

John R. Christy
Distinguished Professor of Atmospheric Science
Director, Earth System Science Center
Alabama State Climatologist
University of Alabama in Huntsville

**RESEARCH
EXPERIENCE:**

Climate dynamics, Global-scale processes, Satellite temperatures

EDUCATION:

1987-Ph.D. Atmospheric Sciences, University of Illinois
1984-M.S. Atmospheric Sciences, University of Illinois
1982-1987 Graduate Research Assistant
University of Illinois (summer 1985 at NCAR)
1978-M.Div. Golden Gate Baptist Theological Seminary, Mill Valley
1973-B.A. Mathematics, California State University, Fresno

**PROFESSIONAL
EXPERIENCE:**

2000 - Alabama State Climatologist
1999 - Professor of Atmospheric Science, (tenure-95), UAH
Director Earth System Science Center, UAH
1991-1999 Assistant/Associate Professor of Atmospheric Science, UAH
1989-1991 Research Scientist, UAH
Instructor in Atmospheric Science, UAH
Assistant State Climatologist
1987-1989 Senior Research Associate, UAH
Instructor in Atmospheric Science, UAH
1983-1987 Instructor of Mathematics
Parkland College, Champaign IL
1981-1982 Instructor of Mathematical Sciences
University of South Dakota, Vermillion SD
1980-1981 Instructor of Mathematics
Yankton College, Yankton SD
1978-1982 Pastor: Grace Baptist Church, Vermillion SD
1973-1975 Science Master: Baptist High School, Nyeri, Kenya

**PROFESSIONAL
SOCIETIES:**

American Meteorological Society (Fellow 2002)

HONORS

2012 Faculty Award for Excellence, College of Science
2012 Faculty Award for Research Excellence, University-wide

2011 Quest for Excellence, SciQuest
 2008 Distinguished Professor, University of Alabama in Huntsville
 2007 Distinguished Alumnus, Calif. St. Univ., Fresno
 2002 Fellow, American Meteorological Society
 1996 Special Award, American Meteorological Society "for developing a global, precise record of earth's temperature from operational polar-orbiting satellites, fundamentally advancing our ability to monitor climate."
 1994 Award for Research in Physical and Mathematical Sciences, UAH Foundation
 1993 Distinguished Research Award, UAH Alumni Association
 1991 Medal for Exceptional Scientific Achievement, NASA Headquarters
 1991 NASA Technical Innovation Award, MSFC
 1983 Departmental Fellow, University of Illinois Urbana-Champaign
 1978 Outstanding Young Men of America
 1973 Summa Cum Laude, Phi Kappa Phi, California State University, Fresno

AWARDS

Climate Model Energy Analysis (P.I.) DOE 2014-2017	\$500k
Risk Reduction in Agriculture of the Southeast (P.I.) USDA 2011-13	\$100k
Climate Model Evaluation (P.I.) DOE 2009-2013	\$1,800k
Risk Reduction in Agriculture of the Southeast (P.I.) USDA 2009-10	\$190k
Climate Research Program (P.I.) NOAA 2006-9	\$1,000k
Risk Reduction in Agriculture of the Southeast (P.I.) USDA 2006-8	\$275k
Risk Reduction in Agriculture of the Southeast (P.I.) USDA 2005-7	\$275k
Risk Reduction in Agriculture of the Southeast (P.I.) USDA 2004-5	\$72k
Climate Research Program (P.I.) 2005-2008 NOAA	\$1,000k
Climate Action Project (P.I.) 2004-7 DOE	\$1,000k
Improvement and Implementation of Homogeneous Segment Technique (P.I.) 2003-06 NSF	\$195k
Risk Reduction in Agriculture of the Southeast (P.I.) 2003-04, USDA	\$43k
Tropospheric Temperature Studies, NOAA/NASA Global Change. (P.I.) 1999-2002	\$218k
Monitoring and Assessing Climate Variability and Change – DOT (P.I.) 1999-2006	\$ 1,700k
Climate Products from MSU Global Data - NOAA/NASA (Co.I) 1997-2000	\$190k
Optimizing the Merging Strategies for MSU Global Data - NASA HQ/ Pathfinder (P.I.) 1995-97	\$125k
Climate Variability and Atmospheric Carbon Concentrations -DOE/NIGEC (P.I.) 1995-98	\$270k
Atmospheric Variability Studies - TVA (P-I) 1994-96	\$ 750k
Institute for Global Change Research and Education - NASA (Co-I) 1994-97	\$ 15,000k
Development of a Daily Satellite Temperature Data Set and Comparison with U.S. Station Data. NOAA/NCDC (P-I) (July 1993)	\$ 4k
Climate Model Validation Using MSU Global Temperatures DOE/NIGEC (P-I) (1992-95)	\$290k
Global Climate Variability Studies Using Microwave Brightness Temperatures NOAA/Global Change (P-I) (1992-4)	\$ 121k
Monitoring, Analyzing and Modeling the Global Earth System NASA/MSFC (P-I) (1992-94)	\$928k
Global Warming Studies. State of Alabama 1991	\$ 50k
Global-Scale, Intraseasonal Fluctuations of Diabatic Forcing of the Atmosphere (P-I) NASA/HQ January 1989 - December 1991	\$ 179k
Dynamics and Cycling of Water in the Geophysical Environment (Co-I) NASA/HQ July 1989 - December 1990	\$ 76k
High-Resolution Surface Temperature Calculations (P-I) NOAA/NCDC July 1989	\$ 4k

