

March 20, 2014

## **Curriculum Vitae Maureen E. Raymo**

Lamont Research Professor, Lamont Doherty Earth Observatory  
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### **EDUCATION**

- 1989, Ph.D. Geology, Columbia University, New York, NY
- 1988, M. Phil. Geology, Columbia University, New York, NY
- 1985, M.A. Geology, Columbia University, New York, NY
- 1982, Sc.B. Geology, Brown University, Providence, RI

### **PROFESSIONAL EXPERIENCE**

- Lamont-Doherty Earth Observatory, Lamont Research Professor, 2011-present
- Lamont-Doherty Earth Observatory, Director, Lamont-Doherty Core Repository, 2011-present
- Boston University, Research Professor, Dept. of Earth Sciences, 2003-2011
- Boston University, Research Associate Professor, Dept. of Earth Sciences, 2000-2003
- Woods Hole Oceanographic Institute, Adjunct Scientist, 2001-2007
- MIT, Associate Professor, Dept. Earth, Atmospheric, and Planetary Sciences, 1997-2000
- MIT, Assistant Professor, Dept. Earth, Atmospheric, and Planetary Sciences, 1992-1997
- University of California, Berkeley, Assistant Professor, Dept. Geology and Geophysics, 1991-1992
- Lamont-Doherty Geological Observatory, Adjunct Associate Research Scientist, 1989-1994
- University of Melbourne, Australia, Associate Scientist, Geology Dept., 1989-1990
- Columbia University, Graduate Research Assistant, LDGO and Dept. of Geology, 1983-1989
- Lamont-Doherty Geological Observatory, Research Assistant, 1982-1983
- Brown University, Undergraduate Research Assistant, Geology Department, 1979-1982

### **AWARDS & HONORS**

- Wollaston Medal of the Geological Society of London, 2014
- Milutin Milankovic Medal of the European Geosciences Union, 2014
- Montefeltro Medal of the Urbino Summer School in Paleoclimatology, 2012
- Fulbright-Nehru Fellowship, India, 2011-2012
- Fellow, American Geophysical Union, elected 2011
- Fellow, American Association Advancement of Science, elected 2007
- John Simon Guggenheim Fellow, 2003-2004
- Robert L. and Bettie P. Cody Award in Ocean Sciences, Scripps Institution of Oceanography, 2002
- *Discover* Magazine, 50 Most Important Women in Science, November 2002
- Cecil and Ida Green Career Development Chair, MIT, 1993
- National Young Investigator Award, National Science Foundation, 1992
- Bausch and Lomb Science Award, 1978

### **VISITING POSITIONS**

- National Institute of Oceanography, Goa, India, Nehru-Fulbright Senior Research Scholar, Nov. 2011- Feb. 2012
- Woods Hole Oceanographic Institution, Guest Investigator, 2010-2011
- University of Melbourne, Australia, Visiting Research Fellow, Meteorology Dept., 1989-1990

### **MEMBERSHIPS**

- Sigma Xi, elected 1989
- American Geophysical Union
- Geological Society of America
- American Association Advancement Science
- European Geosciences Union

### **PROFESSIONAL COMMITTEES & ACTIVITIES**

- Chair-Elect of the Section on Geology and Geography, AAAS, 2014.
- AGU Paleooceanography and Paleoclimatology Section Fellows committee, AGU, 2013-present
- Emiliani Lecture/Award Committee, AGU, 2013-2014
- Subcommission on Neogene Stratigraphy Corresponding Member, 2012-present

