

CURRICULUM VITAE

Anthony D. Barnosky • Department of Integrative Biology • University of California, Berkeley

Contact

e-mail: barnosky@berkeley.edu

Skill Sets

- University research and teaching
- Nature stewardship
- Directing interdisciplinary research consortia
- Managing of and raising funds for multi-investigator projects
- Managing students and employees
- Communicating science to academic and general audiences (including academic and popular books, articles, radio, newspaper, blogs, lectures, websites, film, etc.)
- Current research program emphasizes understanding and managing global change, biodiversity and extinction dynamics, and biodiversity conservation
- Paleontological, geological, archaeological, biological field work

Education

B.A. 1974. The Colorado College. (Geology)

M.Sc. 1980. University of Washington. (Geology, Vertebrate Paleontology)

Ph.D. 1983. University of Washington. (Geology, Vertebrate Paleontology)

Present Positions

- Professor Emeritus, Department of Integrative Biology, University of California, Berkeley

Past Positions

2018-2022 Professor of Biology, Stanford University

2016-2022 Executive Director, Jasper Ridge Biological Preserve, Stanford University

1990-2016 Tenured Professor, Department of Integrative Biology, University of California, Berkeley

1990-2016 Curator, Museum of Paleontology, University of California, Berkeley

1990-2016 Research Faculty, Museum of Vertebrate Zoology, University of California, Berkeley

2012-2013 Cox Visiting Professor, Environmental Earth Systems Science, Stanford University (Sabbatical)

2007-2008 Visiting Professor, Department of Ecology, Pontificia Universidad Católica de Chile, Santiago (Sabbatical)

1994-1998 Director, Mountain Research Center, Montana State University. (Part-time 1994, then full-time while on leave from UC Berkeley)

1995-1998 Tenured Professor of Geology and Biology, Department of Earth Sciences, Montana State University (While on leave from UC Berkeley)

1995-1998 Adjunct Curator, Museum of the Rockies, Montana State University, (While on leave from UC Berkeley)

1993-1995 Assistant Dean - Undergraduate Services, University of California, Berkeley

1984-1990 Assistant then Associate Curator, Section of Vertebrate Fossils. Carnegie Museum of Natural History

1988-1990 Adjunct Assistant then Associate Professor, Department of Geology and Planetary Sciences, University of Pittsburgh

1983-1984 Leverhulme Postdoctoral Fellow - Department of Geology and Trinity College, Dublin (Ireland)

Prior to 1983: Field Archaeologist, Alyeska Pipeline Company. Geologist, U.S. Geological Survey. Geologist, Atlantic Richfield Company

Professional Societies (Current and Past)

Society of Vertebrate Paleontology
Paleontological Society
American Quaternary Association
International Biogeography Society
American Geophysical Union

Examples of Service Activities

Government

2012-Present Member, Anthropocene Working Group of the International Commission on Stratigraphy, the largest scientific organization within the International Union of Geological Sciences
2013-2017 Informal Advisor to Governor Jerry Brown to liaison between science and government on communicating climate change and other global change issues
2012-2013 National Research Council of the National Academy of Sciences Committee, "Understanding and Monitoring Abrupt Climate Change."
2003-2006 National Science Foundation Panelist

Professional Societies / Journal Editing

2013-Present Editor, The Anthropocene Review
2000-2022 Editor, Evolutionary Ecology Research
2006-2019 Editor, PLoS Biology
2012-2014 Editor, PeerJ
1994-1996 Vice President, Pacific Coast Section of the Paleontological Society
1992-1996 Society of Vertebrate Paleontology Conformable Mitigation Review Subcommittee
1992-1995 Bibliography of Fossil Vertebrates Advisory Committee
1992-1993 Secretary, Pacific Coast Section of the Paleontological Society
1989-1992 Editor, Society of Vertebrate Paleontology News Bulletin
1989-1990 Associate Editor, Journal of Vertebrate Paleontology
1989-1990 Chairman, Society of Vertebrate Paleontology Government Liaison Committee

University of California Committees

2015-2016 UC Carbon Neutrality Working Group – Providing a roadmap for attaining carbon neutrality throughout the UC system by 2025

Awards and Grants

2022-Present Honorary Member, Society of Vertebrate Paleontology
2020-2022 RCN-UBE Incubator: Building the San Francisco Bay Research Coordination Network for Student Opportunities in Avian Research to enhance STEM education \$74,157
2019-2022 Analyses of Lake Sediments at Jasper Ridge Biological Preserve for Suitability as an Anthropocene GSSP Location. *Haus der Kulturen der Welt (HKW), Berlin*. \$59,683
2018-2020 Bechtel Foundation. Network Atlas Project: Measuring the socioecological health of the landscape and promoting science-based communication and coordination across the Santa Cruz Mountains Stewardship Network. \$306,770.
2012-2016 National Science Foundation, Sedimentary Geology and Paleontology. South American Megafauna Extinction: A Test Of Synergistic Effects Of Climate Change And Human Population Growth In Magnifying Extinction Intensity. (with CO-PI Charles Marshall, \$320,623.
2012-2013 Cox Visiting Professorship, Environmental Earth Systems Science, Stanford University

- 2011-2014 Gordon and Betty Moore Foundation. Global Change Forecasting for Biological Systems in California. \$1,454,900. Principal Investigators: Charles Marshall, Anthony D. Barnosky, A. Roger Byrne, Todd E. Dawson, Michael Eisen, B. Lynne Ingram, Eileen Lacey, Cynthia Looy, Craig Moritz, Rasmus Nielsen, Patrick M. O'Grady, Mary E. Power, Vincent H. Resh, Jonathan H. Stillman, Neil Tsutsui. (My direct involvement was in helping to conceive of and write the grant, and to conduct research in a component project that will obtain a long core from Clear Lake, California in order to correlate vegetational and climate change with vertebrate biodiversity change from the last interglacial through to the present.)
- 2008-2010 National Science Foundation, Sedimentary Geology and Paleontology. Collaborative Research: Response of Mammalian Survivors to the Late Pleistocene Extinction Event. \$50,785. Principal Investigator A. D. Barnosky
- 2007 Fulbright Senior Specialist Program Fellow
- 2006-2010 National Science Foundation, Ecological Biology Cluster. Using Paleospecies-Area Curves to Predict Biodiversity Changes in Mammals: Linkage of Macroecology and Paleontology. \$270,000, 2006-2009, Principal Investigator A. D. Barnosky
- 2005-2006 Chancellor's 'Everyday Hero' Citation for contribution to undergraduate education
- 2006-2007 National Science Foundation, Sedimentary Geology and Paleontology. Response OF Mammalian Survivors to the Late Pleistocene Extinction Event: Influence of biotic and abiotic factors. ~\$50,000 seed money only to E.A. Hadly, Barnosky also PI
- 2003-2005 National Science Foundation. Completion of GIS Analyses to Assess Biotic Effects of Environmental Perturbations on Neogene Mammals. \$184,000. Geology and Paleontology Program. Principal Investigator A. D. Barnosky
- 2000-2003 National Science Foundation. A GIS Analysis to Assess the Effect of Large-Scale Perturbations in the Physical Environment on the Evolution of Neogene Mammal Faunas in the Western United States. Geology and Paleontology. \$209,000, 3 years (2/1/00-1/31/03). Principal Investigator A.D. Barnosky
- 1998 "Protector of Yellowstone National Park" Award for accomplishments in promoting and conducting quality scientific investigations to benefit the future of the Greater Yellowstone Ecosystem
- 1996-1998 National Science Foundation. Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems. 2 year renewal. \$817,167, EPSCoR Program. (Project Directors Jack Stanford and Anthony D. Barnosky)
- 1996-1998 Federal Geographic Data Committee. Proposal for a National Spatial Data Infrastructure Information Center and Sharing of a Geographic Information Systems Technology Among Local, State, and Federal Governments Within the Greater Yellowstone Area. 2 years. \$161,335
- 1995-1996 National Science Foundation. Determinants of Biodiversity, Social, and Economic Patterns in Montane Ecosystems. 1 year. \$500,000, EPSCoR Program. (Project Directors Jack Stanford and Anthony D. Barnosky)
- 1993 University of Texas at Austin Langston Lecturer in Geological Sciences
- Since 1992 Elected Fellow, California Academy of Sciences
- 1990-1996 National Science Foundation. Middle Pleistocene glacial-interglacial transitions and their effect on mammalian community reorganization in Colorado. 5 years, \$287,000, Ecology Program

- 1992-1995 National Science Foundation. Collaborative Research on Middle Miocene Biogeography and Biostratigraphy in the northern Rocky Mountains of Idaho, Montana, and Wyoming. 3 years. \$143,283, Geology and Paleontology Program
- 1987-1988 National Academy of Sciences Committee on Scholarly Communication with the People's Republic of China. Paleocology, prehistoric environment, and morphologic stability of Pere David's deer in China
- 1987-1990 National Science Foundation. Barstovian mammals in the Rocky Mountains and mid-Miocene biogeography: Case study from Chalk Cliffs, Montana. 3 years. \$152,993, Systematic Biology Program
- 1987-1989 National Science Foundation, 1987-1989. Evolutionary tempo and mode in Quaternary mammals from the Appalachians: A study based on computerized image processing. 3 years. \$94,083, Geology and Paleontology Program
- 1986 National Science Foundation. Acquisition of a computerized image processing system by Carnegie Museum of Natural History Division of Earth Sciences (co-operative effort of all CMNH Earth Sciences curators, Principal Investigators: M.R. Dawson, C.W. Barnosky, and J. Carter). Instrumentation Program.
- 1986 National Geographic Society Research Grant. For research on Barstovian mammals, magnetostratigraphy, and palynology at Chalk Cliffs, Montana.
- 1989 Carnegie Museum M. Graham Netting Research Grant. For research on Neogene faunas of the Lemhi Valley, Idaho/Montana
- 1985-1988 Carnegie Museum M. Graham Netting Research Grant. For research on Quaternary mammal faunas of Colorado and Oregon
- 1985 National Geographic Society Research Grant. For collection and systematic study of Barstovian (middle Miocene) mammals from Chalk Cliffs, Montana
- 1984 Carnegie Museum M. Graham Netting Research Grant. For research on the paleoecology and evolution of Pleistocene mammals from Trout Cave, West Virginia
- 1983-1984 Leverhulme Research Fellowship at Trinity College, University of Dublin, Ireland. For research on taphonomy of Irish elk in Pleistocene lake deposits of Ireland
- 1981 National Science Foundation Doctoral Dissertation Improvement Grant. For research on systematics, biostratigraphy, and biogeography of Miocene mammals from Jackson Hole, Wyoming. ~\$7,000, Geology Program
- 1981 Livingston-Wernecke Award for Academic Excellence, Department of Geological Sciences, University of Washington
- 1978-1982 Research Grant from the Corporation Fund of the Department of Geological Sciences, University of Washington
- 1980-1981 Geological Society of America Research Grant. Sigma Xi Grant for Scientific Research
- 1978-1983 Teaching Assistantship, University of Washington, Department of Geological Sciences
- 1977- 1978 Graduate Research Assistantship, University of Washington Graduate School


- 1973-1974 Dean's List, Colorado College
- 1972 Ford Venture Grant. For archaeological research in southeastern Colorado
- 1970-1973 Colorado College Grant for Academic Studies
- 1970-1973 National Student Defense Scholarship

Communicating Science to the Public

Trade Books

- 2016 Barnosky, A.D. and Elizabeth A. Hadly, 2016. *Tipping Point for Planet Earth—How Close Are We To The Edge?* (Thomas Dunne/St Martins Press, April, 2016). 264 pp. USA edition of *End Game* (which was published in the UK in 2015).
- 2015 Barnosky, A.D. and Elizabeth A. Hadly. 2015. *End Game, Tipping Point for Planet Earth?* HarperCollins / WilliamCollins (UK), 272 pp.
- 2014 Barnosky, A.D. *Dodging Extinction—Power, Food, Money, and Future of Life on Earth.* University of California Press, 240 pp. **[Named one by NPR’s Science Friday as one of the best science reads of 2014; named by UC Press as a “Director’s Cut” book—one of the 12 best out of the 200 they published in 2014]**
- 2009 Barnosky, A.D. *Heatstroke: Nature in the Age of Global Warming.* Island Press, 269 pp. See reviews here: [http://ib.berkeley.edu/labs/barnosky/Heatstroke Reviews.html](http://ib.berkeley.edu/labs/barnosky/Heatstroke%20Reviews.html)

Video Examples

 60 Minutes 2 weeks ago
Stanford biologist Tony Barnosky says Earth has been through five mass extinction events – times when at least 75% of known species disappeared from the planet. He told 60 Minutes that we’re now living through the sixth mass extinction. <https://youtu.be/6TqhcZaxrPA>



[60 MINUTES, THE VANISHING WILD.](#) Earth is currently experiencing a sixth mass extinction, according to scientists.



