

BIOGRAPHICAL INFORMATION

ERIC JAMES BARRON

President, Florida State University

Date and Place of Birth:

26 October 1951, Lafayette, Indiana

Education:

B.S., 1973 Florida State University (Geology)
M.S., 1976 University of Miami (Oceanography)
Ph.D., 1980 University of Miami (Oceanography)

Positions:

1980 Postdoctoral Research Fellow, National Center for Atmospheric Research, Boulder, Colorado
1981-1985 Scientist I & II, Climate Section, National Center for Atmospheric Research, Boulder, Colorado.
1985-1986 Associate Professor, University of Miami
1986-2002 Director, Earth System Science Center and Associate Professor of Geosciences, the Pennsylvania State University
1989-2006 Professor of Geosciences, the Pennsylvania State University
1998-2003 Director, EMS Environment Institute, Penn State University
2002-2006 Dean, College of Earth and Mineral Sciences, Penn State University
2006-2008 Dean, Jackson School of Geosciences, University of Texas at Austin
2008-2010 Director, National Center for Atmospheric Research
2.01.2010- President, Florida State University

Professional Societies:

Fellow American Geophysical Union
Fellow American Meteorological Society
Fellow Geological Society of America
Fellow American Association for the Advancement of Science
Member Phi Kappa Phi
Member Phi Beta Kappa
Member Golden Key

Honors:

1969-1973 Honors Student, Florida State University
1975-1977 Texaco Fellow
1976 National Center for Atmospheric Research Supercomputing Fellow
1977-1978 Outstanding Student Award, Miami Geological Society
1979-1980 Koczy Fellowship (most outstanding student in last year of study)
1980 Smith Prize (most creative dissertation)
1988 Excellence of Presentation Award, Society of Economic Paleontologists and Mineralogists
1989 Honorable Mention for Excellence of Presentation Award, Society of Economic Paleontologists and Mineralogists
1992 Wilson Research Award, College of Earth and Mineral Sciences, The Pennsylvania State University
1992, 1993 Provost Award for Collaborative Instruction and Curricular Innovations
1993 Excellence of Presentation Award, Society of Sedimentary Geology (SEPM)
1993 Fellow, American Geophysical Union
1993 Honorable Mention for Excellence of Presentation (Poster), American Association of Petroleum Geologists
1995 Fellow, American Meteorological Society
1997 American Association of Petroleum Geologist's Distinguished Lecturer

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| 1999 | Wilson Teaching Award, College of Earth and Mineral Sciences, the Pennsylvania State University |
| 1999 | NASA Outstanding Earth Science Education Product (“Discover Earth: Earth-as-a-System”) |
| 1999 | Distinguished Professor of Geosciences, The Pennsylvania State University |
| 2001 | NASA Group Achievement Award for “Research Strategy for the Earth Science Enterprise” |
| 2002 | Fellow, the National Institute for Environmental eScience, Cambridge University, United Kingdom |
| 2002 | Frontiers in Geophysics Lecture, American Geophysical Union |
| 2003 | NASA Distinguished Public Service Medal |
| 2004 | Fellow, American Association for the Advancement of Science |
| 2006 | Jackson Chair in Earth System Science, University of Texas at Austin |
| 2008 | Fellow, Geological Society of America |
| 2010 | Circle of Gold, Florida State Alumni Association |
| 2012 | Bridge Builders Leadership Award, Martin Luther King Foundation of Florida |
| 2012 | NASPA-Student Affairs Administrators in Higher Education, Region III – President’s Award |

Related Experience:

Publications

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| 1982-1989 | Member, Editorial Board, <i>Geology</i> |
| 1984-1985 | Member, Editorial Board, <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> |
| 1985-1991 | Editor-in-Chief, <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> |
| 1988-1996 | Editor, <i>Global and Planetary Change</i> |
| 1989-1995 | Associate Editor, <i>Journal of Climate</i> |
| 1991 | Member, American Geophysical Union, Selection Committee <i>Paleoceanography</i> Editor |
| 1992- | Member, Editorial Board, <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> |
| 1994-1996 | Member, Editorial Board, <i>Geotimes</i> |
| 1994-2000 | Member, Editorial Board, <i>Consequences</i> |
| 1995, 1997 | Chair, American Geophysical Union, Selection Committee, Biogeochemical Cycles Editor |
| 1995-1999 | Editor-in-Chief, <i>Earth Interactions</i> (electronic journal of AMS, AGU and AAG) |
| 1998 | Editorial Board, Oxford University Press, Global Change Encyclopedia |

