

Randall S. Cervený

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Personal Data:

Born - 28 July 1959
Marital Status - Married

Health - Excellent
Citizenship - United States

Education:

Doctor of Philosophy (Geography) University of Nebraska	August, 1986
Master of Arts (Geography) University of Nebraska	May, 1983
Bachelor of Science (Geography) with Distinction University of Nebraska	May, 1981

Professional Involvement:

2006-present	United Nations / World Meteorological Organization (WMO) Rapporteur on Extreme Records
2005-present	President's Professor, Arizona State University, R. Aspinall/A. Brazel, Directors
1994-present	Contributing Editor, <i>Weatherwise</i>
2000-2005	Full Professor, Department of Geography Arizona State University, B. O'hUallachain/R. Aspinall, chairs
1991-2000	Associate Professor, Department of Geography Arizona State University, Dr. A. Brazel/B. O'hUallachain, chairs
1993	Member, Climate Assessment Select Committee, Center for Nuclear Waste Regulatory Analyses Nuclear Regulatory Commission Contract NRC-02-88-005. Project Director: A.R. DeWispelare.
1986 - 1991	Assistant Professor, Department of Geography Arizona State University, Dr. P. Gober, chair
1985 - 1986	Participant in the 1985-6 NSF Antarctic Research Program with Polar Ice Coring Office

Organizations:

Association of American Geographers
American Meteorological Society

Committee Service:

International

-World Meteorological Organization (WMO) Rapporteur on
Extreme Records (2006-present)

National

-Secretary/Treasurer, AAG Climate Specialty Group (1988-1989)
-AAG local Arrangements Committee (Fall, 1987- Spring 1988)
-Consulting Editor, *Weatherwise* (Spring, 1994- present)

Community/Local

-Science Advisory Council, Desert Botanical Gardens,
Phoenix (1992-present)
-President, Central Arizona Chapter of AMS (1989-1992)
-Treasurer, ASU chapter of Sigma Xi (1990-1992)

University

-ASU CLAS Curriculum Committee Chair (2005-present)
-ASU Distinguished Teaching Academy (2005-present)
-ASU Geography Director of Undergraduate Advising (1997-present)
-ASU Geography Undergraduate Committee (Chair, 1997-present)
-ASU Geography Computer Committee (chair, 1995-2003)
-ASU Geography Personnel Committee (chair, 1993)
-ASU Geography Executive Committee (1993)
-ASU Faculty Meeting Secretary (1993)
-ASU CLAS-ACT member (1992-1993)
-ASU Computer Research Subcommittee (1988-92)
-ASU Geography Graduate Committee, chair (1990-92)
-ASU Geography Graduate Committee (1989-90)
-ASU Geography Masters' Committee (chair), (1987-8)
-ASU Geography Undergraduate Committee (1986-88)
-ASU Geography Executive Committee (1987)
-ASU Climatology Laboratory Advisory Committee (1987-88)
-ASU Geography Search Committees

Major Advisor to Completed Graduate Student Programs (chair, only)

<u>Name</u>	<u>Date of Graduation</u>	<u>Present Position</u>
Diane Douglas	December, 1998, Ph.D.	Private Consulting
David W. Stahle	August, 1990, Ph.D.	Prof, University of Arkansas
John Shaffer	May, 1994, M.A.	Into Ph.D. program
Nancy Selover	December, 1995, M.A.	Ph.D. student, ASU
Leslie Waite	December, 1999, M.A.	National Weather Service
Cory Matyas	August, 2001, M.A.	University of South Florida
John Shaffer	August, 2001, Ph.D.	Scottsdale Community College
Jonathan Triggs	December, 2003 M.A.	NASA
P. Grady Dixon	May, 2005 Ph.D.	Mississippi State University
Brian Ochs	May, 2005 M.A.	APS
Valerie Meyer	May, 2004 M.A.	National Weather Service
Russell Vose	May, 2004, Ph.D.	National Climatic Data Center
Nancy Selover	December, 2005, Ph.D.	Arizona State Climatologist
David Brommer	May, 2006, Ph.D.	University of Alabama
Alan Church	May, 2006, M.A.	private GIS company
James Walter	May, 2007, M.A.	Salt River Project (power & water utility)
Colleen Garrity	May, 2007, Ph.D.	SUNY-Geneso
Paul Weser	May, 2007, Ph.D.	Scottsdale Community College

Selected Honors, Awards & Accomplishments:

WMO Rapporteur for Climate Extremes (2006-present)
President's Professor (2005-present)
Fairbury Ambassador (Germanfest, 2001)
Arizona State University College of Liberal Arts & Science
Excellence In Teaching Award (1998)
Article Inclusion in the 50th Anniversary Issue of *Weatherwise* (1997)
Arizona State University Nominated Excellence in Advising (1998)
Arizona State University Professor of the Month, finalist for ASU
Parent's Association Professor Award (1997)
President's Award: Service Learning Project (helping low score elementary students using college-course interns)
Travelled to every Continent on Earth (1985-1997)
British Cartographic Society Medal (1989)
The Antarctica Service Medal of the United States of America (1986)
The Presidential Fellowship, University of Nebraska (1983-1986)
The Maude Hammond Fling Fellowship, University of Nebraska (1981-1983)
Leslie Hewes Prize in Geography for Graduate Students (1983)
Donald Walter Miller Scholarship (1978)
Graduation with Distinction, Nebraska(1977-1981)
Honor List every semester in college (1977-1981)
Graduated Top Five Percent of Class, Nebraska (1981)
Nebraska Wesleyan Trustee's Scholarship (1977)
Nebraska Regents' Alternate (1977)
Commended, National Merit Test (1977)
Fairbury High School Valedictorian (1977)