[ENDGAME AND TOMORROW](#)
Humanity is poised at a tipping point. Will it be good or bad? A book ([End Game, Tipping Point for Planet Earth?](#) and a film ([Demain and its English version, Tomorrow](#)) tell the stories of dangers and solutions.



[SCIENTISTS AT WORK: HOW PALEONTOLOGISTS DETERMINE THE NORMAL PACE OF EXTINCTION](#)
Anthony Barnosky and Kaitlin Maguire explain how we know that current rates of mammal extinction are way too high, in the field at John Day Fossil Beds National Monument. Produced by [Josh Rosen](#) and [Amy Miller](#) at [Spine Films](#), and [HHMI](#).



[MASS EXTINCTION: LIFE AT THE BRINK](#)

A 54-minute film by award-winning film maker [Sarah Holt](#), Tangled Bank Studios and HHMI; premiered on the Smithsonian Channel.

Presents the science behind what we know of the dinosaur extinction, the Great Dying that took place at the end of the Permian, and the current extinction crisis.

[BIODIVERSITY IN THE AGE OF HUMANS: HHMI's 2014 Holiday Lectures on Science](#)

Are we witnessing a sixth mass extinction? What factors threaten ecosystems on land and in the sea? What are researchers doing to try to conserve biodiversity and ecosystems such as tigers in Asia and coral reefs around the world? What tools do we have to avoid a global catastrophe? In six half-hour lectures, three leading scientists—[Anthony D. Barnosky](#), [Elizabeth A. Hadly](#), and [Stephen R. Palumbi](#)—describe the state of biodiversity on our planet and how to face the great challenges that lie ahead.



[Earth's Tipping Point](#) (>30,000 views)

[Abrupt Impacts Of Climate Change: Public Briefing](#) (National Research Council/National Academy of Sciences)

Websites

ConsensusForAction, Maintaining Humanity's Life Support Systems in the 21st Century.

<http://consensusforaction.stanford.edu/>

Examples of Popular Articles and Blogs

2015 **Barnosky, A.D.** and Elizabeth A. Hadly. Five Climate Tipping Points We've Already Seen, and One We're Hoping For. Huffington Post Science, Posted: 09/21/2015 4:32 p.m. EDT

http://www.huffingtonpost.com/anthony-d-barnosky/five-climate-tipping-point_b_8166588.html?utm_hp_ref=science&ir=Science

2015 Elizabeth A. Hadly and **A.D. Barnosky**. Population Growth is Driving the Migration Crisis. Consensus for Action Blog, Posted 09/18/2015, 4:11 PDT <http://consensusforaction.stanford.edu/blog/population-growth-is-driving.html>

2014 **Barnosky, A.D.** Did the Anthropocene Begin with a Bang or a Drumroll? Huffington Post Science, Posted: 01/22/2015 11:38 am EST http://www.huffingtonpost.com/anthony-d-barnosky/did-the-anthropocene-begin-with-a-bang_b_6494076.html

2014 **Barnosky, A.D.** Preventing the Sixth Mass Extinction Requires Dealing With Climate Change. Huffington Post Green Posted: 11/18/2014 7:37 pm EST http://www.huffingtonpost.com/anthony-d-barnosky/preventing-the-sixth-mass_b_6161284.html

2014 **Barnosky, A.D.** 10 Ways You Can Help Stop the Sixth Mass Extinction. Huffington Post Science Posted: 10/13/2014 7:12 pm EDT http://www.huffingtonpost.com/anthony-d-barnosky/10-ways-you-can-help-stop_b_5968774.html

- 2014 **Barnosky, A.D.** Musings on the Wild Part 6: Survival? <http://consensusforaction.stanford.edu/blog/> October 1, 2014
- 2014 **Barnosky, A.D.** Musings on the Wild Part 5: Feeling Wild <http://consensusforaction.stanford.edu/blog/> September 28, 2014
- 2014 **Barnosky, A.D.** Musings on the Wild Part 4: The Mighty Zambezi. <http://consensusforaction.stanford.edu/blog/> September 17, 2014
- 2014 **Barnosky, A.D.** Musings on the Wild Part 3: Peep Show. <http://consensusforaction.stanford.edu/blog/> September 11, 2014
- 2014 **Barnosky, A.D.** Musings on the Wild Part 2: All the Same to the Weaver Birds <http://consensusforaction.stanford.edu/blog/> September 3, 2014
- 2014 **Barnosky, A.D.** Musings on the Wild Part 1: Fencing the Wild. <http://consensusforaction.stanford.edu/blog/> August 26, 2014.
- 2014 Elizabeth A. Hadly and **Anthony D. Barnosky**. Beyond Science Communication: Informative versus Prescriptive Advocacy. <http://consensusforaction.stanford.edu/blog/> January 31, 2014
- 2013 **Barnosky, A.D.** We Won Our War On Nature. <http://consensusforaction.stanford.edu/blog/we-won-our-war-on-nature.html>
- 2010 **Barnosky, A. D.** Halfway There. Kyoto Journal 75:12. (This issue of Kyoto Journal was produced to coincide with and distributed to delegates to the Conference of Parties to the Convention on Biological Diversity in Nagoya, Japan, Fall 2010. Invited contribution; other invited contributors included Bill McKibben and Barry Lopez).
- 2009 **Barnosky, A. D.** Bailing out nature: How to keep nature solvent as global warming drains its reserves. Wilderness Watch Newsletter, December 2009, <http://www.wildernesswatch.org/pdf/newsletters/dec09.pdf>.
- 2009 **Barnosky, A. D.** Geography of Hope. Island Press Blogs, May 12th, 2009 <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** Nature-al Resources. Island Press Blogs, April 20th, 2009, <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** Now for Some Good News, Island Press Blogs, April 10th, 2009, <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** Hoping for the Best, Island Press Blogs, April 3rd, 2009, <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** So What's Wrong with a Little Global Warming, Island Press Blogs, March 25th, 2009, <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** After the Storm, Island Press Blogs, March 18th, 2009, <http://blog.islandpress.org/author/AnthonyBarnosky>
- 2009 **Barnosky, A. D.** The Insidious Side of Climate Change: Climate and Nature. KQED Climate Watch, April 17, 2009, <http://blogs.kqed.org/climatewatch/2009/04/17/the-insidious-side-of-climate-change/>

- 2009 **Barnosky, A. D.** Sunday Forum / Introducing ... the pizzly bear. Pittsburgh Post-Gazette op-ed, Septembr 14, 2009. <http://www.post-gazette.com/pg/09256/997393-109.stm?cmpid=news.xml>
- 2009 **Barnosky, A. D.** It's up to all of us to save our parks from heatstroke. Seattle-Tacoma News Tribune, op-ed, April 28, 2009 <http://www.thenewstribune.com/opinion/othervoices/story/723641.html>
- 2009 **Barnosky, A. D.** Readers' Forum: New breed of bear cause for concern. Oakland Tribune / Contra Costa Times op-ed, May 30, 2009. http://findarticles.com/p/articles/mi_qn4176/is_20090530/ai_n31936239/
- 1986 **Barnosky, A. D.** The great-horned giants of Ireland: Irish elk. *Carnegie Magazine* 58(1):22-30.

Scientific Bibliography - Anthony D. Barnosky

List of Books

Barnosky, A.D. and Elizabeth A. Hadly, 2016. *Tipping Point for Planet Earth—How Close Are We To The Edge?* (Thomas Dunne/St Martins Press, April, 2016). 264 pp. USA edition of *End Game* (which was published in the UK in 2015).

Barnosky, A.D. and Elizabeth A. Hadly, July 2, 2015. *End Game, Tipping Point for Planet Earth?* HarperCollins / WilliamCollins (UK), 272 pp.

Barnosky, A.D. 2014. *Dodging Extinction—Power, Food, Money, and Future of Life on Earth.* University of California Press, 240 pp. (Named one by NPR's Science Friday as one of the best science reads of 2014; named by UC Press as a "Director's Cut" book—one of the 12 best out of the 200 they published in 2014)

James W.C. White (Chair), Richard B. Alley, David E. Archer, **Anthony D. Barnosky**, Jonathan Foley, Rong Fu, Marika M. Holland, M. Susan Lozier, Johanna Schmitt, Laurence C. Smith, George Sugihara, David W. J. Thompson, Andrew J. Weaver, Steven C. Wofsy, Edward Dunlea, Claudia Mengelt, Amanda Purcell, Rita Gaskins, Rob Greenway, 2013. *Abrupt Impacts of Climate Change, Anticipating Surprises.* National Academies Press, 201 pp.

Barnosky, A.D. 2009. *Heatstroke: Nature in the Age of Global Warming.* Island Press, 269 pp.

Barnosky, A. D. (Editor) 2004. *Biodiversity Response to Climatic Change in the Middle Pleistocene: The Porcupine Cave Fauna from Colorado.* University of California Press. 386 pp.

Martin, R.A. and **A. D. Barnosky** (Editors). 1993. *Morphological Change in Quaternary Mammals of North America.* Cambridge University Press. 415 pp.

Chronological List of Peer-Reviewed Publications in Professional Journals or Books

136. Jan Zalasiewicz, Mark Williams, Colin N. Waters and Anthony D. Barnosky. 2023. The Anthropocene. PP. 371-384 in *The Origins of All Things* (in press).
135. M. Allison Stegner, Elizabeth A Hadly, Anthony D Barnosky, SeanPaul La Selle, Brian Sherrod, R. Scott Anderson, Sergio A. Redondo, Maria C. Viteri, Karrie L. Weaver, Andrew B. Cundy, Pawel Gaca, Neil L. Rose, Handong Yang, Sarah L. Roberts, Irka Hajdas, Bryan A. Black, and Trisha L. Spanbauer. 2023. *The Anthropocene Review.* <https://doi.org/10.1177/20530196221144098>.
134. Colin N. Waters, MarkWilliams, Jan Zalasiewicz, Simon D. Turner, Anthony D. Barnosky, Martin J. Head, Scott L. Wing, Michael Wagreich, Will Steffen, Colin P. Summerhayes, Andrew B. Cundy, Jens Zinke, Barbara Fiałkiewicz-Kozielec, Reinhold Leinfelder, Peter K. Haff, J. R. McNeill, Neil L. Rose, Irka Hajdas, Francine M. G. McCarthy, Alejandro Cearreta, Agnieszka Gałuszka, Jaia Syvitski, Yongming Han, Zhisheng An, Ian J. Fairchild, Juliana A. Ivar do Sul, Catherine Jeandel. 2022. Epochs, events and episodes: Marking the geological impact of humans. *Earth-Science Reviews* 234, 104171. <https://doi.org/10.1016/j.earscirev.2022.104171>
133. Martin J. Head, Jan A. Zalasiewicz, Colin N. Waters, Simon D. Turner, Mark Williams, Anthony D. Barnosky, Will Steffen, Michael Wagreich, Peter K. Haff, Jaia Syvitski, Reinhold Leinfelder, Francine M. G. McCarthy, Neil L. Rose, Scott L. Wing, Zhisheng An, Alejandro Cearreta, Andrew B. Cundy, Ian J. Fairchild, Yongming Han, Juliana A. Ivar Do Sul, Catherine Jeandel, J. R. McNeill, Colin P. Summerhayes. 2022. The proposed Anthropocene Epoch/Series is underpinned by an extensive array of mid-20th century stratigraphic event signals. *Journal of Quaternary Science* 37(7):1181-1187. <https://doi-org.libproxy.berkeley.edu/10.1002/jqs.3467>