Service to University Science Consortia

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|-----------|---|
| 2002-2008 | Trustee, University Corporation for Atmospheric Research |
| 2003-2007 | Board of Governors, Joint Oceanographic Institutions, Inc. |
| 2007-2008 | Trustee, Consortium for Ocean Leadership, Inc. |
| 2008 | Chair, Board of Trustees, Consortium for Ocean Leadership, Inc. |
| 2008 | Chair, Board of Trustees, University Corporation for Atmospheric Research |
| 2011 | Chair, Council of Presidents, University Research Association |

Service to Societies

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|-----------|---|
| 1986-1990 | Member, American Meteorological Society Committee on Climate Variations |
| 1988-1991 | Chair, American Meteorological Society Committee on Climate Variations |
| 1988-1990 | Member, Global Sedimentary Geology Program Committee, Society of Economic Paleontologists and Mineralogists |
| 1991 | Chair, Penrose Conference Committee, Geological Society of America |
| 1990-1991 | Member, American Geophysical Union, Maurice Ewing Medal Subcommittee |
| 1991-1996 | Chair, American Meteorological Society Annual Meeting Program Committee for Global Change |
| 1994 | Member, American Geophysical Union, Small Science Panel |
| 1995-2002 | Member, American Geophysical Union Atmospheric Sciences Executive Committee |
| 1998 | Citation Author-American Geophysical Union, Revelle Medal |
| 1998- | Member, American Geophysical Union, Horton Award Sub-committee |
| 2003 | Member, American Meteorological Society, Mid-term Strategic Planning Assessment team |

2005 Chair, American Geophysical Union, NASA Vision Panel
 2008 Member, American Assoc. Petroleum Geologists Climate Change Committee
 2008-2009 Member, AMS 2010 Annual Meeting Organizing Committee

National Research Council

1987-1990 Member, Climate Research Committee
 1990-1996 Chair, Climate Research Committee
 1989 Member, Study Committee on Earth System History and Modeling, Global Change Committee
 1990-1994 Member, Board on Global Change Research
 1992-1996 Member, Committee on Human Dimensions of Global Change
 1995-1997 Member, Board on Atmospheric Sciences and Climate
 1997-1999 Co-Chair, Board on Atmospheric Sciences and Climate
 1999-2003 Chair, Board on Atmospheric Sciences and Climate
 1997-2002 Ex-officio, Committee on Global Change Research
 1998-2000 Member, Panel on Grand Environmental Challenges
 1999 Member, Panel on Assessment of NASA Post-2000 Plans
 2002-2003 Member, Panel on Tracking and Predicting the Atmospheric Dispersion of Material Releases: Implications for Homeland Security
 2003-2004 Chair, Committee on Metrics for Global Change Research
 2004-2006 Member, Survey Steering Committee for Earth Science and Applications from Space: A Community Assessment and Strategy for the Future
 Chair, Panel on Climate Change and Variability
 2006-2007 Member, Committee on Analysis of Global Change Assessments
 2008-2009 Member, Energy Externalities Committee
 2010-2012 Chair, Committee on Ocean Infrastructure Strategy for U.S. Ocean Research in 2030