SERVICE

Congressional: House Committee on Science, Space and Technology, 29 Mar 2017
House Committee on Science, Space and Technology, 2 Feb 2016
Senate Committee on Commerce, Science, Transportation, 8 Dec 2015
House Committee on Natural Resources, 13 May 2015
House Committee on Science, Space and Technology, 11 Dec 2013
House Committee on Energy and Commerce, 20 Sep 2012
Senate Committee on Environment and Public Works, 1 Aug 2012
House Committee on Science, Space and Technology, 31 Mar 2011
House subcommittee on Energy and Power, 8 Mar 2011
House Ways and Means Committee 25 Feb 2009
Senate Committee, Commerce, Science, Transportation 14 Nov 2007
House Subcommittee, Energy and Air Quality, 7 Mar 2007
House Subcommittee, Energy and Commerce, 27 July 2006
House Committee on Government Reform, 20 July 2006
House Committee on Resources 13 May 2003
Senate Committee on the Environment and Public Works, 2 May 2001
Senate Committee on Commerce, Science and Transportation, 17 May 2000
House Committee on Small Business, 29 July 1998
Senate Committee on the Environment and Public Works, 10 July 1997
House Committee on Science, 9 March 1996

Peer Review: *Nature*
Science
Journal of Climate
Journal of Applied Meteorology
Monthly Weather Review
Climatic Change
Global and Planetary Change
Geophysical Research Letters
Journal of Atmospheric Research
Journal of Geophysical Research
Quarterly Journal of the Royal Meteorological Society
International Journal of Climatology

Proposal Review National Science Foundation
NOAA/Global Change Program, Pathfinder Program
DOE/NIGEC Southeastern Regional Review
NASA/Earth Science and Applications Division and EOS/TRMM
California Space Institute
Australian Research Council

Program Review NOAA/National Evaluation Panel: Regional Climate Centers 1991-4
NOAA/National Review Panel: National Climatic Data Center 1993-6
NOAA/Pathfinder Review Panel 1995-96
NOAA/NASA Program for Global Change Studies 1997

Committees International Organizing Committee, Surface Temperatures 2010-
NASA: Earth Science Subcommittee to NAC, 2006-2011
NRC/NAS: Temperatures of last millennium 2006
Science Advisory Panel, Climate Reference Network, NCDC, 2003-4.
National Research Council (NRC), Com. Env. Sat. Data Utilization 2004
NRC, Letter Report to NESDIS, 2000
NRC, Review of NASA Science Plan, 2000
NRC, Panel on Global Temperatures 1999-2000
Board of Oceans and Atmos., Nat. Assoc. Univ. & Land Gr. Col.1999-

Global Climate Observing System Rep. for GOSSP 1998-2002
NRC, Space Studies Board CES, 1998-2001
Chairman: Atmospheric Circulation Requirements Panel, NPOESS (1996)
Chairman: Temperature above surface layer , GCOS (1995)
Ala. Academy of Sciences, Panel on Environmental Concerns (1995-7)
Greenhouse Detection Experiment (GEDEX/NASA - 1991)
UAH Graduate Council (1991-3, Alternate 1993-5)
UAH Graduate Curriculum Committee (1993-5)
Southeast Regional Climate Center: Research and Technical Committee
Aspen Institute for Global Change, 1989

