

**COMMITTEE ON NATURAL RESOURCES**  
**114<sup>th</sup> Congress Disclosure Form**  
**As required by and provided for in House Rule XI, clause 2(g)(5)**

*"The Obama Administration's CEQ Recently Revised Draft Guidance for GHG Emissions and the Effects of Climate Change."*

May 13, 2015

**For Individuals:**

Name: John R. Christy

Address: [REDACTED]

Email Address: [REDACTED]

Phone Number: [REDACTED]

\* \* \* \* \*

**For Nongovernment Witnesses ONLY:**

1. Please attach/include current curriculum vitae or resume. (separate file)
2. Please list any federal grants or contracts (including subgrants or subcontracts) related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the source and amount of each grant or contract.

Christy Awards and Pending Proposals from Fiscal Year 2007 (10/1/06)

Role	Proposal Number	Title	SubAgency	Status	Proposed \$	Date Submitted
Awarded						
PI	2014-854	National Climate Assessment	MSFC	Awarded	\$30,000.00	30-Sep-14
PI	2014-698	NOAA SciTech Task 0006 NCDC Center Support Toward Understanding the Significant Disparity between Observations and Climate	Global Science and Technology, Inc. (GST)	Awarded	\$40,000.00	28-Jul-14
PI	2014-519	Model Simulations of the Tropical Atmosphere	DOE	Awarded	\$500,000.00	13-May-14
PI	2013-720	Microwave-based Deep Layer Temperature Datasets	NOAA	Awarded	\$40,130.00	23-Jul-13
PI	2013-332	NSSTC Security/Receptionist	MSFC	Awarded	\$120,956.00	18-Feb-13
PI	2012-818	Microwave-based Deep Layer Temperature Datasets	NOAA	Awarded	\$40,112.00	10-Sep-12
PI	2012-281	State Climatologist 2011-2012	ADAI	Awarded	\$182,225.00	07-Feb-12

3. Please list any contracts or payments originating with a foreign government related to the subject matter of the hearing that were received in the current year and previous two calendar years by you or the organization(s) you represent at this hearing, including the amount and country of origin of each contract or payment.

None

**John R. Christy**  
**Distinguished Professor of Atmospheric Science**  
**Director, Earth System Science Center**  
**Alabama State Climatologist**  
**University of Alabama in Huntsville**  
**Huntsville, AL 35899**  
 (Oct 2014)

**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  
 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  
 1987-1989      Senior Research Associate, 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  
 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  
 2008      Distinguished Professor, University of Alabama in Huntsville  
 2007      Distinguished Alumnus, College of Science, 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."  
 1993      Distinguished Research Award, UAH Alumni Association  
 1991      NASA Medal for Exceptional Scientific Achievement, NASA Headquarters  
 1991      NASA Technical Innovation Award, MSFC

**SERVICE**

**Congressional:**

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

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 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) Aspen Institute for Global Change, 1989
Expert Contributor	American Physical Society, 2014 one of six national scientists selected to present research to APS Committee on Climate Change 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)

#### **PUBLICATIONS (since 2005 only, 80 total)**

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.

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.