132. Mark Williams, Reinhold Leinfelder, Anthony D. Barnosky, Martin J. Head, Francine M. G. McCarthy, Alejandro Cearreta, Stephen Himson, Rachael Holmes, Colin N. Waters, Jan Zalasiewicz, Simon Turner, Mary McGann, Elizabeth A. Hadly, M. Allison Stegner, Paul Michael Pilkington, Jérôme Kaiser, Juan Carlos Berrio, Ian P. Wilkinson, Jens Zinke, Kristine L. DeLong. 2022. Planetary-scale change to the biosphere signalled by global species translocations can be used to identify the Anthropocene. *Palaeontology* 65(4): e12168. <https://doi.org/10.1111/pala.12618>
131. Zalasiewicz, J., Waters, CN, Ellis, EC, Head, MJ, Vidas, D, Steffen, Thomas, JA, Horn, E, Summerhayes, CP, Leinfelder, R, McNeill, JR, Williams, M, Barnosky, AD, Richter, DD, Gibbard, PL, Syvitski, J, Jeandel, C, Cearreta, A, Cundy, AB, Fairchild, I, Rose, NL, do Sul, JAI, Shotyk, Turner, S, Wapreisch, M, Zinke, J. 2021. The Anthropocene: Comparing Its Meaning in Geology (Chronostratigraphy) with Conceptual Approaches Arising in Other Disciplines. *Earths Future* 9(3): e2020EF001896, DOI 10.1029/2020EF001896.
130. Martin J. Head, Will Steffen, David Fagerlind, Colin N. Waters, Clement Poirier, Jaia Syvitski, Jan A. Zalasiewicz, Anthony D. Barnosky, Alejandro Cearreta, Catherine Jeandel, Reinhold Leinfelder, J.R. McNeill, Neil L. Rose, Colin Summerhayes, Michael Wapreisch, and Jens Zinke. 2021. The Great Acceleration is real and provides a quantitative basis for the proposed Anthropocene Series/Epoch. Episodes <https://doi.org/10.18814/epiugs/2021/021031>. 18 pp.
129. Marcos Moleón, José A. Sánchez-Zapata, José A. Donázar, Eloy Revilla, Berta Martín-López, Cayetano Gutiérrez-Cánovas, Wayne M. Getz, Zebensui Morales-Reyes, Ahimsa Campos-Arceiz, Larry B. Crowder, Mauro Galetti, Manuela González-Suárez, Fengzhi He, Pedro Jordano, Rebecca Lewison, Robin Naidoo, Norman Owen-Smith, Nuria Selva, Jens-Christian Svenning, José L. Tella, Christiane Zarfl, Sonja C. Jähnig, Matt W. Hayward, Søren Faurby, Nuria García, Anthony D. Barnosky and Klement Tockner, 2020. Rethinking Megafauna. *Proceedings of the Royal Society B* 287: 20192643. <http://dx.doi.org/10.1098/rspb.2019.2643>
128. Jan Zalasiewicz, Colin N. Waters, Martin J. Head, Clément Poirer, Colin P. Summerhayes, Reinhold Leinfelder, Jacques Grinevald, Will Steffen, James P.M. Syvitski, Peter Haff, John R. McNeill, Michael Wapreisch, Ian J. Fairchild, Daniel D. Richter, Davor Vidas, Mark Williams, Anthony D. Barnosky. 2019. A formal Anthropocene is compatible with but distinct from its diachronous anthropogenic counterparts: a response to W.F. Ruddiman's 'three-flaws in defining a formal Anthropocene.' *Progress in Physical Geography* DOI: 10.1177/0309133319832607, p. 1-15.
127. Dexin Tian, Yan Xie, **Anthony D. Barnosky**, and Fuwen We. 2018. Defining the balance point between conservation and development. *Conservation Biology*, pp. 1-8, DOI: 10.1111/cobi.13221.
126. Mark Williams, Jan Zalasiewicz, Colin Waters, Stephen Himson, Colin Summerhayes, **Anthony Barnosky** and Reinhold Leinfelder. 2018. The palaeontological record of the Anthropocene. *Geology Today* 34(5):188-193.
125. Will Steffen, Johan Rockström, Katherine Richardson, Timothy M. Lenton, Carl Folke, Diana Liverman, Colin P. Summerhayes, **Anthony D. Barnosky**, Sarah E. Cornell, Michel Crucifix, Jonathan F. Donges, Ingo Fetzer, Steven J. Lade, Marten Scheffer, Ricarda Winkelmann, and Hans Joachim Schellnhuber. 2018. Trajectories of the Earth System in the Anthropocene. *Proceedings of the National Academy of Sciences*, www.pnas.org/cgi/doi/10.1073/pnas.1810141115.
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47. Bell, C. J., E. L. Lundelius, Jr., **A. D. Barnosky**, R. W. Graham, E. H. Lindsay, D. R. Ruez, Jr., H. A. Semken, Jr., S. D. Webb, and R. J. Zakrzewski.. 2004. The Blancan, Irvingtonian, and Rancholabrean mammal ages: pp. 232-314 in M. O. Woodburne (ed.), *Late Cretaceous and Cenozoic Mammals of North America: Biostratigraphy and Geochronology*. Columbia University Press, New York.
46. Kraatz, B. P. and **A. D. Barnosky**. 2004. Barstovian Ochotonids from Hepburn's Mesa, Park County, Montana with Comments On The Biogeography and phylogeny Of *Oreolagus*. In *Bulletin of the Carnegie Museum of Natural History* 36:121-136.
45. Shabel, A. B., **A. D. Barnosky**, T. Von Leuvan, F. Bibi, and M. H. Kaplan. 2004. Irvingtonian Mammals from the Badger Room in Porcupine Cave: Age, Taphonomy, Climate, and Ecology. Pp. 295-317 in Barnosky, A. D. (ed.) *Biodiversity Response to Climatic Change in the Middle Pleistocene: The Porcupine Cave Fauna from Colorado*. University of California Press: Berkeley.
44. Tedford, R. H., Albright, L. B. III., **Barnosky, A. D.**, Ferrusquia, I. V., Hunt, R. J. Jr., Storer, J., Swisher, C. C. III., Webb, S. D., and Whistler, D. P., 2004. Mammalian biochronology of the Arikareean through Hemphillian interval (late Oligocene through early Pliocene epochs), North America. pp. 169-231 in M. O. Woodburne (ed.), *Late Cretaceous and Cenozoic Mammals of North America: Biostratigraphy and Geochronology*. Columbia University Press, New York.
43. Webb, S. David, Russell Wm. Graham, **Anthony D. Barnosky**, Christopher J. Bell, Richard L. Franz, Elizabeth A. Hadly, Ernest L. Lundelius, Jr., H. Gregory McDonald, Robert A. Martin, Holmes A. Semken Jr., and David

- W. Steadman. 2004. Vertebrate Paleontology. Pp. 519-553, in S. Porter and A. Gillespie, eds., *The North American Quaternary*, Geological Society of America, Boulder.
42. **Barnosky, A. D.** and C. J. Bell. 2003. Evolution, climatic change, and species boundaries: perspectives from tracing *Lemmiscus curtatus* populations through time and space. Proceedings of the Royal Society of London, Biological Sciences 270:2585-2590.
 41. **Barnosky, A.D.** E.A. Hadly, and C. J. Bell. 2003. Mammalian response to global warming on varied temporal scales. *Journal of Mamalogy* 84(2):354-368.
 40. **Barnosky, A.D.** and M.A. Carrasco. 2002 Effects of Oligo-Miocene global climate changes on mammalian species richness in the northwestern quarter of the USA. *Evolutionary Ecology Research* 4:811-841.
 39. **Barnosky, A. D.**, E. A. Hadly, B. A. Maurer, M. I. Christie. 2001. Temperate Terrestrial Vertebrate Faunas in North and South America: Interplay of Ecology, Evolution, and Geography with Biodiversity. *Conservation Biology* 15:658-674.
 38. **Barnosky, A. D.** 2001. Notes on the Miocene biochronology in the Northern U. S. Rocky Mountains. In C. L. Hill, ed., Guidebook for Field Trips, Society of Vertebrate Paleontology 61st Annual Meeting, Mesozoic and Cenozoic Paleontology in the Western Plains and Rocky Mountains, *Museum of the Rockies Occasional Paper* 3:102-104.
 37. **Barnosky, A. D.** 2001. Distinguishing the effects of the Red Queen and Court Jester on Miocene mammal evolution in the northern Rocky Mountains. *Journal of Vertebrate Paleontology* 21:172-185.
 36. Bell, C.J. and **A. D. Barnosky**, 2000. The microtine rodents from the Pit Locality in Porcupine Cave, Park County, Colorado. *Annals of the Carnegie Museum* 69(2):93-134.
 35. **Barnosky, A. D.** 1998. What causes "Disharmonious" Mammal Assemblages?" Pp. 173-186, in J.J. Saunders, B.W. Styles, and G.F. Baryshnikov (Eds.), Quaternary Paleozoology in the Northern Hemisphere, Illinois State Museum Scientific Papers, vol. XXVII, Springfield, IL.
 34. **Barnosky, A. D.**, 1997. Review of Ecology and Evolution, The Pace of Life, by K.D. Bennett. Cambridge University Press, Cambridge, England, 241 pp. ISBN 0 521 39921 1 (paperback), price £16.95 or US\$24.95; and ISBN 0 521 39028 1 (hardback), price £50.00 or US\$69.95. *Historical Biology*, in press.
 33. **Barnosky, A. D.**, T.I. Rouse, E.A. Hadly, D.L. Wood, F.L. Keesing, and V.A. Schmidt. 1996. Comparison of mammalian response to glacial-interglacial transitions in the middle and late Pleistocene. In, *Paleoecology and Paleoenvironments of Late Cenozoic Mammals: Tributes to the Career of C.S. (Rufus) Churcher* (K. Stewart and K. Seymour, eds.), University of Toronto Press, pp. 16-33.
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 31. **Barnosky, A. D.** 1994. Defining climate's role in ecosystem evolution: clues from late Quaternary mammals. *Historical Biology* 8:173-190.
 30. Wood, D.L and **A. D. Barnosky**. 1994. Middle Pleistocene climate change in the Colorado Rocky Mountains Indicated by Fossil Mammals from Porcupine Cave. *Quaternary Research* 41:366-375.

29. FAUNMAP Working Group. 1994. FAUNMAP: A database documenting late Quaternary distributions of mammal species in the United States. (Co-Directors and Principal Authors, R.W. Graham and E.L. Lundelius, Jr.; Compilers M.A. Graham, R.F. Stearley, E.K. Schroeder), *Illinois State Museum Scientific Papers 25, volumes 1*, pages 1-288 plus database disk. . [The FAUNMAP Working Group consists of Russell W. Graham (project leader), Ernest L. Lundelius, Jr. (project leader), Mary Ann Graham, Erich K. Schroeder, Rickard S. Toomey III, Elaine Anderson, **Anthony D. Barnosky**, George T. Jefferson, Larry D. Martin, H. Gregory McDonald, Richard E. Morlan, Holmes A. Semken, Jr., S. David Webb, Lars Werdelin, and Michael C. Wilson]
28. FAUNMAP Working Group. 1994. FAUNMAP: A database documenting late Quaternary distributions of mammal species in the United States. (Co-Directors and Principal Authors, R.W. Graham and E.L. Lundelius, Jr.; Compilers M.A. Graham, R.F. Stearley, E.K. Schroeder), *Illinois State Museum Scientific Papers 25, volumes 2*, pages 289-690. [The FAUNMAP Working Group consists of Russell W. Graham (project leader), Ernest L. Lundelius, Jr. (project leader), Mary Ann Graham, Erich K. Schroeder, Rickard S. Toomey III, Elaine Anderson, **Anthony D. Barnosky**, George T. Jefferson, Larry D. Martin, H. Gregory McDonald, Richard E. Morlan, Holmes A. Semken, Jr., S. David Webb, Lars Werdelin, and Michael C. Wilson]
27. **Barnosky, A. D.** 1993. Review of Mammoths, Mastodonts, and Elephants: Biology, Behavior, and the Fossil Record, by Gary Haynes. *The Quarterly Review of Biology* 68(2):256.
26. Martin, R.A. and **A. D. Barnosky** (Editors). 1993. *Morphological Change in Quaternary Mammals of North America*. Cambridge University Press. 415 pp.
25. Martin, R.A. and **A. D. Barnosky**. 1993. Quaternary mammals and evolutionary theory: introductory remarks and historical perspective. In Martin, R.A. and A.D. Barnosky (eds.), *Morphological Change in Quaternary Mammals of North America*, Cambridge University Press, pp. 1-11.
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23. Rensberger, J.M. and **A. D. Barnosky**. 1993. Short-term fluctuations in small mammals of the late Pleistocene from eastern Washington. In Martin, R.A. and A.D. Barnosky (eds.), *Morphological Change in Quaternary Mammals of North America*, Cambridge University Press, pp. 299-342.
22. Burbank, D.W. and **A. D. Barnosky**. 1990. The magnetochronology of Barstovian mammals in the southwestern Montana and implications for the initiation of Neogene crustal extension in the northern Rockies. *Geological Society of America Bulletin* 102:1093-1104.
21. **Barnosky, A. D.** 1990. Evolution of dental traits since latest Pleistocene in meadow voles (*Microtus pennsylvanicus*) from Virginia. *Paleobiology* 16:370-383.
20. Webb, S.D. and **A. D. Barnosky**. 1989. Faunal dynamics of Pleistocene mammals. *Annual Review of Earth and Planetary Sciences* 17:413-438.
19. **Barnosky, A. D.** 1989. The late Pleistocene event as a paradigm for widespread mammal extinction. In *Mass Extinctions: Processes and Evidence* (S.K. Donovan, ed.) Columbia University Press, New York, p.235-255.
18. **Barnosky, A. D.** and W.J. LaBar. 1989. Mid-Miocene (Barstovian) environmental and volcano-tectonic setting near Yellowstone Park, Wyoming and Montana. *Geological Society of America Bulletin* 101:1448-1456.