Expert Contributor U.S. Federal Court, Qualified as Expert Witness, 2007
Climate Change Science Program, Vertical Temperature Trends 2005
Convening Lead Author
American Geophysical Union, Statement on Climate Change 2003
Intergovernmental Panel on Climate Change (IPCC), United Nations
2013 Expert Reviewer: Scientific Assessment of Climate Change
2007 Contributor: Impacts, Adaptation and Vulnerability
2007 Contributor: Scientific Assessment of Climate Change
2001 Lead Author: Scientific Assessment of Climate Change
1995 Key Contributor: Scientific Assessment of Climate Change
1994 Contributor: Radiative Forcing of Climate
1992 Contributor: Scientific Assessment of Climate Change
National Academy of Sciences, Climate Observations (1995)
National Research Council, Satellite Observations for Climate (1997)

PhD Students Graduated

Justin Jay Hnilo, Ph.D. A Comparison of GCM and MSU Temperatures for the AMIP Experiment 1996
Chul-Soon Yoon, Ph.D. Global Temperature Predictability Through Univariate Empirical Modeling 1998
Kerry Lee Burns, Ph.D. Detection and Diagnosis of Very Rapid Tropospheric Temperature Changes over
a Large Pole-Centered Spatial Domain Using an Energy Budget Approach 2002
Leslie Ann Litten, Ph.D. Identification of Non-Thermometric Influences on MSU Tropospheric Brightness
Temperatures 2005

PUBLICATIONS

Reviewed:

Christy, J.R., S. Po-Chedley, C. Mears and L. Haimberger: **2019**: Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2018"], *Bull. Amer. Meteor. Soc.* 100, (8), S16-S17. DOI:1-.1175/2019BAMSSStateoftheClimate.I.

Christy, J.R., C. Covey and W. Randel: **2019**: Lower stratospheric temperature [Global climate; Temperature; Lower Stratospheric Temperature [in "State of the Climate in 2018"], *Bull. Amer. Meteor. Soc.* 100, (8), S17-S19. DOI:1-.1175/2019BAMSSStateoftheClimate.I.

Christy, J.R., **2019**: Examination of extreme rainfall events in two regions of the United States since the 19th century. *AIMS Environ. Sci.*, in press.

Maycock, A.C., W.J. Randall, A.K. Steiner, A.Y. Karpechko, J.R. Christy, R. Saunders, D.W.J. Thompson, C-Z Zou, A. Chrysanthou, N.L. Abraham, et al., **2018**, Revisiting the mystery of recent stratospheric temperature trends. *Geophys. Res. Lett.* DOI:10.1029/2018GL078935.

Christy, J.R., S. Po-Chedley and C. Mears: **2018**, Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2017"], *Bull. Amer. Meteor. Soc.* 99, (8), S16-S17. DOI:1-.1175/2018BAMSSStateoftheClimate.I.

Christy, J.R. and C. Covey: **2018**, Lower stratospheric temperature [Global climate; Temperature; Lower Stratospheric Temperature [in "State of the Climate in 2017"], *Bull. Amer. Meteor. Soc.* 99, (8), S17-S19. DOI:1-.1175/2018BAMSSStateoftheClimate.I.

McKittrick, R. and J.R. Christy, **2018**: A test of the tropical 200-300 hPa warming rate in climate models. *Earth and Space Science*, American Geophys. Un. DOI:10.1029/2018EA000401.

Christy, J.R., R.W. Spencer, W.D. Braswell and R. Junod, **2018**: Examination of space-based bulk atmospheric temperatures for climate research. *Int. J. Remote Sens.*, 39:11, 3580-3607, DOI:10.1080/01431161.2018.1444293

Chylek, P., P. Tans, J. Christy, and M. Dwyer, **2018**: Two El Nino Types: An Observational Study. *Env. Res. Lett.*, DOI/10.1088/1748-9326/aa9c5b

Christy, J.R. and R.T. McNider, **2017**: Satellite bulk tropospheric temperatures as a metric for climate sensitivity. *A-P J. Atmos. Sci.*, 53(4), 1-8, DOI:10.1007/s13143-017-0070-z.

