

**MAUREEN ELIZABETH RAYMO**

## Curriculum vitae

Bruce C. Heezen Lamont Research Professor, Lamont Doherty Earth Observatory  
 P.O. Box 1000, 61 Route 9W, Palisades, NY 10964  
 e-mail: Raymo@LDEO.columbia.edu

**PERSONAL** Born 1959, in Los Angeles, CA.  
 Two children (now adults)  
 Citizenship: USA

**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 POSITIONS**

- Bruce C. Heezen Lamont Research Professor, Lamont Doherty Earth Observatory, 2015-present
- Adjunct Professor, Dept. Earth and Environmental Sciences, Columbia University, 2015-present
- Lamont Research Professor, Lamont-Doherty Earth Observatory, 2011-2015
- Director, Lamont-Doherty Core Repository, Lamont-Doherty Earth Observatory, 2011-present
- Research Professor, Dept. of Earth Sciences, Boston University, 2003-2011
- Research Associate Professor, Dept. of Earth Sciences, Boston University, 2000-2003
- Adjunct Scientist, Woods Hole Oceanographic Institute, 2001-2007
- Associate Professor, Dept. Earth, Atmospheric, and Planetary Sciences, MIT, 1997-2000
- Assistant Professor, Dept. Earth, Atmospheric, and Planetary Sciences, MIT, 1992-1997
- Assistant Professor, Dept. Geology and Geophysics, University of California, Berkeley, 1991-1992
- Adjunct Associate Research Scientist, Lamont-Doherty Geological Observatory, 1989-1994
- Associate Scientist, Geology Dept., University of Melbourne, Australia, 1989-1990
- Graduate Research Assistant, LDGO and Dept. of Geology, Columbia University, 1983-1989
- Research Assistant, Lamont-Doherty Geological Observatory, 1982-1983
- Undergraduate Research Assistant, Geology Department, Brown University, 1979-1982

**HONORS & DISTINCTIONS**

2018 University of Miami President's Distinguished Scholar, November 2018.  
 2018 "The Top 50 Women in STEM" by TheBestSchools.org  
 2017 Doctor of Science *Honoris Causa*, The University of Lancaster, Great Britain  
 2017 Fellow, The Explorers Club  
 2016 Member, National Academy of Sciences  
 2015 Honorary Fellow, The Geological Society (of London)  
 2014 Wollaston Medal of the Geological Society of London (first woman)  
 2014 Milutin Milankovic Medal of the European Geosciences Union  
 2012 Montefeltro Medal of the Urbino Summer School in Paleoclimatology (first woman)  
 2011 Fulbright-Nehru Fellowship, India  
 2011 Fellow, American Geophysical Union  
 2008 Accomplishment Based Renewal, 4 year research grant, National Science Foundation

2007	Fellow, American Association Advancement of Science
2003	John Simon Guggenheim Fellow
2002	Robert L. and Bettie P. Cody Award in Ocean Sciences, Scripps Institution of Oceanography (first woman)
2002	<i>Discover</i> Magazine, 50 Most Important Women in Science
1999	Special Creativity Extension, 2 year research grant, National Science Foundation
1993	Cecil and Ida Green Career Development Chair, MIT
1992	National Young Investigator Award, National Science Foundation
1978	Bausch and Lomb Science Award

### NAMED INVITED LECTURES

- Sea Secrets Lecture, U. of Miami, April 3, 2018
- The Richard G. Osgood, Jr., Memorial Lectureship in Geology, Wooster College, April 11, 2018
- Flint Lecturer, Yale University (first woman), November 2017, three lectures.
- Sokol Science Lecture, Montclair State University, Sept. 30, 2014.
- President's Day Lecture, Geological Society of London, June 4<sup>th</sup>, 2014
- Milankovic Medal Lecture, EGU Annual Meeting, Vienna, May 1, 2014
- 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 Lecturer (first woman), 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

