

MAUREEN ELIZABETH RAYMO

Curriculum vitae

G. Unger Vetlesen Professor of Earth and Climate Science,
 Director, Lamont-Doherty Earth Observatory
 Co-Founding Dean, Columbia Climate School
 Dept. Earth and Environmental Sciences, 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, 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

- Co-Founding Dean, Columbia Climate School, April 2021-present
- Director, Lamont-Doherty Earth Observatory, April 2021-present
- G. Unger Vetlesen Professor of Earth and Climate Science, Dept. of Earth and Environmental Sciences, July 1, 2020 - present
- Interim Director, Lamont-Doherty Earth Observatory, July 1, 2020 - 2021
- Bruce C. Heezen Lamont Research Professor, Lamont Doherty Earth Observatory, 2015-2020
- Founding Director, Lamont-Doherty Earth Observatory Hudson River Field Station, 2018-present
- Director, Lamont-Doherty Core Repository, Lamont-Doherty Earth Observatory, 2011-present
- Adjunct Professor, Dept. Earth and Environmental Sciences, Columbia University, 2015-2020
- Lamont Research Professor, Lamont-Doherty Earth Observatory, 2011-2015
- 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

2019 Maurice Ewing Medal, American Geophysical Union and U. S. Navy, Dec. 2019
 2019 Fellow, Geological Society of America
 2018 University of Miami President's Distinguished Scholar, November 2018.
 2018 One of 35 geologists in history profiled in book "Great Geologists" by M.D. Simmons

2018	“The Top 50 Women in STEM” by TheBestSchools.org
2017	Doctor of Science <i>Honoris Causa</i> , 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 Magazine</i> , 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 LECTURES

- Northrup Distinguished Lecture, Univ. New Mexico, April, 2021
- H. H. Woodard Lecture, Beloit College, Feb. 7th, 2020
- Bolin Lecture (to ~600 high school students), University of Stockholm, Sweden, Nov. 19th, 2019
- Crafoord Academy Lecture (Public), Univ. of Lund, Sweden, Dec. 3rd, 2019
- Condon Lecture (Public), Oregon State U., Oct 30th, 2019
- Moore Lecture, Oregon State U., Oct. 31, 2019
- UK-IODP Distinguished Lecture 2018, 50th Anniversary of Scientific Ocean Drilling meeting, London, September 27-28th, 2018.
- Sea Secrets Lecture (Public), 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 (Public), Montclair State University, Sept. 30, 2014.
- President’s Day Lecture, Geological Society of London, June 4th, 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

INVITED CONFERENCE LECTURES and APPEARANCES

- Speaker and Panelist, 26-27 May, Climate Change Symposium, The Geological Society, London, 2021
- Moderator: “State of the Planet” Address by UN Secretary General Antonio Guterres, Columbia University, Dec. 2nd, 2020.
- Invited Speaker, American Geophysical Union, Dec. 2019

- Invited Speaker, Broecker Symposium, LDEO, Columbia U., Oct. 25th, 2019
- Keynote Speaker, Pardee Symposium, *"Extreme Impacts of Global Climate Change: Effective Communication for Geoscientists, Educators, Policy Makers, and the Press"*, GSA, Sept. 24th, 2019
- Invited Speaker, *"Scientific Ocean Drilling's Impact on Geoscience: Past, Present, and Future"*, GSA, Sept. 25th, 2019
- Invited Speaker, "Fifty Years of Scientific Ocean Drilling", AGU annual Meeting, Dec. 10, 2018.
- Invited Speaker, PALSEA international workshop, Cancun, Mexico, Nov. 6-9th, 2017.
- Convocation Address, University of Lancaster, July 2017
- 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, CO₂ 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 26th, 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 23rd, 2015
- Keynote Lecturer, CIDER workshop, Dec. 14th, 2014
- President's Day Lecture, Geological Society of London, June 4th, 2014
- Milankovic Medal Lecture, EGU Annual Meeting, Vienna, May 1, 2014
- Keynote Speaker, Revolutions in Quaternary Science, QSR@50 Conference, Jan. 8th, 2014.
- Invited Speaker, PALSEA2 meeting, Rome, October 22, 2013.
- Keynote Speaker, Goldschmidt Conference, Florence, Aug. 26th, 2013.
- Invited Speaker (two talks), Davos Atmosphere and Cryosphere Assembly DACA-13, July 8-12th, 2013.
- Invited Speaker, Planet Under Pressure Conference, London, UK, March 26-29th, 2012.
- Invited Speaker, SLALOM International Conference on Sea Level Observations, Athens, Greece, March 19-22nd, 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. 7th, Granada, Spain, 2009
- Keynote Speaker, EPICA Open Science Conference, Nov. 10-13th, 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 – 40th 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