Christy, J.R.: **2017**, Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2016"], *Bull. Amer. Meteor. Soc.* 98, (8), S16-S17. DOI:1-.1175/2017BAMSSStateoftheClimate.I.

Long, C. and J.R. Christy: **2017**, Lower stratospheric temperature [Global climate; Temperature; Lower Stratospheric Temperature [in "State of the Climate in 2016"], *Bull. Amer. Meteor. Soc.* 98, (8), S17-S19. DOI:1-.1175/2017BAMSSStateoftheClimate.I.

Spencer, R.W., J.R. Christy and W.D. Braswell, **2017**: UAH version 6 global satellite temperature products: Methodology and results. *Asia-Pac J. Atmos. Sci.*, 53(1), 121-130, DOI:10.1007/s13143-017-0010-y.

Christy, J.R.: **2016**, Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2015"], *Bull. Amer. Meteor. Soc.* 97, (7), 9-10.

- Markonis, Y., A.N. Angelakis, J.R.Christy and D. Koutsoyiannis, **2016**: Climatic variability and the evolution of water technologies in Crete, Hellas. *Water Hist.* Springer. DOI:10.1007/s12685-016-0159-9.
- Christy, J.R. and R.T. McNider, **2016**: Time series construction of summer surface temperature for Alabama, 1883-2014, and comparisons with tropospheric temperatures and climate model simulations. *J. Appl. Meteor. Climatol.*, 55, DOI:10.1175/JAMC-D-15-0287.1
- Christy, J.R.: **2015**, Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2014"], *Bull. Amer. Meteor. Soc.* 96, (7), 9-10.
- McNider, R.T., C. Handyside, K. Doty, W.L. Ellenburg, J.F. Cruise, J.R. Christy, D. Moss, V. Sharda and G. Hoogenboom. (2014) An Integrated Crop and Hydrologic Modeling System to Estimate Hydrologic Impacts of Crop Irrigation Demands. *Environmental Modeling and Software*, In Press, available online November 1, **2014**. ISSN 1364-8152, DOI:10.1016/j.envsoft.2014.10.009
- Rennie, J.J., J.H. Lawrimore, B.E. Gleason, P.W. Thorne, C.P. Morice, M.J. Menne, C.N. Williams, W. Gambi de Almeida, J.R. Christy, M. Flannery, M. Ishihara, K. Kamiguchi, A.M.G. Klein-Tank, A. Mhanda, D.H. Lister, V. Razuvaev, M. Renom, M. Rusticucci, J. Tandy, S.J. Worley, V. Venema, W. Angel, M. Brunet, B. Dattore, H. Diamond, M.A. Lazzara, F. Le Blancq, J. Luterbacher, H. Machel, J. Revedekar, R.S. Vose and X. Yin., **2014**: The international surface temperature initiative global land surface databank: monthly temperature data release description and methods. *Geosci. Data J.*, DOI:10.1002/gdj3.8.
- Christy, J.R., **2014**, Lower tropospheric temperature [Global climate; Temperature; Lower Tropospheric Temperature [in "State of the Climate in 2013"], *Bull. Amer. Meteor. Soc.* 95, (7), 10-11.
- Douglass, D.H. and J.R. Christy, **2013**: Reconciling observations of global temperature change: **2013**. *Energy Env.* 24, 415-419.
- Christy, J.R., **2013**: Monthly temperature observations for Uganda. *J. Applied Meteor. Clim.* 52, 2363-2372. DOI: 10.1175/JAMC-D-13-012.1.
- Christy, J.R. **2013**: Comment on "A bias in the midtropospheric channel warm target factor on the NOAA-9 Microwave Sounding Unit" by Po-Chedley and Fu. *J. Atmos. Oc. Tech.* DOI:10.1175/JTECH-D-12-00107.1
- Christy, J.R., **2013**: Reply to "Comments on 'Searching for Information in 133 Years of California Snowfall Observations'". *J. Hydrometeor.*, 14, 383-386. DOI:10.1175/JHM-D-12-089.1
- McNider, R.T., G.J. Steeneveld, A.A.M. Holtslag, R.A. Pielke Sr., S. Mackaro, A. Pour-Biazar, J. Walters, U. Nair, and J.R. Christy, **2012**: Response and sensitivity of the nocturnal boundary layer over land to added longwave radiative forcing. *J. Geophys. Res.*, 117, D14106, doi:10.1029/2012JD017578.
- Christy, J.R., **2012**: Searching for information in 133 years of California snowfall observations. *J. Hydrometeor.* 13, 895-912. DOI:10.1175/JHC-D-11-040.1.
- Thorne, P.W., K.M. Willett, R.J. Allan, S. Bojinski, J.R. Christy, N. Fox, S. Gilbert, I. Jolliffe, J.J. Kennedy, E. Kent, A.K. Tank, J. Lawrimore, D.E. Parker, N. Rayner, A. Simmons, L. Song, P.A. Stott and B. Trewin, **2011**: Guiding the creation of a comprehensive surface temperature resource for twenty-first-century climate science. *Bull. Amer. Meteor. Soc.*
- Fall, S., A. Watts, J. Nielsen-Gammon, E. Jones, D. Niyogi, J. Christy and R. Pielke, Sr., **2011**: Analysis of the impacts of station exposure on the U.S. Historical Climatology Network temperatures and temperature trends. *J. Geophys. Res.*, 116, D14120, doi:10.1029/2010JD015146.
- McNider, R.T., J.R. Christy, D. Moss, K. Doty, C. Handyside, A. Limaye, A. Garcia and G. Hoogenboom, 2011: A real-time gridded crop model for assessing spatial drought stress on crops in the Southeastern United States. *J. App. Meteor. Clim.*, 50, 1459-1475, DOI:10.1175/2011JAMC2476.1.