Service to the Federal Government

1988 Member, NSF Review Panel, Ocean Drilling Program Plan, FY 1988-1990
 1988-1990 Member, Ocean History Panel, NSF Ocean Drilling Program
 1990-1994 Member, Science Executive Committee, NASA Earth Observing System
 1994-1997 Chair, Science Executive Committee, NASA Earth Observing System
 1990-1994 Chair, Climate and Hydrology Panel, NASA Earth Observing System
 1990-1993 National Center for Atmospheric Research Scientific Computing Division Advisory Committee
 1990-1993 Chair, NSF Advisory Committee, Marine Aspects of Earth System History (MESH)
 1989-1993 Climate Systems Modeling Project Advisory Board
 1991-1993 Member, NSF Review Panel for Geological Record of Global Change
 1992-1993 Member, Earth Science and Applications Advisory Committee, NASA
 1993 Chair, Earth Science and Applications Advisory Committee, NASA
 1994-1997 Member, Earth Science and Applications Advisory Committee, NASA
 1994-1995 National Center for Atmospheric Research Director's Advisory Committee
 1994 Chair, USGCRP Forum on Global Change Modeling
 1994-1996 Chair, U.S. National Committee for PAGES and NSF Earth System History Panel
 1995-1996 Chair, Allocation Panel for Interagency Climate Simulation Laboratory
 1995 Testimony, U.S. House of Representatives, Committee on Science, NASA Budget
 1997 Testimony, U.S. Senate, Committee on the Environment and Public Works – Global Warming
 1997-1999 Member, NSF Geosciences Advisory Committee
 1997 Chair, NSF Committee of Visitors on Ocean Sciences Facilities
 1997 Co-Chair, White House/USGCRP workshop on “Impact on Climate Variation in the Mid Atlantic States”
 1997-2000 Member, USGCRP National Assessment of Climate Impacts Synthesis Team
 1998-2000 Member, NSF Geosciences Strategic Planning Committee GEO-2000
 1998-1999 Member, NOAA Panel on Long Term Climate Monitoring
 1999-2005 Member, NASA Goddard Space Flight Center, Director’s Advisory Committee
 2000-2001 Member, DOE BERAC Subcommittee on Global Change
 2000 Chair, Screening Committee, Director of Earth Sciences, Goddard Space Flight Center

2000 Member, EPA Review Panel, Integrated Assessment
 2000 Member, DOE Review Panel, Climate Change Prediction
 2001 U.S. Senate Testimony on Climate Change Science– Committee on the Environment and Public Works
 2001 Testimony, U.S. House of Representatives, Committee on Science- NOAA Budget
 2001 Briefing, U.S. House of Representatives, Committee on Science-Climate Change Science
 2003 Member, NSF Steering Committee for Cyberinfrastructure Research and Development in the Atmospheric Sciences
 2003-2005 Member, Earth Science and Applications Advisory Committee, NASA
 2005 Chair, NASA Senior Review for the Earth Sciences
 2006 Chair, NSF Earth System History Review panel
 2007 Member, Screening Committee, Geosciences Associate Director, NSF
 2008 Chair, External Review Committee, NOAA Climate Services Plan
 2008 Chair, Steering Committee, Options for a National Climate Service, NOAA
 2009- Member, NOAA Science Advisory Board

International Service

1982-1987 Chair, International Geological Correlation Program (IGCP), Project 191, "Cretaceous Paleoclimatic Atlas Project"
 1982-1986 Member, International Lithosphere Program (ILP), Working Group 7 "Paleoenvironmental Evolution of the Oceans and the Atmosphere"
 Participant, Conference on Scientific Ocean Drilling (COSOD) Organizer, Penrose Conference on Cretaceous Climates
 1982-1986 Member, SCOR Working Group 79, "Geological Variations in Carbon Dioxide and the Carbon Cycle"
 1986-1987 Member, Global Environmental Change Panel for Conference on Scientific Ocean Drilling (COSOD II)
 1988-1990 Organizer, Global Sedimentary Geology Working Group on Paleogeography and Paleoclimatology
 1995 International Review Member, Ocean Drilling Program
 1996-1997 Member, Joint Steering Committee, World Climate Research Program

Other

1980 Shipboard Scientist, RV Glomar Challenger Leg 75
 1998 Chief Scientist, RV Oceanus
 1998-2002 Elected, two terms, State College Area School Director

Papers (non-refereed articles are in italics)

