres, 109 (D19): Art. No. D19105

- Allan, R. P.; Ringer, M.A.; 2003: Inconsistencies between satellite estimates of longwave cloud forcing and dynamical fields from reanalyses, Geophysical Research Letters, 30 (9): Art. No. 1491.
- Allan, R. P.; Ringer, M.A.; Slingo, A; 2003: Evaluation of moisture in the Hadley Centre climate model using simulations of HIRS water-vapour channel radiances, Quarterly Journal of The Royal Meteorological Society, 129 (595): 3371-3389 Part B.
- Ba, M. B.; Ellingson, R. G.; Gruber, A.; 2003: Validation of a technique for estimating OLR with the GOES sounder, Journal of Atmospheric and Ocnneanic Technology, 20 (1): 79-89.
- Bertrand, C.; Clerbaux, N.; Ipe, A.; Gonzalez, L.; 2003: Estimation of the 2002 Mount Etna eruption cloud radiative forcing from Meteosat-7 data, Remote Sensing of Environment, 87 (2-3): 257-272.
- Bodas-Salcedo, A.; Gimeno-Ferrer, J. F.; Lopez-Baeza, E.; 2003: Flux retrieval optimization with a nonscanner along-track broadband radiometer, Journal of Geophysical Research-Atmospheres, 108 (D2): Art. No. 4061.
- Cess, R. D.; Udelhofen, P. M.; 2003: Climate change during 1985-1999: Cloud interactions determined from satellite measurements, Geophysical Research Letters, 30, 1-4.
- Chambers, L. H. H.; 2003: "Logarithms, Taking the Curve Out" 12_30_02_01, The PUMAS Collection, http://pumas.jpl.nasa.gov.
- Chambers, L. H. H.; Young, D. F.; Costulis, P. K.; Detweiler, P. T.; Stoddard, D. B.; Sepulveda, R.; Watkins, J. D.; Falcone, A.; 2003: The CERES S'COOL Project, Bulletin of the American Meteorological Society, 84 (6): 759-.
- Chandler, W. S.; Brown, D. E.; Whitlock, C. H.; Stackhouse, P. W.; 2003: NASA Climatological Data for Renewable Energy Assessment, accepted for the ASME Journal of Solar Energy Engineering.
- Christopher, S. A.; Wang, J.; Ji, Q.; Tsay, S-C.; 2003: Estimation of Shortwave Dust Aerosol Radiative forcing during PRIDE, Journal of Geophysical Research., 108 (D19): Art. No. 8596.
- Christopher, S. A.; Wang, J.; Ji, Q.; Tsay, S-C.; 2003; Estimation of Shortwave Dust Aerosol Radiative forcing during PRIDE; Journal of Geophysical Research 126 (3), 945 949
- Clerbaux, N.; Dewitte, S.; Gonzalez, L.; Bertrand, C.; Nicula, B.; Ipe, A.; 2003: Outgoing longwave flux estimation: improvement of angular modelling using spectral information, Remote Sensing of Environment, 85 (3): 389-395.
- Clerbaux, N.; Ipe, A.; Bertrand, C.; Dewitte, S.; Nicula, B.; Gonzalez, L.; 2003: Evidence of azimuthal anisotropy for the thermal infrared radiation leaving the Earth's atmosphere, International Journal of Remote Sensing, 24, 14, 3005-3010.

- Cooper, S. J.; L'Ecuyer, T. S.; Stephens, G. L.; 2003: The impact of explicit cloud boundary information on ice cloud microphysical property retrievals from infrared radiances, Journal of Geophysical Research-Atmospheres, 108 (D3): Art. No. 4107.
- Dong, X.; Mace, G.G.; 2003: Arctic stratus cloud properties and radiative forcing derived from ground-based data collected at Barrow, Alaska, Journal of Climate, 16, 445-461.
- Dong, X.; Mace, G.G.; 2003: Profiles of low-level stratus cloud microphysics deduced from ground-based measurements, Journal of Atmospheric and Oceanic Technology, 20, 42-53.
- Donner, L.; 2003: Multiple scales in cumulus convection and their implications for cumulus parameterizations in large-scale models, Geophysical Research Abstracts, 5, EAE03-A-02917.
- Donner, L. J.; Phillips, V. T.; 2003: Boundary-layer control on convective available potential energy: Implications for cumulus parameterization, Journal of Geophysical Research, 108 (D22): Art. No. 4701.
- Ellingson, R. G.; Ba, M. B.; 2003: A study of diurnal variation of OLR from the GOES sounder, Journal of Atmospheric and Oceanic Technology, 20 (1): 90-98.
- Geophysical Fluid Dynamics Laboratory Global Atmosphere Model Development Team, 2003: The GFDL new global atmosphere and land model AM2/LM2: Evaluation with prescribed SST simulations, Journal of Climate, in revision.
- Haywood, J.; Francis, P.; Osborne, S.; Glew, M.; Loeb, N.; Highwood, E.; Tanre, D.; Myhre, G.; Formenti, P.; Hirst, E.; 2003: Radiative properties and direct radiative effect of Saharan dust measured by the C-130 aircraft during SHADE: 1. Solar spectrum, Journal of Geophysical Research-Atmospheres, 108 (D18): Art. No. 8577.
- Ho, S.-P.; B. Lin; P. Minnis; T.-F. Fan; 2003; Estimation of cloud vertical structure and water amount over tropical oceans using VIRS and TMI data; Journal of Geophys. Research, 108 (D14), 4419, 10.1029/2002JD003298
- Hsu, N. C.; Herman, J. R.; Tsay, S. C.; 2003: Radiative impacts from biomass burning in the presence of clouds during boreal spring in southeast Asia, Geophysical Research Letters, 30 (5): Art. No. 1224.
- Ignatov A.; 2003: Spurious Signals in the TRMM/VIRS Reflectance Channels and their Effect on Aerosol Retrievals, Journal of Atmospheric and Oceanic Technology, 20, 8, 1120-1137.
- Ipe, A.; Clerbaux, N.; Bertrand, C.; Dewitte, S.; Gonzalez, L.; 2003: Pixel-scale composite top-of-the-atmosphere clear-sky reflectances for Meteosat-7 visible data, Journal of Geophysical Research-Atmospheres, 108 (D19): Art. No. 4612.
- Jensen, M. P.; Del Genio, A. D.; 2003: Radiative and microphysical characteristics of deep convective systems in the tropical western Pacific, Journal of Applied Meteorology, 42 (9): 1234-1254.
- Jin, Y. F.; Schaaf, C. B.; Woodcock, C. E.; Gao, F.; Li, X. W.; Strahler, A. H.; Lucht, W.; Liang, S. L.; 2003: Consistency of MODIS surface bidirectional reflectance distribution function and albedo retrievals: 2. Validation, Journal of Geophysical Research-Atmospheres, 108 (D5): Art. No. 4159.

- Kato, S.; 2003: Computation of domain-averaged shortwave irradiance by a one-dimensional algorithm incorporating correlations between optical thickness and direct incident radiation, Journal of the Atmospheric Sciences, 60, 182-193.
- Kato, S.; Loeb, N. G.; 2003: Twilight irradiance reflected by the earth estimated from Clouds and the Earth's Radiant Energy System (CERES) measurements, Journal of Climate, 16 (15): 2646-2650.
- L'Ecuyer, T. S.; Stephens, G. L.; 2003: The tropical oceanic energy budget from the TRMM perspective, part I: Algorithm and uncertainties, Journal of Climate, 16 (12): 1967-1985,
- Lin, B.; P. Minnis; A. Fan; 2003; Cloud liquid water amount variations with temperature observed during the SHEBA experiment; Journal of Geophysical Research, 108, 10.1029/2002JD002851
- Liu, X.; Wang, J.; Christopher, S. A.; 2003: Shortwave direct radiative forcing of dust aerosols over the Atlantic Ocean, Internation Journal of Remote Sensing, 24(24), 5147-5160.
- Loeb, N. G.; Manalo-Smith, N.; Kato, S.; Miller, W. F.; Gupta, S. K.; Minnis, P; Wielicki, B. A.; 2003: Angular distribution models for top-of-atmosphere radiative flux estimation from the clouds and the Earth's Radiant Energy System instrument on the Tropical Rainfall Measuring Mission satellite, part I: Methodology, Journal of Applied Meteorology, 42 (2): 240-265.
- Loeb, N. G.; Smith, N.-M.; Kato, S.; Miller, W. F.; Gupta, S. K.; Minnis, P.; Wielicki, B. A.; 2003: Angular distribution models for top-of atmosphere radiative flux estimation from the Clouds and the Earth's Radiant Energy System instrument on the Tropical Rainfall Measuring Mission Satellite, Journal of Applied Meteorology, 42 (12): 1748-1769.
- Loukachine, K.; Loeb, N. G.; 2003: Application of an artificial neural network simulation for top-of-atmosphere radiative flux estimation from CERES, Journal of Atmospheric and Oceanic Technology, 20 (12): 1749-1757.
- Markowicz, K. M.; Flatau, P. J.; Quinn, P. K.; Carrico, C. M.; Flatau, M. K.; Vogelmann, A. M.; Bates, D.; Liu, M.; Rood, M. J.; 2003: Influence of relative humidity on aerosol radiative forcing: An ACE-Asia Experiment perspective, Journal of Geophysical Research, 108(D23) Art. No. 8662.
- Markowicz, K. M.; Flatau, P. J.; Vogelmann, A. M.; Quinn, P. K.; Welton, E. J.; 2003: Clear-sky infrared aerosol radiative forcing at the surface and the top of the atmosphere, Quarterly Journal of The Royal Meteorological Society, 129 (594): 2927-2947 Part A.
- Matrosov, S. Y.; Shupe, M. D.; Heymsfield, A. J.; Zuidema, P.; 2003: Ice Cloud Optical Thickness and Extinction Estimates from Radar Measurements, Journal of Applied Meteorology, 42, 1584-1596.
- Miller, A. J.; Zhou, S.; Yang, S-K; 2003: Relationship of the Arctic and Antarctic Oscillation to the Outgoing Longwave Radiation, Journal of Climate, V16. 1583-1592.

