

**Clouds and the Earth's Radiant Energy System
CERES CONFERENCE PAPERS**

2003 Conference Papers

Andronache, C., Donner, L., Seman, C., Hemler R., 2003: Interactions between the Intertropical Convergence Zone and aerosols during INDOEX. Geophysical Research Abstracts, 5, EAE03-A-02719.

Bess, T. D., G. L. Smith, and T. Wong, 2003: Sampling Errors of Monthly-Mean Radiative Fluxes from the Earth Radiation Budget Satellite. 12th Conference on Satellite Meteorology and Oceanography , 9-13 February 2003, Long Beach, California, American Meteorological Society, Paper No. P1.7.

Chambers, L. H., P. T. Detweiler, J. D. Fischer, R. Sepulveda, E. Arabini, "Ideas for GLOBE's Future Drawn from the 7-Year Experience of the CERES S'COOL Project", EOS Transactions, American Geophysical Union, Vol. 84(46) Fall Meeting Suppl., Abstract ED21D-07, 2003.

Chandler, William S., D. E. Brown, C.H. Whitlock, and P. W. Stackhouse, 2003: Energy Design Software using NASA Meteorology and Solar Energy Data. Proceedings of the AMS 83rd Annual Meeting, 19th International conference on Interactive Information Processing Systems (IIPS) for Meteorology, Oceanography, and Hydrology, February 9-13, Long Beach, CA.

Chandler, William S., D. E. Brown, C.H. Whitlock, and P. W. Stackhouse, 2003: NASA Climatological Data for Renewable Energy Assessment. Proceedings of the ISEC 2003 International Solar Energy Conference, 16-18 March, Kohala Coast, Hawaii.

Charlock, T.P., F.G. Rose, D.A. Rutan, 2003: Validation of the archived CERES surface and atmospheric radiation budget (SARB) at SGP.Proceedings, 13th ARM Science Team Meeting Broomfield, CO, Mar 31-Apr 4.

Chen, Y., Patrick Minnis, David Young, 2003: Cler-Sky Narrowband Albedos Derived from VIRS and MODIS Sunny Sun-Mack, Remote Sensing of clouds and the Atmosphere VIII, SPIE 8 - 12 September Barcelona, Spain.

Chen, Yan, Sunny Sun-Mack, Patrick Minnis, William L. Smith, Jr, David Young, 2003: Surface Emissivity Derived For Infrared Remote Sencing From Satellites International Association of Meteorology and Atmospheric Science, 2003 Assemblies, Sapporo, Japan. June 30 – July.

Clark, C., R. Sepulveda, L.H.Chambers, "Experiences of an Educator/Scientist Team", EOS Transactions, American Geophysical Union, Vol. 84(46) Fall Meeting Suppl., Abstract ED41E-02, 2003.

Donner, L., 2003: Tracer transport by parameterized convection. Geophysical Research Abstracts, 5, EAE03-02733.

Fan, A., and B. Lin, Comparison of latent heat and sensible heat fluxes over tropical oceans observed by TRMM and DMSP satellites, the 12th Conference on the Interaction of the Sea and Atmosphere, the 83rd AMS annual meeting, Long Beach, CA, February 9 - 13, 2003.

Garber, D. P., G. L. Smith, T. Wong, and A. C. Wilber, 2003: The radiation budget and climate of Africa. 14th Symposium on Global Change and Climate Variations, 9-13 February 2003, Long Beach, California, American Meteorological Society, Paper No. P1.11.

Garber, D. P., G. L. Smith, T. Wong, D. P. Kratz, T. P. Charlock and A. C. Wilber: Seasonal radiation budget of Africa, 14th Conference on Global Change and Climate Variations, Long Beach, California, February, 2003.

Gupta, S. K., D. P. Kratz, A. C. Wilber and C. Nguyen, 2003: Validation of the Langley Parameterized Algorithms for Deriving CERES/TRMM Surface Radiative Fluxes, 12th Conference on Satellite Meteorology and Oceanography, Long Beach, California, February, 2003.

Inamdar, A.K., and Kratz, D.P., 2003: Retrieval and validation of the surface longwave radiation budget from CERES. EOS Supplements, AGU Fall Meeting, San Francisco, December 2003.

