

Nomination for Ray Bradley

Nominated by Mike Retelle

Ray is the director and founder of the Climate System Research Center at UMass. His specialization is climatology and paleoclimatology. He has been a leader in numerous PAGES initiatives and other national and international collaborative climate research projects. He has worked in the arctic (Canadian high arctic, Greenland and Svalbard) since the '70's in climatological, glaciological and paleoclimate studies. He has led several projects in which environmental monitoring is a major focus. He is a good collaborator, he has a broad understanding of the arctic system and has keen insight for developing strategies to address emerging scientific problems. I highly recommend Ray for this committee!

CURRICULUM VITAE

RAYMOND S. BRADLEY

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Education (earned degrees)

| | |
|------------|------------------------------------|
| D.Sc. 2003 | University of Southampton, England |
| Ph.D. 1974 | University of Colorado, Boulder |
| M.A. 1971 | University of Colorado, Boulder |
| B.Sc. 1969 | University of Southampton, England |

Positions

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|---------------|--|
| 2014+ | Professor II, Dept of Earth Science, University of Bergen, Norway |
| 2002+ | University Distinguished Professor, University of Massachusetts |
| 2005-2010 | Honorary Professor, Lancaster University, U.K. |
| 1993-Jan 2003 | Head, Dept of Geosciences, University of Massachusetts, Amherst. |
| 1986+ | Director, Climate System Research Center, University of Massachusetts, Amherst |
| 1986+ | Life Member, Clare Hall, Cambridge University |
| 1984 -2002 | Professor, University of Massachusetts, Amherst. |
| 1978-1984 | Associate Professor, University of Massachusetts, Amherst. |
| 1979-1980 | Visiting Scholar, Scott Polar Research Institute, Cambridge University, England. |
| 1975-1978 | Assistant Professor, University of Massachusetts, Amherst. |
| 1973 - 1975 | Instructor, University of Massachusetts, Amherst. |

Research Interests

Climatic variability (instrumental and paleoclimatic time scales); global change; methods of paleoclimatic reconstruction; arctic environments.

Awards, Honors

| | |
|------|---|
| 2014 | Zuckerberg Endowed Leadership Chair |
| 2013 | Doctor of Science <i>honoris causa</i> , Queen's University, Canada |
| 2009 | Association for the Advancement of Science (AAAS)—elected Fellow |
| 2008 | Finnish Academy of Science and Letters—elected Foreign Member |
| 2007 | Hans Oeschger Medal, European Geosciences Union (EGU) |
| 2006 | Doctor of Science <i>honoris causa</i> , Lancaster University, U.K. |
| 2005 | American Geophysical Union (AGU)—elected Fellow |
| 2005 | Outstanding Research Award: College of Natural Sciences & Mathematics |
| 1995 | Chancellor's Medal, University of Massachusetts (University's highest award). |
| 1994 | Arctic Institute of North America—elected Fellow |