- Myhre, G.; Stordal, F.; Johnsrud, M.; Ignatov, A.; Mishchenko, M.; Geogdzhaeyev, I.; Tanre, D.; Goloub, P.; Nakajima, T.; Higurashi, A.; Torres, O.; Holben, B.; 2003: Intercomparison of satellite retrieved aerosol optical depth over ocean, Journal of the Atmospheric Sciences, accepted.
- Parkinson, C. L.; 2003: Aqua: An earth-observing satellite mission to examine water and other climate variables, IEEE Transactions On Geoscience And Remote Sensing, 41 (2): 173-183.
- Pilewskie, P.; Pommier, J.; Bergstrom, R.; Gore, W.; Howard, S.; Rabbette, M.; Schmid, B.; Hobbs, P. V.; Tsay, S. C.; 2003: Solar spectral radiative forcing during the Southern African Regional Science Initiative, Journal of Geophysical Research-Atmospheres, 108 (D13): Art. No. 8486.
- Randall, D. A.; Schlesinger, M. E.; Galin, V.; Meleshko, V.; Morcrette, J.-J.; Wetherald, R.; 2003: Cloud Feedbacks. In "Frontiers in the Science of Climate Modeling," Cambridge University Press, in press.
- Ruddiman, W. F.; 2003: The Anthropogenic Greenhouse Era Began Thousands of Years Ago, Climatic Change, Volume 61, Issue 3.
- Smith, G. L.; Rutan, D. A.; 2003: The Diurnal Cycle of Outgoing Longwave Radiation from Earth Radiation Budget Experiment Measurements, Journal of the Atmospheric Sciences, Vol. 60 No. 13, pp. 1529-1542.
- Tanre, D.; Haywood, J.; Pelon, J.; Leon, J. F.; Chatenet, B.; Formenti, P.; Francis, P.; Goloub, P.; Highwood, E. J.; Myhre, G.; 2003: Measurement and modeling of the Saharan dust radiative impact: Overview of the Saharan Dust Experiment (SHADE), Journal of Geophysical Research-Atmospheres, 108 (D18): Art. No. 8574.
- Tian, B.; Ramanthan, V.; 2003: A Simple Moist Tropical Atmosphere Model: Role of Cloud Radiative Forcing, Journal of Climate, 16, 2086-2092.
- Valero, F. P. J.; Pope, S. K.; Bush, B. C.; Nguyen, Q.; Marsden, D.; Cess, R. D.; Simpson-Leitner, A. S.; Bucholtz A.; Udelhofen, P. M.; 2003: Absorption of solar radiation by the clear and cloud atmosphere during the Atmospheric Radiation Measurement Enhanced Shortwave Experiments (ARESE) I and II: Observations and models, Journal of Geophysical Research, 108, 9/1-9/14.
- Vogelmann, A.M.; Bates, D.; Liu; Rood; Markowicz; Flatau; Quinn; Carrico; 2003; Influence of relative humidity on aerosol radiative forcing: An ACE-Asia Experiment perspective; Journal of Geophysical Research, 108(D23) Art. No. 8662
- Wang, P. H.; Minnis, P.; Wielicki, B. A.; Wong, T.; Cess, R. D.; Zhang, M.; Vann, L. B.; Kent, G. S.; 2003: Characteristics of the 1997/1998 El Niño cloud distributions from SAGE II observations, Journal of Geophysical Research, 108, 5/1-5/11.
- Wilcox, E. M.; 2003: Spatial and Temporal Scales of Precipitating Tropical Cloud Systems in Satellite Imagery and the NCAR CCM3, Journal of Climate, 16, 3545-3559.
- Yano, J.-L.; Donner, L.; Yin, Y.; Lawrence, M.; Mari, C.; Stohl, A.; 2003: Report: Workshop on moist convection, mesoscale processes, and convective transport of trace gases and aerosols, EOS, 84, 327.

- Zhang, J.; Christopher, S. A.; 2003: Longwave Radiative Forcing of Dust Aerosols over the Saharan Desert estimated from MODIS, MISR, and CERES observations from Terra, Geophysical Research Letters, 30 (23): Art. No. 2188.
- Zhao, T. X. P.; Laszlo, I.; Holben, B. N.; Pietras, C.; Voss, K. J.; 2003: Validation of two-channel VIRS retrievals of aerosol optical thickness over ocean and quantitative evaluation of the impact from potential subpixel cloud contamination and surface wind effect, Journal of Geophysical Research-Atmospheres, 108 (D3): Art. No. 4106.
- Zhao, X.; Laszlo, I.; Dubovik, O.; Holben, B. N.; Sapper, J.; Tanrè, D.; Pietras, C.; 2003: Study the effect of nonspherical dust particles on the AVHRR aerosol optical thickness retrievals, Geophysical Research Letters, Journal of Geophysical Research, 30 (6): Art. No. 1317.

- Allan, R. P.; Ringer, M.A.; 2002: Influence of dynamics on the changes in tropical cloud radiative forcing during the 1998 El Nino, Journal of Climate, 15 (14): 1979-1986.
- Allan, R. P.; Slingo, A.; 2002: Can current climate model forcings explain the spatial and temporal signatures of decadal OLR variations?, Geophysical Research Letters, 29 (7): Art. No. 1141.
- Almasri, M.; Celik-Butler, Z.; Butler, D. P.; Yaradanakul, A.; Yildiz, A.; 2002: Uncooled multimirror broad-band infrared microbolometers, Journal of Microelectromechanical Systems, 11 (5): 528-535.
- Andronache, C.; Donner, L. J.; Seman, C. J.; Hemler, R. S.; 2002: A study of the impact of ITCZ on aerosols during INDOEX, Journal of Geophysical Research, 107, doi:10.1029/2001JD900248.
- Chambers, L. H.; Lin, B.; Wielicki, B. A.; Hu, Y. X.; Xu, K. M.; 2002: Reply to Comments on "The Iris Hypothesis: A Negative or Positive Cloud Feedback?," Journal of Climate, Vol. 15, No. 18, pp. 2716-2717.
- Chambers, L. H.; Lin, B.; Young, D. F.; 2002: Examination of new CERES data for evidence of tropical Iris feedback, Journal of Climate, 15 (24): 3719-3726.
- Chen, J. Y.; Carlson, B. E.; Del Genio, A. D.; 2002: Evidence for strengthening of the tropical general circulation in the 1990s, Science, 295 (5556): 838-841;
- Chen, T.; Rossow, W; B.; 2002: Determination of top-of-atmosphere longwave radiative fluxes: A comparison between two approaches using ScaRaB data, Journal of Geophysical Research-Atmospheres, 107 (D7-8): Art. No. 4070.
- Chepfer, H.; Minnis, P.; Young, D. F.; Nguyen, L.; Arduini, R. F.; 2002: Estimation of cirrus cloud effective ice crystal shapes using visible reflectances from dual-satellite measurements, Journal of Geophysical Research., 107 (D23), 10.1029/2000JD000240.
- Chiacchio, M.; Francis, J.A.; Stackhouse, P.; 2002: Evaluation of methods to estimate the surface downwelling longwave flux during Arctic winter, Journal of Applied Meteorology, 41, 306-318.
- Chou, M. D.; Chan, P. K.; Wang, M. H.; 2002: Aerosol radiative forcing derived from SeaWiFS-retrieved aerosol optical properties, Journal of the Atmospheric Sciences, 59 (3): 748-757.
- Chou, M. D.; Lindzen, R. S.; 2002: Comments on "Tropical convection and the energy balance at the top of the atmosphere," Journal of Climate, 15 (17): 2566-2570.
- Christopher, S. A.; Zhang, J.; 2002: Shortwave aerosol radiative forcing from MODIS and CERES observations over the oceans, Geophysical Research Letters, 29(18), 1859, doi: 10.1029/2002GL014803.
- Christopher, S. A.; Zhang, J.; 2002: Daytime variation of shortwave direct radiative forcing of biomass burning aerosols from GOES-8 imager, Journal of the Atmospheric Sciences, 59 (3): 681-691.

- Christopher, S. A.; Zhang, J.; Holben, B. N.; Yang, S-K; 2002: GOES-8 and NOAA-14 AVHRR Retrieval of Smoke Aerosol Optical Thickness, International Journal of Remote Sensing, V23, 4931-4944.
- Coakley, Jr., J. A.; 2002: Reflectance and albedo, surface, Encyclopedia of the Atmosphere, Academic Press, 1914-1923.
- Coakley, Jr., J. A.; Tahnk, W. R.; Jayaraman, A.; Quinn, P. K.; Devaux, C.; Tanré, D.; 2002: Aerosol optical depths and direct radiative forcing for INDOEX derived from AVHRR: Theory, Journal of Geophysical Research, 107, INX2, 8, 1-18, 10.1029/2000JD000182.
- Del Genio, A. D.; Kovari, W.; 2002: Climatic properties of tropical precipitating convection under varying environmental conditions, Journal of Climate, 15 (18): 2597-2615.
- Dong, X.; Minnis, P.; Mace, G. G.; Smith, Jr., W. L.; Poellot, M.; Marchand, R. T.; Rapp, A. D.; 2002: Comparison of stratus cloud properties deduced from surface, GOES, and aircraft data during the March 2000 ARM Cloud IOP, Journal of the Atmospheric Sciences, 59, 3256-3284.
- Donner, L. J.; 2002: Uncertainty in modeling atmospheric physical processes: What are the implications for modeling weather and climate?, Outlook, 2, 1-6.
- Duda, D. P.; Minnis, P.; 2002: Observations of aircraft dissipation trails from GOES, Monthly Weather Review, 130, 398-406.
- Fowler, L. D.; Randall, D. A.; 2002: Interactions between cloud microphysics and cumulus convection in a general circulation model. Journal of the Atmospheric Sciences, 59, 3074-3098.
- Han, Q. Y.; Rossow, W. B.; Chou, J.; Welch, R. M.; 2002: Three Different Behaviors of Liquid Water Path of Water Clouds in Aerosol-Cloud Interactions, Journal of the Atmospheric Sciences, 59, 726-735.
- Ignatov A.; 2002: Sensitivity and Information Content of Aerosol Retrievals from AVHRR: Radiometric Factors, Appled Optics, 46, 6, 991-1011.
- Ignatov A.; Nalli, N.; 2002: Aerosol Retrievals from Multi-Year Multi-Satellite AVHRR Pathfinder Atmosphere (PATMOS) Dataset for Correcting Remotely Sensed Sea Surface Temperatures, Journal of Atmospheric and Oceanic Technology, 19, 12, 1986-2008.
- Ignatov A.; Stowe, L.; 2002: Aerosol Retrievals from Individual AVHRR Channels: I. Retrieval Algorithm and Transition from Dave to 6S Radiative Transfer Model, Journal of the Atmospheric Sciences, 59, 3(1), 313-334.
- Ignatov A.; Stowe, L.; 2002: Aerosol Retrievals from Individual AVHRR Channels: II. Quality Control, Probability Distribution Functions, Information Content, and Consistency Checks of Retrievals, Journal of the Atmospheric Sciences, 59, 3(1), 335-362.
- Inoue, T.; Ackerman, S. A.; 2002: Radiative effects of various cloud types as classified by the split window technique over the eastern sub-tropical pacific derived from collocated ERBE and AVHRR data, Journal of The Meteorological Society Of Japan, 80 (6): 1383-1394.