Cerveny Vitae

American Legion Scholarship-Citizenship Award (1977)

Sponsored Projects:

- 2008 Isentropic Analysis, Randall S. Cervený, Robert C. Balling, Jr. and Andrew W. Ellis., National Science Foundation, \$100,000
- 2004 "Development of an Operational Model Series for Forecasting Runoff on the Salt, Tonto, and Verde Watersheds." Andrew W. Ellis, Robert C. Balling, Jr., and Randall S. Cervený. Salt River Project, \$44,081
- 2000 "Analysis of Historical Patterns in Hurricane Intensification, Length of the Hurricane Season, and Geographic Position of Hurricanes." Robert C. Balling, Jr. and Randall S. Cervený. American Petroleum Institute, \$38,166.
- 1997 AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (TV and local weathercasters), \$600.
- 1996 AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (TV and local weathercasters), \$800.
- 1995 The Influence Of Local Circulation Patterns On Convective Precipitation And Thunderstorm Development: Phoenix AZ. R.S. Cervený, N.J. Selover, D. Green and T. Craver. NOAA/National Weather Service COMET program. \$4200.
- AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (TV and local weathercasters), \$1200.
- CO Forecasting for the Phoenix Metropolitan Area. R.S. Cervený. Arizona Department of Environmental Quality. \$21,000.
- 1994 AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (TV and local weathercasters), \$600.
- 1993 AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (TV and local weathercasters), \$1300.
- 1992 Orbitally-Induced Variations in the Diurnal Cycle of Radiation. Randall S. Cervený. National Science Foundation Geography & Regional Science. \$41,000.
- Research Incentive for Undergraduates: Orbitally-Induced Variations in the Diurnal Cycle of Radiation. Randall S. Cervený. National Science Foundation. \$5,000.
- AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (KTAR radio and local weathercasters), \$1800.

- 1991 British Frontal Storms. R.C. Balling, Jr., R. S. Cervený, S. Idso. British Coal Institute. \$38,000.
- 1991-1989 AZTC (Arizona Thunderstorm Chasing) Project. Arizona State University/National Weather Service. Funding through local media sources (KTAR radio; KTSP TV; KPNX TV) \$5,500.
- 1988 Analysis of Weather Normalization Procedures. Salt River Project. Part 2. Robert Balling and Randall Cervený. \$20,000.
- 1988 Analysis of Weather Normalization Procedures. Salt River Project. Part 1. Robert Balling and Randall Cervený. \$5000.
- 1987-1988 Selected Wind Speed and Temperature Probabilities in Phoenix, Arizona. Robert Balling and Randall S. Cervený. Salt River Project, \$4,998.
- 1987 Wind Direction Analysis at St. Johns, Arizona. Salt River Project. Robert Balling and Randall Cervený. \$7000.

Books

- 2006 *Freaks of the Storm (From Flying Cows to Stealing Thunder, The World's Strangest True Weather Stories)*, Thunder's Mouth Press (Avalon Publishing Group), New York, January 2006, 371 pp.

Selected Recent Articles & Professional Publications:

- 2008 (97) Comparison of remote sensing image processing techniques to identify tornado damage areas from Landsat TM data, Soe W. Myint, May Yuan, Randall S. Cerveny and Chandra P. Giri, , *Sensors*, 8, 1128-1156.
- 2007 (96) Characteristics of long-duration precipitation events across the United States, D. Broomer, R.S. Cerveny and R.C. Balling, Jr., *Geophys. Res. Lett.*, Art No. L22712 (Nov, 2007).
- (95) A new western hemisphere 24-hour rainfall record, R. Cerveny, V.D. Belitskaya, P. Bessemoulin, M. Cortez, C. Landsea, and T.C. Peterson, *WMO Bulletin* 56(3): 212-215.
- (94) Weather and the Mongols: How the Forces of Nature Helped Shape an Empire. Randy Cerveny. *Weatherwise* Jul/Aug 2007; 60:22-25.
- (93) Extreme Weather Records: Compilation, Adjudication and Publication R. S. Cerveny, J. Lawrimore, R. Edwards, C. Landsea, *Bulletin of the American Meteorological Society* (Invited Paper). 88 (6): 853-860.
- 2006 (92) Egypt. And Water: Lifeline of a Civilization. Randy Cerveny and Niccole Cerveny. *Weatherwise*.59:20-26.
- (91) Analysis of Tropical Cyclone Intensification Trends and Variability in the North Atlantic Basin over the Period 1970-2003. Robert C. Balling, Jr. and Randall S. Cerveny. *Meteorology and Atmospheric Physics*, DOI: 10.1007/s00703-006-0196-5.
- (90) Eye of the Tiger. Randy Cerveny. *Orion*. 25: 8-9.
- 2005 (89) Heat Mortality Versus Cold Mortality: A Study of Conflicting Databases. P. G. Dixon, D. M. Brommer, B. C. Hedquist, A. J. Kalkstein, G. B. Goodrich, J. C. Walter, C. C. Dickerson IV, S. J. Penny, and R. S. Cerveny, *Bulletin of American Meteorological Society*, 86(7): 937-943.
- (88) The Meteorological Observations of Charles Darwin aboard the H.M.S. *Beagle*. Randall S. Cerveny. *Bulletin of the American Meteorological Society*, 86(9):1295-1301.
- (87) Strange Tails of Hail. Randy Cerveny, Charles Knight, Nancy Knight. *Weatherwise* (May, June, 2005), 58:28-33
- (86) Variations in the Diurnal Character of Tropical Cyclone Wind Speeds. Randall S. Cerveny and Robert C. Balling, Jr. *Geophysical Research Letters* 32 (6): L06706.