March 20, 2014

- Co-Chair, Strategic Planning Committee, Lamont-Doherty Earth Observatory, 2012-2014
- Steering Committee, PALSEA, 2010-2013
- Chair, Science Advisory Structure Executive Committee (SASEC) of the Integrated Ocean Drilling Program, 2009-2011
- Vice-Chair, Science Advisory Structure Executive Committee (SASEC) of the Integrated Ocean Drilling Program, 2007-2009
- Member, IWG+, International Working Group to plan next drilling program, 2009-2011
- Liaison, Science Plan Writing Committee (edited final draft of plan), International Ocean Discovery Program, 2010-2011
- Participant (sponsored by JOI) in the Coalition for National Science Funding Congressional Hill Visits, Washington D.C., 2010.
- NSF, Marine Geology and Geophysics proposal review panels, 1995, 1997, 2007
- Program Review Committee, Earth System History (ESH), NSF 2006
- Chair and member, Electorate Nominating Committee of the AAAS Section on Geology and Geography, 2001-2004 (Chair, 2003-2004)
- Macelwane Medal Committee, AGU, 2002-2004
- Editor Search Committee, *Paleoceanography*, 2000
- Visiting Committee, Monterey Bay Aquarium Research Institute, 1999
- Committee on Paleoceanography and Paleoclimatology, AGU, 1994-1999
- Visiting Committee, Dept. of Earth and Planetary Sciences, Harvard University, 1993-1999
- JOIDES Science Committee (SCICOM), 1997-1999
- Editorial Board, *Geology*, 1993-1998
- NSF FUMAGES Working Group on Climate and the Sediment Record, 1996
- ODP Detailed Planning Group, Blake-Bermuda Rise Drilling, 1996
- JOIDES Ocean History Panel, 1992-1994
- Chairman, ODP Detailed Planning Group, North Atlantic-Arctic Gateways, 1993
- Pliocene Time Scale Working Group, International Union of Geological Sciences Subcommittee on Neogene Stratigraphy, 1991

#### **CONFERENCE & WORKSHOP ORGANIZATION**

- Organizer, PLIOMAX workshop, LDEO, September 2013.
- Organizing Committee, Reconstructing and understanding CO2 variability in the past, Kavli Royal Society International Centre, England, October 2011
- Steering Committee, IODP Workshop on scientific drilling in the Indian Ocean, Goa, October 2011
- Scientific Steering Committee, IODP Topical Symposium Program, Bremen, August 2007
- Session Chair, Conference of Multiple Platform Exploration (COMPLEX), Vancouver May 1999
- Organizer, Discussion panel, Cenozoic Climate Change, 6th Intl. Conf. on Paleoceanography, Lisbon, August 1998
- Organizer, Leg 162 Post-cruise Scientific Meeting, Long Island, Bahamas, March 1997
- Organizer, Conference on Timing and Oceanographic Consequences of the Closing of the Panama Isthmus, LDEO, October 1997
- Organizer, New Perspectives on the 100 Kyr Climate Cycle, Special Session, Fall AGU, 1996
- Organizer, Global Change Symposium, Goldschmidt Conference, Reston VA, May 1992
- Organizer, Conference on Uplift, Erosion and Climate, LDEO, November 1992
- Organizer, Tectonic History and Climatic Impact of Himalayan/Tibetan Uplift, Special Session, Fall AGU, 1991

#### **NAMED INVITED LECTURES**

- London Quaternary Lectures, Royal Holloway, Univ. of London, February 2008
- Marjory Stoneman Douglas Lecture, Wellesley College, April 2007
- John Wesley Powell Memorial Lecture, SWARM-AAAS, 2006
- Rochester Institute of Technology, College of Science Distinguished Speaker, May, 2006.
- Emiliani Lecture, American Geophysical Union, December 2005
- Snee Graduate Organization Guest Geologist, Cornell University, October 2005
- Distinguished Visiting Lecturer, College of Sciences, Old Dominion University, April (2 talks), 2002
- Mountain Research Center Distinguished Lecturer, Montana State University, 1996
- Joint Oceanographic Institutions/USSAC Distinguished Lecturer, 1994-1995

#### **SELECTED CONFERENCE LECTURES**

- Keynote Speaker, Revolutions in Quaternary Science, QSR@50 Conference, Jan. 8<sup>th</sup>, 2014.
- Invited Speaker, PALSEA2 meeting, Rome, October 22, 2013.
- Keynote Speaker, Goldschmidt Conference, Florence, Aug. 26<sup>th</sup>, 2013.