Appointments, Committees: 1986-2010

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| 2014-2016 | Mountain Research Initiative, Bern, Switzerland: Science Leadership Council |
| 2010-2015 | International Geosphere Biosphere Programme (IGBP): Scientific Committee |
| 2009-2012 | American Geophysical Union: Vice-Chairman, Global Environmental Change; Member, AGU Council |
| 2005-2012 | Bjerknes Centre for Climate Research, Bergen, Norway: Scientific Advisory Board |
| 2002-2010 | Max-Planck Institute for Meteorology (Hamburg) Advisory Council |
| 2000+ | Editorial Advisory Boards: <i>Journal of Earth Environment</i> , <i>Boreas</i> , <i>J. Quaternary Science</i> , <i>J. Paleolimnology</i> , <i>The Holocene</i> , <i>Key Issues in Environmental Change (Arnold)</i> , <i>Advances in Global Change Research (Kluwer)</i> , <i>Developments in Paleoenvironmental Research (Springer)</i> ; |
| 2000-2012 | Swiss "National Centers for Competence in Research-Climate" Advisory Board |
| 2006-2007 | Institute of Arctic and Alpine Research, Boulder: Scientific Advisory Board |
| 2000-2005 | NOAA Climate Change Data & Detection (C ² D ²) Advisory Panel |
| 2002-2004 | Associate Editor, <i>J. Geophysical Research (Atmospheres)</i> |
| 2000-2004 | Arctic Research Consortium of the United States (ARCUS): Board of Directors |
| 1990-1998 | International Geosphere Biosphere Programme (IGBP) PAGES Scientific Steering Committee and Executive Committee (SSC Chairman, 1996+); Member of IGBP SSC, 1996+. |
| 1994-1998 | National Research Council, National Academy of Sciences: Panel on Decade-to-Century-Scale Climate Variability. |
| 1994-1998 | NSF Earth System History Advisory Panel. |
| 1994-1996 | U.S. Project Leader, Paleoclimatology, Working Group 8: U.S./Russia Convention on Protection of the Environment. |
| 1990-1993 | NOAA Climate and Global Change Advisory Panel. |
| 1991 | Evaluation committee: Swedish National Research Council: National research in physical geography |
| 1988-1994 | Secretary, INQUA Paleoclimate Commission |
| 1989-90, 1994-95 | Member of the Inter-Governmental Panel on Climate Change (I.P.C.C.) |
| 1992-3 | PALE (Paleoclimate of Arctic Lakes and Estuaries) Steering Committee |
| 1988-1990 | Chairman, National Geophysical Data Center (NOAA) Paleoclimate Advisory Panel |
| 1989 | U.S. delegate, Working Group 8: U.S./U.S.S.R. meeting on development of data sets for detecting climatic change, Obninsk, U.S.S.R. |
| 1986 - 1989, 1994-96 | American Quaternary Association: Council Member. |
| 1986 | U.S. delegate to Working Group 8, Project 11 of the U.S./U.S.S.R. Bilateral Agreement on Protection of the Environment "Meeting of Experts on Causes of Recent Climatic Change" Leningrad, U.S.S.R. |
| 1983 - 1986 | National Research Council, National Academy of Sciences: Committee on Monitoring and Assessment of Trends in Acid Deposition. |
| 1984 - 1987 | American Meteorological Society: Committee on Climatic Variations. |

Invited/Keynote Talks (since 2003)