- 2004 (85) The Grand Canyon Spectre. Niccole and Randy Cerveny. *Weatherwise*. (July/August 2004), 57(3):57-58
- (84) Free-Air CO₂ Enrichment Effects on the Energy Balance and Evapotranspiration of Sorghum. J.M. Triggs, B.A. Kimble, P.J. Pinter, Jr., G.W. Wall, M.M. Conley, T.J. Brooks, R.L. LaMorte, N.R. Adam, M.J.Ottman, A.D. Matthias, S.W. Leavitt, R.S. Cerveny, *Agricultural and Forest Meteorology*, 124: 63-79.
- (83) Long-Term (250,000 B.P. to 50,000 A.P.) Variations in Ultraviolet and Visible Radiation (0.175 μ m - 0.690 μ m). John A. Shaffer and Randall S. Cerveny. *Earth and Planetary Science*, 41 (2): 111-120.
- (82) The Oddities of Lightning, Randy Cerveny. *Weatherwise*, 57(2): 64-68.
- 2003 (81) Analysis of the duration, seasonal timing, and location of North Atlantic tropical cyclones: 1950-2002. R.C. Balling, Jr. and R.S. Cerveny, *Geophysical Research Letters*, 30 (24): N.10.1029/2003GL018404.
- (80) Vertical dimensions of seasonal trends in the diurnal temperature range across the United States. R.C. Balling, Jr. and R.S. Cerveny, *Geophysical Research Letters*, 30(17):N.10.1029/2003GL017776.
- (79) What's in a Name? Randy Cerveny, *Weatherwise* 56(5): 46-47
- (78) Cosmic ray flux impact on clouds? An analysis of radiosonde, cloud cover, and surface temperature records from the United States. R.C. Balling, Jr. and R.S. Cerveny, *Theoretical and Applied Climatology*, 75:225-231.
- (77) Local and Regional Discriminators of Mesoscale Convective Vortex Development in Arizona. David M. Brommer, Robert C. Balling, Jr., and Randall S. Cerveny. *Monthly Weather Review*, **131**, pp. 1939-1943.
- (76) Analysis of radiosonde-based lapse rates and the difference between near-surface and satellite-based lower-tropospheric air temperatures over the central United States. Robert C. Balling and Randall S. Cerveny. *Geophysical Research Letters*, 30(7):N.1029-2002GL016693.
- (75) Compilation and Discussion of Trends in Severe Storms in the United States: Popular Perception v. Climate Reality. Robert C. Balling, Jr. and Randall S. Cerveny. *Natural Hazards*, **29**(2):103-112.
- 2002 (74) The Ten Strangest Oddities of the Tornado. Randall S. Cerveny and Shaeffer. *Weatherwise* **55**(4):20-27
- (73) A weekly cycle in atmospheric carbon dioxide. R.S. Cerveny and K.J. Coakley, *Geophysical Research Letters* **29**, 10.1029.
- 2001 (72) Does the Urban CO₂ Dome of Phoenix, Arizona Contribute to Its Heat Island? R.C. Balling, Jr., R.S. Cerveny and C. Idso, *Geophysical Research Letters*, 28 (24), 4599-4602

- (71) Between the Stars. Randy Cerveny, D.A. Periconi, R.C. Balling, Jr, and S.L. Baliunas, *Weatherwise*, 54(5), 28-33
- 2000 (70) The Moon and El Niño. Randall S. Cerveny and John A. Shaffer. *Geophysical Research Letters*, 28 (1): 25-28 JAN 1 2001.
- (69) The Climate Riddle of the Lost Squadron. Randy Cerveny and Robert C. Balling, Jr. *Weatherwise*, 53 (6)
- (68) The Rescue of the Lost Squadron Crewmen. Randy Cerveny *Weatherwise*, 53 (6)
- (67) Climatological Relationships between Tropical Cyclones and Rainfall. Randall S. Cerveny and Lynn E. Newman. *Monthly Weather Review*, 128: (9) 3329-3336.
- (66) Lights, Camera, Weather. Randy Cerveny, *Scientific American (special issue)*, 11:98-103.
- (65) It's Raining Eels: A compendium of Weird Weather. Randy Cerveny, *Scientific American (special issue)*, 11: 54-55.
- 1999 (64) Large asymmetrical temperature trends at Mount Wilson, California. Balling, R.C., Jr., D.A. Periconi, R.S. Cerveny, and S.L. Baliunas, *Geophysical Research Letters*, 26, 2753-2756.
- (63) Lunar influence on diurnal temperature range, R.S. Cerveny and R.C. Balling, Jr., *Geophysical Research Letters*, 26:1605-9.
- (62) *Climate at the Bottom of the Grand Canyon*. D. Stantski-Martin, M. Marcus, A. Brazel, N.J. Selover and R.S. Cerveny. *Forum*, 45: 1-8.
- 1998 (61) Identification of Anthropogenic Weekly Cycles in Northwest Atlantic Pollution, Precipitation and Tropical Cyclones. R.S. Cerveny and R.C. Balling, Jr. *Nature*, 394: 561-562.
- (60) Long-term Equilibrium Tides. R.S. Cerveny and J.A. Shaffer. *Journal of Geophysical Research-Oceans* 103:18801-18804.
- (59) The Day the Dinosaurs Died, R.S. Cerveny. *Weatherwise*, 51:13-16.
- (58) Ethics, Values and Geographic Research (Forum Response), J.R. Harman, J.A. Harrington, Jr. and R.S. Cerveny *Annals of the Association of American Geographers*, 88: 308-315.
- (57) Ethics in Geographic Research—The example of Global Warming. J. Harman, J. Harrington, and R.S. Cerveny. *Annals of the Association of American Geographers*, 88: 277-290.