March 20, 2014

- Invited Speaker (two talks), Davos Atmosphere and Cryosphere Assembly DACA-13, July 8-12<sup>th</sup>, 2013.
- Invited Speaker, Planet Under Pressure Conference, London, UK, March 26-29<sup>th</sup>, 2012.
- Invited Speaker, SLALOM International Conference on Sea Level Observations, Athens, Greece, March 19-22<sup>nd</sup>, 2012.
- Invited Speaker, Warm Climates of the Past, A Lesson for the Future? October 10, 2011, The Royal Society, London.
- Plenary Lecture, INQUA, Bern Switzerland, July 22, 2011
- Invited Speaker, First Antarctic Climate Evolution Conference, Sept. 7<sup>th</sup>, Granada, Spain, 2009
- Keynote Speaker, EPICA Open Science Conference, Nov. 10-13<sup>th</sup>, Venice, Italy, 2008
- Keynote Speaker, Goldschmidt Conference, Cologne, Germany, Aug. 24, 2007
- Keynote Speaker, GEODAZE 2005, Univ. of Arizona, April 2005
- Invited speaker, "Future Challenges for Marine Sciences in Canada – 40<sup>th</sup> Anniversary Symposium", Bedford Institute of Oceanography, 2002.
- Invited speaker, "The Bicentennial Conference: Charles Lyell and James Hutton", Roy. Soc. of Edinburgh, Edinburgh, 1997
- Invited speaker, 5th International Conference on Paleoceanography, Halifax, Canada, 1995
- Invited speaker, National Academy of Sciences 131st Annual Meeting, Washington, D.C., 1994
- Invited speaker, "Fifth Annual Symposium on Frontiers of Science", National Academy of Sciences, Irvine, CA, 1993
- Invited speaker, "Frontiers of Physical Sciences" Symposium, AAAS Ann. Meet., Boston, 1993
- Keynote Address, Chapman Conference on Tectonics and Topography, Snowbird, UT, 1992
- Invited speaker, 3rd International Conference on Paleoceanography, Cambridge, England, 1989

#### **WORKSHOP PARTICIPATION (From 2010)**

- Curators Meeting, WHOI, June 11-13, 2013
- Invited, Evolution of Carbon Cycle Dynamics Workshop, Santa Cruz, Dec. 1-2, 2012.
- Invited, Past Interglacials Workshop, Cambridge England, July 2012.
- Invited, Workshop on Building U.S. Strategies for 2013-2023, Scientific Ocean Drilling, in Denver, Colorado, U.S. Scientific Support Program of the Consortium for Ocean Leadership, Apr. 2012.
- Invited, PALSEA international workshop, Harvard U., August 25, 2011
- Invited, PALSEA international workshop, Bristol, England, Sept. 20-24, 2010
- Invited, CO<sub>2</sub> at the Zoo, Bristol, England, July 7-8, 2010

#### **FIELD EXPEDITIONS**

- Patagonia, PLIOMAX, Feb. 2014
- Pianosa, Italy, PLIOMAX, Oct. 2013
- Expedition leader, South Africa PLIOMAX, June 2012
- Expedition leader, Southern India PLIOMAX, Dec. 2011
- Expedition leader, Western Australia PLIOMAX, May 2010
- Expedition leader, Western Australia PLIOMAX, July 2009
- Co-chief Scientist, Leg 162, R/V *Resolution*, Ocean Drilling Program, 1995
- Tibet, September, 1994
- Shipboard Paleontologist, Leg 108, R/V *Resolution*, Ocean Drilling Program, 1986

#### **EXTERNAL ADVISORY POSITIONS**

- NOVA Advisory Board, The proposed project is tentatively titled *Antarctica's Icy Secrets*. NET Television
- Science Advisor, National Geographic Television & Film
- Consultant, *The Teacher-Friendly Guide to the Geology of the Northeastern U.S.* by J. Ansley and the Paleontological Research Institution, 2001