Lin, B., T. Wong, B.A. Wielicki, and Y. Hu, The decadal tropical mean radiation data and the Iris hypothesis, International Geoscience and Remote Sensing Symposium (IGARSS'03), Toulouse France, July 21-25, 2003.

Lin, B., P. Minnis, and A. Fan, the change of cloud liquid water path on temperature over polar areas, the 7th Conference on Polar meteorology and Oceanography and Joint Symposium on High latitude Climate Variations, Amer. Meteor. Soc., Hyannis, MA, 12-16 May 2003.

Myhre, G., F.Stordal, M.Johnsrud, A.Ignatov, M.Mishchenko, I.Geogdzhayev, D.Tanre, P.Goloub, T.Nakajima, A.Higurashi, O.Torres, B.Holben, 2003: Intercomparison of satellite retrieved aerosol optical depth over ocean. AGU/EGS 2003 Spring Meeting, Niece, France.

Phillips, V.T.J., and Donner, L.J., 2003: The validity of a new closure assumption for the parametrisation of deep convection. Geophysical Research Abstracts, 5, EAE03-A-07384.

Renné, D., S. Wilcox, B. Marion, R. George, D. Myers, T. Stouffel, R. Perez, and P. Stackhouse, 2003, Progress on Updating the 1961-1990 National Solar Radiation Database. Proceedings from the 2003 American Solar Energy Society Annual Conference, June 21-26, Austin, TX.

Rutan, D.A., T.P. Charlock, F.G. Rose, 2003: Surface Albedo at the atmospheric radiation measurement (ARM) southern great plains (SGP) site from helicopter observations. Proceedings, 13th ARM Science Team Meeting Broomfield, CO, Mar 31-Apr 4.

Smith, G. L. and P. E. Mlynczak, 2003: "Studies with the CERES window channel," 12-th Conf. Sat. Met. and Oceanogr.

Sun-Mack, S. ; Minnis, P. ; Heck, P.; Young, D., 2003: Global distributions of cloud properties for CERES European Geophysical Society and American Geophysical Union Joint Assembly Nice, France, 06 - 11 April.

Szewczyk, Z. P., 2003: "Neurocomputing processing with clustering of Earth's radiation measurements", 41st AIAA Sciences Meeting and Exhibit, Reno, NV, January.

Uttal, T., Sun-Mack, S., P. Minnis, and J. Key, 2003: Comparison of Surface and Satellite Measurements of Arctic Cloud Properties, 7th Conference on Polar Meteorology and Oceanography.

Whitlock, C. H., W. S. Chandler, D. E. Brown, and P. W. Stackhouse, Jr., 2003: Comparison of Satellite-Derived Diffuse and Direct Normal Surface Radiation Over the Globe from Several Different Techniques. Proceedings of the ISES Solar World Congress, Solar Energy for a Sustained Future, June 14-19, Goteborg, Sweden.

Wilber, A. C. and G. L. Smith, 2003 : "Longwave surface radiation budget and climate," 14-th Symp. Global Change and Climate Variations.

Wong, T., and G. L. Smith, 2003: Intraseasonal and Synoptic Variations of Radiation Budget. 14th Symposium on Global Change and Climate Variations, 9-13 February 2003, Long Beach, California, American Meteorological Society, Paper No. P1.27.

Yang, S-K, M. Kanamitsu, W. Ebisuzaki, A. J. Miller and G Potter, 2003: The tropospheric humidity trends of NCEP/NCAR Reanalysis before satellite era, Symposium on Observing and Understanding the Variability of Water in Weather and Climate, Long Beach, CA, Feb 9-13, 2003.

2002 Conference Papers

Chambers, L. H., B. Lin, and D. F. Young, "New CERES data examined for evidence of Tropical Iris feedback", 11th Conference on Atmospheric Radiation, Ogden, UT, June 2-7, 2002.

Chambers, Lin H., P. Kay Costulis, David F. Young, Paula Detweiler, Roberto Sepulveda, Douglas B. Stoddard, "Continuing Evaluation of S'COOL, an Educational Outreach Project Focused on NASA's CERES Program," EOS, Transactions, American Geophysical Union, Vol. 83(47), Fall Meeting Suppl., Abstract ED11C-03, 2002.