- 1997 (56) Polar Temperature Sensitivity to Climatic Forcing? J. A. Shaffer, R.S. Cerveny and R.C. Balling, Jr., *Geophysical Research Letters*, **24**:29-32.
- (55) A new approach to paleoclimatic research using Linear Programming. M. Kuby, R.S. Cerveny and R.A. Dorn. *Paleogeography, Paleoclimatology, Paleocology*, **129**: 251-267.
- 1996 (54) Small-Scale / Local Winds, R.S. Cerveny, *Encyclopedia of Climate and Weather*, S. Schneider, ed., New York: Oxford University Press, 693-697.
- (53) Radiation windows as indicators of an astronomical influence on the Devil's Hole chronology. J.A. Shaffer, R.S. Cerveny and R.A. Dorn. *Geology*, **24**:1017-1020.
- (52) Making Weather in the Movies. R.S. Cerveny. *Weatherwise*, **49**: 35-40.
- (51) Visualization of Milankovitch Climate-Change Theory. H.J. Wolters, J.A. Shaffer, R.S. Cerveny and R.E. Barnhill. *Journal of Geoscience Education*, **44**: 7-12.
- 1995 (50) The Influence of Lunar Phase on Daily Global Temperatures. R.C. Balling, Jr. and R.S. Cerveny. *Science*, **267**: 1481-1482.
- (49) Lunar Phase Influence on Global Temperatures. J.C.Dyre, C.V. Voorhies; R.C. Balling, Jr. and R.S. Cerveny. *Science*, **269**: 1284-1285.
- (48) Milankovitch radiation cycles. R.S. Cerveny, J.A. Shaffer, N.J. Selover. In *McGraw-Hill Yearbook of Science and Technology 1995* (New York: McGraw-Hill), pp. 275-278.
- 1994 (47) Elements of Espionage. R.S. Cerveny and M.G. Marcus. *Weatherwise*. **47**: 14-21.
- (46) Power of the Gods. R.S. Cerveny . *Weatherwise*. **47 (2)**: 10-23.
- (45) The Impact of Rainfall Frequency on Coca (*Etythrozyllum coca*) Production in the Chapare Region of Bolivia. M.S. McGlade, R. Henkel, R.S. Cerveny, *Yearbook, Conference of Latin Americanist Geographers*, **20**: 97-105.
- 1993 (44) Meteorological Assessment of Homer's *Odyssey*. Randall S. Cerveny. *Bulletin of the American Meteorological Society*. **74**:1025-1034.
- (43) Localized Climate Responses During the 11 July 1991 Eclipse: Phoenix AZ. A.J. Brazel, R.S. Cerveny, B.L. Trapido. *Climatic Change*. **23**:155-168.
- 1992 (42) Impact of the Southern Oscillation on the North American Southwest Monsoon. J.A. Harrington, R.S. Cerveny and R.C. Balling. *Physical Geography*. **13**: 318-330.
- (41) Climate and Cocaine. M.S. McGlade, R.S. Cerveny and R. Henkel. *Nature*, **361**: 25.
- (40) The Hottest Game in Town. R.S. Cerveny, S. Calderon, M. Hubble. *Weatherwise*, **45**, 26-28.

- (39) On the Development of a Real-Time Interactive Storm Observation Program in Phoenix, AZ. R.S. Cervený, S. Calderon, N. Hoffmann, M. Franjevic. *Bulletin of the American Meteorological Society*, **73**: 773-778.
- (38) The Weather Luck of Christopher Columbus. Randall S. Cervený and J.S. Hobgood. *Weatherwise* **45**: 34-26
- (37) The Impact of Snow Cover on Diurnal Temperature Range. Randall S. Cervený and R.C. Balling, Jr. *Journal of Geophysical Letters*, **19**: 797-800.
- (36) Reply (to K. Emmanuel). S.B. Idso, R.C. Balling, Jr., R.S. Cervený. *Meteorology and Atmospheric Physics*, **47**: 85-86.
- (35) Meteorological Implications of the First Voyage of Christopher Columbus. R.S. Cervený and J.S. Hobgood. *Bulletin of the American Meteorological Society*, **73**: 173-179.
- 1991 (34) Greenhouse Warming May Moderate British Storminess. R.C. Balling, Jr., R.S. Cervený, T.A. Miller, S.B. Idso. *Meteorology and Atmospheric Physics*, **46**: 181-184.
- (33) Orbital Signals in the Diurnal Cycle of Radiation. R.S. Cervený. *Journal of Geophysical Research - Atmospheres*. **96**: 17209-17215.
- (32) Competitive Learning Experiences: The Role of Weather Forecasting Contests in Geography Programs. J. Harrington, R.S. Cervený and J.S. Hobgood. *Journal of Geography*, **90**: 27-31.
- (31) Tree-Ring Reconstructed Sunshine Duration over the Central USA. D.W. Stahle, M.K. Cleaveland and R.S. Cervený. *International Journal of Climatology*. **11**: 285-295.
- 1990 (30) Carbon Dioxide and Hurricanes: Implications of Northern Hemispheric Warming for Atlantic/Caribbean Storms. S.B. Idso, R.C. Balling, Jr., R.S. Cervený. *Meteorological and Atmospheric Physics*, **42**: 259-263.
- (29) Tall Tale Weather. R.S. Cervený, J. Schumacher, and C.K. Cervený. *Weatherwise*. **43**: 248-252.
- (28) Inhomogeneities in the Long-Term United States' Sunshine Record. R.S. Cervený and R.C. Balling, Jr. *Journal of Climate*, **3** : 1045-1048.
- (27) Thermal Patterns of Pacific South America Associated with El Niño/ Southern Oscillation. Kevin Walsh and Randall S. Cervený. *Int. Journal of Climatology*. **10**: 451-457.
- 1989 (26) Shadowing of Nonpolluted Locations by Urban Pollution. Randall S. Cervený. *Annals of the Association of American Geographers*. **70**: 242-256.
- (25) Weather of the Pharaohs. Randall S. Cervený. *Weatherwise*. **42** (6), 307-314.