#### **COLLOQUIA & SEMINARS**

- MARUM, Bremen, Germany, November 2013
- Williams College, September, 2013
- Webinar, Chevron Fellows Program, October, 2013
- Princeton University, October, 2012
- U. Mass, Amherst, March, 2012
- Physical Research Lab, Ahmedabad, India, January 2012
- National Institute of Oceanography, Goa, India, December 2011
- National Center for Antarctic and Ocean Research, Goa, India, December 2011
- Lamont-Doherty Earth Observatory, September, 2011
- WHOI, February, 2011
- Yale University, Global Change Seminar, February, 2011

March 20, 2014

- University of Toronto, Centre for Global Change Distinguished Speakers Series, February, 2011
- Colby College, September, 2010
- Melbourne University, Australia, July, 2009
- WHOI, Geodynamics Seminar, February, 2009
- U. of Miami, Rosenstiel School of Marine and Atmospheric Science, February, 2009
- Lamont Doherty Earth Observatory, December, 2008
- Institute de Physique du Globe, Paris, October, 2008
- Bentley College, October, 2004, 2006, 2007
- Rice University, October, 2007
- Bates College, March, 2007
- Boston University, Center for Space Physics, November, 2006
- University of Rhode Island, Graduate School of Oceanography, November, 2006
- Lamont Doherty Earth Observatory, November, 2006
- Brown University, March, 2006
- Harvard University, Climate Tea, October, 2005
- Rutgers University, March, 2003
- Lamont Doherty Earth Observatory, March, 2003
- Princeton University, March, 2003
- Los Alamos National Laboratory, Frontiers in Geoscience Colloquium, July, 2002
- Stanford University, May, 2002
- University of California, Santa Cruz, May, 2002
- Scripps Institution of Oceanography, January, 2002
- Five College Lecture Series, Hampshire College, March, 2001
- University of Massachusetts, Boston, Dept. of Biology, March 2, 2001
- University of Indiana, Dept. of Physics, Bloomington, November, 2000

• (From 1989-2000)

Monash University, Australia, 1989; Melbourne University, Australia, 1989; MIT, September, 1989; UC-Berkeley, 1990; UF-Gainesville, 1990; Michigan State, Lansing, 1990; UNC-Chapel Hill, 1990; Washington University, MO, 1990; Contra Costa College, Richmond CA, March 2, 1991; Cal State-Hayward, 1991; UC-Santa Cruz, 1991; Lawrence Livermore Labs, 1991; University of Colorado at Boulder, November 6<sup>th</sup>, 1991; INSTAAR-Boulder, November 7<sup>th</sup>, 1991; MIT, 1991; Harvard University, December 18<sup>th</sup>, 1991; UC-Santa Barbara, February 7<sup>th</sup>, 1992; California Institute of Technology, February 24<sup>th</sup>, 1992; UC-Berkeley, Soil Science Department, April 22<sup>nd</sup>, 1992; Scripps Institution of Oceanography, May 1<sup>st</sup>, 1992; Brown University, February 25<sup>th</sup>, 1993; Pennsylvania State University, April 6<sup>th</sup>, 1993; University of Massachusetts, Amherst, May 7<sup>th</sup>, 1993; NASA Goddard Space Flight Center, June 16<sup>th</sup>, 1993; University of Michigan-Ann Arbor, September 26<sup>th</sup>, 1993; Knight Fellows lecture, MIT, October 29<sup>th</sup>, 1993; Univ. of Rhode Island (GSO), April 22<sup>nd</sup>, 1994; WHOI, August 11<sup>th</sup>, 1994; Dickinson College, JOI/USSAC Distinguished Lecturer, October 28<sup>th</sup>, 1994; Vanderbilt University, JOI/USSAC Distinguished Lecturer, March 16<sup>th</sup>, 1995; Fairfield College, March 30<sup>th</sup>, 1995; Lamont-Doherty Earth Observatory, March 31<sup>st</sup>, 1995; Appalachian State College, JOI/USSAC Distinguished Lecturer, April 18<sup>th</sup>, 1995; Dartmouth College, May 12<sup>th</sup>, 1995; University of Iowa, October 20<sup>th</sup>, 1995; Yale University, October 7<sup>th</sup>, 1996; University of Washington, Seattle, December 4<sup>th</sup>, 1996; WHOI Geodynamics Seminar, March, 1997; Knight Fellows lecture, MIT, November 5<sup>th</sup>, 1997; Univ. of Rhode Island (GSO), April 17<sup>th</sup>, 1998; Boston College, April 23<sup>rd</sup>, 1998; University of Miami, April 24<sup>th</sup>, 1998; Duke University, April 30<sup>th</sup>, 1998; Rice University, September 24<sup>th</sup>, 1998; Boston University, October 19<sup>th</sup>, 1998; University of Kansas, Lawrence, October 22<sup>nd</sup>, 1998; University of Illinois, Urbana, October 23<sup>rd</sup>, 1998; University of South Florida, St. Petersburg, November 20<sup>th</sup>, 1998; Brown University, December 15<sup>th</sup>, 1998; Lamont-Doherty Earth Observatory, January 8<sup>th</sup>, 1999; Scripps Institution of Oceanography, March 17<sup>th</sup>, 1999; University of Washington, Seattle, April 14<sup>th</sup>, 1999; University of Washington, Seattle, April 15<sup>th</sup>, 1999; University of Michigan, Ann Arbor, April 16<sup>th</sup>, 1999