Chandler, W. S., D. E. Brown, R.C. DiPasquale, and C. H. Whitlock, 2002: NASA Global Meteorology and Solar Energy Used in Design Software. Paper 023A, Proceedings of SOLAR | 2002, Sunrise on the Reliable Energy Economy, June 15-19, 2002, Reno, NV. Sponsored by 13 industry societies.

Chandler, William S., 2002: SSE Overview and Demonstration via the Internet. Solar Wind and Energy Resource Assessment (SWERA) Web Site, Products and Tools Meeting [and] NASA Global Meteorology and Solar Energy Used in Design Software Meeting, USGS/EROS Data Center Seminar, October 7-10, Sioux Falls, SD, 2002.

Coakley, J.A. Jr., Tahnk, W. R., and Loeb, N.G., 2002: Aerosol direct Radiative forcing for cloud-free conditions deduced from CERES/TRMM SSF and AERONET observations. AMS 11th Conference on Atmospheric Radiation, 105-108.

Coakley, J.A. Jr., Friedman, M.A., and Tahnk, W. R., 2002: The retrieval of cloud properties for partially covered fields of view. AMS 11th Conference on Atmospheric Radiation, J35-J38.

DiPasquale, R.C., D. E. Brown, W. S. Chandler, C. H. Whitlock, and P. W. Stackhouse, 2002: Overview of the Surface meteorology and Solar Energy (SSE) Project: An Innovative Web-Based Data Set for the Renewable Energy Industry. Paper 5.6, Proceedings of AMS Third Symposium on Environmental Applications. January 13-17, Orlando, FL.

Donner, L., 2002: The impact of deep convection on the Madden-Julian Oscillation and the structure of the Inter-tropical Convergence Zone in a general circulation model. Abstracts, GCSS-ARM Workshop on the Representation of Cloud Systems in Large-Scale Models, 8.

Gambheer, A. V., Doelling, D. R. and Minnis, P.: Examination of the Azimuthal Variation of Longwave Radiance from CERES Data, Proc. 11th AMS Conference on Atmospheric Radiation, Ogden, UT, June 3-7, 2002.

Ignatov, A., 2002: Spurious Signals in TRMM/VIRS Reflectance Channels and Their Effect on Aerosol Retrievals. *Eos.Trans.AGU*, 83(19), Spring Meet.Suppl., Abstract #A21A-13. (Washington, DC, May 28-31, 2002).

Ignatov, A., I.Laszlo, and N.Nalli, 2002: Statistical Patterns in Aerosol Retrievals From NOAA/AVHRR and TRMM/VIRS. *Proc. 11th Conf.Atm.Rad.*, 55-58 (Ogden, UT, June 03-07).

Inamdar, A. K. and D. P. Kratz, "Monitoring Surface Long-wave Radiation Budget from Satellite: Validation." AGU for the Fall 2002 Meeting, San Francisco, California, December, 2002.

Leng, G., A. Monarque, R. Alward, N. Meloche, and A. Richard, 2002: Canada's Renewable Energy Capacity Building Program & RETScreen^R International. Proceedings of the World Renewable Energy Congress VII, Cologne, Germany, June, and in *Renewable Energy - The International Journal*.

Lin, Bing, Bruce Wielicki, Lin Chambers, Yongxiang Hu, Kuan-Man Xu, Radiative forcing of the tropical anvil clouds, 13th Symposium on global change and climate variations, AMS Annual Meeting, January 13-17, 2002, Orlando, FL.

Loukachine, K., N.G. Loeb, N. Manalo-Smith, "Validation of top-of-atmosphere longwave flux estimates from the Clouds and the Earth's Radiant Energy System (CERES) angular distribution models". Oral presentation at 11th Conference on Atmospheric Radiation, Ogden, Utah, 2002.

Nalli, N., and A.Ignatov, 2002: Aerosol Correction for Remotely Sensed Sea Surface Temperatures from the NOAA AVHRR: Phase II. *Eos.Trans.AGU*, 83(19), Spring Meet.Suppl., Abstract #A22B-13. (Washington, DC, May 28-31, 2002).