- (24) Wind Field Analysis Using Unit-Vector Density Mapping. Randall S. Cerveny and Stephen J. Lavin. *Theoretical and Applied Climatology* **39**: 218-230.
- (23) Sherlock Holmes and the Weather. Randall S. Cerveny and Sandra Brazel. *Weatherwise*. **42**: 80-84.
- 1988 (22) Ice-Age Hurricanes and Tropical Storms. Jay S. Hobgood and Randall S. Cerveny. *Nature* **333**: 243-245.
- (21) Application of Temporal Statistics in Snow Climatological Studies. John A. Harrington and Randall S. Cerveny. *Physical Geography*. **9**: 337-353.
- (20) Escaper's Weather: Military Applications. Randall S. Cerveny and Brent R. Skeeter. *Department of Defense Survival, Evasion, Resistance and Escape (SERE) Bulletin*. **1**:1-8 (classified).
- (19) Reply (to Dr. Cherry). Robert C. Balling and Randall S. Cerveny. *Journal of Applied Meteorology* **27**: 881.
- (18) Escaper and Environment. Randall S. Cerveny and Brent R. Skeeter. *Journal of Meteorology* **13**: 265-276.
- 1987 (17) Winds and Wind Systems. R.C. Balling, R.S. Cerveny and K.F. Dewey. *The Encyclopedia of Climatology* (J.E. Oliver and R.W. Fairbridge, eds.), New York: Van Nostrand Reinhold Publishing, 933-941.
- (16) Atmospheric Nomenclature. Randall S. Cerveny. *The Encyclopedia of Climatology* (J.E. Oliver and R.W. Fairbridge, eds.), New York: Van Nostrand Reinhold Publishing, 140-141.
- (15) A Preliminary Investigations of a Relationship between South American Snow Cover and the Southern Oscillation. R.S. Cerveny, B.R. Skeeter and K.F. Dewey. *Monthly Weather Review* **115**: 620-623.
- (14) The Relationship between Summer Season Rainfall Events and Lake-Surface Area. D.C. Rundquist, M.P. Lawson, L.P. Queen and R.S. Cerveny. *Water Resources Bulletin* **23**: 493-508.
- (13) Long-Term Associations between Wind Speeds and the Urban Heat Island of Phoenix, Arizona. Robert C. Balling and R.S. Cerveny. *Journal of Climate and Applied Meteorology* **26**: 712-716.
- (12) A Climatology of Mean Monthly Snowfall for the Conterminous United States: Temporal and Spatial Patterns. J.A. Harrington, R.S. Cerveny and K.F. Dewey. *Journal of Climate and Applied Meteorology* **26**: 897-912.
- (11) Escapers' Weather. Randall S. Cerveny and Brent R. Skeeter. *Weatherwise* **40**: 248-253.

- (10) Unit-Vector Density Mapping. Stephen J. Lavin and Randall S. Cervený. *Cartographic Journal* **24**: 131-141.
- 1986 (9) Identification and Analysis of Climatic Fields through Dot-Density Shading. Stephen J. Lavin and Randall S. Cervený. *Journal of Atmospheric and Oceanic Technology* **3**: 552-558.
- 1985 (8) CONSTABLE as a Global Climate Model for Classroom Use. R.S. Cervený, R.C. Balling and J.A. Schumacher. *Journal of Geography* **84**: 165-168.
- (7) Seasonal Temperature Forecasts as Products of Antecedent Linear and Spatial Temperature Arrays. Merlin P. Lawson and Randall S. Cervený. *Journal of Climate and Applied Meteorology* **24**: 848-859.
- (6) Energy Balance Modeling: An Alternative Dynamic Parameterization. Randall S. Cervený and Robert C. Balling. *Journal of Climatology* **5**: 423-431.
- 1984 (5) CONSTABLE: A Simple One-Dimensional Climate Model for Climatologists in Geography. Randall S. Cervený and Robert C. Balling. *Professional Geographer* **36**: 188-196.
- (4) Analysis of Time and Space Variations in Long-Term Monthly Averaged Wind Speeds in the United States. Robert C. Balling and Randall S. Cervený. *Wind Engineering* **8**: 1-8.
- (3) Numerical Experiments with the Global Energy Balance Model CONSTABLE. Randall S. Cervený and Robert C. Balling. *Proceedings of the 15th Annual Pittsburgh Conference on Modeling and Simulation*. 15: Part 1, 321-326.
- (2) Impacts of Nuclear War: Results from a Simple Energy Balance Climate Model. J.A. Schumacher, R.C. Balling and R.S. Cervený. *Physical Geography* **5**: 199-205.
- 1983 (1) Spatial and Temporal Variations in Long-Term Normal Percent Possible Solar Radiation Levels in the United States. Robert C. Balling and Randall S. Cervený. *Journal of Climate and Applied Meteorology* **22**: 1726-1732.