#### **PUBLIC LECTURES**

- Florida Oceanographic Society, March 6, 2014
- Nature Conservancy, Eastern New York Chapter, May 1, 2013
- Bruce Museum, Public Lecture, Greenwich, CT, May 16, 2012
- Keynote Speaker, 23<sup>rd</sup> Annual Senior Leadership Conference, Girl Scouts of America, March 5<sup>th</sup>, 2010
- Scripps Institution of Oceanography, Public Lecture, January 25<sup>th</sup>, 2002
- WISE Public Lecture Series, Inaugural lecturer, Syracuse University, March 8<sup>th</sup>, 1999
- Invited Speaker, "Fifty Years of Ocean Discovery-NSF", National Academy of Sciences, Washington, D.C., 1998
- Boston Bay Group, Cambridge, MA, October 20<sup>th</sup>, 1993

### **CLASSROOM TEACHING**

- Cenozoic Paleoceanography, W4937, LDEO, Spring 2013
- Neogene Puzzles, G9600 (LDEO, fall 2012, spring 2014)
- Lecturer, Urbino Summer School in Paleoclimatology, 2010, 2011, 2012, 2013
- Field Oceanography (taught at the Caribbean Marine Research Center in the Bahamas, MIT, 1998, 1999)
- Climate Physics and Chemistry (MIT, 1996, 1997, 1998, 1999)
- Special Topics In Paleoceanography (MIT, 1994, 1999)
- Marine Geology and Geophysics (MIT, 1994, 1995, 1996, 1997, 1998)
- Climate Change (Freshman seminar, MIT, 1993, 1994, 1995, 1996, 1997)
- Experimental Oceanography at Woods Hole (MIT, 1997)
- Climate Change: Past, Present, and Future (MIT, 1993, 1996)
- Pre-Pleistocene Paleoceanography (MIT, 1993, 1995)
- The Global Carbon Cycle (UC-Berkeley, 1991)
- Geologic Record of Climate Change (UC-Berkeley, 1991)
- Geologic Record of Climate Change (U. of Melbourne, 1990)
- Sedimentation and Stratigraphy (U. of Melbourne, 1990)