- Intrieri, J. M.; Fairall, C. F.; Shupe, M. D.; Persson, O. G. P.; Andreas, E. L.; Moritz, R.M.; 2002: Loud forcing over the Arctic, Journal of Geophysical Research, 2002b: Vol. 107, No. C10, 8039, doi:10.1029/2000JC000439.
- Intrieri, J. M.; Shupe, M. D.; Uttal, T.; McCarty, B.J.; 2002; An Annual Cycle of Arctic Cloud Geometry and Phase from Radar and lidar at SHEBA; Journal Geophysical Research, Vol. 107, No. C10, 8030, 10.1029/2000JC000423
- Intrieri, J. M.; Shupe, M. D.; Uttal, T.; McCarty, B.J.; 2002: An Annual Cycle of Arctic Cloud Geometry and Phase from Radar and lidar at SHEBA, Journal of Geophysical Research, Vol. 107, No. C10, 8030, 10.1029/2000JC000423.
- Jin, Z.; Charlock, T. P.; Rutledge, K.; 2002: Analysis of broadband solar radiation and albedo over the ocean surface at COVE, Journal of Atmospheric and Oceanic Technology, 19, 1585-1601.
- Kanamitsu, M.; Ebisuzaki, W.; Wollen, J.; Yang, S-K; Hnilo, J.J; Fiorino M.; Potter, G.L.; 2002: NCEP/DOE AMIP-II Reanalysis R-2), Bulletin of The American Meteorological Society, V82, 1631-1643.
- Kato, S; Loeb, N. G.; Rutledge, C. K.; 2002: Estimate of top-of-atmosphere albedo for a molecular atmosphere over ocean using Clouds and the Earth's Radiant Energy System measurements, Journal of Geophysical Research-Atmospheres, 107 (D19): Art. No. 4396.
- Key, J. R., Yang, P. Y., Baum, B. A., Nasiri, S. L.; 2001: Parameterization of shortwave ice cloud optical properties for various particle habits, Journal of Geophysical Research, 107(D13):Art. No. 4181.
- Kaufman, Y. J.; Tanre, D.; Boucher, O.; 2002: A satellite view of aerosols in the climate system, Nature, 419 (6903): 215-223.
- Kratz, D. P.; Priestley, K. J.; Green, R. N.; 2002: Establishing the Relationship between the CERES Window and Total Channel Measured Radiances for Conditions Involving Deep Convective Clouds at Night, Journal of Geophysical Research, 107(D15), 10.1029/2001JD001170.
- Li, F.; Ramanathan, V.; 2002: Winter to Summer Monsoon Variation of Aerosol Optical Depth Over the Tropical Indian Ocean, Journal of Geophysical Research, 107(D16), 4284.
- Lin, B., Wielicki, B. A.; Chambers, L. H.; Hu, Y.; Xu, K-M.; 2002: "The Iris Hypothesis: A Negative or Positive Cloud Feedback?," Journal of Climate, Vol. 15, No. 1, p. 3-7.
- Lin, X.; Fowler, L. D.; Randall, D. A.; 2002: Flying the TRMM satellite in a GCM, Journal of Geophysical Research, 107, 10.1029/2001JD000619.
- Loeb, N. G.; Kato, S.; 2002: Top-of-atmosphere direct radiative effect of aerosols over the tropical oceans from the Clouds and the Earth's Radiant Energy System (CERES) satellite instrument, Journal of Climate, 15 (12): 1474-1484.
- Loeb, N. G.; Kato, S.; Wielicki, B. A.; 2002: Defining top-of-the-atmosphere flux reference level for earth radiation budget studies, Journal of Climate, 15 (22): 3301-3309.
- Lynch, D. K.; Sassen, K.; Del Genio, A.; Heymsfield, A.; Minnis, P.; Platt, M.; Quante, M.; Schumann, U.; Sundqvist, H.; 2002: Cirrus: The Future. Chapter 21 in Cirrus, Oxford University Press, pp. 449-455.

- Marecal, V; Mahfouf, J. F.; 2002: Four-dimensional variational assimilation of total column water vapor in rainy areas, Monthly Weather Review, 130 (1): 43-58.
- Matrosov, S. Y.; Korolev A. V.; Heymsfield, A. J.; 2002: Profiling cloud ice mass and particle characteristic size from Doppler radar measurements, Journal of Atmospheric and Oceanic Technology, 19, 1003-1018.
- Minnis, P.; 2002: Contrails, Encyclopedia of Atmospheric Sciences, Academic Press, pp. 509-520.
- Minnis, P.; 2002: Satellite Remote Sensing of Cirrus, Chapter 7 in Cirrus, Oxford University Press, pp. 147-167.
- Minnis, P.; Nguyen, L; Doelling, D. R.; Young, D. F.; Miller, W. F.; Kratz, D. P.: 2002: Rapid calibration of operational and research meteorological satellite imagers. Part I: Evaluation of research satellite visible channels as references, Journal of Atmospheric and Oceanic Technology, 19 (9): 1233-1249.
- Minnis, P.; Nguyen, L; Doelling, D. R.; Young, D. F.; Miller, W. F.; Kratz, D. P.: 2002:Rapid calibration of operational and research meteorological satellite imagers. Part II: Comparison of infrared channels, Journal of Atmospheric and Oceanic Technology, 19 (9): 1250-1266.
- Mlynczak, M.; 2002: A comparison of space-based observations of the energy budgets of the mesosphere and the troposphere, Journal of Atmospheric and Solar-Terrestrial Physics, 64 (8-11): 877-887.
- Nasiri, S. L.; Baum, B. A.; Heymsfield, A. J.; Yang, P. Y.; Poellet, M. R.; Kratz, D. P.; Hu, Y.; 2002: The Development of Midlatitude Cirrus Models for MODIS Using FIRE-I, FIRE-II, and ARM In-Situ Data, Journal of Applied Meteorology, 41, 197--217.
- Pope, S. K.; Valero, F. P. J.; Collins, W. D.; Minnis, P.; 2002: Comparison of SCARAB, GOES-8, aircraft, and surface observations of the absorption of solar radiation by clouds, Journal of Geophysical Research, 107 (D11), 10.1029/2001JD000672.
- Priestley, K. J.; Wielicki, B. A.; Green, R. N.; Haeffelin, M. P. A.; Lee, R. B.; Loeb, N. G.; 2002: Early radiometric validation results of the CERES Flight Model 1 and 2 instruments onboard NASA'S Terra Spacecraft, Earth's Atmosphere, Ocean and Surface Studies, 30 (11): 2371-2376 2002, book series title: Advances In Space Research.
- Rajeev, K.; Ramanathan, V.; 2002: The Indian Ocean experiment: Aerosol forcing obtained from satellite data, Remote Sensing of Trace Constituents In The Lower Stratosphere, Troposphere and The Earth's Surface: Global Observations, Air Pollution And The Atmospheric Correction, 29 (11): 1731-1740 2002, book series title: Advances In Space Research.
- Roca R.; Viollier, M.; Picon, L.; Desbois, M.; 2002: A multi satellite analysis of deep convection and its moist environment over the Indian Ocean during the Winter Monsoon, Journal of Geophysical Research, 107(D19), 10.1029/2000JD000040.
- Satheesh, S. K.; Ramanathan, V.; Conant, W. C.; Holben, B. N.; Moorthy, K. K.; Loeb, N. G.; Maring, H.; Ogren, J. A.; Podgorny, I. A.; Prospero, J. M.; Savoie, D.; 2002: Chemical, microphysical and radiative effects of Indian Ocean aerosols, Journal of Geophysical Research, 107, AAC 20-1 AAC 20-13.