Professional Reports, Book Chapters & Reviews

- 2007 El Niño/Southern Oscillation and Other Climatic Teleconnections, Randall S. Cervený in *Climatic Change and Variations: A Primer for Teachers* (William Dando, editor), National Council for Geographic Education.
- Weather Extremes Records, Randall S. Cervený in *Climatic Change and Variations: A Primer for Teachers* (William Dando, editor), National Council for Geographic Education.
- Lightning Curiosities, Randy Cervený in *Weather*, Andrew McMeel Publishing.

- 2006 The QBO and Tropical Climate, Randall S. Cerveny, in *The Global Climate System: Patterns, Processes and Teleconnections* (ed. H.A. Bridgman and J.E. Oliver, Cambridge University Press, Cambridge, pp. 67-74..
- Review of *Twilight of the Mammoths: Ice Age Extinctions and the Rewilding of America* by Paul S. Martin for AZ/NV Academy of Sciences
- 2005 Lightning Curiosities by Randy Cerveny. In *Weather Guide Calendar with Phenomenal Weather Events*, Accord Publishing Ltd.
- Review of *FitzRoy: The remarkable story of Darwin's captain and the invention of the weather forecast*. Randall S. Cerveny, *Bulletin of the American Meteorological Society* 86(2):267-269
- Severe Weather, Natural Disasters & Global Climate, Randall S. Cerveny, in *Shattered Concensus: The True State of Global Warming* (P.J. Michaels, editor), Rowman & Littlefield Publishers, Inc. 106-120.
- Folklore, Myths and Climate*, Randall S. Cerveny, *Encyclopedia of Climatology* (Oliver, editor), Springer, 380-381
- Atmospheric Nomenclature*, Randall S. Cerveny, *Encyclopedia of Climatology* (Oliver, editor), Springer, 134-135
- Wind and Wind Systems*. Robert C. Balling, Jr. and Randall S. Cerveny, *Encyclopedia of Climatology* (Oliver, editor), Springer, 813-819
- 2004 *Review of Bolt of Fate-Benjamin Franklin and His Electric Kite Hoax*. Randy Cerveny; *Weatherwise*; Jan/Feb 2004; Vol. 57 (1): 48
- 2003 *Review of Weather Rage*, Ross Reynolds by Randy Cerveny, *Weatherwise* 56(5); 52
- Review of Floods, Droughts, and Climate Change*, Michael Collier and Robert H. Webb by Randy Cerveny, *Weatherwise*
- 2002 *Review of El Niño in History*, Cesar Caviedes by Randy Cerveny, *Weatherwise* 55(4):46-47
- Review of The Coldest March: Scott's Fatal Antarctic Expedition*, Susan Solomon, by Randall S. Cerveny, *Bulletin of the American Meteorological Society* 83:601-603
- 2000 *Review of El Niño 1997-1998 (The Climate Event of the Century)*, Stanley Changnon (editor) by Randy Cerveny, *Weatherwise*
- 1999 Potential Future Climates. R.S. Cerveny and R.C. Balling, Jr. For Climate & Civilization section of the *Encyclopedia of Human Ecology* (Idso and Brazel, editors).

- 1998 Present Climates of South America. R.S. Cervený. In *Climates of the Southern Continents Present, Past and Future*. (eds. J.E. Hobbs, J.A. Lindesay, and H.A. Bridgman), (John Wiley & Sons, Chichester), p. 107-135.
- 1997 *The Western San Juan Mountains: Their Geology, Ecology, and Human History*, Blair (ed.) by Randall S. Cervený, for *American Scientist*
- 1995 CO Prediction for the Phoenix Metropolitan Area. Arizona Department of Environmental Quality.
- 1993 Expert Elicitation of Future Climate in the Yucca Mountain Vicinity. Iterative Performance Assessment Phase 2.5. Nuclear Regulatory Commission Contract NRC-02-88-005. Center for Nuclear Waste Regulatory Analyses. August.
- 1988 Analysis of Weather Normalization Procedures. Salt River Project. Part 1. Robert Balling and Randall Cervený. Final Report for SRP project.
- 1987 Wind Direction Analysis at St. Johns, Arizona. R.C. Balling and R.S. Cervený. Final Report for SRP project.
- 1985 Variability in the Surface Area of Sandhills Lakes and its Relationship to Precipitation and Groundwater Levels. M.P. Lawson, D.C. Rundquist, R.C. Balling, R.S. Cervený and L.P. Queen. Occasional Paper #7, Department of Geography, University of Nebraska. 46 pages.
- Chemical Content of Precipitation over East-Central Nebraska: 1979-1982. Shashi B. Verma and R.S. Cervený. Progress Report 85-3. Center for Agricultural Meteorology and Climatology, 29 pages.
- 1983 A Reference Manual for the Global Climate Model CONSTABLE. Randall Cervený and Robert Balling. Occasional Paper #6, Department of Geography, University of Nebraska. 105 pages. (2 printings.)

