

Refereed Publications

Wang, K.C., R.E. Dickinson, and S. Liang, 2012: Global Atmospheric Evaporative Demand over Land from 1973 to 2008, *Journal of Climate*, doi:10.1175/JCLI-D-11-00492.1 (in press)

Fu, R., N. Fernando, L. Yin, T. Ren, Z. Yang, A. Bowerman, and R.E. Dickinson, 2012: Assessing Future Changes of Climate and Drought over the South-Central United States Projected by the CMIP5 Models, *Journal of Climate* (in review)

Yin, L., R. Fu, E. Shevliakov, and R.E. Dickinson, 2012: How Well Can CMIP5 Simulate Rainfall Seasonal and Interannual Variability over Amazonian and South American Monsoon Regions and Their Controlling Processes? *Climate Dynamics* (in review)

Wang, K.C., R.E. Dickinson, Q. Ma, J.A. Augustine, and M. Wild, 2012: From Dimming to Brightening: Uncertainty of Measurements, *Journal of Climate* (in review)

Wang, K.C., J. Augustine, and R.E. Dickinson, 2012: Evaluation of Surface Incident Solar Radiation Observations Collected by SURFRAD, USCRN, and AmeriFlux Networks from 1995 to 2011, *Journal of Geophysical Research* (in review)

Wang, K.C., R.E. Dickinson, H. Su, and K.E. Trenberth, 2012: Contrasting trends of mass and optical properties of aerosols over the northern hemisphere from 1992 to 2011, *Atmospheric Chemistry and Physics* (in press)

Wang, K.C. and R.E. Dickinson, 2012: A review of global terrestrial evapotranspiration: Observation, modeling, climatology, and climatic variability, *Rev. Geophys.*, **50**, RG2005, 54pp, doi:10.1029/2011RG000373

Su, H., R.E. Dickinson, K.L. Findell, and B.R. Lintner, 2012: How are spring snow conditions in central Canada related to early warm season precipitation? *Journal of Hydrometeorology* (in review)

Pu, B. and R.E. Dickinson, 2012: Could vegetation feedbacks amplify global warming? *Journal of Geophysical Research-Atmospheres* (in press)

Sun, Y., L. Gu, R.E. Dickinson, and B. Zhou, 2012: Forest greenness after the massive 2008 Chinese ice storm: integrated effects of natural processes and human intervention, *Environmental Research Letter*, **7**, 035702, 7pp, doi:10.1088/1748-9326/7/3/035702

Sun, Y., L. Gu, and R.E. Dickinson, 2012: The effect of mesophyll conductance on gross primary production: global simulations with a land surface model, *Journal of Geophysical Research-Biogeosciences* (in review)

Sun, Y., L. Gu, and R.E. Dickinson, 2012: A numerical issue in calculating the coupled carbon and water fluxes in a climate model, *Journal of Geophysical Research-Atmospheres* (in review)

Samanta, A., Y. Knyazikhin, L. Xu, R.E. Dickinson, R. Fu, M. H. Costa, S.S. Saatchi, R.R. Nemani, and R.B. Myneni, 2012: Seasonal changes in leaf area of Amazon forests from leaf flushing and abscission, *J. Geophysical Research*, **117**, G01015, doi:10.1029/2011JG001818

Ren, D., R. Fu, L. M. Leslie, and R.E. Dickinson, 2011: Modeling the mudslide aftermath of the 2007 Southern California Wildfires, *Natural Hazards*, **57**, No.2, 327-343, doi:10.1007/s11069-010-9615-5

Dickinson, R.E., 2011: Coupled atmospheric circulation models to biophysical, biochemical, and biological processes at the land surface, *The Development of Atmospheric General Circulation Models*, Leo Donner, Wayne Schubert, Richard Somerville (eds), Cambridge University Press, 255+xvipp

Chen, H., R.E. Dickinson, Y. Dai, and L. Zhou, 28 January 2011: Sensitivity of simulated terrestrial carbon assimilation and canopy transpiration to different stomatal conductance and carbon assimilation schemes, *Climate Dynamics*, **36**, 1037-1054, doi:10.1007/s00382-010-0741-2