- Smith, G. L.; Bess, T. D.; Manalo-Smith, N.; Ramanathan, V.; Lee, R. B.; Barkstrom, B. R.; 2002: The CERES 8-12 micron window channel, Earth's Atmosphere, Ocean and Surface Studies, 30 (11): 2377-2382 2002, book series title: Advances In Space Research.
- Smith, G. L.; Pandey, D. K; Lee, R. B.; Barkstrom, B. R.; Priestley, K. J.; 2002: Numerical filtering of spurious transients in a satellite scanning radiometer: Application to CERES, Journal of Atmospheric and Oceanic Technology, 19 (2): 172-182.
- Smith, G. L.; Wilber, A. C.; Gupta, S. K.; Stackhouse, P. W.; 2002: Surface radiation budget and climate classification," Journal of Climate, 15, 1175 1188.
- Stackhouse, P. W.; Whitlock, C. H.; DiPasquale, R. C.; Brown, D. E.; Chandler, W. S.; 2002: Meeting Energy-Sector Needs with NASA Climate Datasets, Earth Observation Magazine, Vol. 11, No. 8, pp.6-10.
- Stephens, G. L.; Vane, D. G.; Boain, R. J.; Mace, G. G.; Sassen, K.; Wang, Z. E.; Illingworth, A. J.; O'Connor, E. J.; Rossow, W. B.; Durden, S. L.; Miller, S. D.; Austin, R. T.; Benedetti, A.; Mitrescu, C.; GroupCloudSat Sci Team; 2002: The cloudsat mission and the a-train A new dimension of space-based observations of clouds and precipitation, Bulletin of The American Meteorological Society, 83 (12): 1771-1790.
- Su, W.; Charlock, T. P.; Rutledge, K.; 2002: Observations of reflectance distribution around sunglint from a coastal ocean platform, Applied Optics, Vol. 41, 7369-7383.
- Sun, W.; Loeb, N.G.; Fu, Q.; 2002: Finite-difference time domain solution of light scattering and absorption by particles in an absorbing medium, Applied Optics, 41, 5728-5743.
- Tahnk, W. R.; Coakley, J. A. Jr.; 2002: Aerosol optical depths and direct radiative forcing for INDOEX derived from AVHRR: Observations, January March, 1996 2002, Journal of Geophysical Research, 107, 10.1029/2000JD000183.
- Tian, B.; Ramanathan, V.; 2002: Role of tropical clouds in surface and atmospheric energy budget, Journal of Climate, 15, 296-305.
- Viollier M.; Standfuss C.; Parol F.; 2002: Monthly means of reflected solar flux from POLDER (ADEOS-1) and comparison with ERBE, ScaRaB and CERES, Geophysical Research Letters, 29, No. 10, 141, 1-4.
- Wang J.; Christopher, S. A.; Reid, J. S.; Maring, H.; Savoie, D.; Holben, B. N.; Livingston, J. M.; Russell, P. B.; Yang, S-K; 2002: GOES-8 Retrieval of Dust Aerosol Optical Thickness over the Atlantic Ocean during PRIDE, Journal of Geophysical Research—Atmosphere, PRIDE Special issue—V108, D19, 8595.
- Wang, P.-H.; Minnis, P.; Wielicki, B. A.; Wong, T.; Vann, L. B.; 2002: Satellite Observations of Long-Term Changes in Tropical Cloud and Outgoing Longwave Radiation From 1985 to 1998, Geophysical Research Letters, 29, No. 10, 37-1-37-4.
- Wielicki, B. A.; Del Genio, A. D.; Wong, T.; Chen, J.; Carlson, B. E.; Allan, R. P.; Robertson, F.; Jacobowitz, H.; Slingo, A.; Randall, D.; Kiehl, J. T.; Soden, B. J.; Gordon, C. T.; Miller, A. J.; Yang, S.-K.; Susskind, J.; 2002: Technical Response: Changes in Tropical Clouds and Radiation, Science, 296, 2095a.

- Wielicki, B. A.; Wong, T. M.; Allan, R. P.; Slingo, A.; Kiehl, J. T.; Soden, B. J.; Gordon, C. T.; Miller, A. J; Yang, S. K.; Randall, D. A.; Robertson, F.; Susskind, J.; Jacobowitz, H.; 2002: Evidence for large decadal variability in the tropical mean radiative energy budget, Science, 295 (5556): 841-844.
- Wielicki, B. A.; Del Genio, A. D.; Wong, T.; Chen, J.; Carlson, B. E.; Allan, R.P.; Robertson, F.; Jacobowitz, H.; Slingo, A.; Randall, D.; Kiehl, J. T.; Soden, B. J.; Gordon, C. T.; Miller, A. J.; Yang, S.-K.; Susskind; 2002; Changes in Tropical Clouds and Radiation Response; Science, 296, 2095
- Wilcox, E. M.; 2002: Spatial and Temporal Scales of Precipitating Tropical Cloud Systems, Ph.D. Thesis, UCSD, La Jolla.
- Woick, H.; Dewitte, S.; Feijt, A.; Gratzki, A.; Hechler, P.; Hollmann, R.; Karlsson, K.G.; Laine, V.; Lowe, P.; Nitsche, H.; Werscheck, M.; Wollenweber, G.; 2002: The satellite application facility on climate monitoring, Earth's Atmosphere, Ocean and Surface Studies, 30 (11): 2405-2410 2002, book series title: Advances In Space Research.
- Xu, K.-M.; Cederwall, R. T.; Donner, L. J.; Grabowski, W. W.; Guichard, F.; Johnson, D. E.; Khairoutdinov, M.; Krueger, S. K.; Petch, J. C.; Randall, D. A.; Seman, C. J.; Tao, W.-K.; Wang, D.; Xie, S. C.; Yio, J. J.; Zhang, M.-H.; 2002: An intercomparison of cloud-resolving models with the Atmospheric Radiation Measurement summer 1997 Intensive Observation Period data, Quarterly Journal of The Royal Meteorological Society, 128, 593-624.
- Zhang, J.; Lohmann, U.; Lin, B.; 2002: A new statistically based autoconversion rate parameterization for use in large-scale models, Journal of Geophysical Research, 107(D24), 4750, doi:10.1029/2001JD001484.
- Zhang, Y.; Li, Z.Q.; Macke, A.; 2002: Retrieval of surface solar radiation budget under ice cloud sky: Uncertainty analysis and parameterization, Journal of the Atmospheric Sciences, 59 (20): 2951-2965.
- Zhao, T. X. P.; Stowe, L. L.; Smirnov, A.; Crosby, D.; Sapper, J.; McClain, C. R.; 2002: Development of a global validation package for satellite oceanic aerosol optical thickness retrieval based on AERONET observations and its application to NOAA/NESDIS operational aerosol retrievals, Journal of the Atmospheric Sciences, 59 (3): 294-312.

- Buriez, J.-C.: Doutriaux-Boucher, M.; Parol, F.; Loeb, N.G.; 2001: Angular variability of the liquid water cloud optical thickness retrieved from ADEOS-POLDER, Journal of the Atmospheric Sciences, 58, 3007-3018.
- Cess, R. D.; Zhang, M. H.; Wang, P.-H.; Wielicki, B. A.; 2001: Cloud structure anomalies over the tropical pacific during the 1997/98 El Nino, Geophysical Research Letters, 28, 4547-4550.
- Cess, R. D.; Zhang, M.; Wielicki, B. A.; Young, D. F.; Zhoou, X-L.; Nikitenko, Y.; 2001: The influence of the 1998 El Nino upon cloud-radiative forcing over the Pacific warm pool, Journal of Climate, 14, 2129-2129.
- Chambers, L. H.; Wielicki, B. A.; Loeb, N. G.; 2001: Shortwave Flux from Satellite-Measured Radiance: A Theoretical Study over Marine Boundary Layer Clouds, Journal of Applied Meteorology, Vol. 40, Dec. 2001, pp. 2144-2161.
- Chou, M. D.; Chan, P. K.; Yan, M. M. H.; 2001: A sea surface radiation data set for climate applications in the tropical western Pacific and South China Sea, Journal of Geophysical Research-Atmospheres, 106 (D7): 7219-7228.
- Clarke, A. D.; Collins, W. D.; Rasch, P. J.; Kapustin, V.; Moore, K.; Howell, S.; 2001: Dust and Pollution transport on global scales: Measurements and model predictions, Journal of Geophysical Research, Vol. 106, 32555-32570.
- Collins, W. D.; Rasch, P. J.; Eaton, B. E.; Khattatov, B. V.; Lamarque, J.-F.; Zender, C. S.; 2001: Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX, Journal of Geophysical Research, Vol. 106, 7313-7336.
- Davis, A. B.; Marshak, A.; 2001: Multiple scattering in clouds: Insights from three-dimensional difusion/P-1 theory, Nuclear Science and Engineering, 137 (3): 251-280
- Dewitte, S.; Joukoff, A.; Crommelynck, D.; Lee, R. B.; Helizon, R.; Wilson, R. S.; 2001: Contribution of the SOLCON program to the long term total solar irradiance observation, Journal of Geophysical Research, Vol. 106, No. A8, pp 759-766.
- Doelling, D. R.; Minnis, P.; Spangenberg, D. A.; Chakrapani, V.; Mahesh, A.; Pope, S. K.; Valero, F. P. J.; 2001: Cloud Radiative Forcing During FIRE ACE Derived from AVHRR Data, Journal of Geophysical Research, 106, 15,279-15,296.
- Dong, X.; Mace, G. G.; Minnis, P.; Young, D. F.; 2001: Arctic stratus cloud properties and their effect on the surface radiation budget: Selected cases from FIRE ACE, Journal of Geophysical Research, 106, 15 297-15 312.
- Donner, L. J.; Seman, C.J.; Hemler, R.S.; Fan, S.; 2001: A cumulus parameterization including mass fluxes, convective vertical velocities, and mesoscale effects: Thermodynamic and hydrological aspects in a general circulation model, Journal of Climate, 14, 3444-3463.
- Duda, D. P.; Minnis, P.; Nguyen, L.; 2001: Estimates of cloud radiative forcing in contrail clusters using GOES imagery, Journal of Geophysical Research, 106, 4927-4937.