- 2014 *Third Pole Environment Workshop*, Berlin Germany: December 8-9 (invited).
- 2014 International conference on *Climate Change and Societal Disruption*, Urbino, Italy: June 17-21 (invited)
- 2014 Conference on *Future and Past Solar Influence on the Terrestrial Climate: Physical Meteorological Observatory*, Davos, Switzerland: May 20-23 (invited)
- 2014 Amherst College: May 5 (invited)
- 2014 *Northeastern Storms Conference*, Rutland Vermont: March 9 (invited)
- 2013 University of Pittsburgh/Carnegie Museum of Natural History: October 3 (invited)
- 2013 *Swiss Global Change Day, Bern*: April 16 (invited)
- 2013 Institut nationale de recherche scientifique, Quebec City Canada: April 4 (invited)
- 2013 Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland: Landolt Private Bank, Keynote Lecture: March 26
- 2013 Episcopal Diocese of Massachusetts, Longmeadow (invited)
- 2012 Fundación Ramón Areces, Madrid: November 12 (invited)
- 2012 University of Bern, Switzerland: October 12 (invited):
- 2012 University of Venice, Italy: October 9 (invited)
- 2012 International Conference on *Culture, Climate Change and Politics*, University of Colorado, Boulder: September 13th (keynote, plenary)
- 2012 *Boston Globe Forum*, Boston Public Library: April 12 (invited)
- 2012 Amherst College: *Keck Symposium*: April 7 (keynote)
- 2012 University of Texas, Corpus Christi: February 24 (keynote)
- 2011 University of Bremen, Germany: November 10 (invited)
- 2011 Nanjing University: October 20 (invited)
- 2011 Chinese Academy of Sciences Earth Institute, Xi'an: October 17 (invited)
- 2011 *International Symposium on Changes in the Cryosphere, Water Resources and Sustainable Development*, Urumchi, China: October 6 (keynote)
- 2011 Institut D'Estudis Catalans, Barcelona: May 6 (invited)
- 2010 M.I.T. *Global Change Forum*, Brussels, October 20 (invited)
- 2010 Luso-American Foundation: *The Medieval Warm Period Redux*, Lisbon, September 23 (invited)
- 2010 Institute of Catalan Studies, Barcelona, April 29 (invited)
- 2010 Commonwealth College, University of Massachusetts, Inaugural Daffodil Lecture Series (keynote), April 24, 2010.
- 2010 Massachusetts Association of Conservation Commissioners, Annual Meeting, Worcester, Massachusetts, February 27 (keynote)
- 2010 International Glaciological Conference: *Ice and Climate Change*, Valdivia, Chile: February 3 (invited)
- 2009 *Chief of Naval Operations Strategic Studies Group*, Naval War College, Newport, Rhode Island: November 6 (invited)
- 2009 Unitarian/Universalist Society of Amherst, Amherst, MA : Oct. 18 (invited)
- 2009 *17th International Northern Research Basins Symposium*, Baffin Island: Aug 13
- 2009 *Bertram Berger Seminar*, Boston Society of Civil Engineers, Boston: May 14
- 2009 Institut D'Estudis Catalans, Barcelona: April 29 (keynote)
- 2009 Cooperative Institute for Research in Environmental Sciences (CIRES) Distinguished Lecture Series, Boulder CO: April 18 (invited)

- 2009 University of Arkansas, Fayetteville: April 3 (invited)
- 2008 *Chief of Naval Operations Strategic Studies Group*, Naval War College, Newport, Rhode Island: November 17 (invited)
- 2008 *Green Dubai World Forum 2008*, Dubai: October 25 (keynote)
- 2008 *Pontificia Universidad Católica del Peru, Lima*: June 17 (keynote)
- 2007 Chemical Society of the Catalan Academia, Barcelona, November 29 (keynote)
- 2007 *Nicolaus Copernicus University*, Torun, Poland, October 11 (keynote).
- 2007 *European Geophysical Union, Vienna: Hans Oeschger Medal*: April 17(keynote).
- 2007 *Engineers Without Borders* (Annual conference) Amherst, MA, April 12 (invited)
- 2007 Century Club, Springfield, MA, April 2 (invited)
- 2007 University of Bergen, Norway, Dept. of Geological Sciences, March 2 (invited)
- 2006 *World Bank*, Washington D.C., November 8 (invited)
- 2006 *Canadian Circumpolar Institute*, Edmonton, Alberta, September 22 (invited)
- 2006 *HOLIVAR Open Science meeting*, London, June 15 (keynote)
- 2006 University of Illinois, Chicago, April 27 (invited)
- 2006 36th Arctic Workshop, Boulder Co, March 17 (keynote)
- 2005 ECOCLIM (Nordic Center of Excellence) Workshop on *Ecological response to climate change: scales of change, scales of observation*, Helsinki, Finland, November 4th (invited)
- 2005 *SORCE (Solar Radiation & Climate Experiment)* meeting, Durango, Colorado, September 15 (invited)
- 2005 *NCCR (National Center of Competence in Climate Research) Summer School*, Grindelwald, Switzerland, September 2 (invited)
- 2005 *Walter Orr Roberts Memorial Lecture*, Aspen Global Change Institute, July 18
- 2005 *Taafe lecture*, Department of Geography, Ohio State University: Feb.17 (invited)
- 2004 *Institute of Geographical Sciences, Chinese Academy of Sciences Beijing, China*, November 18, (invited)
- 2004 *International Conference on Environmental Processes of East Eurasia: Past, Present and Future*; Xi'an, China, Nov. 15 (keynote)
- 2004 *European Science Foundation HOLIVAR (Holocene Climate Variability) Workshop*, Kastanienbaum, Switzerland, Sept. 23-25 (invited).
- 2004 *Bjerknes Centenary Symposium on Climate Change in High Latitudes*, Bergen, Norway; Sept. 1-3 (keynote).
- 2004 *Symposium on Mountain Climate Sciences*: Lake Tahoe, California, May 25-27
- 2004 *Conference on Tree Rings and Climate: Sharpening the Focus*: Tucson, Arizona, April 6-9 (keynote).
- 2003 *GCOS Regional Workshop for South America*, Santiago, Chile, October 14-16
- 2003 *Conference on Global Change Research in Mountain Biosphere Reserves*, Entlebuch, Biosphere Reserve, Switzerland, November 10-13 (invited).
- 2003 *IMAGES Holocene Workshop*; Hafslø, Norway, Aug 27-30 (invited).
- 2003 *International Quaternary Association Congress*: Reno, Nevada (keynote).
- 2003 *American Meteorological Society conference on Polar Meteorology*: Hyannisport, Massachusetts (keynote)