- 1975 *Wanless, H., E.J. Barron and J. Rine. A Progress Report on Sediments and Sedimentation in Inland Waterways, Marco Islands, Florida. Scientific Report, University of Miami, pp. 48.*
- 1976 *Barron, E.J. Suspended Sedimentation Processes, Marco Island, Florida. University of Miami Technical Report 76-9, pp. 182.*
- 1977 *Barron, E.J. Experimentation with Meridional Heat Transport Formulations in the Schneider and Gal-Chen Energy Balance Climate Model. NCAR Technical Note 119: 25-39.*
- 1978 Barron, E.J., C.G.A. Harrison and W.W. Hay. A Revised Reconstruction of the Southern Continents. Transactions of the American Geophysical Union, 59:436-449.
- 1979 Barron, E.J. and C.G.A. Harrison. Reconstruction of the Campbell Plateau and the Lord Howe Rise. Earth and Planetary Science Letters, 45:87-92.
- 1979 Harrison, C.G.A., E.J. Barron and W.W. Hay. Mesozoic Evolution of the Antarctic Peninsula and the Southern Andes. Geology, 7:374-378.
- 1980 Barron, E.J. and C.G.A. Harrison. An Analysis of Past Plate Motions: The South Atlantic and Indian Oceans. In P.A. Davies and S.K. Runcorn (eds.), Mechanisms of Continental Drift and Plate Tectonics, Academic Press, p. 89-109.
- 1980 Barron, E.J. J.L. Sloan and C.G.A. Harrison. Potential Significance of Land-Sea Distribution and Surface Albedo Variations as a Climatic Forcing Factor: 180 M.Y. to the Present. Palaeogeography, Palaeoclimatology, Palaeoecology, 30:17-40.
- 1981 Barron, E.J. Paleogeography as a Climatic Forcing Factor. Geologische Rundschau Band 70, Heft 2, 737-747.
- 1981 Barron, E.J. and J.M. Whitman. Oceanic Sediments in Space and Time. In The Sea, Vol. 7, Emiliani, ed., J. Wiley and Sons, New York, pp. 689-731.
- 1981 Barron, E.J., C.G.A. Harrison, J.L. Sloan and W.W. Hay. Paleogeography, 180 M.Y. to the Present. Eclogae Geologicae Helvetiae, 74:443-470.
- 1981 Barron, E.J., S.L. Thompson and S. H. Schneider. Ice-free Cretaceous Climate? Results from Model Simulations. Science, 212:501-508.
- 1981 Hay, W.W., E.J. Barron., J.L. Sloan and J.R. Southam. Continental Drift and the Global Pattern of Sedimentation. Geologische Rundschau Band 70, Heft 1, 301-313.
- 1981 Thompson, S.L. and E.J. Barron. Comparison of Cretaceous and Present Earth Albedos: Implications for Paleoclimates. Journal of Geology, 89:143-167.
- 1982 Barron, E.J. and W.M. Washington. The Atmospheric Circulation During Warm, Geologic Periods: Is the Equator-to-Pole Surface Temperature Gradient the Controlling Factor? Geology, 10:633-636.
- 1982 Barron, E.J. and W.M. Washington. Cretaceous Climate: A Comparison of Atmospheric Simulations with the Geologic Record. Palaeogeography, Palaeoclimatology, Palaeoecology, 40:103-133
- 1982 Hay, W.W., J.F. Behensky, E.J. Barron and J.L. Sloan. Triassic-Liassic Paleoclimatology of the Proto-Central North Atlantic Rift System. Palaeogeography, Palaeoclimatology, Palaeoecology, 40:13-30.