Ren, D., R. Fu, L. M. Leslie, and R.E. Dickinson, 2011: Predicting storm-triggered landslides, *Bull. Amer. Meteor. Soc.*, **92**, issue 2, 129-139, doi: 10.1175/2010BAMS3017.1

Su, H., Z.-L. Yang, R.E. Dickinson, C.R. Wilson, and G.-Y. Niu, 2010: Multisensor snow data assimilation at the continental scale: The value of Gravity Recovery and Climate Experiment terrestrial water storage information, *J. Geophys. Res.*, **115**, D10104, doi:10.1029/2009JD013035

Ren, D., L. M. Leslie, R. Fu, R.E. Dickinson, and X. Xin, 2010: A storm-triggered landslide monitoring and prediction system: Formulation and case study, *Earth Interactions*, doi: 10.1175/2010EI337.1

Wang, K., R.E. Dickinson, M. Wild, and S. Liang, 2010: Evidence for decadal variation in global terrestrial evapotranspiration between 1982 and 2002 Part I: method development, *J. Geophys. Res.*, **115**, D20112, doi:10.1029/2009JD013671

Wang, K., R.E. Dickinson, M. Wild, and S. Liang, October 2010: Evidence for decadal variation in global terrestrial evapotranspiration between 1982 and 2002 Part II: Global application, *J. of Geophysical Research*, **115**, D20113, doi:10.1029/2010JD013847

Jin, M. and R.E. Dickinson, 2010: Land surface skin temperature climatology: benefitting from the strengths of satellite observations, *Environmental Research Letter*, **5**, Number 4, 044004-044017, doi: 10.1088/1748-9326/5/4/044004

Ren, D., L. M. Leslie, R. Fu, and R.E. Dickinson, 2010: Modeling the Mudslide Aftermath of the 2007 Southern California Wildfires, *Natural Hazards*, doi: 10.1007/s11069-010-9615-5

Zhou, L., Dickinson, R.E., Dai, A., and Dirmeyer, P., 13 August 2010: Detection and Attribution of Anthropogenic Forcing to Diurnal Temperature Range Changes from 1950 to 1999: Comparing Multi-Model Simulations with Observations, *Climate Dynamics*, **35**, 1289-1307, doi:10.1007/s00382-009-0644-2

Zhang Y., Fu, R., Yu, H., Qian, Y., Dickinson, R.E., Silva Dias, M.A.F, da Silva Dias, P.L. and Fernandes, K., 30 May 2009: Impact of biomass burning aerosol on the monsoon circulation transition over Amazonia, *Geophys. Res. Lett.*, **36**, L10814, 2009 doi:10.1029/2009GL037180

Zhou, L., Dickinson, R.E., Dirmeyer, P., Dai, A., and Min, S.-K., 23 January 2009, Spatiotemporal patterns of changes in maximum and minimum temperatures in multi-model simulations, *Geophysical Research Letters*, **36**, L02702, 2009 doi:10.1029/2008GL036141