### 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

### PROFESSIONAL MEMBERSHIPS

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

### SELECTED PROFESSIONAL COMMITTEES & ACTIVITIES (external to university)

- Cozzarelli Prize Selection Committee, National Academy of Sciences, 2018.
- Assoc. European Geochemistry "Science Innovation Award" Selection Committee, 2017.
- Chair, Electorate Nominating Committee of the AAAS Section on Geology and Geography, 2016-2017
- Editorial Board, Stratigraphy and Timescales, 2015-present.
- **Co-PI, U.S. Science Support Program of the IODP, based at LDEO 2015-2020, \$35M budget.**
- Mayor's Pier Building Committee, Piermont, NY, 2014-2015
- Chair-Elect, Chair, and Past-Chair of the Section on Geology and Geography, AAAS, 2014-2017.
- 2014-2017 Award Committee, EGU Milutin Milankovic Medal
- AGU Paleooceanography and Paleoclimatology Section Fellows committee, AGU, 2013-2016

- Emiliani Lecture/Award Committee, AGU, 2013-2015
- Subcommission on Neogene Stratigraphy Corresponding Member, 2012-present
- Steering Committee, PALSEA, 2010-2015
- **Chair, Science Advisory Structure Executive Committee (SASEC) of the Integrated Ocean Drilling Program, 2009-2011, with responsibility for delivering ~\$1B 10-year science plan “Illuminating Earth’s Past, Present, and Future” to the NSF.**
- 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
- Committee on Paleoceanography and Paleoclimatology, AGU, 1994-1999
- 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 Subcommission on Neogene Stratigraphy, 1991

#### **SELECTED PROFESSIONAL COMMITTEES & ACTIVITIES (at Columbia University)**

- Leading effort to raise funds and renovate Lamont-Doherty Hudson River Field Station in Piermont, NY.
- Interdisciplinary Earth Data Alliance (IEDA), Lamont Advisory Committee, 2017-
- DEES Strategic Planning Committee, 2016-2017
- Columbia Campaign Climate Change Task Force, group leader, 2017
- Science Advisory Committee, Center for Climate and Life, Columbia University, 2015-present.
- President’s Advisory Committee, El Director, Columbia University, 2015-2017.
- Broad Search Committee, DEES-LDEO, 2015-2016.
- Chair, LARP Search subcommittee, 2015-2016.
- Lamont Hall Architect Selection Committee, LDEO, 2016.
- Member, Lamont Climate Center Committee, 2014-present
- Chair, Lamont Hall Restoration Committee, LDEO, 2014-2015.
- Co-Chair, Strategic Planning Committee, Lamont-Doherty Earth Observatory, 2012-2014

#### **EXTERNAL ADVISORY POSITIONS**

- Board of Directors, Think Like a Mountain, 2016-present
- Member, Advisory Council, Climate Science Legal Defense Fund, 2016-present.
- MARUM Scientific Advisory Board Member, Center for Marine Environmental Sciences, University of Bremen Germany, 2015-present.
- 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
- Visiting Committee, Monterey Bay Aquarium Research Institute, 1999
- Visiting Committee, Dept. of Earth and Planetary Sciences, Harvard University, 1993-1999

#### FIELD EXPEDITIONS

- Co-Chief Scientist, IODP Expedition 382 “Iceberg Alley”, Southern Ocean, scheduled March-May 2019.
- Invited Shipboard Scientist, Students on Ice Arctic Expedition, Greenland-Nunavut, Canada, July-Aug. 2018.
- San Salvador, EEMAX sea level expedition, July, 2018.
- Invited Thought-Leader, North Pole Summit, Quark Expeditions, Russia-North Pole, July 20-Aug. 2, 2017
- Exuma/San Salvador, PLIOMAX sea level, January 2017, expedition led by my post-doc Blake Dyer.
- Invited Shipboard Scientist, Students on Ice Arctic Expedition, Baffin Island-Greenland, July-Aug. 2016.
- Western Australia, Cape Ranges, PLIOMAX, July 2016, expedition led by my graduate student M. Sandstrom.
- Bahamas, PLIOMAX, March 2016
- Bermuda, PLIOMAX, March 2015
- Patagonia, PLIOMAX, Feb. 2014
- Pianosa, Italy, PLIOMAX, Oct. 2013
- South Africa, PLIOMAX, June 2012
- Southern India, PLIOMAX, Tamil Nadu, Dec. 2011
- Western Australia PLIOMAX, May 2010
- Western Australia PLIOMAX, July 2009
- Co-chief Scientist, Leg 162, R/V *Resolution*, Ocean Drilling Program, North Atlantic- Greenland Sea, July-August, 1995, Proposed scientific objectives for ~\$12M program involving 30 member international scientific party spending two months at sea.
- Tibet, Nepal to Mt. Kailash, September, 1994, month-long expedition funded by BBC to film *Horizon* TV documentary “Tibet: The Ice Mother” about my research. I participated as scientist at heart of scientific controversy over what causes the ice ages. Two additional TV documentaries were produced with material collected including a PBS NOVA “Cracking the Ice Age” and a German equivalent.
- Shipboard Paleontologist, Leg 108, R/V *Resolution*, Ocean Drilling Program, Eastern Equatorial Atlantic, April-May, 1986