17. **Barnosky, A. D.**, C.W. Barnosky, R.J. Nickmann, A.C. Ashworth, D.P. Schwert, and S.W. Lantz. 1988. Late Quaternary paleoecology at the Newton Site, Bradford Co., northeastern Pennsylvania: *Mammuthus columbi*, palynology, and fossil insects. In Pleistocene and Early Holocene Paleoecology and Archaeology of the Eastern Great Lakes Region (R.S. Laub, N.G. Miller, and D.W. Steadman, eds.). *Bulletin of the Buffalo Society of Natural Sciences* 33:173-184.
16. **Barnosky, A. D.** and D.L. Rasmussen. 1988. Middle Pleistocene arvicoline rodents and environmental change at 2900-meters elevation, Porcupine Cave, South Park, Colorado. *Annals of Carnegie Museum* 57:267-292.
15. **Barnosky, A. D.** 1988. Review of "Late Quaternary Mammalian Biogeography and Environments of the Great Plains" by R.A. Graham, H.A. Semken, and M.A. Graham. *Journal of Vertebrate Paleontology* 8:351-352.
14. **Barnosky, A. D.** 1987. Punctuated equilibrium and phyletic gradualism: some facts from the Quaternary mammalian record. In *Current Mammalogy, Volume 1*, (H.H. Genoways, ed.), Plenum Press, New York and London, pp.109-147.
13. **Barnosky, A. D.** 1986. "Big game" extinction caused by climatic change: Irish elk (*Megaloceros giganteus*) in Ireland. *Quaternary Research*, 25(1):128-135.
12. **Barnosky, A. D.** 1986. New species of the Miocene rodent *Cupidinimus* (Heteromyidae) and some evolutionary relationships within the genus. *Journal of Vertebrate Paleontology* 6(1):46-64.
11. **Barnosky, A. D.** 1986. Arikareean, Hemingfordian, and Barstovian mammals from the Colter Formation, Jackson Hole, Wyoming. *Bulletin of the Carnegie Museum of Natural History*, 26:1-69.
10. **Barnosky, A. D.** 1985. Taphonomy and herd structure of the extinct Irish elk (*Megaloceros giganteus*). *Science*, 228:340-344.
9. **Barnosky, A. D.** 1985. Late Blancan (Pliocene) microtine rodents from Jackson Hole, Wyoming: Biostratigraphy and biogeography. *Journal of Vertebrate Paleontology*, 5(3):255-27 1.
8. Rensberger, J.M., **A. D. Barnosky**, and P. Spencer. 1984. Geology and paleontology of a Pleistocene-to-Holocene loess succession, Benton County, Washington. *Archaeological and Historical Services of Eastern Washington University Reports in Archaeology and History* no.100-39.
7. **Barnosky, A. D.** 1984. The Colter Formation: Evidence for Miocene volcanism in Jackson Hole, Wyoming. *Wyoming Geological Association Bulletin of Earth Sciences*, 16:51-100.
6. Martin, J.E., **A. D. Barnosky**, and C.W. Barnosky. 1983. Fauna and flora associated with the West Richland mammoth from the Pleistocene Touchet beds in south-central Washington. *Research Reports of the Burke Memorial Washington State Museum (University of Washington)* no.3:1-61.
5. **Barnosky, A. D.** 1983. Geology and mammalian paleontology of the Miocene Colter Formation, Jackson Hole, Teton County, Wyoming. *University of Washington Doctoral Dissertation (Geological Sciences)*, 332 pp.
4. **Barnosky, A. D.** 1982. Locomotion in moles from the middle Tertiary of North America. *Science*, 216:183-185.
3. **Barnosky, A. D.** 1982. A new species of *Proscalops* (Mammalia, Insectivora) from the Arikareean Deep River Formation, Meagher County, Montana. *Journal of Paleontology*, 56(5):1103-1111.

2. **Barnosky, A. D.** 1982. [Review of] "Evolutionary Relationships of middle Eocene and younger species of *Centetodon* (Mammalia, Insectivora, Geolabidinae) with a description of the dentition of *Ankylodon* (Adapisoricidae)", by J.A. Lillegraven, M.C. McKenna, and L. Krishtalka. *Journal of Vertebrate Paleontology*, 2(2):261-267.
1. **Barnosky, A. D.** 1981. A skeleton of *Mesoscalops* (Mammalia: Insectivora) from the Miocene Deep River Formation, Montana, and a review of the proscalopid moles: Evolutionary, functional, and stratigraphic relationships. *Journal of Vertebrate Paleontology* 1(3-4):285-339.

Electronic Publications

- 2013 **Barnosky, A.D.** and E. A. Hadly. ConsensusForAction, *Maintaining Humanity's Life Support Systems in the 21st Century*. <http://consensusforaction.stanford.edu/>
- 2010 Carrasco, M.A., A. D. Barnosky, and R.W. Graham. Neogene Mammal Mapping Project (NEOMAP), a distributed database linking MIOMAP and FAUNMAP <http://www.ucmp.berkeley.edu/neomap/>
- 2005 Carrasco, M.A., B.P. Kraatz, E.B. Davis, and **A.D. Barnosky**. Miocene Mammal Mapping Project (MIOMAP). University of California Museum of Paleontology <http://www.ucmp.berkeley.edu/miomap/>
- 2001 **Barnosky, A.D.** Paleontology Database Network <http://www.ucmp.berkeley.edu/pdn/index.html>
- 2000 **Barnosky, A.D.** MIOMAP: Miocene Mammal Mapping Project. http://www.ucmp.berkeley.edu/miomap/miomap_home_page.htm
- 1998 **Barnosky, A.D.** Welcome to the Barnosky Lab. <http://ib.berkeley.edu/labs/barnosky/>
- 1997 Scarrah, P, E. Guss, and **A. D. Barnosky**. The Greater Yellowstone Data Clearing House. <http://www.mrc.montana.edu>. (Barnosky's role was conceptual; Scarrah and Guss implemented the page.)
- 1997 **Barnosky, A. D.** (designer and writer; implemented by Bryan Young and Steve Burton). USGS (Biological Resources Division) -Mountain Research Center Collaboration. <http://www.mrc.montana.edu/~wwwmrc/MRC/USGS-BRD/>
- 1996 **Barnosky, A. D.** (designer and writer; implemented by Lou Glassy and Brand Niemann). Biodiversity Yellowpages for the Greater Yellowstone Ecosystem. <http://www.mrc.montana.edu/~csntme/yellowpages/Top.html>
- 1996 **Barnosky, A. D.** (designer and writer; implemented by Lou Glassy). Consortium of the Study of North Temperate Montane Ecosystems. <http://peak.mrc.montana.edu/~csntme/>
- 1995 **Barnosky, A. D.** (designer and writer; implemented by Lou Glassy and Bryan Young). Welcome to the Mountain Research Center. <http://www.mrc.montana.edu>
- 1995 **Barnosky, A. D.** (designer and writer; implemented by Lou Glassy). Workshop Summary, Biodiversity in Montane Ecosystems: Identifying Data Sources and Designing Exchange Protocols. National Science Foundation Sponsored Symposium at Montana State University, Bozeman Montana. <http://peak.mrc.montana.edu/~csntme/biodiversity-workshop.html>

Invited Abstracts, Lectures, Workshops

(Not kept up to date since 2015. Usually about two invited lectures per year at national and international venues.)

- 2015 **A. D. Barnosky**, Pontifical Academy of Sciences Advisory Meeting for Vatican Delegation to COP21, Paris, December 5, 2015.
- 2015 **A. D. Barnosky** and Elizabeth A. Hadly, COP21 Panelist for presentation of the movie Demain, Paris, December 2, 2015.
- 2015 A. D. Barnosky and Elizabeth A. Hadly, Discussants at the premiere of the movie Demain, UGC Theatre, Paris, December 1, 2015.
- 2015 **A. D. Barnosky** and Elizabeth A. Hadly, End Game, Tipping Point for Planet Earth, University of Bristol, November 25, 2015.
- 2015 **A. D. Barnosky**, Dodging Extinction, Saving the Planet, Saving Ourselves. Chautauqua Featured Lecturer, Eastern Kentucky State University, November 5, 2015.
- 2015 **A. D. Barnosky**, Plenary Speaker, Biodiversity and Conservation of the Tropical Andes and The Amazon Rainforest, BIOCON Peru, Lima, Peru, October 15-18, 2015
- 2015 **A. D. Barnosky** and Elizabeth A. Hadly. Keynote Speaker, California Climate Change Symposium, Using Climate Science to Plan for a Resilient Future, August 24-25, Sacramento CA
- 2015 **A. D. Barnosky**, Dodging Extinction, University of California Merced Evening Lecturer, April 14, 2015
- 2015 **A. D. Barnosky**, Dodging Extinction: Power, Food, Money and the Future of Life on Earth. California Academy of Sciences, San Francisco, February 19, 2015
- 2015 **A. D. Barnosky** and Paul Ehrlich, Avoiding Collapse, Symposium Organizers, AAAS Annual Meeting, San Jose, CA, February 13, 2014
- 2015 **A. D. Barnosky**, Fossil Fuels as Drivers of Evolution and Extinction, The Origins Project-Origins of Extinction, the Year of the Anthropocene, Arizona State University, Tempe, Arizona, February 6-7, 2014
- 2015 **A. D. Barnosky**, Dodging Extinction: Power, Food, Money and the Future of Life on Earth. Commonwealth Club, San Francisco, February 4, 2015
- 2015 **A. D. Barnosky**, Dodging Extinction: Power, Food, Money and the Future of Life on Earth. Aquarium of the Pacific, Long Beach, California, January 28, 2015
- 2014 **A. D. Barnosky**, [Dodging Extinction, Lecture 6](#) in HHMI Holiday Lectures, Biodiversity in the Age of Humans, Howard Hughes Medical Institute, Chevy Chase, MD, October 23, 2014
- 2014 **A. D. Barnosky**, [Learning from Past Extinctions, Lecture 1](#) in HHMI Holiday Lectures, Biodiversity in the Age of Humans, Howard Hughes Medical Institute, Chevy Chase, MD, October 23, 2014
- 2014 **A.D. Barnosky**, Panelist, The Next Great Mass Extinction, part of the series Planets and Life: Human and Planetary Perspectives, Massachusetts Institute of Technology, October 20, 2014
- 2014 **A. D. Barnosky**, Dodging Extinction. Plenary Speaker, California Naturalist Conference, Asilomar, CA, October 18, 2014
- 2014 **A. D. Barnosky**, Dodging Extinction: Power, Food, Money and the Future of Life on Earth. University of California Alumni / Homecoming Weekend, October 10, 2014