- Wang, K., Dickinson, R.E., and Liang, S., 13 March 2009: Clear Sky visibility has Decreased over Land Globally from 1973 to 2007, *Science*, **323**, No. 5920,1468-1470
- Su, H., Yang, Z.L., Niu, G.Y., Dickinson, R.E., 2008, Enhancing the estimation of continental-scale snow water equivalent by assimilating MODIS snow cover with the ensemble Kalman filter, *J. Geophys. Research*, William Byrd Press, **113**, Issue D8, Article No. D08120
- Dickinson, R.E., Zhou, L., Tian, Y., Liu, Q, Lavergne, T., Pinty, B., Schaaf, C. B., Knyazikhin, Y., 2008: A three-dimensional analytic model for the scattering of a spherical bush, *J. Geophys. Res.*, **113**, D20113, doi:10.1029/2007JD009564
- Liu, Q., L. Gu, R.E. Dickinson, Y. Tian, L. Zhou, and W. M. Post, October 2008: Assimilation of satellite reflectance data into a dynamical leaf model to infer seasonally varying leaf areas for climate and carbon models, *J. Geophys. Res.*, **113**, D19113, doi: 10.1029/2007J D009645
- Zhang, T., R. Fu, H. Yu, R.E. Dickinson, et al., 2008: A regional climate model study of how biomass burning aerosol impacts land-atmosphere interactions over the Amazon, *J. Geophys. Res.*, **113**, Issue D14, Article No. D14S15
- Wang, K., R.E. Dickinson, and S. Liang, May 2008: Observational evidence on the effects of clouds and aerosols on net ecosystem exchange and evapotranspiration, *Geophys. Res. Lett.*, **35**, L10401, doi: 10.1029/2008GL034167
- Dickinson, R.E., 2008: Determination for climate models of the multi-scattered solar radiation from a canopy with leaves modeled as a 3D distribution of homogeneous isotropic scatters, *J. of Computational Physics*, **227**, 3367-3677
- Dickinson, R.E., Tian, Y.G., Liu, Q. , Zhou, L., 2008: Dynamics of leaf area for climate and weather models, *J. Geophys. Res.*, **113**, Issue: D16, Art. Nr. D16115
- Fang, H.L., A. L.Liang, J. R. Townsend, R.E. Dickinson, et al., August 2008: Spatially and temporally continuous LAI data sets based on an integrated filtering method: Examples from North America, *Remote Sens. Environ.*, **112**, (1) 75-95
- Gao, H., R. Fu, R.E. Dickinson, R. Negrón Juárez, 2008. A Practical Method for Retrieving Land Surface Temperature from AMSR-E over the Amazon Forest, *IEEE Transactions on Geosciences and Remote Sensing*, **46**, No. 1,193-199
- Huang, Y., W. L. Chameides, Q. Tan and R.E. Dickinson, 2008: Characteristics of anthropogenic sulfate and carbonaceous aerosols over East Asia: regional modeling and observation, MAIRS special issue in *Advances in Atmospheric Sciences*, **25**, Issue 6, 946-959
- Oleson, K.W., G.-Y. Niu, Z.-L. Yang, D.M. Lawrence, P.E. Thornton, P.J. Lawrence, R. Stockli, R.E. Dickinson, et al., 2008: Improvements to the Community Land Model and their impact on the hydrological cycle., *J. Geophys. Res.*, **113**, G01021, doi: 10.1029/2007JG000563
- Zhou, L., R.E. Dickinson, P. Dirmeyer, H. Chen, Y. Dai, and Y. Tian, 2008: Asymmetric response of maximum and minimum temperatures to soil emissivity change over the Northern African Sahel in a GCM, *Geophys. Res. Lett.*, **35**, L05402, doi: 10.1029/2007GL032953.
- Huang, D., Y. Knyazikhin, R.E. Dickinson, M. Rautiainen, et al., 2007: Canopy spectral invariants for remote sensing and model applications, *Remote Sens. Environ.*, **106**(1): 106-122