### **STUDENTS & POST-DOCS MENTORED**

#### *Post-Doc Supervision*

- Lorraine Lisiecki, Ph.D., Brown U., 2005, currently Associate Professor UC Santa Barbara
- Michael O'Leary, Ph.D., James Cook University, 2007, currently Lecturer Curtin University, Perth
- Jeremy Shakun, Ph.D., Oregon State, 2010, currently Asst. Prof. Boston College
- Alessio Rovere, Ph.D., Univ. of Genoa, 2010
- Mieke Thierens, Ph.D., National University of Ireland, 2011
- Heather Ford, Ph.D., UC-Santa Cruz, 2013

#### *Graduate Advisor/Co-Advisor*

- Kristina Faul, Undergraduate Thesis, MIT, 1993, currently Associate Professor, Mills College
- Kristina Dahl, Undergraduate Thesis, BU, 1999, currently Research Program Coordinator, Ctr for Environmental Prediction at Rutgers University
- Darrel Coles, S.M., MIT, 1999, currently Research Geophysicist at Schlumberger
- Brigitte Brunelle, Undergraduate Thesis, BU, 2002, current Carbon Analyst for The Garretson Group
- Susan Carter, MIT-WHOI, currently Lab Manager at Harvard
- Kerim Nisancioglu, Ph.D., MIT, 2004, currently Research Scientist at Bjerknes Ctr. for Climate Research, Bergen
- Benjamin Costanza, M.A., B.U., 2007

#### *Thesis Committees*

- Kevin Walsh, Ph.D., Univ. of Melbourne, 1994
- Chris Forest, Ph.D., MIT, 1996
- Meg Coleman, Ph.D., MIT, 1996
- Susan Alderman, S.M., MIT-WHOI, 1996
- MaryAnn Schlegel, S.M., MIT-WHOI, 1998
- Michael Horowitz, S.M., MIT-WHOI, 1999
- Gerard Roe, Ph.D., MIT, 1999
- Kirsten Laarkamp, Ph.D., MIT-WHOI, 2000
- Robert Ackert, Ph.D., MIT-WHOI, 2000
- Amy Draut, Ph.D., MIT-WHOI, 2003
- Lorraine Lisiecki, Ph.D., Brown U., 2005
- Julia Becker, Ph.D., Utrecht U., 2005
- Kira Lawrence, Ph.D., Brown U., 2006
- Sindia Sosdian, Ph.D., Rutgers U., 2007

#### *Undergraduate Research Project Advisor*

- Chelle Gentemann, MIT, Fall 1992
- Alexandra Weeks, Wellesley College, Spring 1993-Spring 94
- Rosanna Yuen, MIT, Summer 1994
- Meiling Pan, MIT, Fall 93 - Spring 95
- Janelle Brown, MIT, Fall 94-IAP 95
- Jessica Walko, MIT, Fall 94 - Spring 96

March 20, 2014

Helen Hsu, MIT, Spring 95- Spring 96  
Amanda Breed, Wellesley High School, Spring 1996  
Patricia Bradshaw, Willamette University, Summer 1996  
Claudette Reyez, U. Puerto Rico, Summer 1996  
Veronica Vieira, MIT, Spring 96-Summer 98  
Mike Barboza, MIT, Fall 97  
Nina Kutsuzawa, MIT, Spring 97-IAP 98  
Susan Lang, MIT, IAP 98-Spring 98  
Atreyee Gupta, MIT, Summer 98-Spring 99  
Helena Fu, MIT, Fall 98  
Jennifer Stout, MIT, Fall 98-Spring 99  
Jennifer Szlosek, MIT, IAP 99-Spring 99  
April Deet, MIT, Summer 99-Spring 00  
Alexandra Molnar, MIT, Summer 99-Spring 00  
Brigitte Brunelle, BU, 2001-2002  
Greer Dolby, BU, Fall 2006-2008  
Drew Fetterman, BU, summer 2006-Winter 2007  
Kelley Rabjohns, BU, fall 2007-2008  
Claire Archer, BU, summer 2008  
Nicole Khan, BU, fall 2008  
Paula Smith, BU, spring 2009  
Richard Housley, BU Academy High School, spring 2010  
Sebastian Vivancos, LDEO, fall 2012

**REFEREED ARTICLES (student coauthors in bold)**

H-index = 45 on Google Scholar and total citations >12,000.