RESEARCH GRANTS (Total= \$22,533,991; \$560,750 p.a./40 years)

| Period | Agency | Title | Total Funds | Co-P.I. |
|---------------|---------------|--|--------------------|------------------|
| 2014-2016 | UMASS | Center for Computational Climatology and Paleoclimatology | \$104,000 | DeConto |
| 2014-2017 | NSF | Paleocrystic Arctic sea ice export and its relationship to abrupt climate change | \$595,992 | Condron |
| 2012-2016 | DoI/USGS | Northeast Climate Science Center | \$7,500,000 | Palmer, Griffin |
| 2011-2014 | DOE | High-resolution model development to quantify the impact of icebergs on the stability of the Atlantic Meridional Overturning Circulation | \$496,693 | Condron |
| 2010-2012 | NOAA | Climate System Research | \$482,505 | |
| 2010-2012 | NSF | Purchase of an X-Ray Core Scanner for Research in Paleoclimatology and Global Change | \$388,976 | Rhodes, Woodruff |
| 2010-2015 | NOAA/Columbia | Consortium for Climate Risk in the Urban Northeast | \$697,884 | Palmer |
| 2009-2011 | NOAA | Research on Climate System Variability | \$633,350 | |
| 2009-2011 | UMASS | The effects of climate change on the New England environment | \$164,000 | Palmer |
| 2009-2011 | NSF | Non-linearities in the Arctic climate system during the Holocene | \$209,087 | |
| 2007-2010 | NSF | Volcanoes in the Arctic System (VAST) | \$416,551 | |
| 2007-2010 | DOE | Regional-Scale Climate Change: Observations and Model Simulations | \$349,621 | |
| 2006-2008 | NOAA | Research on Climate Variability | \$692,682 | |
| 2005-2007 | NOAA | Climate System Research | \$683,800 | |
| 2005-2009 | NSF | Collaborative research: a synthesis of the last 2000 years of climatic variability from Arctic lakes | \$193,098 | Francis |
| 2004-2007 | DOE | Regional-scale climate variability on decadal to multi-century timescales | \$286,489 | |
| 2004-2007 | NSF | High-Resolution Studies of High Arctic Paleoclimate from Varved Lake Sediments. | \$425,147 | |
| 2003-2005 | NOAA | A 19 th century data catalog for New England and adjacent states | \$194,001 | |
| 2003-2005 | NOAA | Climatic conditions in East Africa and Arabia: implications for paleoclimatic interpretations | \$236,055 | Vuille |
| 2002-2005 | NOAA | Reconstruction and analysis of patterns of climate variability over the last 1-2 millennia | \$113,434 | Mann, Hughes |
| 2001-2004 | DOE | Regional-scale climate variability on decadal to century timescales | \$272,229 | |
| 2001-2003 | NSF | Lake sediment paleoclimate research in the Lofoten Islands, Arctic Norway | \$60,019 | Francus |
| 2000-2002 | NSF | Stable isotope variability in precipitation at low-latitude sites | \$254,653 | Vuille |
| 2000-2001 | U. Va | Multiproxy climate reconstruction | \$33,889 | |