Nasiri, S. L., B. A. Baum, A. J. Heymsfield, P. Yang, M. R. Poellet, D. P. Kratz and Y. Hu, 2002: The Development of Midlatitude Cirrus Models for MODIS Using FIRE-I, FIRE-II, and ARM In-Situ Data, *J. Appl. Meteor.*, 41, 197--217.

Shupe, M.D., M.D., P. Zuidema, T.L. Schneider and T. Uttal, 2002: Cloud Radiative Heating Rate Forcing from Profiles of Retrieved Arctic Cloud Microphysics, *Proc. 11th Conf. on Atmospheric Radiation*, Ogden, UT, June 3-7, 2002.

Trepte, Q., P. Minnis, R. Arduini, 2002: Daytime and nighttime Polar Cloud and Snow Identification using MODIS data. *Proc. SPIE's Third International Asia-Pacific Remote Sensing Symposium*, Hongzhou, China, 23-27 October, 2002.

Whitlock, C. H., D. E. Brown, W.S. Chandler, R. C. DiPasquale, and P. W. Stackhouse, Jr., 2002: Development of an Architectural Data Set from Satellite Data. Paper 5.7, Proceedings of AMS Third Symposium on Environmental Applications. January 13-17, Orlando, FL.

Whitlock, C.H., D. E. Brown, R.C. DiPasquale, W. S. Chandler, and P. W. Stackhouse, 2002: Variability of Diffuse Solar Surface Radiation over the Globe. SOLAR | 2002, Paper 189A, Proceedings of Sunrise on the Reliable Energy Economy, June 15-19, Reno, NV. Sponsored by 13 industry societies.

Whitlock, C.H., P.W. Stackhouse, William S. Chandler, and Donald E. Brown, 2002: Surface meteorology and Solar Energy (SSE) and Beyond (POWER). RETScreen Network Planning Meeting, June 19-20, Val Morin, Canada.

Yang S-K, Yu-Tai Hou, S. Moorthi, Ken Campana and Alvin J. Miller, 2002: Evaluating the Newly Implemented NCEP Cloud/Radiative Parameterizations with CERES, Proc 11th Conf. On Atmospheric Radiation, Ogden, Utah, June 3-7, 2002.

2001 Conference Papers

Brown, D. E., R. C. DiPasquale, W.S. Chandler, and C. H. Whitlock, 2001: A Satellite-Derived Global Climatological Data Set for the Renewable Energy Industry. Proceedings of International Solar Energy Society 2001 World Congress, November 25 - December 2, Adelaide, South Australia.

DiPasquale, Roberta, C., Donald E. Brown, William S. Chandler, Charles H. Whitlock, Robert G. Cable, and Paul W. Stackhouse, Jr., 2000: Comparison of Measured Direct Normal Radiation to Estimates Modeled From Satellite Data. Proceedings of FORUM 2001 Solar Energy: The Power To Choose. April 21-25, 2001, Washington, DC, Sponsored by 12 industry societies.

Ignatov, A., 2001: Effect of Radiometric Factors on AVHRR Aerosol Retrievals. Eos.Trans.AGU, 82(20), Spring Meet.Suppl., Abstract #A21B-11. (Boston, MA, May 29-June, 2001).

Rutan, D. A., F. G. Rose, N. Smith, and T. P. Charlock, 2001: Validation Data Set for CERES Surface and Atmospheric Radiation Budget (SARB). GEWEX News, Vol. 11, No. 1 (February), pp. 11-12. Available at www.gewex.org under "Newsletter".

Uttal, T. 2001: Comparison of NSA Cloud Properties for April, May, June, and July, 6th Conference on Polar Meteorology and Oceanography, 14-18 May, San Diego, CA.

Whitlock, Charles H., Donald E. Brown, William S. Chandler, Roberta C. DiPasquale, Shashi K. Gupta, Anne C. Wilber, Nancy A. Ritchey, David P. Kratz, and Paul W. Stackhouse, 2001: Global Solar Energy Anomalies Including El Nino and La Nina Years. Proceedings of FORUM 2001 Solar Energy: The Power To Choose. April 21-25, 2001, Washington, DC, Sponsored by 12 industry societies.