In addition, I have led a number of field excursions for undergraduate and graduate students. These include:

- Field Geology, G8010, Exuma, Bahamas, summer 2015. Ten graduate students from Columbia University to study Quaternary geology and modern carbonate environments.
- Field Oceanography, week-long class taught at the Caribbean Marine Research Center in Exuma, Bahamas, 1999. Twelve undergraduates from MIT and Salem State College to study Quaternary geology and modern carbonate environments.
- Field Oceanography, week-long class taught at the Caribbean Marine Research Center in Exuma, Bahamas, 1998. Twelve undergraduates from MIT and Salem State College to study Quaternary geology and modern carbonate environments.
- Undergraduate Field trip to Florida Keys to study Quaternary geology, Brown University, Spring 1981.

#### CONFERENCE & WORKSHOP ORGANIZATION

- Local Organizing Committee, Regional Sea Level Changes and Coastal Impacts, NYC, July 10-14, 2017.
- Scientific Steering Committee, International Conference on Paleoceanography XII, 2015-2016.

- Scientific Steering Committee, Multiproxy Approach to the Reconstruction of the Pliocene Climate, Barcelona, Sept. 17-19<sup>th</sup>, 2014.
- Organizer, PLIOMAX workshop, LDEO, September 2013.
- Organizing Committee, Reconstructing and understanding CO<sub>2</sub> 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

#### INVITED CONFERENCE LECTURES

- Invited Speaker, UK-IODP 50th Anniversary of Scientific Ocean Drilling meeting, London, September 27-28<sup>th</sup>, 2018.
- Invited Opening Session speaker, *International WCRP/IOC Conference on Regional Sea Level Changes and Coastal Impacts*, July 10-14, Columbia U., NY, 2017.
- Invited Speaker and panelist, Climate, CO<sub>2</sub> and Sea Level: Past is Prologue, in *"From Sea to Changing Sea: A Science Symposium about Oceans*, Radcliffe Institute for Advanced Study, Oct. 28, 2016.
- Invited Speaker, Sprigg Symposium, Australian Earth Science Convention, June 26<sup>th</sup>, 2016.
- Invited speaker and panelist, The Plate Tectonics Revolution at Lamont, 50 years of Discovery, May 24, 2016.
- Invited speaker (two talks), Fall AGU, Dec. 2015.
- Keynote Speaker, GeoBerlin 2015, Berlin, Oct. 5, 2015.
- Invited Lecture, Pardee Symposium in honor of William Smith, GSA, Nov. 1, 2015.
- Invited Keynote Lecture, Northeast GSA, Bretton Woods, March 23<sup>rd</sup>, 2015
- 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.
- 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)**

- Workshop on Economics and Climate Change: bridging knowledge and needs for societal benefits, LDEO, Feb. 2nd, 2018.
- Invited Speaker, PALSEA international workshop, Cancun, Mexico, Nov. 6-9<sup>th</sup>, 2017.
- IODP Workshop, Assessment of the JOIDES Resolution in meeting the challenges of the IODP Science Plan, Denver, Sept. 26-27, 2017.
- Pliomax Workshop, Harvard University, Jan. 22-23, 2016.
- Invited speaker, Columbia University Earth Institute Workshop on Climate Change Policy Research After Paris, Sept. 25<sup>th</sup>, 2015
- Keynote Lecturer, CIDER workshop, Dec. 14<sup>th</sup>, 2014
- Multiproxy Approach to the Reconstruction of the Pliocene Climate, Barcelona, Sept. 17-19<sup>th</sup>, 2014
- 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