INVITED DEPARTMENTAL COLLOQUIA & SEMINARS

- Ecology, Evolution, and Environmental Biology Dept., Columbia Univ., Sept 28th, 2021.
- Lamont Summer Intern Lecture, June 8, 2021

- Central Connecticut State University, April 8th, 2021
- Cambridge University Geographical Society, Feb. 9th, 2021
- Bolin Days Lecture, Bolin Centre, Stockholm, Nov. 26th, 2020
- Boston College, Nov. 24th, 2020
- Lamont Summer Intern Lecture, June 9, 2020
- Physics Dept., Fordham University, Feb. 12th, 2020
- Stockholm University, Nov. 19th, 2019
- Lamont Summer Intern Lecture, June 4, 2019
- University of Miami, three seminars and colloquia, November 2018
- 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. 5th, 2014
- Syracuse University, November 6th, 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 6th, 1991; INSTAAR-Boulder, November 7th, 1991; MIT, 1991; Harvard University, December 18th, 1991; UC-Santa Barbara, February 7th, 1992; California Institute of Technology, February 24th, 1992; UC-Berkeley, Soil Science Department, April 22nd, 1992; Scripps Institution of Oceanography, May 1st, 1992; Brown University, February 25th, 1993; Pennsylvania State University, April 6th, 1993; University of Massachusetts, Amherst, May 7th, 1993; NASA Goddard Space Flight Center, June 16th, 1993; University of Michigan-Ann Arbor, September 26th, 1993; Knight Fellows lecture, MIT, October 29th, 1993; Univ. of Rhode Island (GSO), April 22nd, 1994; WHOI, August 11th, 1994; Dickinson College, JOI/USSAC Distinguished Lecturer, October 28th, 1994; Vanderbilt University, JOI/USSAC Distinguished Lecturer, March 16th, 1995; Fairfield College, March 30th, 1995; Lamont-Doherty Earth Observatory, March 31st, 1995; Appalachian State College, JOI/USSAC Distinguished Lecturer, April 18th, 1995; Dartmouth College, May 12th, 1995; University of Iowa, October 20th, 1995; Yale University, October 7th, 1996; University of Washington, Seattle, December 4th, 1996; WHOI Geodynamics Seminar, March, 1997; Knight Fellows lecture, MIT, November 5th, 1997; Univ. of Rhode Island (GSO), April 17th, 1998; Boston College, April 23rd, 1998; University of Miami, April 24th, 1998; Duke University, April 30th, 1998; Rice University, September 24th, 1998; Boston University, October 19th, 1998; University of Kansas, Lawrence, October 22nd, 1998; University of Illinois, Urbana, October 23rd, 1998; University of South Florida, St. Petersburg, November 20th, 1998; Brown University, December 15th, 1998; Lamont-Doherty Earth Observatory, January 8th, 1999; Scripps Institution of Oceanography, March 17th, 1999; University of Washington, Seattle, April 14th, 1999; University of Washington, Seattle, April 15th, 1999; University of Michigan, Ann Arbor, April 16th, 1999

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

- Invited Speaker, Sea Legacy and Only One Retreat, Virgin Gorda, Dec. 3, 2021
- Public Lecture, Reid Hall, Columbia Global Center, Institute for Ideas and Imagination, Oct. 28th, 2021
- Sci Foo talk, The Ocean isn't a Bathtub, And Other Things that may surprise you about Sea Level, Oct. 23rd, 2021
- The Climate Imperative: Meeting the Moment, Earth Day, April 21, 2021, Webinar
- Invited talk, DE Shaw, March 23, 2021
- Invited talk, 2021 Regional Symposium of the Waterfront Alliance, January 11th, 2021
- Presentation, Science Philanthropy Alliance, Nov. 18th, 2020
- Public Talk, Chappaqua Library, Nov. 12, 2020
- Panel moderator and Host, various events @ Lamont Open House, November, 2020
- Panelist, EarthXWomen Resilience Forum, April 25, 2020.