Papers (continued)

- 1982 Hay, W.W., J.-C. Sibuet and Leg 75 Scientific Party. 1982: Sedimentation and Accumulation of Organic Carbon in the Angola Basin and on Walvis Ridge: Preliminary Results of Deep Sea Drilling Project Leg 75. Geological Society of America Bulletin, 93:1038-1050.
- 1982 Saltzman, E. and E.J. Barron. Deep Circulation in the Late Cretaceous: Oxygen Isotope Paleotemperatures from *Inoceramus* Remains in DSDP cores. Palaeogeography, Palaeoclimatology, Palaeoecology, 40:167-182.
- 1983 Barron, E.J. A Warm, Equable Cretaceous: The Nature of the Problem. Earth Science Reviews, 19:305-338.
- 1983 Barron, E.J. The Oceans and Atmosphere During Warm Geologic Periods. Proceedings of the Joint Oceanographic Assembly 1982-General Symposia, Canadian National Committee/Scientific Committee on Oceanic Research, Ottawa, Ontario, Canada, 64-71.
- 1983 Leg 75 Shipboard Scientific Party (including E.J. Barron). Site 530, Site 531, Site 532. In Hay, W.W. and J.-C. Sibuet et al., Initial Reports of the Deep Sea Drilling Project, v. 75.
- 1983 Steinmetz, J.C., E.J. Barron., A. Boersma, B. Keating, C. McNulty, C. Sancetta and H. Stradner. Summary of Biostratigraphy and Magnetostratigraphy of Deep Sea Drilling Project Leg 75. In Hay, W.W. and J.-C. Sibuet et al., Initial Reports of the Deep Sea Drilling Project, v. 75, p. 449-458.
- 1984 Barron, E.J. Climatic Implications of the Variable Obliquity Explanation of Cretaceous-Paleogene High Latitude Floras. Geology, 12:595-598.
- 1984 Barron, E.J. and W.M. Washington. The Role of Geographic Variables in Explaining Paleoclimates: Results from Cretaceous Climate Model Sensitivity Studies. Journal of Geophysical Research, 89:1267-1279.
- 1984 *Barron, E.J., W.W. Hay and E.G. Kauffman. Penrose Conference Report-Cretaceous Climates, 2-7 October 1983, Florissant, Colorado. Geology, 12:377-378.*
- 1984 Barron, E.J., E. Saltzman and D.A. Price. *Inoceramus*: Occurrence in the South Atlantic and Oxygen Isotopic Paleotemperatures at Hole 530A. In Hay, W.W. and J.-C. Sibuet, et al., Initial Reports of the Deep Sea Drilling Project, v. 75, p. 893-904.
- 1984 Barron, E.J., S.L. Thompson and W.W. Hay. Continental distribution as a forcing factor for global-scale temperature. Nature, 310:574-575.
- 1984 Berner, R.A. and E.J. Barron. Factors Affecting Atmospheric CO₂ and Temperature Over the Past 100 Million Years: Comments on the BLAG Model. American Journal of Science, 284:1183-1192.
- 1985 Barron, E.J. Ancient Climates: Investigations with Climate Models. Reports on Progress in Physics, 47:1563-1599.
- 1985 Barron, E.J. Climate Models: Applications for the Pre-Pleistocene. In Historic and Paleoclimatic Analysis and Modeling, A.D. Hecht, ed., J. Wiley & Sons, pp. 397-421.
- 1985 Barron, E.J. Explanations of the Tertiary global cooling trend. Palaeogeography, Palaeoclimatology, Palaeoecology, 50:45-62.
- 1985 Barron, E.J. Numerical Climate Modeling: A Frontier in Petroleum Source Rock Prediction. American Association of Petroleum Geologists Bulletin, 69:448-459.

Papers (continued)