- 2014 **A. D. Barnosky**, Dodging Extinction: Power, Food, Money and the Future of Life on Earth. Revolution Books, Berkeley, CA, September 25, 2014
- 2014 **A. D. Barnosky**. Maintaining Humanity's Life Support Systems in the 21st Century. Simon Fraser University Continuing Studies in Science and the Environment. March 13, 2014
- 2014 **A. D. Barnosky**. Dodging Extinction, Part 1, the Climate Story. UCMP Short Course, Where Have All the Species Gone? [The Processes and Patterns of Extinction](#), March 1, 2014
- 2014 **A.D. Barnosky**. Megafauna Extinction in the Ultima Esperanza Region near Torres del Paine, Chile. Stanford Travel Study Program, Explora Lodge, Torres del Paine
- 2014 Elizabeth A. Hadly and **A. D. Barnosky**. White House and CNA briefings for Scientific Consensus Statement on Maintaining Humanity's Life Support Systems in the 21st Century
- 2014 Elizabeth A. Hadly and **A.D. Barnosky**. Leopold Leadership Workshop, Interacting with Policy Makers, Washington DC
- 2013 James White and **A.D. Barnosky**. Organizers, AGU Symposium Abrupt Impacts of Climate Change
- 2013 James White, **A. D. Barnosky**, and Richard Alley. Press conference, White House, and Congressional briefings for National Research Council/National Academy of Sciences Report: Abrupt Impacts of Climate Change, Anticipating Surprises
- 2013 **A. D. Barnosky**. Tipping Point for Planet Earth. Commonwealth Club, San Francisco. August 19, 2013
- 2013 **A.D. Barnosky**, How Humans Changed the World, Smithsonian Institution National Museum of Natural History
- 2013 **A.D. Barnosky**, Maintaining Humanity's Life Support Systems in the 21st Century, Scientist's Consensus Statement, presented jointly with Governor Jerry Brown at NASA Ames-Sustainable Silicon Valley WEST Summit 2013
- 2013 **A.D. Barnosky**, Emily Lindsey, Natalia Villavicencio, and Charles Marshall. Chronology of Quaternary Megafaunal Extinction, Climate Change, and Human Occupation in South America. International Mammalogical Congress, Belfast, Ireland
- 2013 **A. D. Barnosky**, Energy Production and the Future of Biodiversity, Precourt Energy Institute, Stanford University
- 2013 **A. D. Barnosky**, Paleontological Evidence for the Anthropocene, University of California at Davis Department of Geological Sciences Seminar
- 2012 **A.D. Barnosky**, Paleontological evidence for defining the Anthropocene. American Geophysical Union
- 2012 **A.D. Barnosky**, Can we avoid the Sixth Mass Extinction? Setting today's extinction crisis in the context of the Big Five, American Geophysical Union
- 2012 **A.D. Barnosky**, Maintaining Humanity's Life Support Systems in the 21st Century: Messages for Policy Makers, University of Oslo
- 2012 **A.D. Barnosky**, Approaching a Tipping Point for Planet Earth, Environmental Earth Systems Science, Stanford University

- 2012 **A.D. Barnosky**, Why Developing Renewable Energy Is Even More Important Than You Think; A Biological Perspective, Woods Institute for the Environment, Stanford University
- 2012 **A.D. Barnosky**, Keynote speaker, Global change and planetary tipping points, North America Congress for the Society for Conservation Biology, to be held July 16-18.
- 2012 **A.D. Barnosky**, Invited participant, USRio+2.0: Bridging Connection Technologies and Sustainable Development. Stanford Graduate School of Business (in collaboration with US State Department)
- 2012 **A.D. Barnosky**, Planetary Tipping Points. Scripps Howard Institute on the Environment, Environmental Writers Series, Florida Atlantic University
- 2012 **A.D. Barnosky**, Are we in the Sixth Mass Extinction and how do we know? Distinguished Lecturer, University of Wyoming Ecology Group
- 2012 **A.D. Barnosky**, Are we in the Sixth Mass Extinction and how do we know? Duke University Department of Geological Sciences
- 2011 **A.D. Barnosky**, Are we in the Sixth Mass Extinction and how do we know? Oregon State University Department of Biology
- 2011 **A.D. Barnosky**, New needs for nature in the Age of Global Warming. Scripps Howard Institute on the Environment Environmental Writers Series, Florida Atlantic University.
- 2011 **A.D. Barnosky**, Environmental Policy in the Age of Global Warming. Wallace Stegner Center for Land, Resources and the Environment, Symposium on Wildlife Conservation in the 21st Century, University of Utah S.J. Quinney College of Law
- 2010 University of Chicago Department of Geological Sciences. **A. D. Barnosky**, Are we in the sixth mass extinction and how do we know?
- 2010 **A.D. Barnosky**, Keynote Speaker, Western Federation of Outdoor Clubs Annual Meeting, Marin, CA
- 2010 A.D. Barnosky, Nature in the Hot Seat, Science@CAL Public Lecture Series
- 2010 Lyell Symposium, International Paleontological Congress, London. **A.D. Barnosky**, M. A. Carrasco, R. W. Graham. Calibrating the 'sixth mass extinction' for mammals.
- 2009 Plenary Speaker: **A. D. Barnosky**. New needs for nature in the age of global warming. 10th International Mammalogical Congress (Mendoza, Argentina), Abstracts with Program, p. 7.
- 2009 Special Lecture: **A. D. Barnosky**. Las nuevas necesidades de la naturaleza en una época de calentamiento global. Sponsored by the Faculty of Philosophy and Humanities, University of Chile, and the United States Embassy, Santiago, Chile
- 2009 Plenary Speaker: **A. D. Barnosky**. Heatstroke: Nature in an Age of Global Warming. Western Association of Fish and Wildlife Agencies, Newport Beach, California
- 2009 Stanford University Department of Biology Seminar Series. **A. D. Barnosky**, Global Warming in the Gang of Four, What's Next for Nature? Stanford, California

- 2009 Harvard University Center for the Environment Green Conversations: A. D. Barnosky. Heatstroke: Nature in an Age of Global Warming. Cambridge, Massachusetts
<http://www.environment.harvard.edu/events/greencon.htm>
- 2009 Yale Peabody Museum, lead speaker for the Yale Sustainability Summit. **A. D. Barnosky.** Heatstroke: Nature in an Age of Global Warming. New Haven, Connecticut.
- 2009 Brown University Environmental Change Initiative: **A. D. Barnosky,** Heatstroke: Nature in an Age of Global Warming. Providence, Rhode Island.
- 2009 Boston Museum of Science, Current Science and Technology Program: **A. D. Barnosky,** Heatstroke: Nature in an Age of Global Warming. Boston, Massachusetts
- 2009 Department of Environmental Science, Policy, and Management Wildlife and Conservation Biology Seminar Series, University of California Berkeley: **A. D. Barnosky.** New needs for nature in the age of global warming. Berkeley, California.
- 2009 Rocky Mountain Land Lecture Series, Tattered Cover Bookstore: **A. D. Barnosky,** Heatstroke: Nature in an Age of Global Warming. Denver, Colorado.
- 2008 **A. D. Barnosky** and M. A. Carrasco. Mining the Fossil Record Through Geoinformatics. Symposium Organizer, 33rd International Geological Congress, Oslo, Norway
- 2008 **A. D. Barnosky** and M. A. Carrasco. Using the fossil record to define natural biodiversity baselines in mammals. Symposium on Mining the Fossil Record Through Geoinformatics. 33rd International Geological Congress, Oslo, Norway
- 2008 E. Lindsey and **A. D. Barnosky.** A database of South American Quaternary mammals for paleoecological analyses. Symposium on Mining the Fossil Record Through Geoinformatics. 33rd International Geological Congress, Oslo, Norway
- 2007 Invited Lecturer: Bing International Program of Stanford University, Santiago, Chile
- 2007 Invited Lecturer: Department of Ecology, Pontificia Católica Universidad, Santiago, Chile
- 2007 Invited Lecturer: Department of Ecology, University of Chile, Santiago Chile
- 2007 Invited Speaker: USA National Academy of Sciences Arthur M. Sackler Colloquium, In the Light of Evolution: Biodiversity and Extinction. (December 7-8, 2007)
- 2007 Invited Keynote Address: Merging databases from paleontology and ecology to address of global change. Open Scientific Meeting of the European Pollen Database. Europôle Méditerranéen de l'Arbois, Aix-en-Provence, France. (8-12 May 2007)
- 2007 Invited Lecture: A Deadly Equation: Global Warming + Humans = Ecological Catastrophe. National Centre for Biological Sciences and Indian Institute of Sciences, Bangalore, India. (February 2007)
- 2007 Invited Lecture: A Deadly Equation: Global Warming + Humans = Ecological Catastrophe. Stanford University Department of Geological Sciences Paleobiology Seminar (April 2007)
- 2005-06 Invited Participant, Workshop. "Evolutionary Hotspots as Conservation Priorities in California". California State Parks and Museum of Vertebrate Zoology, Nov. 17-18, 2005, and Society of Conservation Biology Meeting, June 24, 2006.

- 2005 Invited Keynote Address: at "Evolution and the Environment", A symposium and workshop sponsored by American Institute of Biological Sciences (www.aibs.org), Biological Sciences Curriculum Study (www.bsccs.org), and National Evolutionary Synthesis Center (www.NESCent.org) at National Association of Biology Teachers Annual Meeting, Milwaukee, Wisconsin, Oct. 7. Delivered paper entitled: Climate's Role in Mammalian Evolution
- 2005 Invited Participant, Workshop. Ecological Response to Climate Change: scales of change, scales of observation, 3-4 November 2005, Viikki Campus, Helsinki, Finland. Delivered paper entitled: The problem of scale in detecting mammalian response to climate change in the fossil record
- 2005 Invited Participant, Carnegie Museum Vertebrate Paleontology Symposium. All the World's a Stage for Evolution: A Symposium to Honor the Career of Dr. Mary R. Dawson, Sept. 16-18, 2005, Pittsburgh, PA. Delivered paper entitled: Problems in detecting the response of mammals to climate change in the paleontological record.
- 2005 Invited Participant, Workshop. "Critical Transitions In History of Life" for US and Chinese scientists to be held in Washington, DC in the November 3-4, 2005. Conflicted with climate-change workshop in Finland, sent postdoc M. Carrasco to represent our work.
- 2005 Invited Participant, Symposium. Whole Earth Systems, Integrating Environmental Science, Technology, and Policy, Celebrating Stephen H. Schneider's 60th Birthday, Stanford University, February 10-12, 2005.
- 2004 Invited Keynote Address, CAVEPS and Quaternary Extinctions Symposium, Naracoorte, Australia
- 2004 Invited speaker, International Theriological Congress, Sapporo, Japan (declined)
- 2004 Invited participant, Museum Database Workshop, Illinois State Museum (declined)
- 2003 **Barnosky, A. D.** Effects of Quaternary climatic change on speciation in mammals. Symposium on extinctions and speciation during the Quaternary. Sixteenth International Quaternary Association Congress, Reno, Nevada, July 23-30, 2003.
- 2003 **Barnosky, A. D.** Climatic change, human impacts, and the long-term biodiversity baseline for montane mammals. Symposium Biodiversity: Past, Present, and Future, Proceedings of the American Association for the Advancement of Science, Pacific Division, vol. 22(1):41.
- 2001 **Barnosky, A.D.** and M.A. Carrasco. Do mammalian diversity patterns in the western United States have temporally deep roots? Scientific Program and Abstracts, 8th International Theriological Congress, p. 33.
- 2001 **Barnosky, A.D.** and M.H. Kaplan. Population-level response of *Marmota flaviventris* to a middle Pleistocene climatic warming event in the Colorado RockyMountains. Scientific Program and Abstracts, 8th International Theriological Congress, p. 33.
- 1996 **A. D. Barnosky** and C. J. Bell, What Drives Community Re-Organization? Implications Of Superposed Fauna From Porcupine Cave, Co. 1996 National Speleological Society Convention, Salida, Colorado, August 5, 1996. *Journal of Cave and Karst Studies* 58(3):215.
- 1996 T.I. Rouse and **A. D. Barnosky**. Response To Climate Change In Dental Remains Of Middle Pleistocene *Cynomys* At Porcupine Cave, Colorado. 1996 National Speleological Society Convention, Salida, Colorado, August 5, 1996, Abstracts with Program. *Journal of Cave and Karst Studies* 58(3):215.
- 1996 C.J. Bell **and A. D. Barnosky**. The Microtine Rodents And The Changing Face Of Irvingtonian Microtine Rodent Biochronology. 1996 National Speleological Society Convention, Salida, Colorado, August 5, 1996, Abstracts with Program. *Journal of Cave and Karst Studies* 58(3):217.