- Digital Forum Interview for Earth Day Forum with Evelyn Farkas, Running for Congress in NY-17, April 22, 2020.
- [Earth Day 50/50 Live Interview Event](#), Earth Institute, Columbia University, April 22nd, 2020.
- Public Climate Lecture, LDEO, Feb. 20th, 2020.
- Screening and Panel Discussant, NOVA “Polar Extremes” premier, Smithsonian National Museum of Natural History, Jan. 29th, 2020.
- Sci Café Lecture, American Museum of Natural History, Nov. 6th, 2019
- PBS Press Tour, Panel Discussant, Beverly Hills, July 30th, 2019
- Rockland Riverfront Communities Council, Oct. 4, 2018.
- The Nature Conservancy, Long Island Chapter, East Hampton, July 14th, 2018.
- Speaker, Taste of Science Festival, NYC, April 26, 2018.
- Lecture to the Bonefish 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 31st, 2018
- Earth-2-Class Lecture to 30 high school professionals, Nov. 18th, 2017.
- Salon lecture to young women professionals in NYC organized by P. Ashford, Oct. 25th, 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. 30th, 2015
- Greenwich Field Club, May 6th, 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. 30th, 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, 23rd Annual Senior Leadership Conference, Girl Scouts of America, March 5th, 2010
- Invited Panelist, NSF Panel on Scientists, Journalists, and Climate Change, Jan. 8th, 2009
- Scripps Institution of Oceanography, Public Lecture, January 25th, 2002
- WISE Public Lecture Series, Inaugural lecturer, Syracuse University, March 8th, 1999
- Invited Speaker, "Fifty Years of Ocean Discovery-NSF", National Academy of Sciences, Washington, D.C., 1998
- Boston Bay Group, Cambridge, MA, October 20th, 1993

VISITING POSITIONS

- University of Miami, November 2018
- 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

- The Oceanography Society
- Sigma Xi, elected 1989
- American Geophysical Union
- Geological Society of America
- American Association Advancement Science
- European Geosciences Union
- Earth Science Women’s Network

SELECTED PROFESSIONAL COMMITTEES & ACTIVITIES (external to university)

- Science Advisory Group, Aurora Project, 2021
- Southeast Asia Sea-Level Program, Nanyang Technical University, Overseas Collaborator, 2020-present
- External Science Advisory Group (ESAG) of the Bolin Centre, Univ. of Stockholm, Sweden, 2020-present
- Reviewer for the Danish National Research Foundation, Centers of Excellence, 2019
- Review Committee Member, Earth, Atmospheric, and Planetary Sciences Dept., Purdue University, Oct. 27-28, 2019.
- Cozzarelli Prize Selection Committee, National Academy of Sciences, 2018.
- MARUM Scientific Advisory Board Member, Center for Marine Environmental Sciences, University of Bremen Germany, 2015-present.
- 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 Paleooceanography and Paleoclimatology, AGU, 1994-1999
- JOIDES Science Committee (SCICOM), 1997-1999
- Visiting Committee, Monterey Bay Aquarium Research Institute, 1999
- Visiting Committee, Dept. of Earth and Planetary Sciences, Harvard University, 1993-1999
- 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)