- 71 Rovere, A., M.E. Raymo, J.X. Mitrovica, P.J. Hearty, M.J. O'Leary, and J.D. Inglis, 2014, The Mid-Pliocene sea-level conundrum: glacial isostasy, eustasy and dynamic topography, *EPSL*, v. 387, p. 27-33.
- 70 O'Leary, M., P. Hearty, W. Thompson, M. E. Raymo, J. Mitrovica, and J. Webster, 2013, Ice sheet collapse following a period of stable eustatic sea level during MIS5e, *Nature Geoscience*, doi:10.1038/ngeo1890.
- 69 Bailey, I., G. Hole, G. Foster, P. Wilson, C. Storey, C. Trueman, and M. E. Raymo, 2013, An alternative suggestion for the Pliocene onset of major northern hemisphere glaciation based on the geochemical provenance of North Atlantic Ocean ice-rafted debris. *Quat. Sci. Rev.*, v. 75, p. 181-194.
- 68 Lawrence, K. T., I. Bailey, and M. E. Raymo, 2013, [Re-evaluation of the age model for North Atlantic Ocean Site 982 – arguments for a return to the original chronology](#), *Climates of the Past*, v. 9, p. 2217-2233.
- 67 Abe-Ouchi, A., F. Saito, K. Kawamura, M. E. Raymo, J. Okuno, K. Takahashi, and H. Blatter, 2013, 100-kyr glacial cycles from ice sheet-climate system with hysteresis driven by insolation, *Nature*, v. 500, p. 190-193.
- 66 Rovere, A., M. E. Raymo, M. J. O'Leary, and P. J. Hearty, 2012, Crowdsourcing in the Quaternary sea level community: insights from the Pliocene, *Quat. Sci. Reviews*, v. 56, p. 164-166.
- 65 Raymo, M. E. and J. X. Mitrovica, 2012, Collapse of polar ice sheets during the stage 11 interglacial, *Nature*, v. 483, p. 453-456, doi:10.1038/nature10891.
- 64 Raymo, M. E., J. X. Mitrovica, M. J. O'Leary, R. M. DeConto, and P. J. Hearty, 2011, Departures from eustasy in Pliocene sea-level records, *Nature Geoscience*, v. 4, p. 328-332, doi:10.1038/NCEO1118. (see accompanying News and Views).
- 63 Lisiecki, L. E., and M. E. Raymo, 2009, Diachronous benthic  $\delta^{18}\text{O}$  responses during late Pleistocene terminations, *Paleoceanography* 24, PA3210, doi:10.1029/2009PA001732.
- 62 Lawrence, K. T., T. D. Herbert, C. M. Brown, M. E. Raymo, and A. M. Haywood, 2009, [High amplitude variations in North Atlantic sea surface temperature during the early Pliocene warm period](#), *Paleoceanography*, v. 24, PA2218, doi:10.1029/2008PA001669.