- 1996 **A. D. Barnosky** and E.A. Hadly 1996. (Presenter and Panelist) The Role of Earth Sciences in Ecosystem Studies: Examples from Mountain Environments. *1996 Geological Society of America Annual Meeting, Symposium on "Dinosaurs, Asteroids, and Spotted Owls", Abstracts with Program*. pg. A87.
- 1996 **A. D. Barnosky**. (Presenter and Panelist). Greater Yellowstone Ecosystem: Progress in Applying GIS Technology to Resource Sustainability. *Congress on Applications of Geographic Information Systems (GIS) to the Sustainability of Renewable Natural Resources*, Jackson Lake Lodge, Grand Teton National Park, Jackson, WY; sponsored by the Renewable Natural Resources Foundation, Bethesda, Maryland.
- 1996 **Barnosky, A. D.**, E.A. Hadly, and C.J. Bell. Climatic Fluctuations and the Evolution of Mammal Communities. *American Quaternary Association 14th Biennial Meeting, May 20-22, 1996, Program and Abstracts*.
- 1994 **Barnosky, A. D.**, A. Stephan, and A. Caldwell. Effects of mid-Miocene tectonism on the distribution of small mammals across the Basin and Range Province. *Geological Society of America 1994 Annual Meeting, Abstracts with Programs*, p. A-522.
- 1993 **Barnosky, A. D.** Faunal response to glacial-interglacial transitions in the Western United States. *Sixth International Theriological Congress, University of New South Wales, Sydney, Australia, Abstracts with Programs*, p. 14.
- 1993 **Barnosky, A. D.**, V.A. Schmidt, J. Zheng, and R. Nichols. Onset of Miocene crustal extension in southwest Montana, northwest Wyoming, and adjacent Idaho {abs.}. *Geological Society of America Rocky Mountain Section Annual Meeting, Abstracts with Program*, vol. 25(5).
- 1992 **Barnosky, A. D.** Mammalian response to middle Pleistocene glacial-interglacial transitions in the high Rockies of Colorado. *Joint Workshop on [Former] Soviet-American Quaternary Paleozoology, Illinois State Museum, Springfield, Illinois, October 23-27, 1992*.
- 1992 **Barnosky, A. D.** Comparison of middle Pleistocene and late Quaternary mammal faunas and climates in the high Colorado Rocky Mountains: New information from Porcupine Cave (Park Co., CO). {abst.} *Geological Society of America Annual Meeting, Rocky Mountain Section, Symposium on Cave Taphonomy and Stratigraphy, Abstracts with Program*, pg. 2.
- 1989 **Barnosky, A. D.** Morphological response of meadow voles (*Microtus pennsylvanicus*) to late Pleistocene community reorganization. {abs.} *Fifth International Theriological Congress, Rome, Italy, Abstracts of Posters and Papers*, pg. 2.
- 1989 **Barnosky, A. D.** Computerized Image Processing to study evolutionary tempo and mode. *NSF Display, International Geological Congress, Washington, D.C.*
- 1988 **Barnosky, A. D.** and D.W. Burbank. Correlation of Barstovian land-mammal age and magnetostratigraphy in the Yellowstone Valley, S.W. Montana. *Symposium on Neogene Biostratigraphy of the northern Rocky Mountains, Geological Society of America Annual Meeting (Rocky Mountain Section), Sun Valley, Idaho (May 16-18, 1988)*.
- 1988 **Barnosky, A. D.**, W.J. LaBar, and C.W. Barnosky. Paleoenvironmental implications of Barstovian lake deposits, mammal fossils, and pollen from Hepburn's Mesa in the Yellowstone Valley, Park Co. Montana. *Symposium on Neogene Biostratigraphy of the northern Rocky Mountains, Geological Society of America Annual Meeting (Rocky Mountain Section), Sun Valley, Idaho (May 16-18, 1988)*.
- 1986 **Barnosky, A. D.** Evolution of mammals at the Quaternary time-scale. *Symposium on Tempo and Mode in Evolution, Fourth North American Paleontological Convention (August 12-15, 1986)*.

- 1986 **Barnosky, A. D.**, C.W. Barnosky, A.C. Ashworth, and R.J. Nickmann. The Newton mammoth and associated paleoecology from Bradford County, Pennsylvania. *Smith Symposium on Paleoecology of the Northeastern U.S., Buffalo, (N.Y.) Society of Natural Sciences (October 24-25, 1986)*.

Other Abstracts or Presentations at Professional Meetings

(Not kept up since 2016. Generally co-author or lead author one or two a year.)

- 2016 Waters, C.N., Zalasiewicz, J., Barnosky, A.D., Cearreta, A., Edgeworth, M., Fairchild, I.J., Gałuszka, A., Ivar do Sul, J.A., Jeandel, C., Leinfelder, R., Odada, E., Oreskes, N., Price, S.J., Richter, D.deB., Steffen, W., Summerhayes, C., Syvitski, J.P., Wagleich, M., Williams, M., Wing, S., Wolfe, A.P., An, Z., Poirier, C. and Hajdas, I. 2016. Assessing Global Boundary Stratotype Section and Point (GSSP) candidates for the Anthropocene. 35th International Geological Congress, Cape Town, 27th Aug-4th Sept 2016.
- 2016 Zalasiewicz, J., Waters, C.N., An, Z., Barnosky, A.D., Cearreta, A., Edgeworth, M., Ellis, E.C., Fairchild, I.J., Gałuszka, A., Haff, P.K., Ivar do Sul, J.A., Jeandel, C., Leinfelder, R., McNeill, J.R., Odada, E., Oreskes, N., Price, S.J., Richter, D. deB., Steffen, W., Summerhayes, C., Syvitski, J.P., Wagleich, M., Williams, M., Wing, S., Wolfe, A.P. 2016. The Anthropocene: overview of stratigraphical assessment to date. 35th International Geological Congress, Cape Town, 27th Aug-4th Sept 2016.
- 2014 **Barnosky, A.**, Lindsey, E., Villavicencio, N., Marshall, C. Fossil Evidence for Lasting Ecological Transformation as a Result Of Defaunation. Society of Vertebrate Paleontology Annual Meeting, Berlin, Germany, Program and Abstracts pg. 85.
- 2013 **A.D. Barnosky**, Emily Lindsey, Natalia Villavicencio, and Charles Marshall. Establishing the chronology of Quaternary megafaunal extinction in South America. Society of Vertebrate Paleontology Annual Meeting
- 2012 **A. D. Barnosky** et al., Prelude to the Anthropocene: Two Newly-Defined North American Land-Mammal Ages Society of Vertebrate Paleontology Annual Meeting
- 2012 A.D. Barnosky, "Defining The Anthropocene: A Paleontological And Biogeographical Perspective" International Biogeography Society
- 2010 **Barnosky, A.D.** Nicholas Matzke, Susumu Tomiya, Emily Lindsey, Guin Wogan. How present extinction rates compare with mass extinction rates: insights from mammals. Journal of Vertebrate Paleontology 30, Society of Vertebrate Paleontology Program and Abstracts Volume:57A.
- 2009 **Barnosky, A. D.** and E. A. Hadly. The path to the future: paleontology meets conservation biology. Journal of Vertebrate Paleontology 29 (Supp. 3):58A.
- 2009 Lindsey, E., Carrasco, M., **Barnosky, A.**, Graham, R. 2009. Reassessing faunal dynamics during the Great American Biotic Interchange using updated data and adjustments for sampling biases Journal of Vertebrate Paleontology 29 (Supp. 3):135A.
- *2009 Lindsey, E. L. and **A. D. Barnosky**. 2009. Intra- and inter-continental patterns of extinction among South American Pleistocene mammals. *International Biogeography Society*. Merida, Mexico.
- 2009 Lindsey, E. L., and **A. D. Barnosky**. Late-Quaternary Extinctions of South American megamammals in relation to human dispersal and climate change. 10th International Mammalogical Congress (Mendoza, Argentina), Abstracts with Program, p. 343.
- 2008 **Barnosky, A. D.** Quaternary extinctions and the global tradeoff in megafauna biomass. Journal of Vertebrate Paleontology 28 (Supp. 3):48A.

- 2008 Lindsey, E. and **A. D. Barnosky, A.** Timing of extinctions among late-Pleistocene megamammal taxa in South America. *Journal of Vertebrate Paleontology* 28 (Supp. 3):106A.
- 2008 Carrasco, M. and **Barnosky, A. D.** Assessing the human impact on mammalian species diversity during the end-Pleistocene extinction: clues from the last 30 million years. *Journal of Vertebrate Paleontology* 28 (Supp. 3):61A.
- 2008 Blois, J., Hadly, E., McGuire, J. and **Barnosky, A. D.** Small mammal response to the Pleistocene-Holocene transition in northern California. *Journal of Vertebrate Paleontology* 28 (Supp. 3):53A.
- 2008 McGuire, J., Blois, J., Tomiya, S., Sherrod, B. and **Barnosky, A. D.** Quantifying the extent of time-averaging introduced by rodent bioturbation in mammal-bearing cenozoic sediments. *Journal of Vertebrate Paleontology* 28 (Supp. 3):115A.
- 2007 McGuire, J.L., **Barnosky, A.D.**, and Carrasco, M. Species-area curves & morphoclimate models as tools in forecasting effects of climate change on vertebrate communities. 17th Quadrennial Congress, International Union for Quaternary Research, Cairns, Queensland, AU. August 2, 2007.
- 2006 Barnosky, A. D. The role of paleontology in forecasting future ecological change.. *Journal of Vertebrate Paleontology* 26 (supp. 3):39A-40A.
- 2005 **Barnosky, A. D.**, M. Carrasco, E. Davis, and Y. Tausczik. Removing the species-area effect from paleodiversity estimates. *Journal of Vertebrate Paleontology* 25 (supp. 3).
- 2005 **Barnosky, A. D.** A cross-disciplinary view of late Pleistocene megafaunal extinctions on the continents. 10th Conference on Australasian Vertebrate Evolution, Palaeontology and Systematics and Quaternary Extinctions Symposium, Abstracts with Program, Naracoorte Caves National Park, p. 12.
- 2004 Carrasco, M. A.; **A. D. Barnosky**, E. B. Davis and Kraatz, B. P. Kraatz. Miocene mammal mapping project (MIOMAP): an online relational and spatial database of Miocene and late Oligocene fossil mammals. *Geological Society of America Abstracts with Programs* 36(5): 364.
- 2004 **Barnosky, A. D.**, E. B. Davis, and M. A. Carrasco. Tectonic activity, the species-area curve, and species richness of mammals in the Miocene of the Great Basin, USA. *Conference Proceedings of the 32nd International Geological Congress, Florence, Italy. Scientific Sessions: abstracts (part 1) :161.*
- 2004 Carrasco, M. A., **A. D. Barnosky**, A. D., E. B. Davis., and B. P. Kraatz. MIOMAP Revisited: a relational and spatial database of fossil mammals (Arikareean through Hemphillian) on the world wide web. *Journal of Vertebrate Paleontology*, 24(3 supp.): 44A.
- 2004 Davis, E. B., **A. D. Barnosky**, and M. A. Carrasco. Effects of tectonic activity on beta diversity of mammals in the Miocene of the Basin and Range Province, western USA. *Journal of Vertebrate Paleontology*, 24(3 supp.): 50A.
- 2003 **Barnosky, A. D.** A balanced look at Pleistocene extinctions. *Journal of Vertebrate Paleontology* 23(Supplement to no. 3):32.
- 2002 **Barnosky, A.D.** Mammalian biodiversity response to middle Pleistocene climate change at Porcupine Cave Pit Locality, Colorado. *Journal of Vertebrate Paleontology* 22(Supplement to no. 3):34A.