#### **INVITED COLLOQUIA & SEMINARS**

- Wooster College, April 12, 2018
- Webinar, Chevron Fellows Program, June 28, 2017
- Lamont Summer Intern Lecture, June 8, 2017
- Dept. of Marine and Coastal Sciences, Rutgers, April 3, 2017
- Nicholas School of the Environment, Duke University, November 11, 2016
- Lamont Summer Intern Lecture, June 21, 2016
- Weeks Lecture, University of Wisconsin, Madison, March 11, 2016
- Scripps Institution of Oceanography, March 9, 2016
- Stony Brook University, November 12, 2015
- Webinar, Chevron Fellows Program, June, 2015
- Lamont Summer Intern Lecture, June 2015
- Pace University, Nov. 5<sup>th</sup>, 2014
- Syracuse University, November 6<sup>th</sup>, 2014
- Webinar, Chevron Fellows Program, August, 2014
- Lamont Summer Intern Lecture, July 2014
- Dept of Physics, University of Indiana, Bloomington, Apr. 2014
- School of Public and Environmental Affairs, University of Indiana, Bloomington, Apr. 2014
- MARUM, Bremen, Germany, November 2013
- Williams College, September, 2013
- Webinar, Chevron Fellows Program, October, 2013
- Lamont Summer Intern Lecture, July 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
  - 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

**SELECTED PUBLIC LECTURES and OUTREACH EVENTS (in addition to those hosted by universities and organizations listed above)**

- The Nature Conservancy, Long Island Chapter, East Hampton, July 14<sup>th</sup>, 2018.
- Speaker, Taste of Science Festival, NYC, April 26, 2018.
- Lecture to the Bonfish Bonnies, Ocean Reef Club, Key Largo, March 14, 2018.
- Frontiers in climate research and the Implications for investment, talk and panel, UBS Headquarters, NYC, Jan 31<sup>st</sup>, 2018
- Earth-2-Class Lecture to 30 highschool professionals, Nov. 18<sup>th</sup>, 2017.
- Salon lecture to young women professionals in NYC organized by P. Ashford, Oct. 25<sup>th</sup>, 2017.
- Open House Lecture, LDEO, Oct. 7, 2017
- [Adventure Science Podcast Interview](#), May 28, 2017
- Audience Q+A with Baba Brinkman and his show *Rap Guide to Climate Chaos*, Off-Broadway, 2016.
- Invited Speaker, Columbia Divest for Climate Justice and the Environmental Coalition, Sept. 30<sup>th</sup>, 2015
- Greenwich Field Club, May 6<sup>th</sup>, Greenwich, CT, 2015
- Greenwich Retired Men's Club, Greenwich, CT. March 4, 2015.
- Ashokan Center, Public Q+A about sea level and climate change, Jan. 30<sup>th</sup>, 2015
- Earth Institute Distinguished Lecture, Lotos Club, NYC, May 8, 2014
- Oceans Alive VIP Sponsor Party Special Guest Speaker, 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
- Invited Panelist, NSF Panel on Scientists, Journalists, and Climate Change, Jan. 8<sup>th</sup>, 2009
- 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

**TEACHING**

- Cenozoic Paleoceanography, W4937, LDEO, spring 2013; spring 2015, spring 2017
- Neogene Puzzles, G9600, LDEO, fall 2012, spring 2014; fall 2014, spring 2016, Fall 2017
- Lecturer, CIDER Summer Program, Solid Earth Dynamics and Climate, Berkeley, 2015
- Field Geology, G8010, Bahamas, summer 2015
- Lecturer, Urbino Summer School in Paleoclimatology, 2010, 2011, 2012, 2013, 2014
- 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

### *Post-Doc Supervision*

- Lorraine Lisiecki, Ph.D., Brown U., 2005, currently tenured 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, currently Scientific Group Leader at MARUM, Bremen, Germany
- Mieke Thierens, Ph.D., National University of Ireland, 2011
- Heather Ford, Ph.D., UC-Santa Cruz, 2013
- Blake Dyer, Ph.D., Princeton U., 2016
- Robert Poirier, Ph.D. Troy U., 2017

### *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, currently 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
- Jonathon Gale, LDEO
- Michael Sandstrom, LDEO
- Jingzhi Amanda Liang, LDEO
- Shilei Li, LDEO/Nanjing U.
- Miranda Cashman, LDEO

### *Thesis and Advisory 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  
 Matthew DeCesare, M.A., Queens College, CUNY, 2014  
 Thomas Lorscheid, MARUM - Center for Marine Environmental Sciences, University of Bremen  
 Laura Haynes, Ph.D., Lamont  
 Kira Olsen, Ph.D., Lamont  
 Nick O'Mara, Lamont  
 Sebastian Vivancos, Lamont  
 Jordan Abell, Lamont