- Christy, J.R., R.W. Spencer and W.B Norris (deceased), **2011**: The role of remote sensing in monitoring global bulk tropospheric temperatures. *Int. J. Remote Sens.* 32, 671-685, DOI:10.1080/01431161.2010.517803.
- Herman, B.M., M.A. Brunke, R.A. Pielke Sr., J.R. Christy and R.T. McNider: 2010, Satellite global and hemispheric lower tropospheric temperature annual temperature cycle. *Remote Sens.*, 2(11), 2561-2570. DOI:10.3390/rs2112561.
- Christy, J.R., B. Herman, R. Pielke, Sr., P. Klotzbach, R.T. McNider, J.J. Hnilo, R.W. Spencer, T. Chase and D. Douglass, **2010**: What do observational datasets say about modeled tropospheric temperature trends since 1979? *Remote Sens.* 2, 2138-2169. Doi:10.3390/rs2092148.
- Christy, J.R. and J.J. Hnilo, **2010**: Changes in snowfall in the southern Sierra Nevada of California since 1916. *Energy and Env.*, 21, 223-234.
- Klotzbach, P. J., R. A. Pielke Sr., R. A. Pielke Jr., J. R. Christy, and R. T. McNider, **2010**: Correction to “An alternative explanation for differential temperature trends at the surface and in the lower troposphere”, *J. Geophys. Res.*, 115, D01107, doi:10.1029/2009JD013655.
- Christy, J.R., **2010**: IPCC: cherish it, tweak it or scrap it? Open debate: Wikipedia-style. *Nature*, 463, 11 Feb 2010, 732 (Invited and reviewed by editors).
- Klotzbach, P. J., R. A. Pielke Sr., R. A. Pielke Jr., J. R. Christy, and R. T. McNider, **2009**: An alternative explanation for differential temperature trends at the surface and in the lower troposphere, *J. Geophys. Res.*, 114, D21102, doi:10.1029/2009JD011841.
- Christy, J.R., W.B. Norris and R.T. McNider, 2009: Surface temperature variations in East Africa and possible causes. *J. Clim.* 22, DOI: 10.1175/2008JCLI2726.1.
- Douglass, D.H. and J.R. Christy, 2009: Limits on CO2 climate forcing from recent temperature data of earth. *Energy and Environ.*, 20, 177-189, DOI: 10.1260/095830509787689277 (Invited paper, reviewed by Editor.)
- Christy, J.R. and W.B. Norris, 2009: Discontinuity issues with radiosondes and satellite temperatures in the Australian region 1979-2006. *J. Atmos. Oc. Tech.*, 26, 508-522, DOI: 10.1175/2008JTECHA1126.1
- Sakamoto, M. and J.R. Christy, 2009: The influences of TOVS radiance assimilation on temperature and moisture tendencies in JRA-25 and ERA-40. *J. Atmos. Oc. Tech.*, doi:10.1175/2009JTECHA1193.1.
- Douglass, D.H., J.R. Christy, B.D. Pearson and S.F. Singer, 2007: A comparison of tropical temperature trends with model predictions. *International J. Climatology*, DOI: 10.1002/joc.1651.
- Christy, J.R., W.B. Norris and K.P. Gallo, 2007: Reply. *J. Climate*, 20, 4490-4493.
- Spencer, R.W., W.D. Braswell, J.R. Christy and J.J. Hnilo, 2007: Cloud and radiation budget changes associated with tropical intraseasonal oscillations. *Geophys. Res. Lett.*, 34, doi:10.1029/2007/GL029698, 2007.
- Walters, J.T., R.T. McNider, X. Shi, W.B. Norris and J.R. Christy, 2007: Positive surface temperature feedback in the stable nocturnal boundary layer. *Geophys. Res. Lett.* doi:10.1029/2007GL029505.
- Christy, J. R., W. B. Norris, R. W. Spencer, and J. J. Hnilo, 2007: Tropospheric temperature change since 1979 from tropical radiosonde and satellite measurements, *J. Geophys. Res.*, 112, D06102, doi:10.1029/2005JD006881.