- Member, Lamont Vision Committee, Feb. 2020

- Panel Discussant with Kim Stanley Robinson, CU Journalism School, Feb. 18, 2020
- Public Lecture, LDEO, Feb. 20th, 2020
- Member, Lamont Vision Committee, Feb. 2020
- Columbia Alumni Association Board Meeting, Invited speaker, Feb. 1, 2020
- Earth Series Lecture for Earth Institute, The Pratt House, Oct. 26th, 2019
- University Task Force on Climate, Fall 2019
- Earth Institute Diversity, Equity and Inclusion Working Group, 2019-present
- Led effort to raise funds and renovate Lamont-Doherty Hudson River Field Station in Piermont, NY.
Grand Opening with local civic leaders, Sept. 2019
- Author and co-designer of Field Station Infographic Display, “History of the Hudson River Valley” with
artist James Kimak, installed 2019 in Village of Piermont.
- Earth Institute Academic Footprint Task Force, 2018-2019
- Interdisciplinary Earth Data Alliance (IEDA), Lamont Advisory Committee, 2017-present
- DEES Strategic Planning Committee, 2016-2020
- 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, EI 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, 2014-2019
- Chair, Lamont Hall Restoration Committee, LDEO, 2014-2015.
- Co-Chair, Strategic Planning Committee, Lamont-Doherty Earth Observatory, 2012-2014

NON-ACADEMIC EXTERNAL ADVISORY POSITIONS

- The River Project, Honorary Host Committee, Annual Summer Cruise, July 2019
- Science and Conservation Council, Sea Legacy, 2017-present
- Board of Directors, Think Like a Mountain, 2016-present
- Member, Advisory Council, Climate Science Legal Defense Fund, 2016-present.
- NOVA Advisory Board, *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

FIELD EXPEDITIONS

- Proponent, “Mantle Dynamics, Paleoceanography and Climate Evolution in the North Atlantic Ocean”,
Expedition 395, scheduled August 2020, International Ocean Discovery Program.
- Co-Chief Scientist, IODP Expedition 382 “Iceberg Alley”, RV JOIDES Resolution, Southern Ocean, March-
May 2019.
- Trip to Skippers Quarry, VA, for filming of “Polar Extremes” with PBS Nova. Television premier Feb. 5th,
2020.
- Invited Shipboard Scientist, Students on Ice Arctic Expedition, Greenland-Nunavut, Canada, July-Aug.
2018.
- San Salvador, EEMAX sea level expedition, July, 2018.
- Barbados, EEMAX sea level expedition, March 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

- Expedition 382 Post-cruise Sampling Meeting, Bremen, Germany, Nov. 20-27, 2019
- Host, Curator’s Meeting, LDEO, June 5-6, 2019
- Host, PLIOMAX workshop, LDEO, September 2018
- 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. 17-19th, 2014.
- 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

WORKSHOP PARTICIPATION (From 2010)

- Panel Discussant, Demystifying the IODP Proposal Process for Early Career Scientists, USSSP Workshop, LDEO, Feb 19-20, 2020.
- Co-Chief Review Meeting, IODP, College Station, Feb. 24-25, 2020
- Expedition 382 Editorial Meeting, College Station, Oct. 14-18, 2019.
- 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. 6-9th, 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. 25th, 2015
- Keynote Lecturer, CIDER workshop, Dec. 14th, 2014
- Multiproxy Approach to the Reconstruction of the Pliocene Climate, Barcelona, Sept. 17-19th, 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, CO₂ at the Zoo, Bristol, England, July 7-8, 2010

TEACHING

- Cenozoic Paleoceanography, W4937, LDEO, spring 2013; spring 2015, spring 2017, spring 2019, 2021
- Neogene Puzzles, G9600, LDEO, fall 2012, spring 2014; fall 2014, spring 2016, Fall 2017, Fall 2019
- 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 Western Australia Univ., 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, currently working for an NGO helping refugees
- Heather Ford, Ph.D., UC-Santa Cruz, 2013, currently a Lecturer at Queen Mary College, London
- Blake Dyer, Ph.D., Princeton U., 2016-2019, accepted faculty position as Univ. of Victoria, British Columbia
- Robert Poirier, Ph.D. Troy U., 2017-2019
- Oana Dimitru, Ph.D., UF-Gainesville, 2019-present
- Michael Sandstrom, Ph.D., LDEO, 2019-2020
- Michelle Guitard, Ph.D., U. FL, 2021-present