- Huang, Y., W.L. Chameides, and R.E. Dickinson, 2007: Direct and indirect effect of anthropogenic aerosols on regional precipitation over East Asia, *J. Geophys. Res.*, **112**, doi:10.1029/2006JD007114
- Li, W., R.E. Dickinson, R. Fu, G.-Y. Niu, Z.-L. Yang, J.G. Canadell, 2007: Future precipitation changes and their implications for tropical peatlands, *Geophys. Res. Lett.*, **34**, L01403, doi:10.1029/2006GL028364
- Myneni, R.B., W. Yang, R.R. Nemani, A.R. Huete, R.E. Dickinson, et al., 2007: Large seasonal swings in leaf area of Amazon rainforests, *PNAS*, **104**, no. 12, 4820-4823
- Niu, G.-Y., Z.-L. Yang, R.E. Dickinson, L.E. Gulden, and H. Su, 2007: Development of a simple groundwater model for use in climate models and evaluation with GRACE data, *J. Geophys. Res.*, **112**, D07103, doi: 10.1029/2006JD007522
- Sellers, P.J., M. J. Fennessy and R.E. Dickinson, 2007: A numerical approach to calculating soil wetness and evapotranspiration over large grid areas, *J. Geophys. Res.*, **112**, d18106, DOI: 10.1029/2007JD008781
- Shabanov, N.V., D. Huang, Y. Knjazikhin, R.E. Dickinson, et al., 2007: Stochastic radiative transfer model for mixture of discontinuous vegetation canopies, *J. Quan. Spectroscopy & Rad. Tfr.*, **107**(2), 236-262
- Tian, Y., R.E. Dickinson, L. Zhou, 2007: Four-stream Iosector Approximation for Canopy Radiative Transfer, *J. Geophys. Res.*, **112**, D04107, doi:10.1029/2006JD007545
- Wu, W., R.E. Dickinson, H. Wang, Y. Liu and M. Shaikh, 2007: Covariabilities of spring soil moisture and summertime United States precipitation in a climate simulation. *Int. J. Clim.*, **27**(4), 429-438, published online 25 September 2006 in Wiley InterScience, doi: 10.1002/joc.1419
- Yu, H., R. Fu, R.E. Dickinson, Y. Zhang, M. Chen and H. Wang, 2007: Interannual variability of smoke and warm cloud relationships in the Amazon as inferred from MODIS retrievals, *Remote Sens. Environ.*, **111**, 435-449
- Zhou, L., R.E. Dickinson, Y. Tian, R. Vose and Y.-J. Dai, 2007: Impact of vegetation removal and soil aridation on diurnal temperature range in a semiarid region: Application to the Sahel, *PNAS*, **104**, 17937-17942 on-line 10.1073/pnas.0700290104
- Dickinson, R.E., K.W. Oleson, G. Bonan, F. Hoffman, P. Thornton, M. Vertenstein, Z.-L. Yang, and X. Zeng, 2006. The Community Land Model and Its Climate Statistics as a Component of the Community Climate System Model, *J. Climate*, special issue, **19**, No. 11, 2302-2324
- Fu, R., Y.L. Hu, J.S. Wright, J.H. Jiang, R.E. Dickinson, M.X. Chen, M. Filipiak, W.G. Read, J.W. Waters, and D. L. Wu, 2006: Short circuit of water vapor and polluted air to the global stratosphere by convective transport over the Tibetan Plateau, *Proc. Natl. Acad. Sci. U.S.A.*, **103**, 5664-5669, doi:10.1073/pnas.0601584103
- Huang, Y., R.E. Dickinson, and W.L. Chameides, 2006: Impact of aerosol indirect effect on surface temperature over East Asia, *Proc. Natl. Acad. Sci. U.S.A.*, **103**, 4371-4376, doi:10.1073/pnas.0504428103
- Li, W., R. Fu, and R.E. Dickinson, 2006a: Rainfall and its seasonality over the Amazon in the 21st century as assessed by the coupled models for the IPCC AR4, *J. Geophys. Res.*, **111**, D02111, doi:10.1029/2005JD006355

Pinty, B., T. Lavergne, R.E. Dickinson, J.-L. Widlowski, N. Gobron, and M.M. Verstraete, 2006: Simplifying the interaction of land surfaces with radiation for relating remote sensing products to climate models, *J. Geophys. Res.*, **111**, D02116, doi:10.1029/2005JD005952

Tsvetsinskaya, E.A., C.B. Schaaf, F. Gao, A.H. Strahler, and R.E. Dickinson, 2006: Spatial and temporal variability in Moderate Resolution imaging Spectroradiometer-derived surface albedo over global arid regions, *J. Geophys. Res.*, **111**, D20106, doi: 10.1029/2005JD006772

Wang, A. H., X. Zeng, S.S.P. Shen, Q-C. Zeng, R.E. Dickinson, 2006. Timescales of Land Surface Hydrolog, *J. Hydrometeorol.*, **7**, 868-879

Yang, W., N.V. Shabanov, D. Huang, W. Wang, R.E. Dickinson, R.R. Nemani, Y. Knyazikhin and R.B. Myneni, 2006: Analysis of leaf area index products from combination of MODIS Terra and Aqua data, *Remote Sens. Environ.*, **104**, (3): 297-312

Wei, J., R.E. Dickinson, and N. Zeng., 2006: Climate variability in a simple model of warm climate land-atmosphere interaction, *J. Geophys. Res.- Atmos.*, **111**, G03009, doi:10.1029/2005JG000096

Zeng, X. D., A.H. Wang, Q.C. Zeng, R.E. Dickinson, X. Zeng, and S.S.P. Shen, 2006: Intermediately complex models for the hydrological interactions in the atmosphere-vegetation-soil system, *Adv. Atmos. Sci.*, **23**, 127-140