- Duvel J. P., Viollier, M.; Raberanto, P.; Kandel, R.; Haeffelin, M.; Pakhomov, L. A.; Golovko, V. A.; Mueller, J.; Stuhlmann, R.; The International ScaRaB Scientific Working Group (ISSWG): The ScaRaB-Resurs Earth radiation budget dataset and first results, Bulletin of The American Meteorological Society, 82 (7): 1397-1408.
- Garreaud, R. D.; Rutllant, J.; Quintana, J.; Carrasco, J.; Minnis, P.; 2001: CIMAR-5: A snapshot of the lower troposphere over the subtropical southeast Pacific, Bulletin of The American Meteorological Society, 92, 2193-2208.
- Gupta, S. K.; Kratz, D. P.; Stackhouse, P. W.; Wilber, A. C.; 2001: "The Langley Parameterized Shortwave Algorithm (LPSA) for Surface Radiation Budget Studies," NASA TP 2002-211272, 31 pp.
- Haeffelin, M.; Kato, S.; Smith, A.; Rutledge, K.; Charlock, T. P.; Mahan, J. R.; 2001: Determination of the thermal offset of the Eppley precision spectral pyranometer, Applied Optics, 40, 472-484.
- Haeffelin, M.; Wielicki, B. A.; Duvel, J. P.; Priestley, K.; Viollier, M.; 2001: Inter-calibration of CERES and ScaRaB Earth radiation budget datasets using temporally and spatially collocated radiance measurements, Geophysical Research Letters, 28 (1): 167-170.
- Herring, D.; 2001: Power to the People! Earth observatory Feature, October 5, available NASA Headquarters and http://earthobservatory.nasa.gov/Study/RenewableEnergy/.
- Hobbs, P. V.; Rangno, A. L.; Shupe, M. D.; Uttal, T.; 2001: Airborne studies of cloud structures over the Arctic Ocean and comparisons with deductions from ship-based 35-GHz radar measurements, Journal of Geophysical Research, 106, 15,029-15,044.
- Hou Arthur Y.; Sara Q. Zhang; Arlindo M. da Silva; William S. Olson; Christian D. Kummerow Joanne Simpson; 2001; "Improving Global Analysis and Short-Range Forecast Using Rainfall and Moisture Observations Derived from TRMM and SSM/I Passive Microwave Sensors"; Bull. Am. Meteor. Soc., 82 (4)
- Hu, Y.; Winker, D.; Yang, P. Y.; Baum, B. A.; Poole, L.; Vann, L.; 2001: Identification of cloud phase from PICASSO-CENA lidar depolarization: A multiple scattering sensitivity study, Journal of Quantitative Spectroscopy and Radiative Transfer, Vol. 70, 569-579.
- Hu, Y.; Winker, D.; Yang, P. Y.; Baum, B. A.; Poole, L.; Vann, L.; 2001; Identification of cloud phase from PICASSO-CENA lidar depolarization: A multiple scattering sensitivity study

 Journal of Quantitative Spectroscopy and Radiative Transfer, Vol. 70, 569-579
- Kato, S.; Mace, G. G; Clothiaux, E. E.; Liljegren, J. C.; Austin, R. T.; 2001; Doppler cloud radar derived drop size distributions in liquid water stratus clouds; Journal of the Atmospheric Sciences, 58, 2895-2911
- Kato, S.; Mace, G. G.; Clothiaux, E. E.; Liljegren, J. C.; Austin, R. T.; 2001: Doppler cloud radar derived drop size distributions in liquid water stratus clouds, Journal of the Atmospheric Sciences, 58, 2895-2911.

- Kato, S.; Smith, G. L.; Barker, H. W.; 2001: Gamma-weighted discrete ordinate two-stream approximation for computation of domain aeragned solar irradiance, Journal of the Atmospheric Sciences, 58, 3,797-3,803.
- Kelly, M. A.; Randall, D. A.; 2001: The effects of the vertical distribution of water vapor on the strength of the Walker Circulation, Journal of Climate, 14, 3944-3964.
- Kelly, M. A.; Randall, D. A.; 2001; A two-box model of a zonal atmospheric circulation in the tropics; Journal of Climate, 14, 3944-3964
- Khairoutdinov, M. F.; Randall, D. A.; 2001: A Cloud Resolving Model as a Cloud Parameterization in the NCAR Community Climate System Model: Preliminary Results, Geophysical Research Letters, 28, 3617-3620.
- Li, Z. Q.; Trishchenko, A. P.; 2001: Quantifying uncertainties in determining SW cloud radiative forcing and cloud absorption due to variability in atmospheric conditions, Journal of the Atmospheric Sciences, 58 (4): 376-389.
- Liljegren, J. C.; Clothiaux, E. E.; Mace, G. G.; Kato, S.; Dong, X.; 2001: A new retrieval for cloud liquid water path using a ground-based microwave radiometer and measurements of cloud temperature, Journal of Geophysical Research, 106, 14485-14500.
- Lin, B.; Minnis, P.; Fan, A.; Curry, J. A.; Gerber, H.; 2001: Comparison of cloud liquid water paths derived from in situ and microwave radiometer data taken during the SHEBA/FIREACE, Geophysical Research Letters, 28, 975-978.
- Loeb, N. G.; Priestley, K. J.; Kratz, D. P.; Geier, E. B.; Green, R. N.; Wielicki, B. A.; Hinton, R. O.; Nolan, S. K.; 2001: Determination of unfiltered radiances from the clouds and the Earth's Radiant Energy System instrument, Journal of Applied Meteorology, 40 (4): 822-835.
- Lucas, L. E.; Waliser, D. E.; Xie, P.; Janowiak, J. E.; Liebmann, B.; 2001: Estimating the satellite equatorial crossing time biases in the daily, global outgoing longwave radiation dataset, Journal of Climate, 14 (12): 2583-2605.
- Miller, S. D.; Stephens, G. L.; 2001: CloudSat instrument requirements as determined from ECMWF forecasts of global cloudiness, Journal of Geophysical Research-Atmospheres, 106 (D16): 17713-17733.
- Minnis, P.; Chakrapani, V.; Doelling, D. R.; Nguyen, L.; Palikonda, R.; Spangenberg, D. A.; Uttal, T.; Arduini, R. F.; Shupe, M.; 2001: Cloud coverage during FIRE ACE derived from AVHRR Data, Journal of Geophysical Research, 106, 15,215-15,233.
- Nordeen, M. L.; Minnis, P.; Doelling, D. R.; Pethick, D.; Nguyen, L.; 2001: Satellite observations of cloud plumes generated by Nauru, Geophysical Research Letters, 28, 631-634.
- Rajeev, K.; Ramanathan, V.; 2001: Direct observations of clear-sky aerosol radiative forcing from space during the Indian Ocean Experiment, Journal of Geophysical Research-Atmospheres, 106 (D15): 17221-17235.
- Ramanathan, V.; Crutzen, P. J.; Lelieveld, J.; Althausen, D.; Anderson, J.; Andreae, M. O.; Cantrell, W.; Cass, G.; Chung, C. E.; Clarke, A. D.; Collins, W. D.; Coakley, J. A.; Dulac, F.; Heintzenberg, J.; Heymsfield, A. J.; Holben, B.; Hudson, J.; Jayaraman, A.;

- Kiehl, J. T.; Krishnamurti, T. N.; Lubin, D.; Mitra, A. P.; McFarquhar, G.; Novakov, T.; Ogren, J. A.; Podgorny, I. A.; Prather, K.; Prospero, J. M.; Priestley, K.; Quinn, P. K.; Rajeev, K.; Rasch, P. J.; Rupert, S.; Sadourney, R.; Satheesh, S. K.; Sheridan, P.; Shaw, G. E.; Valero, F. P. J.; 2001: The Indian Ocean Experiment: An integrated assessment of the climate Forcing and effects of the great Indo-Asian haze, Journal of Geophysical Research, 106 (D22): 28371-28398.
- Ramanathan, V.; Inamdar, A. K.; 2001: The radiative forcing due to clouds and water vapor, Cess Symposium Review Paper, Robert D. Cess Volume, Cambridge University Press.
- Rasch, P.J.; Collins, W. D.; Eaton, B.E.; 2001: Understanding the Indian Ocean Experiment (INDOEX) aerosol distributions with an aerosol assimilation, Journal of Geophysical Research, Vol. 106, 7337-7356.
- Shupe, M. D.; Uttal, T.; Matrosov, S. Y.; Frisch, A. S.; 2001: Cloud Water Contents and Hydrometeor Sizes During the FIRE-Arctic Clouds Experiement, FIRE-ACE Special Issue, Journal of Geophysical Research, 106, 15,015-15,028.
- Standfuss, C; Viollier, M; Kandel, R. S.; Duvel, J. P.; 2001: Regional diurnal albedo climatology and diurnal time extrapolation of reflected solar flux observations: Application to the ScaRaB record, Journal of Climate, 14 (6): 1129-1146.
- Trishchenko, A. P.; Li, Z. Q.; Chang, F. L.; Barker, H.; 2001: Cloud optical depths and TOA fluxes: Comparison between satellite and surface retrievals from multiple platforms, Geophysical Research Letters, 28 (6): 979-.
- Udelhofen, P. M.; Cess, R. D.; 2001: Cloud cover variations over the United States: An influence of cosmic rays or solar variability?, Geophysical Research Letters 28, 2617-2620, 2001.
- Wang, P.-H.; Viega, R. E.; Vann, L. B.; Minnis, P.; Kent, G. S.; 2001: A further study of the method for estimation of SAGE II cloud occurrence, Journal of Geophysical Research, 106(D12): 12603-12613.
- Whitlock, C. H.; Brown, D. E.; Chandler, W. S.; DiPasquale, R. C.; Gupta, S. K.; Wilber, A. C.; Ritchey, N. A.; Kratz, D. P.; Stackhouse, P. W.; 2001: Global Solar Energy Anomalies Including El Nino and La Nina Years, ASME Journal of Solar Energy Engineering, Vol. 23, No. 3, pp. 211-215.
- Wilcox, E. M.; Ramanathan, V.; 2001: Scale Dependence of the Thermodynamic Forcing of Tropical Monsoon Clouds: Results from TRMM Observations, Journal of Climate, Vol. 14, pp. 1511-1524.
- Wu, M. L. C.; Schubert, S.; Lin, C. I.; Stajner, I.; 2001: A method for assessing the quality of model-based estimates of ground temperature and atmospheric moisture using satellite data, Journal of Geophysical Research-Atmospheres, 106 (D10): 10129-10144.
- Yang, P.; Gao, B.-C.; Baum, B. A.; Hu, Y. X.; Wiscombe, W. J.; Mischenko, M. I.; Winker, D. M.; Nasiri, S. L.; 2001: Asymptotic solutions of optical properties of large particles with strong absorption, Applied Optics, 40, 1532-1547.
- Yang, P.; Gao, B.-C.; Baum, B. A.; Hu, Y. X.; Wiscombe, W. J.; Tsay, S.-C.; Winker, D. M.; 2001: Radiative properties of cirrus clouds in the infrared (8-13 mm), Journal of Quantitative Spectroscopy and Radiative Transfer, in press.