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, M.A. 2013
- Michael Sandstrom, LDEO, M.A. 2016, M.Phil. 2017, Ph.D. 2020
- Jingzhi Amanda Liang, LDEO, M.A. 2017
- Shilei Li, LDEO/Nanjing U., Ph.D. 2020
- Miranda Cashman, LDEO, M.A. 2019
- Claire Jasper, 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
Ingrid Izzaguirre, 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
Kalila Morsink, LDEO, 2018-2019
Bridget Craig, Columbia U., 2019-2020

- *Visiting Students & Interns*

Shilei Li, *Liu Tungsheng Prize for Excellent Young Scholars*, Beijing, 2015-2019
Ramiro Mata, Barcelona, 2013
Nathan Caplan, 2013
Kenji Shore, 2019-2020

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 3rd 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).

Weber, M.E., Raymo, M.E., Peck, V.L., and Williams, T., 2018. *Expedition 382 Scientific Prospectus: Iceberg Alley and South Falkland Slope Ice and Ocean Dynamics*. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.sp.382.2018>

Weber, M.E., Raymo, M.E., Peck, V.L., and Williams, T., 2019. *Expedition 382 Preliminary Report: Iceberg Alley and Subantarctic Ice and Ocean Dynamics*. International Ocean Discovery Program. <https://doi.org/10.14379/iodp.pr.382.2019>

Weber, M.E., Raymo, M.E., Peck, V.L., Williams, T., and the Expedition 382 Scientists, 2021, *Iceberg Alley and Subantarctic Ice and Ocean Dynamics*. Proceedings of the International Ocean Discovery Program, 382: College Station, TX (International Ocean Discovery Program), <https://doi.org/10.14379/iodp.proc.382.2021>

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

H-index = 62 on Google Scholar with total citations >29,000.

Most cited publications: *** (n > 1000) = 5 papers, ** (n > 100) = 45 papers

TEN FAVORITE PAPERS OF LAST TEN YEARS (student/post-doc coauthors in bold)

Li, S., M. E. Raymo, and S. L. Goldstein, 2021, Neogene continental denudation and the Beryllium conundrum, *Proceedings of the National Academy of Sciences* 118(42), DOI:[10.1073/pnas.2026456118](https://doi.org/10.1073/pnas.2026456118). Shows how Neogene beryllium record is consistent with enhanced chemical weathering and the uplift-weathering hypothesis.

Dyer, B., J. Austermann, W. J. D’Andrea, R. C. Creel, **M. R. Sandstrom**, M. Cashman, A. Rovere, and M. E. Raymo, 2021, Sea level trends across the Bahamas constrain peak Last Interglacial ice melt, *PNAS*, Vol. 118, <https://doi.org/10.1073/pnas.2026839118>. Challenges accepted Eemian maximum sea level of 6-9m relative to today and proposes more modest sea level rise at that time.

Sandstrom, M. R., M. J. O’Leary, M. Barham, Y. Cai, T. Rasbury, K. Wooton, and M. E. Raymo, 2020, Age constraints on surface deformation recorded by fossil shorelines at Cape Range National Park, Australia, *GSA Bulletin*, <https://doi.org/10.1130/B35564.1>. Unravels the history of uplifted fossil coral terraces in Western Australia.

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. Demonstrates that CCD reconstructions need to take into account dynamic topography of sea floor through time.

- Rovere, A.**, E. Casella, **D. Harris**, **T. Lorscheid**, N. Nanadasena, **B. Dyer**, **M. Sandstrom**, P. Stocchi, W. D'Andrea, and M. Raymo, 2017, Giant boulders and Last Interglacial storm intensity in the North Atlantic. *PNAS*, v. 114, 12144-12149. *Sea level rise or superstorms?—secrets of Cow and Bull.*
- 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**, 2018, The accuracy of mid-Pliocene $\delta^{18}\text{O}$ based ice volume and sea level reconstructions, *Earth Science Reviews*, v. 177, p. 291-302. *An unvarnished look at paleo reconstructions using oxygen isotopes.*
- 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. *Will someone please go re-core ODP Site 625? It is an amazing site.*
- 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. *Insight into ocean dynamics and climate change across the MPT.*
- 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. *Observational constraints on the magnitude of dynamic topographic movements through time.*

EARLIER SIGNIFICANT PAPERS

- ** 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/NGEO1118. (see accompanying News and Views).
- ** 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.
- *** **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
- ** 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 100th 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 $\delta^{13}\text{C}$ 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.