- 2002 Shabel, Alan B, Faysal Bibi, and **Anthony Barnosky**. The Badger Room fauna from Porcupine Cave, South Park, Colorado: structural similarity between Middle Pleistocene and modern mammal communities. *Journal of Vertebrate Paleontology* 22: 106A.
- 2001 **Barnosky, A.D.** and M.A. Carrasco. Assessment of mammalian species richness in the northern Great Plains, northern Rocky Mountains, and Pacific Northwest during the early Arikareean. *Journal of Vertebrate Paleontology* 21(Supplement to no. 3):31A.
- 2001 **Barnosky, A.D.** and M.A. Carrasco. MIOMAP: A relational and spatial database for research on evolution, ecology, and biogeography of Miocene mammals. *PaleoBios* 21(Supplement to no. 2):28-29.
- 2000 **Barnosky, A. D.** and M.A. Carrasco. MIOMAP: A GIS-linked database for assessing the effects of environmental perturbations on mammal evolution and biogeography. *Journal of Vertebrate Paleontology* (Supplement to no. 4. (in press).
- 2000 Carrasco, M.A. and **A. D. Barnosky**. MIOMAP: A GIS-linked database to assess the effects of tectonic and climatic changes on mammalian evolution. *Geological Society of America Annual Meeting* (in review).
- 1999 **Barnosky, A. D.** Does Evolution Dance To The Red Queen Or The Court Jester? *Journal of Vertebrate Paleontology* 19(Supplement to no. 3) 31A.
- 1998 **Barnosky, A. D.** Age of the Mid-Tertiary Unconformity in the western Rocky Mountains and Miocene biogeography. *Journal of Vertebrate Paleontology* 18(Supplement to no. 3):26A.
- 1998 **Barnosky, A. D.** and E.H. Hadly. Effects of global climate change on mammalian communities: A prehistoric perspective. *Yellowstone Science Special Supplement* 6(2):26, Making a Place For Nature, Seeking Our Place in Nature, 125th Anniversary Symposium for Yellowstone National Park, May 11-23, 1998, Bozeman, MT.
- 1998 **Barnosky, A. D.** and A. V. Kociolek. The role of climate in limiting the biogeographic ranges of small mammals. *Yellowstone Science Special Supplement* 6(2):26, Making a Place For Nature, Seeking Our Place in Nature, 125th Anniversary Symposium for Yellowstone National Park, May 11-23, 1998, Bozeman, MT.
- 1998 **Barnosky, A. D.**, E. A. Hadly, B. A. Maurer, and M. I. Christie. Historical constraints on temperate terrestrial vertebrate biodiversity in North and South America. *American Quaternary Association Biennial Meeting*, Puerto Vallarta, Mexico, September 3-6, 1998.
- 1998 Hadly, E. A., **A. D. Barnosky**, B. A. Maurer, and M. I. Christie. Ecological and evolutionary factors influencing biological diversity: A comparison of temperate terrestrial vertebrate faunas in North and South America (abstract). *Ecological Society of America*, Baltimore, MD.
- 1998 Hadly, E.A., **A. D. Barnosky**, B.A. Maurer, and M.I. Christie. Generation and maintenance of temperate terrestrial vertebrate biodiversity in North and South America. *Yellowstone Science Special Supplement* 6(2):35, Making a Place For Nature, Seeking Our Place in Nature, 125th Anniversary Symposium for Yellowstone National Park, May 11-23, 1998, Bozeman, MT.
- 1997 Kociolek, A.V. and **A. D. Barnosky**. Effects of climate on ground squirrel species distribution: a GIS approach. *Society for Conservation Biology Annual Meeting*, Victoria, British Columbia.
- 1997 Scarrah, P., E. Guss, and **Anthony D. Barnosky**. Development of the Greater Yellowstone Area Data Clearinghouse (GYADC). *1997 GIS Montana/Idaho Conference*. Bozeman, MT April 28-30, 1997.
- 1996 **Barnosky, A. D.** The Mountain Research Center. *Montana NSF EPSCoR Annual Meeting, The Future of Science in Rural America, Flathead Lake, Montana, May 30-31, 1996*. Poster Presentation.

- 1996 **Barnosky, A. D.** and Angela V. Kociolek. Effects of Climate on Mammalian Species Distribution. *Montana NSF EPSCoR Annual Meeting, The Future of Science in Rural America, Flathead Lake, Montana, May 30-31, 1996*. Poster Presentation.
- 1994 **Barnosky, A. D.** and C.J. Bell. Evolutionary relationships and implications of Irvingtonian arvicoline rodents from Porcupine Cave, Colorado. *Journal of Vertebrate Paleontology* 14(3):16A.
- 1994 Zheng, Jianguo, V.A. Schmidt, **A. D. Barnosky**, and W. Harbert. Magnetostratigraphy of a middle Miocene sedimentary sequence in Railroad Canyon, Idaho. *Geological Society of America Annual Meeting, North-Central Region*, Baltimore.
- 1993 **Barnosky, A. D.** and E.A. Barnosky. Phylogeography of Miocene insectivores from intermontane basins of the northern Rocky Mountains. *Journal of Vertebrate Paleontology* 13(Supplement to 3): 25A.
- 1992 **Barnosky, A. D.** Testing the effects of seasonality on mammalian community composition with a mid-Pleistocene fossil sequence in the Colorado Rockies {abs.}. *Supplement to the Bulletin of the Ecological Society of America* 73(2):103-104.
- 1992 **Barnosky, A. D.** and D.W. Wood. Climatic conditions during Oxygen-isotope Stages 12 and 11 at high elevations (2900 m) in Park Co., Colorado. {abs.} *American Quaternary Association 12th Biennial Meeting Program and Abstracts*: 33.
- 1990 **Barnosky, A. D.** and Hu, Chang-kang. Genetic bottlenecks in Pere David's deer. Society of Vertebrate Paleontology 50th Annual Meeting, Abstracts of Papers, *Journal of Vertebrate Paleontology* 10:14A.
- 1989 **Barnosky, A. D.** Chronology and environment of Barstovian mammals in the northern Rockies, Montana/Wyoming. Society of Vertebrate Paleontology 49th Annual Meeting, Abstracts of Papers, *Journal of Vertebrate Paleontology* 9:12A.
- 1988 **Barnosky, A. D.** Computerized Image Processing to identify geographic and temporal dental variation in *Microtus pennsylvanicus*. *American Quaternary Association 1988 Biennial Meeting*.
- 1988 Hu Chang-kang, **A. D. Barnosky**, and C.W. Barnosky. Fossil history of Pere David's deer in the People's Republic of China. {abs.} *Symposium on Asian Pacific Mammalogy*, Beijing, July 1988.
- 1988 **Barnosky, A. D.** Digitized images sort geographic from temporal dental variation in *Microtus pennsylvanicus*. Society of Vertebrate Paleontology 48th Annual Meeting, Abstracts of Papers, *Journal of Vertebrate Paleontology* 8:8A.
- 1987 **Barnosky, A. D.** Taphonomy, paleoecology and extinction of Irish elk (*Megaloceros giganteus*). *XII International Congress of the International Union for Quaternary Research (Ottawa, Canada)*.
- 1987 **Barnosky, A. D.** and D.L. Rasmussen. Latest Irvingtonian mammals from a high-altitude cave in southwestern South Park, Colorado. Society of Vertebrate Paleontology 47th Annual Meeting, Abstracts of Papers, *Journal of Vertebrate Paleontology* 7 (Supplement to no. 3):IOA.
- 1986 **Barnosky, A. D.** Tempos and modes of mammalian evolution at the Quaternary time scale. *Society of Vertebrate Paleontology 46th Annual Meeting (Philadelphia, Pennsylvania)*.
- 1985 **Barnosky, A. D.**, and A. D. McCrady. Paleontological excavations at Trout Cave, Pendleton Co., West Virginia. *National Speleological Society Convention (1985)*, Frankfort, Kentucky.

- 1985 Spencer, P.K., and **A. D. Barnosky**. Taphonomy of a Pleistocene vertebrate assemblage. *Geological Society of America Abstracts with Programs*, 17(7):723.
- 1985 **Barnosky, A. D.** Late Blancan microtine rodents from Jackson Hole, Wyoming-biostratigraphy and biogeography. *Society of Vertebrate Paleontology 45th Annual Meeting (Rapid City, South Dakota)*.
- 1984 **Barnosky, A. D.** Herd structure, big antlers, and death of Irish elk (*Megaloceros giganteus*). *Society of Vertebrate Paleontology 44th Annual Meeting (Berkeley California)*.
- 1983 **Barnosky, A. D.** The Colter Formation: Evidence for Miocene volcanism in Jackson Hole, Wyoming. *Geological Society of America Abstracts with Programs*, 15(5):332.
- 1983 **Barnosky, A. D.** Biostratigraphic and biogeographic implications of Arikareean, Hemingfordian, and Barstovian mammals from the Colter Formation, Jackson Hole, Wyoming. *Society of Vertebrate Paleontology 43rd Annual Meeting (Laramie, Wyoming)*.
- 1981 **Barnosky, A. D.** Functional morphology of a new family of insectivores: the proscalopid moles. *Society of Vertebrate Paleontology 41st Annual Meeting (Ann Arbor, Michigan)*.
- 1981 **Barnosky, A. D.** Geology and mammalian paleontology of Neogene strata in Jackson Hole, Wyoming. *University of Wyoming--National Park Service Research Center Fifth Annual Report*:3 pp.
- 1980 **Barnosky, A. D.** Biostratigraphic and biogeographic implications of Miocene mammals from Jackson Hole, Wyoming. *University of Wyoming--National Park Service Research Center Fourth Annual Report*:24-27.

Administrative Reports

- 1997 **Barnosky, A. D.** Montana State University Mountain Research Center: Progress Report and Endowment Prospectus. Published by *Montana State University Mountain Research Center*.
- 1997 **Barnosky, A. D.** Results of a Faculty and Student Survey Regarding the Performance of the Mountain Research Center. Published by *Montana State University Mountain Research Center*.
- 1996 **Barnosky, A. D.** Mountain Research Center Promotional Brochure. Published by *Montana State University Mountain Research Center*.
- 1996 **Barnosky, A. D.** Mountain Research Center Informational Brochure. Published by *Montana State University Mountain Research Center*.
- 1996 **Barnosky, A. D.** Mountain Research Center Recruitment Poster. Published by *Montana State University Mountain Research Center*.
- 1995 **Barnosky, A. D.** A Four-Year Plan for Developing the Mountain Research Center at Montana State University from July 1, 1994 to June 30, 1998. MRC, Bozeman. Published by *Montana State University Mountain Research Center*.

Student Mentoring Activities

Postdoctoral Researchers

- 2014-2016 Dr. Emily Lindsey. Calibrating South American Mammal Extinctions
- 1999-2010 Dr. Marc Carrasco. Effects of environmental change on evolution and biogeography of mammals.
- 1996-1997 Dr. Wendy Roberts (1995-1997): Biodiversity Patterns in Mountainous Environments. Mountain Research Center, Montana State University. (Promoted to Assistant Research Professor of Biology at Montana State University in 1997)

Graduate Students

Matriculated Doctoral Students (Barnosky as Major Advisor)

- 2015 *Allison Stegner* Spatial and Temporal Variation in Mammalian Diversity of the Colorado Plateau (USA). University of California at Berkeley Department of Integrative Biology. (Postdoctoral Fellowship, University of Wisconsin, Madison)
- 2013 *Kaitlin Maguire* Understanding the paleoecology and niche dynamics of mammals in the Mascall Fauna (Middle Miocene), Oregon. (Postdoctoral Fellowship, University of California Merced, from there a research position with the U.S. Geological Survey in Boise, Idaho)
- 2013 *Emily Lindsey* Taphonomy and paleoecology of asphaltic Pleistocene Vertebrate Deposits of the Western Neotropics (Fulbright Postdoctoral Fellowship, Museo Nacional de Historia Natural, Montevideo, Uruguay, tenure-track Curator at Los Angeles County Museum of Natural History)
- 2013 *Susumu Tomiya* Ecological Aspects of the Diversity Dynamics of North American Fossil Mammals (Postdoctoral position at Chicago Field Museum of Natural History)
- 2010 Jenny McGuire, "The effects of Quaternary environmental changes on *Microtus* distribution and morphology (Postdoctoral Fellow, National Evolutionary Synthesis Center, then University of Washington, then faculty position at Georgia Tech University)
- 2009 *Alan B. Shabel* "Ecology of the robust australopithecines: Testing the wetland model with dental microwear and isotope analysis" (Lecturer at University of California, Berkeley)
- 2008 *Nicholas D. Pyenson*. Understanding the paleoecology and evolution of cetaceans in the Eastern North Pacific Ocean during the Neogene. (Curator, Smithsonian Institution National Museum of Natural History after Postdoctoral Fellowship at University of British Columbia; declined NSF Postdoctoral Dissertation at University of Washington)
- 2007 *Brian P. Kraatz*. The Origin and Evolution of Lagomorphs in the Paleogene of Asia. (Tenure track Assistant Professor at Western University of Health Sciences after Postdoctoral Fellowship at American Museum of Natural History)
- 2005 *Samantha S. B. Hopkins*. Evolutionary History and Paleoecology of Aplodontoid Rodents. (2-year postdoctoral fellowship at National Evolutionary Synthesis Center; then Assistant Professor, Department of Geological Sciences, University of Oregon Honors College)
- 2005 *Edward B. Davis*. External Forcing and Mammalian Macroevolution. (Postdoctoral Fellowship at Museum of Vertebrate Zoology; then Curator, University of Oregon Museum of Paleontology)
- 2004 *Robert S. Feranec*. Ecological consequences of the evolution of key adaptations, and niche partitioning in C-3 dominated environments. (Postdoctoral Fellow at Stanford University Department of Biological Sciences; hired as Curator of Quaternary Vertebrate Paleontology at New York State Museum)
- 1997 *Christopher J. Bell*. Microtine rodent evolution and biochronology. University of California at Berkeley Department of Integrative Biology. (Hired as Assistant Professor of Geology, University of Texas at Austin)
- 1997 *Tina I. Rouse*. Climate change and morphological evolution of Pleistocene *Cynomys*. University of California at Berkeley Department of Integrative Biology. (Hired as American Association for Advancement of Science Fellow at U.S. Agency for International Development)

