

A list of awards won by groups and individuals for research, development, and/or application

2000—2010

International

2007 Nobel Peace Prize: Intergovernmental Panel on Climate Change (IPCC) -- NOAA contributors including James K. Angell, Dian Gaffen (Seidel), William P. Elliott, and Melissa Free contributed significantly to the IPCC process and thus share in the credits for the 2007 Nobel Peace Prize that was awarded jointly to Albert Arnold Gore, Jr. and the IPCC, “for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change.”

Norbert Gerbier-Mumm International Award, World Meteorological Organization

Tilden P. Meyers, et al. (2004) -- In recognition of their paper entitled “Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation.” *Agricultural and Forest Meteorology*, 113, 97-120 (2002).

James Angell, Dian J. Gaffen, et al. (2003) -- In recognition of their paper entitled: “Stratospheric temperature trends: observations and model simulations.” *Reviews of Geophysics*, 39, 1, 71-122 (2001).

International Technical Cooperation Panel Achievement Award

Rayford P. Hosker, Jr., et al. (2006) -- received as a member of the Department of Defense Chemical and Biological Defense Group's Technical Panel 9. The award was for acquiring and developing the world's most comprehensive database on urban flow and dispersion processes. The database is a crucial resource in developing and using accurate urban dispersion models necessary for advanced emergency response systems.

Chinese Academy of Sciences Outstanding Paper Award

Jianping Li, and Julian X.L. Wang (2003) – In recognition of their paper entitled: “A modified zonal index and its physical sense.” *Geophysical Research Letters*, Vol. 30, No.12, doi:1029/2003GL017441.

White House

Presidential Rank Award for Meritorious Senior Professionals

Bruce B. Hicks (2003) was cited for providing outstanding scientific leadership and direction of the laboratory. His visionary adaptation of Cold War-era studies of radioactive atmospheric particle and gas deposition has led to a myriad of applications involving a broad suite of atmospheric pollutants. The applications he enabled span from forecasting and assessment of air quality to a broad cross-section of scientific issues of concern. A few of Mr. Hicks' major accomplishments at NOAA include the development of methodologies to address exposure to toxic chemicals to assess threats against our troops in Kuwait; the development of a joint initiative with the U.S. Environmental Protection Agency to begin national forecasts of ozone and small particulates; and support for the Real-Time Environmental Applications and Display System to apply ARL science to matters of homeland security.

Professional Society

American Meteorological Society

Dian Seidel (2003) -- Fellow, American Meteorological Society

University and Industry Awards

Julian Wang (2008) -- Distinguished Alumna, Nanjing University of Information Science and Technology, China

Dian Seidel (2006) -- Distinguished Alumna, Department of Atmospheric and Oceanic Science, University of Maryland

Department of Commerce, National Oceanic and Atmospheric Administration, and Office of Oceanic and Atmospheric Research

Department of Commerce Gold Medal Awards

Roland R. Draxler (2009) -- "for being the driving force behind the initial development and continued improvement of the Hybrid Single-Particle Lagrangian Integrated Trajectory (HYSPLIT) atmospheric transport and dispersion modeling system."

Dian Seidel, et al. (2007) -- "for improving the understanding of observed climate change and causes by showing that global average atmospheric warming is similar to surface warming."

Timothy L. Crawford (2003) -- "Dr. Crawford was posthumously cited for pioneering scientific and engineering contributions to the Department through untiring and extensive personal efforts in establishing and advancing the small environmental research aircraft (SERA) concept for the study of airborne geosciences worldwide."

Tilden Meyers (2000) -- “for contributions to the field of air-surface exchange studies by significantly improving both measurements and predictions.”

Department of Commerce Silver Medals Awards

Alice Gilliland, et al. (2009) -- “for showing that projected changes in human emissions of short-lived gases and particles, which are controlled locally and regional throughout the world to improve air quality, may significantly influence climate in the 21st century.”

Randall C. Johnson (2007) -- “for successful development of an autonomous balloon instrument platform that has advanced our understanding of atmospheric behavior.”

Tanya Otte, Jonathan Pleim, George Pouliot, Kenneth Schere, and Jeffrey Young from ARL/ASMD and from NOAA NWS, Allan Darling, Paula Davidson, Geoffrey DiMego, Jeffery McQueen, and William Shaffer (2005) -- “for developing, testing, and implementing in less than two years the initial operational capability for national air quality forecasting.”

NOAA Bronze Medal Awards

Melissa Free, Dian Seidel, et al. (2007) -- “for developing research quality radiosonde atmospheric temperature datasets for reliably monitoring climate variability and change.”

ARL Field Research Division (2007) -- “for preeminent research on atmospheric observation technologies which has resulted in addressing issues of important national significance, including homeland security, hurricanes and air quality.”

Climate Reference Network Team including Tilden P. Meyers and Rayford P. Hosker (2005) -- “for the establishment of a new climate observing network dedicated to providing definitive answers about climate variability and change.”