- 61 Hansen, J., M. Sato, P. Kharecha, D. Beerling, R. Berner, V. Masson-Delmotte, M. Pagani, M. Raymo, D. L. Royer, and J. C. Zachos, 2008, [Target atmospheric CO<sub>2</sub>: where should humanity aim?](#) *Open Atmospheric Science Journal*, v. 2, p. 217-231, doi: 10.2174/1874282300802010217.
- 60 Lisiecki, L., M. E. Raymo, and W. B. Curry, 2008, [Atlantic overturning responses to climate forcing in the late Pleistocene](#), *Nature*, v. 456. p. 85-88, doi:10.1038/nature07425. (see accompanying [News and Views](#) on page 47)
- 59 Kawamura, K., F. Parrenin, L. Lisiecki, R. Uemura, F. Vimeux, J. P. Severinghaus, M. A. Hutterli, T. Nakazawa, S. Aoki, J. Jouzel, M. E. Raymo, K. Matsumoto, H. Nakata, H. Motoyama, S. Fujita, K. Goto-Azuma, Y. Fujii, and O. Watanabe, 2007, [Northern Hemisphere forcing of climatic cycles in Antarctica over the past 360,000 years](#), *Nature*, v. 448, p. 912-917, doi:10.1038/nature06015.
- 58 Lisiecki, L., and M. E. Raymo, 2007, [Plio-Pleistocene climate evolution: trends in obliquity and precession responses](#), *Quat. Sci. Revs*, v. 26, p. 56-69.
- 57 Raymo, M. E., L. Lisiecki, and K. Nisancioglu, 2006, [Plio-Pleistocene ice volume, Antarctic climate, and the global  \$\delta^{18}\text{O}\$  record](#), *Science*, v. 313, p. 492, doi: 10.1126/science.1123296. [Link to Supporting Online Material](#) [Download Data Set](#) (accompanying [Perspectives](#) on page 455)
- 56 Tziperman, E., M. E. Raymo, P. Huybers, and C. Wunsch, 2006, [Consequences of pacing the Pleistocene 100 kyr ice ages by nonlinear phase locking to Milankovitch forcing](#), *Paleoceanography*, v. 21, PA4206, doi:10.1029/2005PA001241.
- 55 Becker, J., L.J. Lourens and M.E. Raymo, 2006, [High-frequency climate linkages between the North Atlantic and the Mediterranean during marine oxygen isotope stage 100 \(MIS100\)](#), *Paleoceanography*, v. 21, PA3002, doi:10.1029/2005PA001168.
- 54 Mudelsee, M., and M.E. Raymo, 2005, [Slow dynamics of the Northern Hemisphere Glaciation](#), *Paleoceanography*, 20, PA4022, doi:10.1029/2005PA001153.
- 53 Lisiecki, L.E. and M.E. Raymo, 2005, [A Plio-Pleistocene stack of 57 globally distributed benthic  \$\delta^{18}\text{O}\$  records](#), *Paleoceanography*, 20, PA1003, doi:10.1029/2004PA001071. [DATA](#)
- 52 Raymo, M.E., D.W. Oppo, B.P. Flower, D.A. Hodell, J. McManus, K.A. Venz, K.F. Kleiven, and K. McIntyre, 2004, [Stability of North Atlantic water masses in face of pronounced climate variability during the Pleistocene](#), *Paleoceanography*, v. 19, PA2008, doi:10.1029/2003PA000921.
- 51 Ruddiman, W.F., and M.E. Raymo, 2003, [A methane-based time scale for Vostok ice](#), *Quaternary Science Reviews*, v. 22, p. 141-155.
- 50 Nisancioglu, K. H., M. E. Raymo, and P. H. Stone, 2003, [Reorganization of Miocene Deep Water Circulation in response to the shoaling of the Central American Seaway](#), *Paleoceanography*, v. 18, 10.1029/2002PA000767.
- 49 Raymo, M.E. and K.H. Nisancioglu, 2003, [The 41 Kyr world: Milankovitch's other unsolved mystery](#), *Paleoceanography*, v. 18, 10.1029/2002PA000791.
- 48 Channell, J.E.T., J. Labs, and M.E. Raymo, 2003, [The Reunion subchronozone at ODP Site 981 \(Feni Drift, North Atlantic\)](#), *Earth Planetary Science Letters*, v. 215, p. 1-12.
- 47 Draut, A., M.E. Raymo, J. McManus, and D.W. Oppo, 2003, [Climate stability during the Pliocene warm period](#), *Paleoceanography*, v. 18, No. 4, 1078, DOI 10.1029/2003PA000889.
- 46 Channell, J.E.T. and M.E. Raymo, 2003, [Paleomagnetic record at ODP Site 980 \(Feni Drift, Rockall\) for last 1.2 Myrs](#), *Geochemistry, Geophysics, Geosystems*, v. 4, DOI 10.1029/2002GC000440.
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