Gao, F., C.B. Schaaf, A.H. Strahler, A. Roesch, W. Lucht, and R.E. Dickinson, 2005, MODIS bidirectional reflectance distribution function and albedo Climate Modeling Grid products and the variability of albedo for major global vegetation types, *JGR*, **110**, D011041, doi:10.1029/2004-JD005190

Hall, D.K., M. Kaminski, D.J. Cavalieri, R.E. Dickinson, M. Marquis, G. A. Riggs, D.A. Robinson, M. Van Woert, and R.E. Wolfe, 2005: Earth Observing System Snow and Ice Products for Observation and Modeling, *Eos Trans, AGU*, **86**(7), 67, 10.1029/2005EO070004

Jin, M., R.E. Dickinson, and D.-L. Zhang, 2005: The Footprint of Urban Areas on Global Climate as Characterized by MODIS, *J. Clim.*, **18**, 1551-1565

Niu, G.-Y., Z.-L. Yang, R.E. Dickinson, and L.E. Gulden, 2005: A simple TOPMODEL-based runoff parameterization (SIMTOP) for use in global models, *J. Geophys. Res.*, **110**, D21106, doi:10.1029/2005JD006111.787

Pinty, B., A. Lattanzio, J.V. Martonchik, et al., 2005: *J. Atmos. Sciences*, **62**, (7), 2580-2591, Part 2

Steiner, A.L., J. S. Pal, F. Giorgi, et al., 2005: The coupling of the Common Land Model (CLM0) to a regional climate model (RegCM), *Theoretical and App. Clim.*, **82**, (3-3), 225-243

Wang, Z., M. Barlage, X. Zeng, R.E. Dickinson, and C. Schaaf, 2005: The solar zenith angle dependence of desert albedo, *GRL*, **32**, 105403, DOI: 10.129/2004gl021835

Wu, W.R., and R.E. Dickinson, 2005: Warm-season rainfall variability over the U.S. Great Plains and its correlation with evapotranspiration in a climate simulation, *Geo. Res. Ltrrs.*, **32**(17), Art. No. L17402

Zeng X. D., X. Zeng, S.S.P. Shen, and R.E. Dickinson, 2005: Reply to comment by Dekker and Rietkerk on Multiple equilibrium states and the abrupt transitions in a dynamical system of soil water interacting with vegetation?, *Geophys. Res. Lett.*, **32**, L09403, doi:10.1029/2004GL022339

Zeng, X. D., X. Zeng, S.S.P. Shen, R.E. Dickinson, and Q.-C. Zeng, 2005: Vegetation-soil water interaction within a dynamical ecosystem model of grassland in semi-arid areas, *Tellus*, **57B**, 189-202

Zeng, X.B., R.E. Dickinson, M. Barlage, et al., 2005: Treatment of undercanopy turbulence in land models, *J. Clim.*, **18** (23), 5086-5094

Zhou, L., R.E. Dickinson and Y. Tian, 2005: Derivation of a soil albedo dataset from MODIS using principal component analysis: Northern Africa and the Arabian Peninsula, *Geophys. Res. Lett.*, **32**, L21407, doi:10.1029/2005GL024448

Zhou, M., H. Yu, R.E. Dickinson, et al., 2005: A normalized description of the direct effect of key aerosol types on solar radiation as estimated from Aerosol Robotic Network aerosols and Moderate Resolution Imaging Spectroradiometer albedos, *J. Geophys. Res. – Atmos.*, **110** (d19): Art No. D19202.

Dai, Y., R.E. Dickinson, and Y.-P. Wang, 2004: A two-big-leaf model for canopy temperature, photosynthesis and stomatal conductance, *J. Clim.*, **17**, No. 12, 2281-2299

Tian, Y., R.E. Dickinson, L. Zhou, X. Zeng, Y. Dai, R.B. Myneni, Y. Knyazikhin, X., Zhang, M. Friedl, H. Yu, W. Wu, and M. Shaikh, 2004: Comparison of seasonal and spatial variations of leaf area index and fraction of absorbed photo synthetically active radiation from Moderate Resolution Imaging Spectroradiometer (MODIS) and Common Land Model, *J. Geophys. Res.*, **109**, doi:10.1029/2003JD003777