Frank Aikman, Thomas Gross, John Kelley, Jeff McQueen (Silver Spring), and Laurence Breaker (2000) -- “for advancing the production and delivery of nowcasts and short-term forecasts of coastal atmospheric and oceanographic information for the Chesapeake.”

Gennaro H. Crescenti (2001) -- “for his leadership in the field of meteorological instrumentation and observation techniques.

John Augustine (2000) -- “for contribution in the field of Climate and Weather Forecasting Observing Systems.”

Timothy Crawford, Jerry Crescent, and Jeff French (2000) -- “for design and application of a novel airborne instrument system to advance scientific knowledge of air-sea exchange.”

Barbara Stunder, Jerome Heffter, et al. (2000) to the Washington Volcanic Ash Advisory Center (VAAC) “for customer service in the area of volcanic ash hazards to aviation.” The VAAC is composed of the NESDIS Satellite Analysis Branch, NWS NCEP Senior Duty Meteorologists, and OAR ARL.

NOAA Administrator’s Awards

Tilden P. Meyers (2009) -- “for exemplary leadership and implementation of scientific strategies as acting director of the Atmospheric Turbulence and Diffusion Division.

Richard S. Artz (2006) -- “for exemplary leadership in leading the Air Resources Laboratory, as Acting Director from February 2006 and continuing.”

Roland R. Draxler (2001) -- “for development of a dispersion model product suite and integration with the National Center for Environmental Prediction to provide operational forecast products.”

NOAA Distinguished Career Award

Maureen McMahon (2009) -- “for exemplary, sustained and broad administrative support for the Air Resources Lab while also setting high standards for professionalism and courtesy.”

Rayford P. Hosker (2007) -- “for extensive individual research and multi-agency program leadership regarding chemical deposition, flow and dispersion around structures.

Carmen Nappo, Jr. (2006) -- “for continued improvements of scientific understanding and predictions of atmospheric transport and dispersion, especially in the nocturnal stable boundary layer, throughout thirty-seven years of service to NOAA.”

Dale Gillette (2006) -- “for outstanding theoretical and empirical contributions to the field of wind-blown dust.”

John Irwin (2004) -- “for leadership in boundary-layer dynamics, transport and diffusion, and model evaluation, and for merging sound science and regulatory policy.”

OAR Dr. Daniel L. Albritton Outstanding Science Communicator Award

Dian Seidel (2010) – this award recognizes outstanding achievement in communicating the meaning and value of NOAA-related science and research to non-scientific audiences. The award is named in honor of Dr. Daniel Albritton, a retired OAR scientist who proved to be one of the most effective communicators of NOAA research and related science.

OAR Employee of the Year

Betty Wells (2010) -- “for the combination of dedication, leadership, and outstanding performance of both routine activities and special projects during the past year.”

Maureen McMahon (2004) -- “for her exceptional personal dedication, professionalism, attitude, integrity and legendary contributions to customer service across NOAA and beyond in providing administrative services.”

NOAA Research Outstanding Scientific Paper

Cohen, M.D., R.R. Draxler, R. Artz, et al., (2003). Modeling the Atmospheric Transport and Deposition of PCDD/F to the Great Lakes. *Environmental Science and Technology*, Vol. 36, No. 22, 4831-4845, 2002.

Seidel, D.J., R.J. Ross, J.K. Angell, and G.C. Reid (2003). Climatological characteristics of the tropical tropopause as revealed by radiosondes. *J. Geophys. Res.*, 106, 7857-7878, 2001.

Gaffen, D.J., B.D. Santer, J.S. Boyle, J.R. Christy, N.E. Graham, and R.J. Ross, (2002). Multi-decadal changes in the vertical temperature structure of the tropical troposphere. *Science*, 287, 1239-1241, 2000.

Gaffen, D.J., et al. (2002) for contributions to the WMO (World Meteorological Organization), Scientific Assessment of Ozone Depletion: 1998, Global Ozone Research and Monitoring Project–Report No. 44, Geneva, Switzerland, 1999.

Gaffen, D.J., and R.J. Ross, (2000). Climatology and trends in U.S. surface humidity and temperature. *J. Climate*, 12, 811-828, 1999.

Other Agency Awards

Environmental Protection Agency (EPA)

Daewon Byun, and Kenneth L. Schere (2009) -- EPA 2009 Level I Scientific and Technological Achievement Award (STAA) “for developing a model serving as the primary tool for EPA and others to use for air quality management and forecasting.” Publication citation: Byun, D. and K.L. Schere. Review of the Governing Equations, Computational Algorithms, and Other Components of the Models-3 Community Multiscale Air Quality (CMAQ) Modeling System. *Appl. Mech. Rev.*, Volume 59, Issue 2, 51 (27 pages) doi:10.1115/1.2128636 (2006).