Paper Presentations

- 2007 3rd Annual NEBRASKA AG CLASSIC (NAC), December 12 – 13 (Keynote Speaker)
- 2003: Future Climates of the Southwest. Drought Symposium, East Campus, April, 2003 (East Campus) (invited)
- 2002 Weekly Cycles in Atmospheric Carbon Dioxide. R.S. Cervený. Association of American Geographers Annual Meeting, March, 2002
- 2001 Strange Weather. R.S. Cervený, Arizona State University, Eva Coor's Community Enrichment Program Violent Earth Lecture Series
- 2000 Being Multin Milankovitch. R.S. Cervený, Department of Geology, September, 2000

- 2000 Weekly Cycles in Regional Pollution, Temperature, Precipitation and Tropical cyclone Activity, International Scientific Meeting on Detection and Modelling of Recent Climate Change and Its effects on a Regional Scale, Terragona (Spain), 29-31 May, 2000
- 1998 Modification of Atlantic Rainfall and Hurricanes by Urban Pollution. R.S. Cerveny and R.C. Balling, Jr.. National Meeting of the Association of American Meteorologists, in Phoenix, AZ in January, 1998.
- 1997 Inadvertent Modification of Atlantic Rainfall and Hurricanes by Urban Pollution. R.S. Cerveny and R.C. Balling, Jr.. 92th National Meeting of the Associations of American Geographers in Ft. Worth in April, 1997.
- Polar Sensitivity to Lunar Phase? J.A. Shaffer, R.S. Cerveny and R.A. Dorn. 92th National Meeting of the Associations of American Geographers in Ft. Worth in April, 1997.
- 1996 Extreme Ocean Tides: Part 1, the Recent Past. R.S. Cerveny and J.A. Shaffer. 91th National Meeting of the Associations of American Geographers in Charlotte in April, 1996.
- Extreme Ocean Tides: Part 2, the Geologic Past. J.A. Shaffer and R.S. Cerveny. 91th National Meeting of the Associations of American Geographers in Charlotte in April, 1996.
- 1995 Lunar Influence on Global Temperatures. R.S. Cerveny and R.C. Balling, Jr. 90th National Meeting of the Associations of American Geographers in Atlanta in March, 1995.
- 1994 Visualization of Quaternary Climate Change. R.S. Cerveny J.A. Shaffer, H. Wolters, R.E. Barnhill. 89th National Meeting of the Association of American Geographers in San Francisco in April, 1994.
- A New Approach to Paleoclimatology: Curve Fitting Using Linear Programming. M. Kuby, R. Cerveny and R. Dorn. 89th National Meeting of the Association of American Geographers in San Francisco in April, 1994.
- 1993 Future Climate Scenarios for Yucca Mountain Nevada. R.S. Cerveny. Center for Nuclear Waste Regulatory Analyses, San Antonio TX in June, 1993.
- Climatic Implications of Radiative Dispersion. R.S. Cerveny and J.A. Shaffer. 88th National Meeting of the Associations of American Geographers in Atlanta in April, 1993.
- A Digitized Archive of South American Snow Cover. Natalie A. Williams, Randall S. Cerveny and Kenneth F. Dewey. 88th National Meeting of the Associations of American Geographers in Atlanta in April, 1993.
- Climate and Cocaine. M. McGlade, R.S. Cerveny and R. Henkel. 88th National Meeting of the Associations of American Geographers in Atlanta in April, 1993.

- 1992 Long-term Variations in Ultraviolet Radiation. R.S. Cerveny. Mintz Memorial Symposium on Climatic Change. Jerusalem, Israel. December, 1992.
- The Weather Luck of Christopher Columbus. R.S. Cerveny. Arizona State University. November, 1992
- The Weather Luck of Christopher Columbus. R.S. Cerveny. Columbus. Lecture Series. Salisbury State University, October, 1992.
- The Hour-Glass of the Ice Ages. R.S. Cerveny. Geosciences Lecture Series. Salisbury State University, October 1992.
- On the Development of a Real-Time Interactive Storm Observation Program in Phoenix, AZ. R.S. Cerveny, S. Calderon, N. Hoffmann, M. Franjevic. 4th Arizona Severe Weather Symposium in Scottsdale AZ in June, 1992
- The Climatic "Normalcy" of the Weather of 1492. R.S. Cerveny. 87th National Meeting of the Association of American Geographers in San Diego in April, 1992.
- Climatological Aspects of the First Voyage of Christopher Columbus. J.S. Hobgood and R.S. Cerveny. 87th National Meeting of the Association of American Geographers in San Diego in April, 1992.
- 1991 Carbon Dioxide and Hurricanes. R.S. Cerveny, R.C. Balling, Jr., and S.B. Idso. 86th National Meeting of the Association of American Geographers in Miami in April, 1991.
- 1990 Trends in Upper Air Circulation: Implications to the Greenhouse Effect. R.S. Cerveny. 85th National Meeting of the Association of American Geographers in Toronto in March, 1989.
- Simulation of Greenhouse Hurricanes. R.S. Cerveny. Global Change Conference, Phoenix Arizona. October, 1990.
- 1989 Ice-Age Tropical Cyclones: The South Pacific Ocean. R.S. Cerveny and J.S. Hobgood. 3rd Southern Hemispheric Meteorology and Oceanography Conference. November, Buenos Aires, Argentina.
- 1988 Arroyo Cutting and Flood Event in the American Southwest. S.G. Wells, R.C. Balling and R.S. Cerveny. Geologic Society of America Meeting.
- Ice-Age Hurricanes and Tropical Storms. J.S. Hobgood, J.N. Rayner and R.S. Cerveny. 1st Ohio State University Symposium on Supercomputing.
- Density Mapping. Randall S. Cerveny. Department of Earth Sciences, New Mexico State University.
- 1988 Pollution Shadowing. Randall S. Cerveny. Department of Chemistry, Arizona State University.