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| 1999-2001 | NSF | The Late Quaternary water balance of the Venezuelan Andes | \$335,477 | Abbott |
| 1999-2002 | NSF | Land-atmosphere-ice and snow interactions in the High Arctic | \$538,727 | Hardy |
| 1998-2001 | DOE | Validation of decadal to multi-century climate predictions | \$450,000 | Diaz |
| 1997-2002 | NSF | High resolution lake sediment studies for paleoclimatic reconstruction | \$637,096 | |
| 1999-2000 | NSF | Solar influences on cloud formation and global temperature | \$55,335 | |
| 1996-1999 | NSF | Patterns of interannual climate variability | \$137,000 | |
| 1997-99 | NSF | Precipitation variability in the Inter-Tropical Andes | \$142,848 | |
| 1996-97 | NASA | Meteorological studies, Windy Dome Ice Cap, Franz-Josef Land | \$31,000 | |
| 1996-99 | NOAA | Meteorological studies, Sajama Ice Cap, Bolivia | \$170,007 | |
| 1996-97 | N.S.F. | Workshop on climate variability in the Americas from high elevation ice cores | \$49,937 | |
| 1995-98 | D.O.E. | Climate system studies | \$587,000 | Diaz |
| 1994-97 | N.S.F. | Paleoclimate from Arctic lake sediments | \$300,000 | |
| 1993-94 | D.O.E. | Records of recent climatic change in northern Canada | \$85,000 | |
| 1993-94 | National Geog. Soc. | Climate of the last millennium from Arctic lake sediments | \$18,500 | |
| 1991-96 | N.S.F. | Analysis of rapid and recent climatic change (ARRCC) | \$286,000 | |
| 1991-94 | D.O.E. | Diagnostic studies of climate variability | \$640,681 | Diaz |
| 1990-92 | NOAA | Climatic fluctuations of Monsoon Asia since A.D. 1600 | \$ 71,600 | Hughes, Thompson |
| 1990-93 | N.S.F. | Paleoclimatic significance of laminated lake sediments: Canadian High Arctic | \$299,997 | |
| 1990-91 | NOAA | Precipitation history of Massachusetts | \$ 15,000 | |
| 1990-91 | D.O.E. | Scientific workstation | \$ 27,040 | |
| 1988-91 | D.O.E. | Climate system research | \$526,541 | Diaz, Kelly |
| 1987-91 | N.S.F. | Chronology and paleoclimatology loess deposits in central China | \$246,500 | McCoy |
| 1985-87 | N.S.F. | Evolution of Arctic lacustrine environments | \$162,000 | Yuretich |
| 1985-88 | D.O.E. | Studies of climatic variability | \$484,000 | Diaz, Kelly, Jones |
| 1983-86 | N.S.F. | Late Quaternary climatic variations in the Venezuelan Andes | \$101,000 | Yuretich |
| 1984-85 | N.S.F. | Equipment for lake sediment studies | \$50,000 | |
| 1981-84 | D.O.E. | Climate of the Northern Hemisphere 1851-1900 compared to contemporary | \$408,550 | Diaz, Jones, Kelly |
| 1981-83 | N.S.F. | Climatic fluctuations of northernmost North America | \$128,000 | England |
| 1977-79 | N.S.F. | Secular climatic history of the arid and semi-arid western U.S. | \$65,000 | |