- Yang, P.; Gao, B.-C.; Baum, B. A.; Wiscombe, W.; Hu, Y.; Nasiri, S.; Heymsfield, A.; McFarquhar, G.; Miloshevich, L.; 2001: Sensitivity of cirrus bidirectional reflectance to vertical inhomogeneity of ice crystal habits and size distributions, Journal of Geophysical Research, in press.
- Zhou, Y.; Rutledge, K. C.; Charlock, T. P.; Loeb, N. C.; Kato, S.; 2001: Atmospheric correction using MODTRAN for TOA and surface BRDF characteristics from high resolution spectroradiometric / angular measurements from helicopter platform, Advance in Atmospheric Sciences, 18, 984-1004.
- Zhou, Y. P.; Cess, R. D.; 2001: Algorithm development strategies for retrieving the downwelling longwave flux at the Earth's surface, Journal of Geophysical Research Atmospheres, 106, 12,477-12,488.
- Zhou, Y. P.; Cess, R. D.; 2001: Validation of longwave atmospheric radiation models using Atmospheric Radiation Measurements (ARM) data, Journal of Geophysical Research Atmospheres, 105, 29,703-29,716.

- Cess, R. D.; Qian, T.; Sun, M.; 2000: Consistency tests applied to the measurement of total, direct and diffuse shortwave radiation at the surface, Journal of Geophysical Research Atmospheres, 105, 54,881-24,887.
- Chambers, L. H. H.; Costulis, P. K.; Young, D. F.; Green, C. J.; Stoddard, D. B.; Haberer, S. J.; 2000: What is Success? Evaluating S'COOL, an Educational Outreach Project Focused on NASA's CERES Program, EOS, Transactions, American Geophysical Union, Vol. 81, No. 48, p. F302.
- Chang, F. L.; Li, Z. Q.; Ackerman, S. A.; 2000: Examining the relationship between cloud and radiation quantities derived from satellite observations and model calculations, Journal of Climate, 13 (21): 3842-3859.
- Chang, F. L.; Li, Z. Q.; Trishchenko, A. P.; 2000: The dependence of TOA reflectance anisotropy on cloud properties inferred from ScaRaB satellite data, Journal of Applied Meteorology, 39 (12): 2480-2493 Part 1-2.
- Chevallier, F.; Morcrette, J.J.; 2000: Comparison of model fluxes with surface and top-of-the-atmosphere observations, Monthly Weather Review, 128 (11): 3839-3852.
- Christopher, S. A.; Chou, J.; Zhang, J.; Li, X.; Berendes T. A.; Welch, R. M.; 2000: Shortwave direct radiative forcing of biomass aerosols estimated using VIRS and CERES data, Journal of Geophysical Research Letters, 27, 2197-2200.
- Christopher, S. A.; Li, X.; Welch, R. M.; Reid, J. S.; Hobbs, P. V.; Eck, T. F.; Holben, B.; 2000: Estimation of surface and top-of-atmosphere shortwave irradiance in biomass-burning regions during SCAR-B, Journal of Applied Meteorology, 39, 1742-1753.
- Dong, X.; Minnis, P.; Ackerman, T. P.; Clothiaux, E. E.; Mace, G. G.; Long, C. N.; Liljegren, J. C.; 2000: A 25-month Database of Stratus Cloud Properties Generated from Ground-based Measurements at the ARM SGP Site, Journal of Geophysical Research, 105, 4529-4538.
- Duvel, J.-Ph.; Bouffiès-Cloché, S.; Viollier, M.; 2000: Determination of Shortwave Earth Reflectances from visible radiance measurements: Error estimate using ScaRaB data, Journal of Applied Meteorology, 39, 957-970.
- Duvel, J.-Ph.; Raberanto, P.; 2000: A geophysical cross-calibration approach for broadband channels: Application to the ScaRaB experiment, Journal of Atmospheric and Oceanic Technology, 17 (12): 1609-1617.
- Fowler, L. D.; Wielicki, B. A.; Randall, D. A.; Branson, M. D.; Gibson, G. G.; Denn, F. M.; 2000: Use of a GCM to explore sampling issues in connection with satellite remote sensing of the Earth radiation budget, Journal of Geophysical Research-Atmospheres, 105 (D16): 20757-20772.
- Frisch, S.; Martner, B.; Djalalova, I.; Poellot, M.; 2000: Comparisons of Radar/Radiometer Retrievals of Stratus Cloud Liquid Water Content Profiles with in situ Measurements by Aircraft, Journal of Geophysical Research, 105, 15361-15364.

- Grant, I. F.; Prata, A. J.; Cechet, R. P.; 2000: The impact of the diurnal variation of albedo on the remote sensing of the daily mean albedo of grassland, Journal of Applied Meteorology, 39 (2): 231-244.
- Han, Q. Y.; Rossow, W. B.; Chou, J.; Kuo, K.; Welch, R. M.; 2000: Near-global survey of cloud susceptibilities using ISCCP data, Geophysical Research Letters, 27, 3221-3224.
- Hou, Arthur Y.; Sara Q. Zhang; Arlindo M. De Silva; 2000; "Improving Assimilated Global Datasets Using TMI Rainfall and Columnar Moisture Observations"; Journal of Climate 13 (23), 4180-4195
- Ignatov, A.; Stowe, L. L.; 2000: Physical basis, premises, and self-consistency checks of aerosol retrievals from TRMM VIRS, Journal of Applied Meteorology, 39 (12): 2259-2277 Part 1-2.
- Karlsson, K. G.; 2000: Satellite sensing techniques and applications for the purpose of BALTEX, Meteorologische Zeitschrift, 9 (2): 111-116.
- Kato, S.; Bergin, M. H.; Ackerman, T. P.; Charlock, T. P.; Clothiaux, E. E.; Ferrare, R. A.; Halthore, R. N.; Laulainen, N.; Mace, G. G.; Michalsky, J.; Turner, D. D.; 2000: A comparison of the aerosol optical thickness derived from ground-based and airborne measurements, Journal of Geophysical Research, 105, 14701-14717.
- Legrand, M.; Pietras, C.; Brogniez, G.; Haeffelin, M.; Abuhassan, N. K.; Sicard, M.; 2000: A high-accuracy multiwavelength radiometer for in situ measurements in the thermal infrared, Part I: Characterization of the instrument, Journal of Atmospheric and Oceanic Technology, 17 (9): 1203-1214.
- Li, X.; Christopher, S.A.; Chou, J.; Welch, R. M.; 2000: Estimation of shortwave direct radiative forcing of biomass-burning aerosols using new angular models, Journal of Applied Meteorology, 39 (12): 2278-2291 Part 1-2.
- Liljegren, J. C.; Clothiaux, E. E.; Mace, G. G.; Kato, S.; Dong, X.; 2000: Retrieval of cloud liquid water path, Journal of Geophysical Research, 106, 14,485-14,500.
- Lin, X.; Randall, D. A.; Fowler, L. D.; 2000: Diurnal variability of the hydrologic cycle and radiative fluxes: Comparison between observations and a GCM, Journal of Climate, 13, 4159-4179.
- Loeb, N. G.; Parol, F.; Buriez, J. C.; Vanbauce, C.; 2000: Top-of-atmosphere albedo estimation from angular distribution models using scene identification from satellite cloud property retrievals, Journal of Climate, 13 (7): 1269-1285.
- Matrosov, S. Y.; Heymsfield, A. J.; 2000: Use of Doppler radar to assess ice cloud particle fall-velocity-size relations for remote sensing and climate studies: Journal of Geophysical Research, 105, 22427-22436.
- Minomura, M.; Ru, J. F.; Kuze, H.; Takeuchi, N.; 2000: Atmospheric correction of satellite data using multi-wavelength lidar data with MODTRAN3 code, Remote Sensing And Applications: Earth, Atmosphere and Oceans, 25 (5): 1033-1036, book series title: Advances In Space Research.