Donna Schwede (2004) -- EPA Team Excellence Award “for support to the Science Advisory Board review of the 3MRA model.”

Alan Huber (2002) -- Special EPA commemorative medallion and letter of appreciation presented by EPA Administrator Governor Whitman for excellence in response to September

11, 2001 events. Dr. Huber provided meteorological measurements/modeling support and initial modeling of the plume from “ground zero.”

Sharon LeDuc and Donna Schwede (2001) -- EPA Science/Technical Achievement Award “for development of multi-purpose, multimedia, multiple exposure risk analysis methodology.”

Steve Perry (1999) -- EPA James W. Akerman Award “for exemplary collaboration with the pesticide industry's Spray Drift Task Force to provide cost-effective methods for evaluating risk to spray drift pesticides.”

Robin Dennis (1999) -- EPA Scientific Achievement Award “for superior scientific accomplishment in modeling air and water nutrient loads to the Chesapeake Bay for the Chesapeake Bay Program Office 1997 Re-evaluation.”

EPA Gold Medals

William Petersen (2004) -- as a member of the Brentwood Post Office Interagency Crisis Exemption Team.

Marc Pitchford (2000) -- “for outstanding and successful dedication and performance in implementing the Fine Particulate Monitoring Program.”

Norm Possiel (1999) -- “for outstanding dedication, initiative, innovation, and significant contributions for conducting numerical grid model applications to evaluate the effects on ozone concentrations of reducing nitrogen oxides emissions through the NO_x SIP Call Rulemaking.”

EPA Silver Medal

Daewon Byun, Joan Novak, and Jeff Young (1999) -- “for outstanding team research achievement in the development and evaluation of the Models-3 Computational Framework and the Community Multi-Scale Air Quality Modeling System.”

EPA Bronze Medals

Marc Pitchford (2009) – as a member of the Integrated Science Assessment Team “for exceptional scientific leadership, innovation and service by transforming scientific assessments to support science-based air standards decisions.”

ARL Community Multiscale Air Quality (CMAQ) Modeling Team (2005) -- “for contributions to the development and application of the Nation’s premier numerical air quality simulation model.” ASMD members honored by this award D. Atkinson, P. Bhave, W. Benjey, R. Bullock, J. Ching, E. Cooter, R. Dennis, P. Dolwick, B. Eder, M. Evangelista, R. Gilliam, A. Gilliland, J. Gipson, J. Godowitch, W. Hutzell, D. Luecken, D. Mobley, T. Otte, T. Pierce, J. Pleim, G. Pouliot, S. Roselle, K. Schere, D. Schwede, G. Walter, and J. Young.

Robin Dennis, Jeffrey West (2004) -- NARSTO Particulate Matter (PM) Assessment

Alan Huber, William Petersen (2004) -- "for promoting sound science in agency decisions."

Shawn Roselle, et al. (2004) -- as a member of the Five-Year Particulate Matter (PM) Accomplishment Team.

Dennis Atkinson, Desmond Bailey, and John Irwin (2003) -- "for superior customer service to the air quality community."

Mark Evangelista (2003) -- "for initiative, creativity, and dedicated work in outreach."

Alan Huber (2002) -- "for exceptional technical assistance to the regional or program offices."

William Benjey, Frank Binkowski, Jason Ching, Robin Dennis, Brian Eder, Jim Godowitch, Steve Howard, Sharon LeDuc, Tanya Otte, Tom Pierce, Jon Pleim, Shawn Roselle, Ken Schere, Alfrieda Torian, and Gary Walter (1999) -- "for outstanding team research achievement in the development and evaluation of the Models-3 Computational Framework and the Community Multi-Scale Air Quality Modeling System."

[National Aeronautics and Space Administration \(NASA\)](#)

Kirk L. Clawson (2001) -- NASA Administrator's Award for Turning Goals into Reality "for outstanding contributions to Aircraft Vortex Spacing System (AVOSS) Team and exceptional progress toward revolutionizing aviation by increasing capacity while maintaining a high degree of safety."

[Miscellaneous Awards](#)

Mark Hall (2010) -- NOAA Team Member of the Month Award for outstanding support for NOAA's mission and commitment to his staff's safety during the installation and maintenance of the NOAA U.S. Climate Reference Network (USCRN) and the NOAA U.S. Historic Climatology Network modernization (USHCN-M) effort.

Weifeng "Rick" Jiang (2008) -- NOAA Team Member of the Month Award for outstanding work managing ARL HQ's IT systems and for leading lab-wide IT efforts."

Kirk L. Clawson (2007) -- National Weather Service StormReady Certificate of Achievement "for improving the timeliness and effectiveness of hazardous weather warnings for the public through a diligent and proactive approach of increased communication and preparedness."

Air Resources Laboratory Field Research Division (2007) -- 1st NOAA recipient of the National Weather Service StormReady Supporter Award.