- 1985 Barron, E.J. and W.M. Washington. Warm Cretaceous Climates: High Atmospheric CO₂ as a Plausible Mechanism. The Carbon Cycle and Atmospheric CO₂: Natural Variations Archean to Present, Geophysical Monograph 32:546-553.
- 1985 Barron, E.J., M.A. Arthur and E.G. Kauffman. Cretaceous Rhythmic Bedding Sequences: A Plausible Link Between Orbital Variations and Climate. Earth and Planetary Science Letters, 72:327-340.
- 1985 Schneider, S.H., S.L. Thompson, and E.J. Barron. Mid Cretaceous, Continental Surface Temperatures: Are High CO₂ Concentrations Needed to Simulate Above Freezing Winter Conditions. The Carbon Cycle on Atmospheric CO₂: Natural Variations Archean to Present, Geophysical Monograph 32:554-560.
- 1986 *Barron, E.J. Mathematical Climate Models: Insights into the Relationship Between Climate and Economic Sedimentary Deposits. Society Econ. Mineralogists and Paleontologists Short Course No. 18 (J. T. Parrish and Eric Barron), 162 pp.*
- 1986 Barron, E.J. Modeling in Paleooceanography. Surveys in Geophysics, 8:1-2.
- 1986 Barron, E.J. Physical Paleooceanography: A Status Report. Mesozoic and Cenozoic Oceans, American Geophysical Union, pp. 1-9.
- 1986 Glancy, T.J., E.J. Barron and M.A. Arthur. An Initial Study of the Sensitivity of Modeled Cretaceous Climate to Cyclical Insolation Forcing, Paleoceanography, 1:523-538.
- 1987 Barron, E.J. Cretaceous Plate Tectonic Reconstructions. Palaeogeography, Palaeoclimatology, Palaeoecology, 59:3-29.
- 1987 Barron, E.J. Eocene Equator-to-Pole Surface Ocean Temperatures: A Significant Climate Problem. Paleoceanography, 2:729-739.
- 1987 *Barron, E.J. Explaining Glacial Periods. Nature*, 329:764-765.
- 1987 *Barron, E.J. Nuclear Waste Disposal: A Climate Problem?--An Editorial. Climate Change*, 10:107-109.
- 1987 *IGCP 191 (E. Barron, organizer). Global Cretaceous Paleogeography International Geologic Correlation Program 191, Palaeogeography, Palaeoclimatology, Palaeoecology*, 59:207-214.
- 1988 Covey, C.C. and E.J. Barron. The Role of Ocean Heat Transport in Climatic Change. Earth Sciences Review, 24:429-445.
- 1989 Barron, E.J. Climate Variations and the Appalachians from the Late Paleozoic to the Present: Results from Model Simulations. Geomorphology, 2(1-3):99-118.
- 1989 *Barron, E.J. Earth's Shrouded Future: The Unfinished Forecast of Global Warming. Sciences, Sept/Oct issue, pp. 14-20.*
- 1989 Barron, E.J. Pre-Pleistocene Climates: Data and Models, In: A. Berger et al. (eds.), Climate and Geo-Sciences, pp. 3-19 Kluwer Academic Publishers.
- 1989 Barron, E.J. Severe Storms During Earth History. Geological Society of America, Bull., 101: 601-612.
- 1989 Barron, E.J. Studies of Cretaceous Climates, In: A. Berger, et al., (eds.), Understanding Climate Change, pp. 149-157. Geophysical Monograph Series 52, UGG Volume 7, American Geophysical Union.

Papers (continued)