Nick O'Mara, Lamont

- *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

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

- *Visiting Students & Interns*

Shilei Li, Beijing, 2015

Ramiro Mata, Barcelona, 2013

Nathan Caplan, 2013

## PUBLICATIONS

### BOOKS & EDITED VOLUMES

Raymo, C. and M. E. Raymo, 1989, *Written In Stone - a Geological History of the Northeastern United States*. The Globe Pequot Press, Chester, CT, 163 pp (a geology book for non-specialists", coauthored with my father Chet Raymo and currently released in a revised 3<sup>rd</sup> edition by Black Dome Press, has been continuously in print since 1989. WIS is used in high school and college curriculums across the Northeast and was recently on the Bates College summer reading list.) "Compresses billions of years into a slim, lively narrative" *Yankee Magazine*; "Hard to put down....truly an adventure" *Bookpage (New England Edition)*

Jansen, E., M.E. Raymo, and P. Blum, editors, 1996, *Proceedings of the Ocean Drilling Program, Initial Reports, Vol. 162*: College Station, TX (Ocean Drilling Program), 1182 pp.

Raymo, M. E., E. Jansen, P. Blum, and T. Herbert, editors, 1999, *Proceedings of the Ocean Drilling Program, Scientific Results, Vol. 162*: College Station, TX (Ocean Drilling Program).

#### REFEREED SCIENTIFIC ARTICLES (student/post-doc coauthors in bold)

H-index = 55 on Google Scholar with total citations >22,000.

Most cited publications: \*\*\* (n > 1000), \*\* (n > 100)

#### TWELVE SIGNIFICANT PAPERS OF LAST TEN YEARS

Eshel, G., A. Shepon, **S. Gilutz, D. Giddings**, M. Raymo, and R. Milo, 2017, How much “sustainable” beef can the U.S. produce? *Nature Ecology and Evolution*, v. 2, p. 81-85. (This paper arose from a directed study I lead with MA students in the School of International and Public Affairs at Columbia University).

Raymo, M.E., R. Kozdon, D. Evans, L. Lisiecki, and **H. Ford**, 2017, The accuracy of mid-Pliocene  $\delta^{18}\text{O}$  based ice volume and sea level reconstructions, *Earth Science Reviews*, v. 177, p. 291-302.

**Rovere, A.**, E. Casella, **D. Harris, T. Lorscheid**, N. Nanadasena, **B. Dyer, M. Sandstrom**, P. Stocchi, W. D’Andrea, and M. Raymo, 2017, North Atlantic “superstorms” during the last Interglacial? Modeling paleo waves and the transport of giant boulders. *PNAS*, v. 114, 12144-12149.

**Shakun, J. D.**, M. E. Raymo, and D. W. Lea, 2016, An early Pleistocene Mg/Ca- $\delta^{18}\text{O}$  record from the Gulf of Mexico: Evaluating ice sheet size and pacing in the 41-kyr world, *Paleoceanography*, v. 31, p. 1011-1027, DOI: 10.1002/2016PA002956

**Ford, H.**, S. Sosdian, Y. Rosenthal, and M. E. Raymo, 2016, Gradual and abrupt changes during the Mid-Pleistocene Transition, *Quat. Sci. Revs.*, v. 148, p. 222-233; doi:10.1016/j.quascirev.2016.07.005

\*\* Dutton, A., A. E. Carlson, A. J. Long, G. A. Milne, P.U. Clark, R. DeConto, B. Horton, S. Rahmstorf, and M.E. Raymo, 2015, Magnitude, rates and sources of sea-level rise associated with polar ice-sheet retreat during past warm periods, *Science*, v. 349, DOI: 10.1126/science.aaa4019

**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.

\*\***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*, v. 6, 796-800, doi:10.1038/ngeo1890.

\*\* 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.

\*\* 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.

\*\* 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).

- \*\*\* Hansen, J., M. Sato, P. Kharecha, D. Beerling, R. Berner, V. Masson-Delmotte, M. Pagani, M. Raymo, D. L. Royer, and J. C. Zacher, 2008, Target atmospheric CO<sub>2</sub>: where should humanity aim? *Open Atmospheric Science Journal*, v. 2, p. 217-231, doi: 10.2174/1874282300802010217.