Field Experience

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| Summer 2014 | Northern Spitzbergen, Svalbard: lake sediment research |
| Summer 2012 | Northwestern Spitzbergen, Svalbard: lake sediment research |
| Summer 2011 | Lofoten Islands, NW Norway: lake sediment research |
| Spring 2010 | Southeast Greenland: lake sediment paleoclimate research |
| Summer 2009 | Lofoten Islands, NW Norway: lake sediment research |
| Summer 2008 | Lofoten Islands, NW Norway: lake sediment research and tephrochronology |
| Summer 2007 | Quelccaya Ice Cap, Cordillera Vilcanota, Peru: meteorology of the ice cap |
| Summer 2006, 2007 | Lofoten Islands, NW Norway: lake sediment research on organic biomarkers |
| Summer 2005 | Northern Ellesmere Island, Nunavut, Canada: paleoclimatic significance of laminated lake sediments (Murray Lake). |
| Summer 2002 | Kilimanjaro, Tanzania: meteorology of the Northern Icefield. |
| Summer 2001 | Lofoten Islands, northwestern Norway: lake sediment collection late Holocene paleoclimatic reconstruction. |
| Summer 2000 | Northeastern Ellesmere Island: energy balance and topoclimatic studies of the Hazen Plateau (Murray and Simmonds Ice Caps). |
| Summers 1990 to 1999 | Northern Ellesmere Island and Cornwallis Island, N.W.T. Canada: paleoclimatic significance of laminated lake sediments. |
| Fall 1987, 1988 | Central China: chronology and paleoclimatic aspects of loess/paleosol sequences. |
| Summer 1988 | Cornwallis Island, N.W.T., Canada: lake sediment collection from Sophia Lake for late Holocene paleoclimatic reconstruction. |
| Fall 1987 | Czechoslovakia and Austria: chronology and paleoclimatology of loess/paleosol sequences. |
| Summer 1986 | Northern Ellesmere Island: lake sediment collection for Holocene paleoclimatic reconstruction. |
| Winters, 1982, 1984, 1985 | Venezuelan Andes: collection of lake sediments from high elevation basins. |
| Summers 1982, 1983 | Northeastern Ellesmere Island and northwestern Greenland: energy balance and topoclimatic studies of Hazen Ice Cap |
| Summer 1978, 1981 | Northeastern Ellesmere Island, N.W.T., Canada: paleoclimatology and glacial history of Beaufort Lakes area. |
| Summers 1975, 1976, 1978 | Northeastern Ellesmere Island, N.W.T., Canada: glacial and climatic history of Archer Fiord/Judge Daly Promontory. |
| Summer 1970, 1972 | Eastern Baffin Island, N.W.T., Canada: sea-ice energy budget and glacier mass balance study, east coast of Cumberland Peninsula. |
| Summer 1971 | Northeastern Ellesmere Island, N.W.T., Canada: field assistant, glacial history of Hazen Plateau. |

PUBLICATIONS

A. Books and Edited Volumes

- Bradley, R.S.*, 2014. **Paleoclimatology: Reconstructing Climates of the Quaternary (3rd edition)**. Elsevier/Academic Press, San Diego, 675pp (ISBN: 9780123869135).
- Bradley, R.S.*, 2011. **Global Warming and Political Intimidation**. University of Massachusetts Press, Amherst, 167pp. (Japanese translation published August 2012 by Kagaku Dojin, Tokyo).
- Diaz, H.F. and *R.S. Bradley* (eds.), 2004. **The Hadley Circulation, Present, Past and Future**. Kluwer Academic, Dordrecht, 511pp.
- Alverson, K., *R.S. Bradley* and T.F. Pedersen (eds.), 2003. **Paleoclimate, Global Change and the Future**. Springer Verlag, Berlin, 220pp.
- Bradley, R.S.* and N.E. Law, 2001. **Climate Change and Society**. Stanley Thornes, Cheltenham, 104pp.
- Alverson, K., F. Oldfield and *R.S. Bradley* (eds.), 1999. **Past Global Changes and their Significance for the Future**, Elsevier, Amsterdam, 479pp.
- Bradley, R.S.*, 1999. **Paleoclimatology: Reconstructing Climates of the Quaternary**. Academic Press, San Diego, 610pp. [reprinted 2005]
- Diaz, H.F., M. Beniston and *R.S. Bradley*, 1997. **Climatic Change at High Elevation Sites**. Kluwer Academic, Dordrecht, 298pp.
- Jones, P.D., *R.S. Bradley* and J. Jouzel, (eds.), 1996. **Climate Variations and Forcing Mechanisms of the Last 2000 years**. Springer-Verlag, Berlin, 649pp.
- Bradley, R.S.* and Jones, P.D. (eds) 1992. **Climate Since A.D. 1500**. Routledge, London. 679pp. (*Revised edition*, 1995, with additional chapter, 706pp).
- Bradley, R.S.* (ed.) 1991. **Global Changes of the Past**. University Corporation for Atmospheric Research, Boulder, 514pp.
- Bradley, R.S.*, 1985. **Quaternary Paleoclimatology: Methods of Paleoclimatic Reconstruction**. Chapman and Hall, London, 472 pp.
- Bradley, R.S.*, 1976. **The Precipitation History of the Rocky Mountains**. Westview Press, Boulder, 336 pp.