- 1989 Barron, E.J. and Peterson, W.H. Model Simulation of the Cretaceous Ocean Circulation. Science, 244:684-686.
- 1989 Barron, E.J., W.W. Hay and S. Thompson. The Hydrologic Cycle: A Major Variable During Earth History. Global and Planetary Change, vol. 1, no. 3, 157-174.
- 1989 Shinn, R. A. and E.J. Barron. Climate Sensitivity to Continental Ice Sheet Size and Configuration. Journal of Climate, 2(12):1517-1537.
- 1990 *Barron, E.J. Paleoclimatology: Modeling Ancient Climates. 1991 McGraw Hill Yearbook of Science and Technology. McGraw Hill Publishing Company, New York, p. 287-290.*
- 1990 Barron, E.J. and L.A. Frakes. Climate Model Evidence for Variable Continental Precipitation and Its Significance for the Phosphate Problem, Chapter 21, in: W.C. Burnett and S. Riggs (eds.), Phosphate Deposits of the World, p. 260, Cambridge University Press
- 1990 Barron, E.J. and W.H. Peterson. Mid-Cretaceous Ocean Circulation: Results from Model Sensitivity Studies. Paleoceanography, 5(3):319-337.
- 1990 Barron, E.J. and S.L. Thompson. Sea Level and Climate Change. Chapter 11 in: R. Revelle (ed.), Studies in Geophysics: Sea Level Change, pp. 185-192, National Academy of Sciences, National Academy Press, Washington, DC.
- 1990 Hay, W.W., E.J. Barron and S.L. Thompson. Global Atmospheric Circulation Experiments on an Earth with Polar and Tropical Continents. Journal of Geological Society, London, 149:749-757.
- 1990 Hay, W.W., E.J. Barron and S.L. Thompson. Results of Global Atmospheric Circulation Experiments on an Earth with a Meridional Pole-to-Pole Continent. Journal of Geological Society, London, 147:385-392.
- 1990 Kruijs, E. and E.J. Barron. Climate Model Prediction of Paleoproductivity and Potential Source Rock Distribution. Deposition of Organic Facies, pp. 195-216, American Association of Petroleum Geologists.
- 1990 Sloan, L. C. and E.J. Barron. "Equable" Climates During Earth History. Geology, 18:489-492.
- 1991 *Barron, E.J. Abrupt Changes and Major Reorganizations in Ocean-Atmosphere Circulation in Earth History. Advisory Panel Report on Earth System History, National Science Foundation, G. Mountain (ed.), p. 37-49.*
- 1991 Barron, E.J. Climate and Lacustrine Petroleum Source Prediction. Special volume, Lacustrine Basin Exploration: Case Studies and Modern Analogs, American Association of Petroleum Geologists, 1-18.
- 1991 *Barron, E.J. The Role of the Ocean in Climate Change: Key Limitations in Current Understanding. In: M.E. Fernau and D.W. South (eds.), Effects of Uncertainties on the Accuracy of Global Climate Change Predictions: A Survey of Recent Literature, U.S. Department of Energy, Argonne National Laboratory, 4(1-4): 15.*
- 1991 Barron, E.J. and W.H. Peterson. The Cenozoic Ocean Circulation Based on Ocean General Circulation Model Results. Palaeogeography, Palaeoclimatology, Palaeoecology, 83:1-28.
- 1991 Fawcett, P. and E.J. Barron. A Geological Perspective on Climatic Change: Computer Simulation of Ancient Climates. Geoscience Canada V. 18, no. 3, 111-117
- 1991 Sloan, L. C. and E.J. Barron. Comments and reply on "Equable climates during Earth History?" Geology, 19(5):539-542.

Papers (continued)