Tian, Y., R.E. Dickinson, L. Zhou, R.B. Myneni, M. Fried, C.B. Schaaf, M. Carroll, and F. Gao, 2004: Land boundary conditions from MODIS data and consequences for the albedo of a climate model, *Geophys. Res. Lett.*, **31**(5), L05504, 10.1029/2003GL019104

Tian, Y., R.E. Dickinson, L. Zhou, and M. Shaikh, 2004: Impact of new land boundary conditions from modis data on the climatology of land surface variables, *J. Geophys. Res.*, **109**, D20115, doi:10.1029/2003JD004499

Wang, Z., X. Zeng, M. Barlage, R.E. Dickinson, F. Gao, and C.B. Schaaf, 2004: Using MODIS BRDF and albedo data to evaluate global model land surface albedo, *J. Hydrometeorol*, **5**, 3-14
Wu, W., and R. E. Dickinson, 2004: Time scales of layered soil moisture memory in the context of land-atmosphere interaction, *J. Clim.*, **17**, 2752-2964

Yu, H., R.E. Dickinson, M. Chin, M. Zhou, Y.J. Kaufman, L. Zhou, Y. Tian, O. Dubovik, and B.N. Holben, 2004: Direct radiative effect of aerosols as determined from a combination of MODIS retrievals and GOCART simulations, *J. Geophys. Res.*, **109**, DO3206, doi:10.1029/2003JD003914

Zeng, X.-D., S.S.P. Shen, X. Zeng, and R.E. Dickinson, 2004: Multiple equilibrium states and the abrupt transitions in a dynamical system of soil water interacting with vegetation, *Geophys. Res. Lett.*, **31**(5), L05501, 10.1029/2003GL18910

Zhou, L., R.E. Dickinson, Y. Tian, J. Fang, Q. Li, R.K. Kaufmann, C.J. Tucker, and R.B. Myneni, 2004: Evidence for a significant urbanization effect on climate in China, *Proc. Natl. Acad. Sci.*, **101**(26), 9540-9544.

Buermann, W., B. Anderson, C.J. Tucker, R.E. Dickinson, W. Lucht, C.S. Potter, and R.B. Myneni (2003), Interannual covariability in Northern Hemisphere air temperatures and greenness