- Christy, J.R. and W.B. Norris, 2006: Satellite and VIZ-Radiosonde intercomparisons for diagnosis on non-climatic influences. *J. Atmos. Oc. Tech.*, 23, 1181 – 1194.
- Spencer, R.W., J.R. Christy, W.D. Braswell and W.B. Norris, 2006: Estimation of tropospheric temperature trends from MSU channels 2 and 4. *J. Atmos. Oc. Tech.*, 23, 417-423.
- Christy, J.R., 2006: The ever-changing climate system. *Cumberland Law Review*, 36 No. 3, 493-504,
- Christy, J.R., W.B. Norris, K. Redmond and K. Gallo, 2006: Methodology and results of calculating central California surface temperature trends: Evidence of human-induced climate change? *J. Climate*, 19, 548-563.
- Christy, J.R. and R.W.Spencer, 2005: Correcting temperature data sets. *Science*, 310, 972.
- Thorne, P.W., D.E. Parker, J.R. Christy and C.A. Mears, 2005: Uncertainties in climate trends: Lessons from upper air records. *Bull. Amer. Meteor. Soc.*, 86, 1437-1442.
- Durre, I., T. Reale, D. Carlson, J.R. Christy, M. Uddstrom, M. Gelman, P. Thorne, and contributors from workshop participants, 2005: Improving the usefulness of operational radiosonde data. *Bull. Amer. Meteor. Soc.*, 86, 411-418. DOI:10.1175/BAMS-86-3-411.
- Seidel, D.J., J.K. Angell, J.R. Christy, M. Free, S.A. Klein, J.R. Lanzante, C. Mears, D. Parker, M. Schabel, R. Spencer, A. Sterin, P. Thorne and F. Wentz, 2004: Uncertainty in signals of large-scale climate variations in radiosondes and satellite upper-air temperature datasets. *J. Climate*, 17, 2225-2240,
- Christy, J.R. and W. B. Norris, 2004: What may we conclude about global tropospheric temperature trends? *Geophys. Res. Lett.* 31, No. 6.
- Christy, J.R. and R.W. Spencer, 2003: Reliability of satellite data sets. *Science*, 301, 1046-1047.
- Christy, J.R. 2003 Response to: “Wanted: Scientific Leadership on Climate.” *Issues in Science and Technology*. National Academy of Sciences. Summer 2003, 9-10.
- Douglass, D., B. D. Calder, J.R. Christy, P.J. Michaels and D.A. Belsley, 2003: Tests for harmful collinearity among predictor variables used in the modeling of the global temperature. *Clim Res*, 24, 15-18.
- Christy, J.R., R.W. Spencer, W.B. Norris, W.D. Braswell and D.E. Parker, 2003: Error estimates of Version 5.0 of MSU/AMSU bulk atmospheric temperatures. *J. Atmos. Oceanic Tech.* 20, 613-629.
- Christy, J.R., 2003: “Measuring Global Temperatures”, Handbook of Weather, Climate and Water. Potter, T. and Colman, B. Eds. Wiley & Sons, 869-883.
- Waple, A.M., J.H. Lawrimore, M.S. Halpert, G.D. Bell, W. Higgins, B. Lyon, M.J. Menne, K.L. Gleason, R. C. Schnell, J.R. Christy, W. Thiaw, W.J. Wright, M.J. Salinger, L. Alexander, R.S. Stone and S.J. Camargo, 2002: Climate Assessment for 2001. *Bull. Amer. Meteor. Soc.*, 83, S1-S62.
- Free, M., I. Durre, E. Aguilar, D. Seidel, T. C. Peterson, R. E. Eskridge, J. K. Luers, D. Parker, M. Gordon, J. Lanzante, S. Klein, J. R. Christy, S. Schroeder, B. Soden, L.M. McMillin and e. Weatherford, 2002: Creating climate reference datasets: CARDS workshop on adjusting radiosonde temperature data for climate monitoring. *Bull. Amer. Meteor. Soc.*, 83, 891-899.
- Christy, J.R., 2002: When was the hottest summer? A State Climatologist struggles for an answer. *Bull. Amer. Met. Soc.* 83, 723-734.
- Christy, J.R., 2001: Temperature, Troposphere. *Encyclopedia of Global Environmental Change*. Wiley Co. United Kingdom.