- 1992 *Barron, E.J. Defining the EOS Mission: Part I--Reports from Disciplinary Science Panels. Global and Planetary Change, 98:1-2.*
- 1992 Barron, E.J. Paleoclimatology. Chapter 24 in Understanding the Earth, C. Wilson (ed.), Cambridge University Press, Cambridge, UK, pp. 485-505.
- 1992 Schultz, P., E.J. Barron and J.R. Sloan. Assessment of NCAR General Circulation Model Precipitation in Comparison with Observations. Global and Planetary Change, 5(4):269-310.
- 1992 Sloan, L.C. and E.J. Barron. A Comparison of Eocene Climate Model Results to Quantified Paleoclimatic Interpretations. Palaeogeography, Palaeoclimatology, Palaeoecology, 93(3/4):183-202.
- 1992 Sloan, L. C. and E.J. Barron. Paleogene Climatic Evolution: A Climate Model Investigation of the Influence of Continental Elevation and Sea Surface Temperature Upon Continental Climate. Chapter 10 in D.R. Prothero and W.A. Berggren (eds.), Eocene-Oligocene Climatic and Biotic Evolution, Princeton University Press, pp. 202-217.
- 1993 *Barron, E.J. and EOS Panel on Physical Climate and Hydrology. EOS Science Priorities for Physical Climate and Hydrology: Key Measurements. Global and Planetary Change, 7:253-278.*
- 1993 Barron, E.J., P.J. Fawcett, D. Pollard and S.L. Thompson. Model Simulations of Cretaceous Climates: The Role of Geography and Carbon Dioxide. Phil. Trans. Royal Society of London B, 341:307-316.
- 1993 Barron, E.J., W.H. Peterson, D. Pollard and S.L. Thompson. Past Climate and the Role of Ocean Heat Transport: Model Simulations of Cretaceous. Paleoceanography, v. 8(6):785-798.
- 1993 Glancy, T.J., M.A. Arthur, E.J. Barron and E.G. Kauffman. The Model Paleoclimate of the North American Cretaceous Epicontinental Sea. In Evolution of the Cretaceous Western Interior Basin, p. 219-242. Geological Assoc. Canada Special Paper 39.
- 1994 *Barron, E.J. Chill Over the Cretaceous. Nature, 370:415*
- 1994 *Barron, E.J. and G.T. Moore. Climate Model Application in Paleoenvironmental Analysis, Society for Sedimentary Geology, Short Course #33, pp. 339.*
- 1994 Fawcett, P.J., E.J. Barron, V.D. Robison, and B.J. Katz. The Climatic Evolution of India and Australia from the Late Permian to Mid-Jurassic: A Comparison of Climate Model Results with the Geologic Record, Geological Society of America Special Paper, v. 288, pp. 139-148.
- 1994 Moore, G.T., E.J. Barron, Karen L. Bice and D.N. Hayashida. Paleoclimatic Controls on Neocomian-Barremian (Early Cretaceous) Lithostratigraphy in Northern Gondwana's Rift Lakes Interpreted from a General Circulation Model Simulation. Chapter 8 in A.Y. Huc (ed.), Paleogeography, Paleoclimate and Source Rocks, AAPG Studies in Geology 40, pp. 173-189.
- 1994 Moore, G.T., E.J. Barron and D.N. Hayashida. Kimmeridgian (Late Jurassic) General Lithostratigraphy and Source Rock Quality for the Western Tethys Sea Inferred from Paleoclimate Results Using a General Circulation Model. Chapter 7 in A.Y. Huc (ed.), Paleogeography, Paleoclimate and Source Rocks, AAPG Studies in Geology 40, pp. 157-172.
- 1995 *Barron, E.J. Advances in Predicting Global Warming, The Bridge, National Academy of Engineering, 25(2): 10-15.*
- 1995 Barron, E.J. Climate Models: How Useful for Policy Decisions, Consequences, 1 (3): 16-27.

Papers (continued)

- 1995 Barron, E.J. *Climatic Variation in Earth History, Global Change Instructional Program, Module #108, University Corporation for Atmospheric Research, Boulder, CO, 22 pp.*
- 1995 Barron, E.J. Global Change Researchers Assess Projections of Climate Change, Transactions of the American Geophysical Union. 76(18):185, 189-190.
- 1995 Barron, E.J. Tropical Climate Stability and the Implications for the Distribution of Life. In: Study in Geophysics, National Academy of Sciences, National Academy Press, Washington, DC, pp. 108-117.
- 1995 Barron, E.J. Warmer Worlds: Global Change Lessons from Earth History, Chapter 3 in Henderson-Sellers, A. (ed.), World Survey of Climatology, v. 16, Climates of the World: A Modeling Perspective, Elsevier, p. 71-94.
- 1995 Barron, E.J. and P.J. Fawcett. The Climate of Pangea: A Review of Climate Model Simulations of the Permian. In: The Permian of Northern Pangea, (edited by P.A. Scholle, T.M. Peryt and D.S. Ulmer-Scholle), pp. 37-52, Springer-Verlag, New York, NY.
- 1995 Barron, E.J., P.J. Fawcett, W.H. Peterson, D. Pollard, and S.L. Thompson. A "Simulation" of Mid-Cretaceous Climate, Paleoceanography, V. 10, p. 953-962.
- 1995 Barron, E.J. *The Atmosphere: Structure and Function, Chapter 5 in: The Grolier Library of Environmental Concepts and Issues, 900 p., Grolier, Inc. Danbury, CT.*
- 1995 Barron, E.J. *Climate and Temperature, Chapter 6 in: The Grolier Library of Environmental Concepts and Issues, 900 p., Grolier, Inc. Danbury, CT.*
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