- O'Neill, N. T.; Ignatov, A.; Holben, B.; Eck, T.; 2000: The log-normal distribution as a reference for reporting aerosol optical depth statistics: Empirical tests using multi-year, multi-site AERONET sun-photometer data. Geophysical Research Letters, 27, 20, 3,333-3,336.
- Podgorny, I. A.; Conant, W.; Ramanathan, V.; Satheesh, S.K.; 2000: Aerosol modulation of atmospheric and surface solar heating over the tropical Indian Ocean, Tellus Series B-Chemical and Physical Meteorology, 52 (3): 947.
- Priestley, K. J.; Barkstrom, B. R.; Lee, R. B.; Green, R. N.; Thomas, S.; Wilson, R.S.; Spence, P.L.; Paden, J.; Pandey, D. K.; Al-Hajjah, A.; 2000: Postlaunch radiometric validation of the Clouds and the Earth's Radiant Energy System (CERES) Proto-flight Model on the Tropical Rainfall Measuring Mission (TRMM) spacecraft through 1999, Journal of Applied Meteorology, 39 (12): 2249-2258 Part 1-2.
- Randall, D. A.; Curry, J.; Duynkerke, P.; Krueger, S.; Miller, M.; Moncrieff, M.; Ryan, B.; Starr, D.; Rossow, W.; Tselioudis, G.; Wielicki, B. A.; 2000: The GEWEX Cloud Systems Study Second Science and Implementation Plan, IGPO Publication Series No. 34, 45 pp.
- Redelsperger, J. L.; Brown, P.R.A.; Guichard, F.; Hoff, C.; Kawasima, M.; Lang, S.; Montmerle, Th.; Saito, K.; Seman, C.; Tao, W. K.; Donner, L. J.; 2000: A GCSS model intercomparison for a tropical squall line observed during TOGA-COARE. Part I: Cloud-resolving models Quarterly Journal of The Royal Meteorological Society, 126, 823-864.
- Satheesh, S. K.; Ramanathan, V.; 2000: Large Difference in Tropical Aerosol Forcing at the Top of the Atmosphere and Earth's Surface, Nature, 405, 60-63.
- Shelby. F.A; Martner, B.; Djalalova, I.; Poellot, M.; 2000: Comparisons of Radar/Radiometer Retrievals of Stratus Cloud Liquid Water Content Profiles with in situ Measurements by Aircraft; Journal of Geophysical Research, 105 15361-15364
- Stephens, G. L.; Ellingson, R. G.; Vitko, J.; Bolton, W.; Tooman, T. P.; Valero, F. P. J.; Minnis, P.; Pilewskie, P.; Phipps, G. S.; Sekelsky, S.; Carswell, J. R.; Miller, S. D.; Benedetti, A.; McCoy, R. B.; McCoy, R. F.; Lederbuhr, A.; Bambha, R.; 2000: The Department of Energy's Atmospheric Radiation Measurement (ARM) Unmanned Aerospace Vehicle (UAV) program, Bulletin of The American Meteorological Society, 81 (12): 2915-2937.
- Su, W. Y.; Mao, J. T.; Ji, F.; Qin, Y.; 2000: Outgoing longwave radiation and cloud radiative forcing of the Tibetan Plateau, Journal of Geophysical Research-Atmospheres, 105 (D11): 14863-14872.
- Wong, T. M.; Young, D. F.; Haeffelin, M.; Weckmann, S.; 2000: Validation of the CERES/TRMM ERBE-like monthly mean clear-sky longwave dataset and the effects of the 1998 ENSO event, Journal of Climate, 13 (24): 4256-4267.

- Andronache, C.; Donner, L. J.; Seman, C. J.; Ramaswamy, V.; Hemler, R. S.; 1999: Atmospheric sulfur and deep convective clouds in tropical Pacific: A model study. Journal of Geophysical Research, 104, 4005-4024.
- Barkstrom, B. R.; 1999: CERES: The start of the next generation of radiation measurements, Satellite Applications For Energy Budgets and The Hydrological Cycle, 24 (7): 907-914, book series title: Advances In Space Research.
- Chambers, L. H. H.; Barkstrom, B. R.; Smith, G. L.; 1999: Degrees of Freedom of Anisotropic Functions for Non-Plane-Parallel Clouds, EOS, Transactions, Vol. 80, No. 17.
- Dewitte, S.; Clerbaux, N.; 1999: First experience with GERB ground segment processing software: Validation with CERES PFM data, Satellite Applications For Energy Budgets and The Hydrological Cycle, 24 (7): 925-929, book series title: Advances In Space Research.
- Diner, D. J.; Asner, G. P.; Davies, R.; Knyazikhin, Y.; Muller, J. P.; Nolin, A. W.; Pinty, B.; Schaaf, C. B.; Stroeve, J.; 1999: New directions in earth observing: Scientific applications of multiangle remote sensing, Bulletin of The American Meteorological Society, 80 (11): 2209-2228.
- Donner, L. J.; Seman, C. J.; Hemler, R. S.; 1999: Three-dimensional cloud-system modeling of GATE convection, Journal of the Atmospheric Sciences., 56, 1885-1912.
- Fowler, L. D.; Randall, D. A.; 1999: Simulation of upper tropospheric clouds with the Colorado State University general circulation model, Journal of Geophysical Research-Atmospheres, 104 (D6): 6101-6121.
- Haeffelin, M.; Kandel, R.; Stubenrauch, C.; 1999: Improved diurnal interpolation of reflected broadband shortwave observations using ISCCP data, Journal of Atmospheric and Oceanic Technology, 16 (1): 38-54.
- Han, Q. Y.; Rossow, W. B.; Chou, J.; Kuo, K.; Welch, R. M.; 1999: The Effects of aspect ratio and surface roughness on satellite retrievals of ice-cloud properties, Journal of Quantitative Spectroscopy and Radiative Transfer, 63, 559-584.
- Hollmann, R.; Muller, J.; Rockel, B.; Stuhlmann, R.; 1999: Satellite retrieved clouds and the radiation budget in support of BALTEX regional studies, Physics and Chemistry of The Earth Part B-Hydrology Oceans and Atmosphere, 24 (1-2): 111-115.
- Kato, S.; Ackerman, T. P.; Dutton, E. G.; Laulainen, N.; Larson, N.; 1999: A comparison of modeled and measured surface shortwave irradiance for a molecular atmosphere, Journal of Quantitative Spectroscopy and Radiative Transfer, 61, 493-502.
- Kato, S.; Ackerman, T. P.; Mather, J. H.; Clothiaux, E. E.; 1999: The k-distribution method and correlated-k approximation for a Shortwave Radiative Transfer Model, Journal of Quantitative Spectroscopy and Radiative Transfer, 62, 109-121.

- Kratz, D. P.; Rose, F. G.; 1999: Accounting for molecular absorption within the spectral range of the CERES window channel, Journal of Quantitative Spectroscopy and Radiative Transfer, 61 (1): 83-95.
- Li, Z. Q.; Trishchenko, A.; 1999: A study toward an improved understanding of the relationship between visible and shortwave measurements, Journal of Atmospheric and Oceanic Technology, 16 (3): 347-360.
- Loeb, N. G.; Hinton, P. O.; Green, R. N.; 1999: Top-of-atmosphere albedo estimation from angular distribution models: a comparison between two approaches, Journal of Geophysical Research-Atmospheres, 104 (D24): 31255-31260.
- Masutani M.; Campana, K. A.; Lord, S. J.; Yang, S-K.; 1999: Note on Cloud Cover of the ECMWF Nature Run used for OSSE/NPOESS Project, NCEP Office Note 427.
- Mavromatis, T.; Jones, P. D.; 1999: Evaluation of HadCM2 and direct use of daily GCM data in impact assessment studies, Climate Change, 41 (3-4): 583-614.
- Satheesh, S. K.; Ramanathan, V.; Jones, X. L.; Lobert, J. M.; Podgorny, I. A.; Prospero, M.; Holben, B. N.; Loeb, N. G.; 1999: A Model for Natural and Anthropogenic Aerosols over the Tropical Indian Ocean Derived from INDOEX data, Journal of Geophysical Research, 104, 27,421-27,440.
- Smith, G. L.; 1999: Critical overview of radiation budget estimates from satellites, Satellite Applications For Energy Budgets and The Hydrological Cycle, 24 (7): 887-895, book series title: Advances In Space Research.
- Volkov, Y. A.; Plakhina, I. N.; Repina, I. A.; 1999: Parametrization of the surface radiative budget on the basis of the CAGEX-1 experiment within the program of atmospheric radiation measurements, Izvestiya Akademii Nauk Fizika Atmosfery I Okeana, 35 (1): 66-72.
- Waliser, D. E.; Weller, R. A.; Cess, R. D.; 1999: Comparisons between buoy-observed, satellite-derived, and modeled surface shortwave flux over the subtropical North Atlantic during the Subduction Experiment, Journal of Geophysical Research-Atmospheres, 104 (D24): 31301-31320.
- Yang, S.-K., Hou, Y-T.; Miller, A. J.; Campana, K. A.;1999: Evaluation of Earth Radiation Budget in NCEP/NCAR Reanalysis with ERBE .V12. No2, Journal of Climate, 477-493.
- Yang, S.-K.; Zhou, S.; Miller, A. J.; 1999: SMOBA: A 3-dimensional daily ozone analysis using SBUV/2 and TOVS measurement. CPC/NCEP Homepage http://www.cpc.ncep.noaa.gov/index frame.html.

- Boucher, O.; Schwartz, S. E.; Ackerman, T. P.; Bergstrom, B.; Bonnel, B.; Ch'ylek, P.; Dahlback, A.; Fouquart, Y.; Fu, Q.; Halthore, R. N.; Haywood, J. M.; Iversen, T.; Kato, S.; Kinne, S.; Kirkevag, A.; Knapp, K. R.; Lacis, A.; Laszlo, I.; Mishchenko, M. I.; Nemesure, S.; Ramaswamy, V.; Roberts, D. L.; Russell, P.; Schlesinger, M. E.; Stephens, G. L.; Wagener, R.; Wang, M.; Wong, J.; Yang, F.; 1998: Intercomparison of models representing direct shortwave radiative forcing by sulfate aerosols, Journal of Geophysical Research, 103, 16979-16998.
- Capderou, M.; 1998: Confirmation of Helmholtz reciprocity using ScaRaB satellite data, Remote Sensing of Environment, 64 (3): 266-285.
- Christopher, S. A.; Wang, M.; Berendes, T. A.; Welch, R. M.; Yang, S. K.; 1998: The 1985 biomass burning season in South America: Satellite remote sensing of fires, smoke, and regional radiative energy budgets, Journal of Applied Meteorology, 37 (7): 661-678.
- Di Girolamo, L.; Varnai, T.; Davies, R.; 1998: Apparent breakdown of reciprocity in reflected solar radiances, Journal of Geophysical Research-Atmospheres, 103 (D8): 8795-8803.
- Inamdar, A. K.; Ramanathan, V.; 1998: Tropical and global scale interactions among water vapor, atmospheric greenhouse effect, and surface temperature, Journal of Geophysical Research, 103, 32,177-32,194.
- Kandel, R.; Viollier, M.; Raberanto, P.; Duvel, J. P.; Pakhomov, L. A.; Golovko, V. A.; Trishchenko, A P.; Mueller, J; Raschke, E.; Stuhlmann, R.; GroupInt ScaRaB Sci Working Grp ISSWG; 1998: The ScaRaB earth radiation budget dataset, Bulletin of The American Meteorological Society, 79 (5): 765-783.
- Kaufman, Y. J.; Herring, D. D.; Ranson, K. J.; Collatz, G. J.; 1998: Earth Observing System AM1 mission to earth, IEEE Transactions On Geoscience And Remote Sensing, 36 (4): 1045-1055.
- Kummerow, C.; Barnes, W.; Kozu, T.; Shiue, J.; Simpson, J.; 1998: The Tropical Rainfall Measuring Mission (TRMM) sensor package, Journal of Atmospheric and Oceanic Technology, 15 (3): 809-817.
- Lee, R. B.; Barkstrom, B. R.; Bitting, H. C.; Crommelynck, D. A. H.; Paden, J.; Pandey, D. K.; Priestley, K. J.; Smith, G. L.; Thomas, S.; Thornhill, K. L.; Wilson, R. S.; 1998: Prelaunch calibrations of the Clouds and the Earth's Radiant Energy System (CERES) tropical rainfall measuring mission and Earth Observing System morning (EOS-AM1) spacecraft thermistor bolometer sensors, IEEE Transactions On Geoscience And Remote Sensing, 36 (4): 1173-1185.
- Mace, G. G.; Ackerman, T. P.; Minnis, P.; Young, D. F.; 1998: Cirrus Layer Microphysical Properties Derived From Surface-Based Millimeter Radar and Infrared Interferometer Data, Journal of Geophysical Research, 103, 23,207-23,216.
- Manalo-Smith, N.; Smith, G. L.; Tiwari, S. N.; Staylor, W. F.; 1998: Analytic forms of bidirectional reflectance functions for application to Earth radiation budget studies, Journal of Geophysical Research-Atmospheres, 103 (D16): 19733-19751.