- Christy, J.R., D.E. Parker, S.J. Brown, I. Macadam, M. Stendel and W.B. Norris, 2001: Differential trends in tropical sea surface and atmospheric temperatures. *Geophys. Res. Lett.* **28**, 183-186.
- Folland, C.K., T.R. Karl, J.R. Christy, R.A. Clarke, G.V. Gruza, J. Jouzel, M.E. Mann, J. Oerlemans, M.J. Salinger and S.-W. Wang, 2001: Observed climate variability and change. In: *Climate Change 2001: The Scientific Basis. Contribution of Working Group I to the Third Assessment Report of the Intergovernmental Panel on Climate Change* [Houghton, J.T., Y. Ding, D.J. Griggs, M. Noguer, P.J. van der Linden, X Dai, K. Maskell, and C.A. Johnson (eds.)]. Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA, 881 pp.
- Winter, A., O. Tadamichi, H. Ishioroshi, T. Watanabe and J. R. Christy, 2000: A two-to-three degree cooling of Caribbean sea surface temperatures during the Little Ice Age. *Geophys. Res. Lett.*, **27**, 3365-3368.
- Hurrell, J., S.J. Brown, K.E. Trenberth and J.R. Christy, 2000: Comparison of tropospheric temperatures from radiosondes and satellites: 1979-1998. *Bull. Amer. Met. Soc.*, **81**, 2165-2177.
- Christy, J.R., 2000: Global Climate Change: Scientific and Social Impacts. *Bridges*. **7**, 39-57.
- Christy, J.R., R.W. Spencer, and W.D. Braswell, 2000: MSU Tropospheric temperatures: Data set construction and radiosonde comparisons. *J. Atmos. Oceanic Tech.* **17**, 1153-1170.
- Stendel, M., J.R. Christy and L. Bengtsson, 2000: Assessing levels of uncertainty in recent temperature time series. *Climate Dynamics*, **16**(8), 587-601.
- Gaffen, D.J., B.D. Santer, J.S. Boyle, J.R. Christy, N.E. Graham, R.J. Ross, 2000: Multidecadal changes in the vertical structure of the tropical troposphere. *Science*, **287**, 1242-1245. (selected as a NOAA Research Outstanding Scientific Paper Award 2001).
- Christy, J.R., R.W. Spencer, and E. Lobl, 1998: Analysis of the merging procedure for the MSU daily temperature time series. *J. Climate*, **11**, 2016-2041.
- Christy, J.R., 1997: Arctic temperatures above the surface layer from the microwave sounding unit. *Arctic Monitoring and Assessment Program's Scientific Report*.
- Christy, J.R., R.W. Spencer, and D. Braswell, 1997: How accurate are satellite 'thermometers'?, *Nature*, **389**, 342-3.
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