- associated with El Niño-Southern Oscillation and the Arctic Oscillation, *J. Geophys. Res.*, **108**(D13), 4396, doi:10.1029/2002JD002630
- Dai, Y., X. Zeng, R.E. Dickinson, I. Baker, G.B. Bonan, M.G. Bosilovich, A.S. Denning, P.A. Dirmeyer, P.R. Houser, G.-Y. Niu, K.W. Oleson, C.A. Schlosser, and Z.-L. Yang, 2003: The Common Land Model (CLM), *Bull. Amer. Meteor. Soc.*, **84**(8), 1013-1023
- Dickinson, R.E., G. Wang, X. Zeng, and Q.-C. Zeng, 2003: How Does the Partitioning of Evapotranspiration and Runoff between Different Processes affect the Variability and Predictability of Soil Moisture and Precipitation?, *Adv. in Atmos. Sci.*, **20**(3), 475-478
- Liu, Q., and R.E. Dickinson, 2003: Use of a two-mode soil pore size distribution to estimate soil water transport in a land surface model, *Geophys. Res. Lett.*, **30**(6), 1331, doi:10.1029/2002GLO16562
- Yu, H., R.E. Dickinson, M. Chin, Y.J. Kaufman, B.N. Holben, I.V. Geogdzhayev and M.I. Mishchenko, 2003: Annual cycle of global distributions of aerosol optical depth from integration of MODIS retrievals and GOCART model simulations, *J. Geophys. Res.*, **108**(D3), 4128, doi:1029/2002JD002717
- Zhou, L., R.E. Dickinson, Y. Tian, M. Jin, K. Ogawa, H. Yu and T. Schmugge, 2003. A sensitivity study of climate and energy balance simulations with use of satellite-derived emissivity data over Northern Africa and the Arabian Peninsula, *J. Geophys. Res.*, **108**(D24), 4795, doi: 10.1029/2003JD004083
- Zhou, L., R.E. Dickinson, Y. Tian, X. Zeng, Y. Dai, Z.-L. Yang, C.B. Schaaf, F. Gao, Y. Jin, A. Strahler, R.B. Myneni, H. Yu, W. Wu, and M. Shaikh, 2003: Comparison of seasonal and spatial variations of albedos from Moderate-Resolution Imaging Spectroradiometer (MODIS) and Common Land Model, *J. Geophys. Res.*, **108**(D15), 4488, doi: 10.1029/2002JD003326
- Zhou, L., R.E. Dickinson, K. Ogawa, Y. Tian, M. Jin, T. Schmugge, and E. Tsvetsinskaya, 2003: Relations between albedos and emissivities from MODIS and ASTER data over North African Desert, *Geophys. Res. Lett.*, **30**(20), 2026, doi: 10/1029/2003GL018069.
- Bonan, G. B., K.W. Oleson, M. Vertenstein, S. Levis, X. Zeng, Y. Dai, R.E. Dickinson, and Z.-L. Yang, 2002: The Land Surface Climatology of the Community Land Model Coupled to the NCAR Community Climate Model, *J. Climate*, **15**, 3123-3149
- Buermann, W., Y. Wang, J. Dong, L. Zhou, Z. Zeng, R.E. Dickinson, C.S. Potter, and R.B. Myneni, 2002: Analysis of a multiyear global vegetation leaf area index data set, *J. of Geophysical Research*, **107**, D22, 4646, doi:10.1029/2001JD000975
- Dickinson, R.E., S.E. Zebiak, et al., 2002: How Can We Advance Our Weather and Climate Models as a Community?, *Bulletin. Amer. Meteor. Soc.*, **83**, No. 3, 431-434
- Dickinson, R.E., J. Kiehl, and P. Gent, 2002: Widely Awaited Community Climate System Model to be Released Soon, *EOS, Transactions, American Geophysical Union*, **83**, No. 11, 119
- Dickinson, R.E., J.A. Berry, G.B. Bonan, G.J. Collatz, C.B. Field, I. Y. Fung, M. Goulden, W.A. Hoffman, R.B. Jackson, R. Myneni, P. J. Sellers, and M. Shaikh, 2002: Nitrogen Controls on Climate Model Evapotranspiration, *J. Clim.*, **15**, No. 3, 278-295
- Jin, M. and R.E. Dickinson, 2002: New Observational Evidence for Global Warming from Satellite Data Set, *Geophys. Res. Lett.*, **29**, No. 10, 10.1029/2001GLO013833

Jin, Y., C. Schaaf, F. Gao, X. Li, A. Strahler, X. Zeng, and R.E. Dickinson, 2002: How does snow impact the albedo of vegetated land surfaces as analyzed with MODIS data?, *Geophys. Res Lett.*, **29**, 10.1029/2001GLO14132

Tsvetsinskaya, E.A., C.B. Schaaf, F. Gao, A.H. Strahler, R.E. Dickinson, X. Zeng, and W. Lucht, 2002: Relating MODIS-derived surface albedo to soils and rock types over Northern Africa and the Arabian Peninsula, *GRL*, **29**, No. 9, 10.1029/2001GLO14096

Wu, W., M.A. Geller and R.E. Dickinson, 2002: The Response of Soil Moisture to Long-Term Variability of Precipitation. *Journal of Hydrometeorology*, Vol. 3, No. 5, pp. 604-613

Wu, W., M.A. Geller, and R.E. Dickinson, 2002: A Case Study of Land Model Evaluation: Simulation of Soil Moisture Amplitude Damping and Phase Shift, *J. of Geophysical Res.*, **107**, No. D24, 4793, doi:10.1029/2001JD001405

Yu. H., S.C. Liu, and R.E. Dickinson, 2002: Radiative Effects of Aerosols on the Evolution of the Atmospheric Boundary Layer, *J. of Geophysical Res.*, **107**, No. D12, 4142, doi:10.1029/2001JD000754

Zeng, X., M. Shaikh, Y. Dai, R.E. Dickinson, and R. Myneni, 2002: Coupling of the Common Land Model to the NCAR Community Climate Model, *J. of Climate*, **15**, 1832-1854