Doctoral Dissertations in Progress (Barnosky as Major Advisor)

Natalia Villavicencio, University of California at Berkeley Department of Integrative Biology
Nicholas Spano, University of California at Berkeley Department of Integrative Biology
Zixiang Zhang, University of California at Berkeley Department of Integrative Biology
Eric Holt, University of California at Berkeley Department of Integrative Biology

Doctoral Dissertations (Barnosky as Doctoral Committee Member)

- 2013 *Nick Matzke*, Department of Integrative Biology, University of California at Berkeley
- 2013 *Katie Brakora*, Department of Integrative Biology, University of California at Berkeley
- 2013 *Lorraine Cassaza*, Department of Integrative Biology, University of California at Berkeley
- 2013 Jack Sculley, Department of Integrative Biology, University of California at Berkeley
- 2012 *Lorraine Cassaza*, Symbiosis in the Fossil Record: Eocene Nummulites and Pleistocene Reefs of Egypt
- 2011 *Brian Swartz*, Paleocology and evolution of stem tetrapods
- 2009 *Jessica Blois*, Ecological responses to paleoclimatic change: insights from mammalian populations, species, and communities. Department of Biological Sciences, Stanford University
- 2008 *Randy Irmis*, Early evolution and biogeography of dinosaurs. Department of Integrative Biology, University of California at Berkeley
- 2004 *Greg Wilson*. Mammal response at the K-T boundary. Department of Integrative Biology, University of California at Berkeley
- 2000 *Rob Guralnick*. Department of Integrative Biology, University of California at Berkeley (Barnosky Committee Member from 1992-1996)
- 1999 *Anne Weil* 1999. Multituberculate phylogeny and mammalian biogeography in the late Cretaceous and earliest Paleocene western Interior of North America. Department of Integrative Biology, University of California at Berkeley
- 1998 *Paul Barber* Phylogeography and Gene Flow in the Canyon Tree Frog, *Hyla arenicolor*. Department of Integrative Biology, University of California at Berkeley (Barnosky Committee Member from 1992-1996)
- 1996 *Jessica Theodor*. Functional morphology and Phylogenetic Relationships of Paleogene Artiodactyls. University of California at Berkeley Department of Integrative Biology
- 1995 *Maria DeSilva*. Systematics and Phylogeography of Amazonian spiny rats of the genus *Proechimys* (Rodentia: Echimyidae). University of California at Berkeley Department of Integrative Biology
- 1995 *Michael Moore*. Proxy records of the Indonesian Low and the El Nino-Southern Oscillation (ENSO) from stable isotope measurements of Indonesian reef corals. University of California at Berkeley Department of Integrative Biology
- 1994 *Robert G. Dundas*. The Demise of the Late Pleistocene Dire Wolf (*Canis dirus*): A Model for Assessing Carnivore Extinctions. University of California at Berkeley Department of Paleontology

- 1994 *Marcia Campos Lara*. Systematics and Phylogeography of the spiny rat genus *Trinomys* (Rodentia: Echimyidae). University of California at Berkeley Department of Integrative Biology
- 1992 *Daniel Garcia*. Fossil mammals from the Pipestone Creeks Region, Late Eocene and Oligocene (Chadronian and Orellan), Jefferson County, Montana. University of California Department of Paleontology

Masters Theses (Barnosky as Major Advisor)

- 1997 *Angela V. Kociolek*. Effects of climate on ground squirrel species distribution. Montana State University Department of Biological Sciences. (Accepted into Peace Corps)
- 1989 *Richard A. Souza*. Skull and dental morphology of *Pleurolicus* (Rodentia, Geomyidae) and a new species, *Pleurolicus rensbergeri*, from the Cabbage Patch beds, Tavenner Ranch, Montana. University of Pittsburgh Department of Geological Sciences. (Hired as Curator of Mineralogy at Carnegie Museum of Natural History)

Masters Theses (Barnosky as Masters Committee Member)

- 1997 *David C. Adams*. Miocene calc-alkaline volcanism in southern Jackson Hole, Wyoming: Evidence of Subduction-Related Volcanism. Montana State University Department of Earth Sciences
- 1997 *Ernest J. Luikart*. Syn- and post-Laramide geology of the south-central Gravelly Range, southwestern Montana. Montana State University Department of Earth Sciences
- 1991 *Kurt S. Pfaff*. An Irvingtonian mammalian fauna from Trout Cave no. 2., Pendleton County, West Virginia. University of Minnesota Department of Geological Sciences

Doctoral Degrees in Progress (Barnosky as Committee Member)

Lucy Chang, Department of Integrative Biology, University of California at Berkeley

Renske Kirchohlt, Department of Integrative Biology, University of California at Berkeley

Cheryl Hojnowski, Department of Environmental Science, Policy, and Management, University of California at Berkeley

Felix Ratcliff, Department of Environmental Science, Policy, and Management, University of California at Berkeley

Winnie Hsiung, Department of Integrative Biology, University of California at Berkeley

Undergraduate Students

Honors Theses on which Barnosky was the Major Advisor

2011-2012 *Daniel Lopez*, Merging fossil and modern biodiversity data

2006-07 Cheng (Lily) Li, Climatic effects on *Ochotona princeps* as manifested in morphology

2005-06 Ginevra Ryman, Effects of global warming on elevational distributions of mammals

2004-05 Yla Tausczik, Mammalian diversity through time

2003-04 Jack Tseng Miocene geomyid rodents from Split Rock, Wyoming

- 2000 Matthew Kaplan Evolutionary Response of marmots to middle Pleistocene climate change at Porcupine Cave, Colorado. (Kaplan went on for a masters degree in scientific writing from University of London)
- 1993 Marc Carrasco. Variation And Its Implications in a Population of *Cupidinimus* from Hepburn's Mesa. (Paper later published in Journal of Vertebrate Paleontology). University of California at Berkeley Department of Integrative Biology Undergraduate Honors Thesis. (Carrasco went on for a Ph.D. in paleontology at Columbia University)
- 1992 David Wood. Microtine Rodents and Climatic Change at Porcupine Cave, Colorado. University of California at Berkeley Department of Integrative Biology Undergraduate Honors Thesis. (Paper later published with A.D. Barnosky in Quaternary Research, 1994). (Wood went on to medical school at UCSD)

Independent Study Projects on which Barnosky was the Advisor

- 2006-07 Russ Dedon, Jeannie Bailey, Rika Setsuda, Ashley Lipps* Kelley Hale, Seth Lerner, Paleocology of the Quaternary Pacheco, California site
- 2004-06 Kimberly Rhoten, California Pleistocene mammals
- 2001-02 Faysal Bibi. Biostratigraphy of Railroad Canyon, Idaho-Montana. (Bibi went on to graduate school at Yale)
- 2000 Tonya Van Leuvan, Alan Shabel, Patrick Smith, Matthew Kaplan. Paleocology and taphonomy of the middle Pleistocene Badger Room fauna, Porcupine Cave, Colorado. (Van Leuvan went on to graduate school in paleoanthropology at Arizona State University; Shabel to graduate school in my lab; Smith to Air Force flight training; Kaplan to graduate school at University of London.)
- 1994 Audrey Stephan. Sciurids from the Hepburn's Mesa Formation, Montana. Independent Study Project. (Stephan went on for a graduate degree in public health from the University of Arizona).
- 1994 Angela Caldwell. Lagomorphs from the Hepburn's Mesa Formation, Montana. Independent Study Project.
- 1993 Renee Garcia. Rodents from Porcupine Cave, Colorado. Independent Study Project.
- 1992 Robert Guralnick. Database and Computer Systems in Paleontology. Independent Study Project.

Honors and Awards to Students in the Barnosky Lab

- 2011, Allison Stegner, NSF Predoctoral Fellowship.
- 2011, Allison Stegner, Desert Legacy Fund Grant
- 2011 Daniel Lopez, Biology Fellows Program Scholar, McNair Fellow
- 2010 Kaitlin Maguire, National Park Service George Mendelez Wright Climate Change Fellowship
- 2010 Kaitlin Maguire, Society of Vertebrate Paleontology Patterson Award
- 2010 Kaitlin Maguire, Evolving Earth Foundation Fellowship
- 2010 Emily Lindsey, Evolving Earth Foundation Fellowship
- 2009-2012 Emily Lindsey, NSF Predoctoral Fellowship
- 2009 Susumu Tomiya, Outstanding Graduate Student Teaching Award
- 2009 Jenny McGuire, Louderback Award
- 2008 Jenny McGuire Gray Endowment Summer Research Fellowship
- 2008-9 Jenny McGuire National Science Foundation GK-12 Graduate Fellow
- 2008 Jenny McGuire National Sigma Xi Grant
- 2007 Jenny McGuire Berkeley Sigma Xi Grant
- 2007 Jenny McGuire Teaching Effectiveness Award
- 2007 Jenny McGuire Outstanding Graduate Student Instructor Award
- 2007 Jenny McGuire UCMP Graduate Student Research Award
- 2007 Cheng (Lily) Li: Nathan and Violet David Scholar, Le Conte Award
- 2007 Brian Kraatz, AMNH Postdoctoral Fellowship
- 2006-2007 Jenny McGuire, NSF GK-12 Fellowship
- 2004-2007 Nick Pyenson: NSF Predoctoral Fellowship; NSF East Asian Summer Institute Fellowship, Louderback Award

2006 Edward Davis, Louderback Award
2006 Edward Davis, UC MVZ Postdoctoral Fellowship
2006 Samantha Hopkins, National Evolutionary Synthesis Center Postdoctoral Fellowship
2005-06 Brian Kraatz, Evolving Earth Foundation Fellowship, GK-12 Fellowship, UCMP Alexander Fellowship
2005-06 Alan Shabel, Wenner-Gren Foundation Grant, UC MVZ Alexander Fellowship
2005 Jack Tseng, LeConte Award; IB Commencement Speaker, Accepted into Ph.D. program at USC (paleontology)
2005 Edward Davis, Louderback Award
2004 Samantha Hopkins, NSF Doctoral Dissertation Improvement Grant, Outstanding GSI
2003 Bob Feranec, NSF Doctoral Dissertation Improvement Grant; MVZ Annie Alexander Fellowship
2003 Faysal Bibi, Accepted into Yale Ph. D. program
2001 Edward Davis, NSF Predoctoral Fellowship
2001 Alan Shabel, NSF Predoctoral Fellowship Honorable Mention
2001 Bob Feranec, Paleobiological Fund Award; Sigma Xi Grant-In-Aid of Research; American Museum of Natural History Theodore Roosevelt Memorial Fund Grant
2000 Marc Carrasco, NSF Postdoctoral Minority Fellowship in Biological Sciences
1999 Bob Feranec, NSF Predoctoral Fellowship Honorable Mention
1999 Samantha Hopkins, NSF Predoctoral Fellowship
1996 Chris Bell. Dr. Frank Elmer Peabody Memorial Fellowship.
1995 Chris Bell. Regents Fellowship in Integrative Biology. UC Museum of Paleontology Samuel P. Welles and Dorothy Hampton Welles Award. Annie M. Alexander Museum of Paleontology Scholarship.
1994 Tina Rouse. American Association for the Advancement of Science Congressional Fellowship.
1993 Robert Guralnick. Accepted into UC Berkeley Department of Integrative Biology Ph.D. program with National Science Foundation Undergraduate Fellowship
1993 Renee Garcia. UC Museum of Paleontology Undergraduate Minority Award
1993 Marc Carrasco. Museum of Paleontology Minority Undergraduate Award. Accepted into Columbia University Ph.D. program National Science Foundation Undergraduate Fellowship.
1992 David Wood. UC Museum of Paleontology Outstanding Senior Award.
1992 Paul Barber. UC Museum of Paleontology Sam Welles Award.