#### TWELVE EARLIER SIGNIFICANT PAPERS

- \*\* Raymo, M. E., **L. Lisiecki**, and **K. Nisancioglu**, 2006, Plio-Pleistocene ice volume, Antarctic climate, and the global δ<sup>18</sup>O record, *Science*, v. 313, p. 492, doi: 10.1126/science.1123296.
- \*\*\* **Lisiecki, L.E.** and M.E. Raymo, 2005, A Plio-Pleistocene stack of 57 globally distributed benthic δ<sup>18</sup>O records, *Paleoceanography*, 20, PA1003, doi:10.1029/2004PA001071. DATA
- \*\* 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.
- \*\* Raymo, M.E. and **K.H. Nisancioglu**, 2003, The 41 Kyr world: Milankovitch's other unsolved mystery, *Paleoceanography*, v. 18, 10.1029/2002PA000791.
- \*\* Raymo, M.E., K. Ganley, **S. Carter**, D. W. Oppo, J. McManus, 1998, Millennial-scale climate instability during the early Pleistocene epoch. *Nature*, v. 392, p. 699-702.
- \*\* Raymo, M.E., D.W. Oppo, and W. Curry, 1997, The mid-Pleistocene climate transition: a deep sea carbon isotope perspective. *Paleoceanography*, v. 12, p. 546-559.
- \*\* Raymo, M.E., 1997, The timing of major climate terminations. *Paleoceanography*, v. 12, p. 577-585.
- \*\* Raymo, M.E., B. Grant, **M. Horowitz**, and G. H. Rau, 1996, Mid Pliocene warmth: stronger greenhouse and stronger conveyor. *Marine Micropaleontology*, v. 27, p. 313-326 (One of the top ten most highly cited papers in *Marine Micropaleontology* on the occasion of its 100<sup>th</sup> published volume).
- \*\* Raymo, M.E., 1994, The initiation of Northern Hemisphere glaciation. *Annual Reviews of Earth and Planetary Science*, v. 22, p. 353-383.
- \*\*\* Raymo, M.E. and W.F. Ruddiman, 1992, Tectonic forcing of late Cenozoic climate. *Nature*, v. 359, p. 117-122.
- \*\* Raymo, M.E., W.F. Ruddiman, N.J. Shackleton, and D. Oppo, 1990, Evolution of Atlantic-Pacific δ<sup>13</sup>C gradients over the last 2.5 m.y., *Earth and Planetary Science Letters*, v. 97, p. 353-368.
- \*\* Raymo, M.E., W.F. Ruddiman, and P.N. Froelich, 1988, Influence of late Cenozoic mountain building on ocean geochemical cycles. *Geology*, v. 16, p. 649-653.

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94. **Farmer, J.**, B. Honisch, L. Haynes, D. Kroon, D. Bell, S. Jung, **H. Ford**, M. Jaume-Segui, M.E. Raymo, S. Goldstein, and L. Pena, in review, Deep Atlantic Ocean carbon storage and the rise of the 100,000-year glacial cycles, *Nature Geoscience*.
93. **Li, S.**, W. Li, B. Beard, M.E. Raymo, X. Wang, Y. Chen, and J. Chen, in review, K isotopes as a tracer for continental weathering and geological K cycling, *PNAS*
92. **Li, S.**, G. Li, Y. Chen, W. Li, M.E. Raymo, and J. Chen, in review, Seasonal variations in elemental and Sr-Mg isotopic composition of the Changjiang River water: implications for a delayed export of weathering products and coupling of erosion and silicate weathering. *EPSL*.