B. JOURNAL ARTICLES AND BOOK CHAPTERS

- Bradley, R.S.* and Miller, G.H., 1972: Recent climatic change and increased glacierization in the eastern Canadian Arctic. **Nature**, 237, 385-387.
- Bradley, R.S.*, 1972: The problem of inversions in estimating the height of glaciation limits in Arctic regions. **Arctic and Alpine Research**, 4(4), 359-360.
- Andrews, J.T., Barry, R.G., *Bradley, R.S.*, Miller, G.H. and Williams, L.D., 1972: Past and present glaciological responses to climate in eastern Baffin Island. **Quaternary Research**, 2(3), 303-314.
- Jacobs, J.D., Barry, R.G., *Bradley, R.S.* and Weaver, R.L., 1972: Glaciological and meteorological studies on the Boas Glacier, Baffin Island, for two contrasting seasons. **WMO/UNESCO/IASH Symposium on the Role of Snow and Ice in Hydrology***, Banff, Vol. 1, 371-382.
- Bradley, R.S.*, 1973: Seasonal climatic fluctuations on Baffin Island, N.W.T. during the period of instrumental records. **Arctic**, 26(3), 230-243.

- Bradley, R.S. and Barry, R.G., 1973: Secular climatic fluctuations in southwestern Colorado. **Monthly Weather Review**, 101(3), 264-270.
- Bradley, R.S., 1973: Recent freezing level changes and climatic deterioration in the Canadian Arctic archipelago. **Nature**, 243, 398-400.
- Miller, G.H., Bradley, R.S. and Andrews, J.T., 1975: Glaciation level and lowest equilibrium line altitude in the High Canadian Arctic: maps and climatic interpretation. **Arctic and Alpine Research**, 7(2), 155-168.
- Bradley, R.S. and Barry, R.G., 1975: Secular fluctuations of precipitation in the Rocky Mountain region. In: **Proceedings of the WMO/IAMAP Symposium on Long-Term Climatic Fluctuations*** (WMO No. 421), Norwich, England, 215-222.
- Bradley, R.S., 1975: Equilibrium line altitudes, mass balance and freezing level heights in the Canadian High Arctic. **Journal of Glaciology**, 14 (71), 267-274.
- Barry, R.G., Bradley, R.S. and Jacobs, J.D., 1975: Synoptic climatological studies of the Baffin Island area, p. 82-89, in: **Climate of the Arctic**, Weller, G. and Bowling, S.A. (eds.), Geophysical Institute, University of Alaska, Fairbanks.
- Miller, G.H. and Bradley, R.S., 1976: Geology, Ice and Climate. Chapter 1, in: **The Land That Never Melts: Auyuittuq National Park**, Wilson, R. (ed.), Ottawa: Parks Canada. (also French translation: **Au Pays des Glaces Eternelles**), p. 14-76.
- Bradley, R.S., 1976: Seasonal precipitation fluctuations in the western United States during the late nineteenth century. **Monthly Weather Review**, 104, 501-512.
- Bradley, R.S., 1976: Secular changes of precipitation in the Rocky Mountain States. **Monthly Weather Review**, 104, 513-523.
- Joyner, S.A., Jr., Dorrier, R.T. and Bradley, R.S., 1976: Energy conservation: a topoclimatic approach, in: **Decision Making in Solar Technology***, Proceedings of the New England Solar Energy Association, 1st Annual Conference, Amherst, 269-280.