- Mather, J. H.; Ackerman, T. P.; Clements, W. E.; Barnes, F. J.; Ivey, M. D.; Hatfield, L. D.; Reynolds, R. M.; 1998: An Atmospheric Radiation and Cloud Station in the tropical western Pacific, Bulletin of The American Meteorological Society, 79 (4): 627-642.
- Minnis, P.; Garber, D. P.; Young, D. F.; Arduini, R. F.; Takano, Y.; 1998: Parameterization of reflectance and effective emittance for satellite remote sensing of cloud properties, Journal of the Atmospheric Sciences, 55, 3313-3339.
- Moran, K. P.; Martner, B. E.; Post, M. J.; Kropfli, R. A.; Welsh, D. C.; Widener, K. B.; 1998: An unattended cloud-profiling radar for use in climate research, Bulletin of The American Meteorological Society, 79 (3): 443-455.
- Ohmura, A.; Dutton, E. G.; Forgan, B.; Frohlich, C.; Gilgen, H.; Hegner, H.; Heimo, A.; Konig-Langlo, G.; McArthur, B.; Muller, G.; Philipona, R.; Pinker, R.; Whitlock, C. H.; Dehne, K.; Wild, M.; 1998: Baseline Surface Radiation Network (BSRN/WCRP): New precision radiometry for climate research, Bulletin of The American Meteorological Society, 79 (10): 2115-2136.
- Rice, J. P.; Johnson, B. C.; 1998: The NIST EOS thermal-infrared transfer radiometer, Metrologia, 35 (4): 505-509.
- Trishchenko, A.; Li, Z. Q.; 1998: Use of ScaRaB measurements for validating a GOES-based TOA radiation product, Journal of Applied Meteorology, 37 (6): 591-605.
- Wielicki, B. A.; Barkstrom, B. R.; Baum, B. A.; Charlock, T. P.; Green, R. N.; Kratz, D. P.; Lee, R. B.; Minnis, P.; Smith, G. L.; Wong, T. M.; Young, D. F.; Cess, R. D.; Coakley, J. A.; Crommelynck, D. A. H.; Donner, L.; Kandel, R.; King, M. D.; Miller, A. J.; Ramanathan, V.; Randall, D. A.; Stowe, L. L.; Welch, R. M.; 1998: Clouds and the Earth's Radiant Energy System (CERES): Algorithm overview, IEEE Transactions On Geoscience And Remote Sensing, 36 (4): 1127-1141.
- Young, D. F.; Minnis, P.; Baumgardner, D.; Gerber, H.; 1998: Comparison of in situ and satellite-derived cloud properties during SUCCESS, Geophysical Research Letters, 25, 1125-1128.
- Young, D. F.; Minnis, P.; Gibson, G. G.; Doelling, D. R.; Wong, T.; 1998 Temporal Interpolation Methods for the Clouds and Earth's Radiant Energy System (CERES) Experiment, Journal of Applied Meteorology, 37, 572-590.

- Chambers, L. H. H.; Wielicki, B. A.; Evans, K. F.; 1997: Accuracy of the independent pixel approximation for satellite estimates of oceanic boundary layer cloud optical depth, Journal of Geophysical Research, Vol.102, No. D2, January 27, 1997, pp. 1779-1794.
- Chambers, L. H. H.; Wielicki, B. A.; Evans, K. F.; 1997: Independent Pixel and Two Dimensional Estimates of LANDSAT-Derived Cloud Field Albedo, Journal of the Atmospheric Sciences, Vol. 54, No. 11, 1 June 1997, pp. 1525-1532.
- Haeffelin, M. P. A.; Mahan, J. R.; Priestley, K. J.; 1997: Predicted dynamic electrothermal performance of thermistor bolometer radiometers for Earth radiation budget applications, Applied Optics, 36 (28): 7129-7142.
- Inamdar, A. K.; Ramanathan, V.; 1997: On monitoring the atmospheric greenhouse effect from space, Tellus Series B-Chemical and Physical Meteorology, 49 (2): 216-230.
- Kato, S.; Ackerman, T. P.; Clothiaux, E. E.; Mather, J. H.; Mace, G. G.; Wesely, M. L.; Murcray, F.; Michalsky, J.; 1997: Uncertainties in modeled and measured clear-sky surface irradiances, Journal of Geophysical Research, 102, 25881-25898.
- Minnis, P.; Mayor, S.; Smith, W. L.; Young, D. F.; 1997: Asymmetry in the diurnal variation of surface albedo, IEEE Transactions On Geoscience And Remote Sensing, 35 (4): 879-891.
- Otterman, J.; Starr, D.; Brakke, T.; Davies, R.; Jacobowitz, H.; Mehta, A.; Cheruy, F.; Prabhakara, C.; 1997: Modeling zenith-angle dependence of outgoing longwave radiation: Implication for flux measurements, Remote Sensing of Environment, 62 (1): 90-100.
- Wong, T. M.; Harrison, E. F.; Gibson, G. G.; Denn, F. M.; 1997: On the determination of the optimal scan mode sequence for the TRMM CERES instrument, Journal of Atmospheric and Oceanic Technology, 14 (5): 1230-1236.
- Zhang, Y. C.; Rossow, W. B.; 1997: Estimating meridional energy transports by the atmospheric and oceanic general circulations using boundary fluxes, Journal of Climate, 10 (9): 2358-2373.

- Charlock, T, P.; Alberta, T. L.; 1996: The CERES/ARM/GEWEX experiment (CAGEX) for the retrieval of radiative fluxes with satellite data, Bulletin of The American Meteorological Society, 77 (11): 2673-2683.
- Hucek, R.; Stowe, L.; Joyce, R.; 1996: Evaluating the design of an earth radiation budget instrument with system simulations .3. CERES-I diurnal sampling error, Journal of Atmospheric and Oceanic Technology, 13 (2): 383-399.
- Lee, R. B.; Barkstrom, B. R.; Smith, G. L.; Cooper, J. E.; Kopia, L. P.; Lawrence, R. W.; Thomas, S.; Pandey, D. K.; Crommelynck, D. A. H.; 1996: The Clouds and the Earth's Radiant Energy System (CERES) sensors and preflight calibration plans, Journal of Atmospheric and Oceanic Technology, 13 (2): 300-313.
- Wielicki, B. A.; 1996: Clouds and the Earth's radiant energy system (CERES): An earth observing system experiment (vol 77, pg 860, 1996), Bulletin of The American Meteorological Society, 77 (7): 1590-1590.
- Wielicki, B. A.; Barkstrom, B. R.; Harrison, E. F.; Lee, R. B.; Smith, G. L.; Cooper, J. E.; 1996: Clouds and the earth's radiant energy system (CERES): An earth observing system experiment, Bulletin of The American Meteorological Society, 77 (5): 853.

Thomas, D.; Duvel, J. P.; Kandel, R.; 1995: Diurnal bias in calibration of broad-band radiance measurements from space, IEEE Transactions On Geoscience And Remote Sensing, 33 (3): 670-683.

1994 Publications

Stowe, L.; Hucek, R.; Ardanuy, P.; Joyce, R.; 1994: Evaluating the design of an earth radiation budget instrument with system simulations .2. minimization of instantaneous sampling errors for CERES-I, Journal of Atmospheric and Oceanic Technology, 11 (5): 1169-1183.

1993 Publications

Jarecke, P. J.; Folkman, M. A.; Hedman, T. R.; Frink, M. E.; 1993: Clouds And The Earth Radiant Energy System (Ceres) - long-wave calibration plan and radiometric test Model (rtm) calibration results, Metrologia, 30 (4): 223-230.

Morel, M.; Jegou, R.; Readings, C.; Tabarie, N.; 1993: Envisats earth radiation-budget instrument – scarab, ESA Bulletin-European Space Agency, (76): 53-57.

Smith, G. L.; Barkstrom, B. R.; Harrison, E. F.; Lee, R. B.; Wielicki, B. A.; 1993: Radiation budget measurements for the eighties and nineties, Global Change and Space Observations, 14 (1): 81-84, book series title: Advances In Space Research.

Stowe, L.; Ardanuy, P.; Hucek, R.; Abel, P.; Jacobowitz, H.; 1993: Evaluating the design of an earth radiation budget instrument with system simulations .1. instantaneous estimates, Journal of Atmospheric and Oceanic Technology, 10 (6): 809-826.

Stubenrauch, C. J.; Duvel, J. P.; Kandel, R. S.; 1993: Determination of longwave anisotropic emission factors from combined broad-band and narrow-band radiance measurements, Journal of Applied Meteorology, 32 (5): 848-856.