- Escaper's Weather. B.R. Skeeter and R.S. Cervený. 84th National Meeting of the Association of American Geographers at Phoenix in March, 1988.
- 1988 Ice-Age Hurricanes and Tropical Storms. J.S. Hobgood, R.S. Cervený and J.N. Rayner. 84th National Meeting of the Association of American Geographers at Phoenix in March, 1988.
- Use of the Balance Equation in Energy Balance Modeling. Randall S. Cervený. Department of Geography, University of Nebraska.
- 1987 South American Snow Cover and the Southern Oscillation. R.S. Cervený, B.R. Skeeter and K.F. Dewey. 83rd National Meeting of the Association of American Geographers at Portland, Oregon in April, 1987.
- A Climatology of Mean Monthly Snowfall for the Conterminous United States: Temporal and Spatial Patterns. J.A. Harrington, R.S. Cervený and K.F. Dewey. 83rd National Meeting of the Association of American Geographers at Portland, Oregon in April, 1987.
- Application of Temporal Statistics in Snow Climatological Studies. J.A. Harrington and R.S. Cervený. 83rd National Meeting of the Association of American Geographers at Portland, Oregon in April, 1987.
- Unit-Vector Density Mapping. S.J. Lavin and R.S. Cervený. 83rd National Meeting of the Association of American Geographers at Portland, Oregon in April, 1987.
- 1986 Mass-momentum Conservation in Energy Balance Models. Presented at a special session on new climate models at the 82nd National Meeting of the Association of American Geographers at St. Paul, Minnesota in May, 1986.
- 1985 Seasonal Forecasts from Multivariate Examination of Antecedent Temperature Arrays. Merlin P. Lawson and Randall S. Cervený. 4th Conference on Applied Climatology, American Meteorological Society.
- Conservation Principles in Energy Balance Models. Randall S. Cervený. Institute of Polar Studies. Ohio State University.
- CONSTABLE as a Classroom Climate Model. Randall Cervený and Robert Balling. Presented at a special session on classroom use of models at the 81st National Meeting of the Association of American Geographers at Detroit, Michigan in April, 1985.
- 1984 Numerical Experiments with the Global Energy Balance Model CONSTABLE. Randall S. Cervený and Robert C. Balling. 15th Conference on Modeling and Simulation. Pittsburgh, Pennsylvania.
- 1984 Energy Balance Climate Modeling: Sensitivity Tests. Randall Cervený. Presented at a special session on climate modeling at the 80th National Meeting of the Association of American Geographers at Washington, D.C. in April, 1984.

1983 A Dynamic Parameterization of a Surface Wind Field into a Sellers Type Global Climate Model. Randall Cervený. Presented at the 79th National Meeting of the Association of American Geographers at Denver, Colorado in April, 1983.

Additional Professional Activities

Consulting editor, *Weatherwise*

Reviewer for: *Science*
Nature
Bulletin of the American Meteorological Society
Geophysical Research Letters
Journal of Geophysical Research
Monthly Weather Review
Theoretical and Applied Climatology
Professional Geographer
Annals of the AAG
Geographical Review
Journal of Geography
National Science Foundation (NSF)

Djuric's *Weather Analysis*
Chelius-Frentz: *A Basic Meteorology*
Exercise Manual

Public Service:

Developer, AZTC (Arizona Thunderstorm Chasing) Project
(Arizona State University/National Weather Service/
KTAR Radio/Salt River Project/KTSP TV)

Interviewed by: KPHX TV, TTVK TV, KPHO TV, KTSP TV, KFYI Radio

CNN	Associated Press (AP)
Nature	<i>Nature</i> Australia
<i>Arizona Republic</i>	<i>Tucson Citizen</i>
<i>Scottsdale Progress</i>	Mesa/Tempe Tribune
<i>Omaha World Herald</i>	BBC Radio London
MSNBC Television	ABC News Radio & TV
CBS Radio	Voice of America
<i>US News & World Report</i>	Miami Herald
<i>NY Times</i>	Fox National TV
NBC Today Program	<i>Newsweek</i>
<i>Discovery Magazine</i>	<i>Science</i>
WOR New York Radio	ABC Good Morning America
Canadian Broadcasting Corp.	Radio New Zealand
National TV Japan	Atlanta Constitution
<i>Sports Illustrated Magazine</i>	United Press International (UPI)
CBS Evening News	New Scientist
Weather Channel	Coast-to-Coast AM

Speaker at numerous civic clubs, nursing homes at elementary schools

Research Interests:

Climate History

Physical Climatology

Synoptic Climatology

Atmospheric Teleconnections

Climatic Modeling

Dynamic Climatology

Climatic Change

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