91. **Roychowdhury, R.**, R. DeConto and M.E. Raymo, in review, Eccentricity modulation of obliquity-paced cyclicity in Plio-Pleistocene ice volume, *Nature Communications*.
90. **Ford, H.** and M. E. Raymo, in review, Regional and global signals in  $\delta^{18}\text{O}$  records across the Mid-Pleistocene Transition, *Geology*.
89. Rovere, A., E. Casella, **D. Harris, T. Lorscheid, T.**, N. Nandasena, **B. Dyer, M. Sandstrom**, P. Stocchi, W. D'Andrea, and M.E. Raymo, 2018, Reply to Hearty and Tormey: Use the scientific method to test geologic hypotheses, because rocks do not whisper. *Proceedings of the National Academy of Sciences*, 201800534.
88. **Campbell, S. M.**, R. Moucha, L. A. Derry, and M.E. Raymo, 2018, Dynamic topography and the Cenozoic carbonate compensation depth, *G-cubed*, 19, DOI:10.1002/2017GC007386.
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86. Raymo, M.E., R. Kozdon, D. Evans, L. Lisiecki, and **H. Ford**, 2017, The accuracy of mid-Pliocene  $\delta^{18}\text{O}$  based ice volume and sea level reconstructions, *Earth Science Reviews*, v. 177, p. 291-302.
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84. **Toomey, M. R.**, A. Ashton, M. E. Raymo, and J. T. Perron, 2016, Reply to: Terry, J. and Goff, J. comment on "Late Cenozoic sea level and the rise of modern rimmed atolls" by Toomey et al. (2016), *Palaeogeography, Palaeoclimatology, Palaeoecology*, 451: 73-83, <http://dx.doi.org/10.1016/j.palaeo.2016.11.028>.
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80. **Toomey, M. R.**, A. Ashton, M. E. Raymo, and J. T. Perron, 2016, Cenozoic sea level and the rise of modern rimmed atolls, *Palaeo. Palaeo. Palaeo.*, v. 451, p. 73-83, <http://dx.doi.org/10.1016/j.palaeo.2016.03.018>
79. **Evans, D.**, C. Brierly, M.E. Raymo, J. Erez, W. Muller, 2016, Planktic foraminifera shell chemistry response to seawater chemistry: Pliocene-Pleistocene seawater Mg/Ca, temperature, and sea level change, *EPSL*, v. 438, p. 139-148, doi.org/10.1016/j.epsl.2016.01.013.
78. **Austermann, J.**, D. Pollard, J. X. Mitrovica, R. Moucha, A. M. Forte, R. M. DeConto, D. B. Rowley, and M.E. Raymo, 2015, The impact of dynamic topography change on Antarctic Ice Sheet stability during the Mid-Pliocene Warm Period, *Geology*, v. 43; no. 10; p. 927-930, doi:10.1130/G36988.1.

77. **Bell, D. B.**, S. Jung, D. Kroon, D. Hodell, L. Lourens, and M.E. Raymo, 2015, Atlantic deep-water response to the early Pliocene shoaling of the Central American Seaway, *Scientific Reports*, DOI: 10.1038/srep12252.
76. Dutton, A., A. E. Carlson, A. J. Long, G. A. Milne, P.U. Clark, R. DeConto, B. Horton, S. Rahmstorf, and M.E. Raymo, 2015, Magnitude, rates and sources of sea-level rise associated with polar ice-sheet retreat during past warm periods, *Science*, v. 349, DOI: 10.1126/science.aaa4019
75. Kemp, A.C., A. Dutton, and M. E. Raymo, 2015, Paleo constraints on future sea-level rise, *Current Climate Change Reports*, v. 1, pp 205-215, DOI 10.1007/s40641-015-0014-6.
74. Shakun, J., D. W. Lea, L. E. Lisiecki, M. E. Raymo, 2015, An 800-kyr Record of Global Surface Ocean  $\delta^{18}\text{O}$  and Implications for Ice Volume-Temperature Coupling, *EPSL*, v. 426, p. 58-68.
73. **Rovere A.**, P.J. Hearty, **J. Austermann**, J.X. Mitrovica, J. Gale, R. Moucha, A. Forte, M.E. Raymo, 2015, Mid-Pliocene shorelines of the US Atlantic coastal plain – an improved elevation database with comparison to Earth model predictions, *Earth Science Revs.*, 145, 117-131. <http://dx.doi.org/10.1016/j.earscirev.2015.02.007>
72. **Patterson, M.O.**, R. McKay, T. Naish, C. Escutia, F. Jimenez-Espejo, Raymo, M.E., S. Meyers, L. Tauxe, H. Brinkhuis, and IODP Expedition 318 Scientists, 2014, Response of the East Antarctic Ice Sheet to orbital forcing during the Pliocene and Early Pleistocene, *Nature Geoscience*, 7, 841-847, doi:10.1038/ngeo2273.
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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*, v. 6, 796-800, 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.
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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.
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61. Hansen, J., M. Sato, P. Kharecha, D. Beerling, R. Berner, V. Masson-Delmotte, M. Pagani, M. Raymo, D. L. Royer, and J. C. Zacher, 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.
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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.
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