- Joyner, S.A., Jr., Bradley, R.S. and Reiter, R.E., Jr., 1977: Topoclimatic aspects of developmental suitability in the metropolitan landscape. **Proceedings of Conference on the Metropolitan Physical Environment***, USDA Forest Service General Technical Report, NE-25, 163-171.
- Barry, R.G., W.H. Arundale, J.T. Andrews, R.S. Bradley and H. Nichols, 1977. Environmental change and cultural change in the eastern Canadian Arctic during the last 5000 years. **Arctic and Alpine Research**, 9, 193-210.
- England, J. and Bradley, R.S., 1978: Past glacial activity in the Canadian High Arctic. **Science**, 200, 265-270.
- Bradley, R.S. and England, J., 1978: Influence of volcanic dust on glacier mass balance at high latitudes. **Nature**, 271, 736-738.
- England, J., Bradley, R.S. and Miller, G.H., 1978: Former ice shelves in the Canadian High Arctic. **Journal of Glaciology**, 20, 393-404.
- Bradley, R.S. and England, J., 1978: Recent climatic fluctuations of the Canadian High Arctic and their significance for glaciology. **Arctic and Alpine Research**, 10, 715-731.
- Bradley, R.S. and England, J., 1979: Synoptic climatology of the Canadian High Arctic. **Geografiska Annaler**, 61A, 187-201.
- Bradley, R.S., 1980: Secular fluctuations of temperature in the Rocky Mountain states and comparison with precipitation fluctuations. **Monthly Weather Review**, 108, 873-885.
- England, J., Bradley, R.S. and Stuckenrath, R., 1981: Multiple glaciations and marine transgressions, western Kennedy Channel, N.W.T., Canada. **Boreas**, 10, 71-89.
- Barry, R.G., Kiladis, G. and Bradley, R.S., 1981: Synoptic climatology of the Western United States in relation to climatic fluctuations during the twentieth century. **Journal of Climatology**, 1, 97-113.

- Young, M. and *Bradley, R.S.*, 1984: Insolation gradients and the paleoclimatic record, p. 707-713, in: **Milankovitch and Climate**, Volume 2, Imbrie, J., Kukla, G. and Saltzman, B. (eds.), Dordrecht: D. Reidel.
- Eisched, J., *Bradley, R.S.* and Shao, X.M., 1985: Secular climatic fluctuations in the Great Salt Lake Basin, p. 111-112, in: **Problems of and Prospects for Predicting Great Salt Lake Levels***, Kay, P. and Diaz, H. (eds.) Center for Public Affairs and Administration, University of Utah, Salt Lake City.
- Williams, L.D. and *Bradley, R.S.*, 1985: Paleoclimatology of Baffin Bay, p. 741-772, in: **Quaternary Environments: The Eastern Canadian Arctic, Baffin Bay and West Greenland**, Andrews, J.T. (ed.), Boston: G. Allen and Unwin.
- Bradley, R.S.*, Yuretich, R., Salgado-Labouriau, M.L. and Weingarten, B., 1985: Late Quaternary paleoenvironmental reconstruction using lake sediments from the Venezuelan Andes: preliminary results. **Zeitschrift fur Gletscherkunde und Glazialgeologie**, 21, 97-106.
- Bradley, R.S.* and Jones, P.D., 1986: Data bases for detecting CO₂-induced climatic change. Chapter 2, in: **Detection of CO₂-Induced Climatic Change***, MacCracken, M. and Luther, F. (eds.), U.S. Department of Energy, Washington, D.C.
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