FULL PUBLICATIONS LIST (student/post-doc coauthors in bold):

- 109. Warnock, J.P., B. T. Reilly, M. E. Raymo, M. E. Weber, V. Peck, T. Williams et al., *submitted*, Latitudinal variance in the drivers and pacing of warmth during mid-Pleistocene MIS 31 in the Antarctic Zone of the Southern Ocean.
- 108. Purkis, S.J., S. N. Ward, H. Shernisky, G. Chimienti, A. Sharifi, F. Marchese, F. Benzoni, M. Rodrigue, M. E. Raymo, and A. Abdulla, *submitted*, Tsunamigenic Potential of an Incipient Submarine Landslide in the Tiran Straits, *Geophysical Research Letters*.
- 107. **Roychowdhury, R.**, R. DeConto and M.E. Raymo, *submitted*, Eccentricity modulation of obliquity-paced cyclicity in Plio-Pleistocene ice volume, *Nature Communications*.
- 106. **Li, S.**, G. Li, Y. Chen, W. Li, M.E. Raymo, and J. Chen, *submitted*, Seasonal delay of transportation of weathering products and coupling of erosion and silicate weathering in the Changjiang (Yangtze River) basin, *Global Biogeochemical Cycles*.
- 105. Weber, M. et al., *submitted*, Anti-phased dust deposition and productivity in the Antarctic Zone over 1.5 million years, *Nature Communications*.
- 104. **Li, S.**, M. E. Raymo, and S. L. Goldstein, 2021, Neogene continental denudation and the Beryllium conundrum, [Proceedings of the National Academy of Sciences](https://doi.org/10.1073/pnas.2026456118) 118(42), DOI:[10.1073/pnas.2026456118](https://doi.org/10.1073/pnas.2026456118)
- 103. Poirier, R., M. Gaetano, K. Acevedo, M. Schaller, M.E. Raymo, R. Kozdon, 2021, Quantifying Diagenesis, Contributing Factors, and Resulting Isotopic Bias in Benthic Foraminifera using the Foraminiferal Preservation Index: Implications for Geochemical Proxy Records, *Paleoceanography and Paleoclimatology*, 36, e2020PA004110. <https://doi.org/10.1029/2020PA004110>
- 102. Portier, A. M., Thierens, M., Martin, E. E., Hemming, S. R., Gombiner, J. H., & Raymo, M. E., 2021, Late Pleistocene emergence of crystalline Canadian Shield sources in sediments of the northern Gulf of Mexico. *Paleoceanography and Paleoclimatology*, 36, e2020PA004082. <https://doi.org/10.1029/2020PA004082>

101. **Dyer, B.**, J. Austermann, W. J. D'Andrea, R. C. Creel, **M. R. Sandstrom**, M. Cashman, A. Rovere, and M. E. Raymo, 2021, Sea level trends across the Bahamas constrain peak Last Interglacial ice melt, *PNAS*, Vol. 118, <https://doi.org/10.1073/pnas.2026839118>
100. **Reilly, B.T.**, L. Tauxe, S. Brachfeld, M. E. Raymo, I. Bailey, S. Hemming, M. E. Weber, T. Williams, M. Garcia, M. Guitard, Y. M. Martos, L. F. Pérez, X. Zheng, L. Armbrecht, F. G. Cardillo, Z. Du, G. Fauth, A. Glueder, M. Gutjahr, I. Hernández-Almeida, F. S. Hoem, J. Hwang, M. Iizuka, Y. Kato, B. Kenlee, S. O'Connell, V. Peck, T. A. Ronge, O. Seki, S. Tripathi, J. Warnock, 2021, New magnetostratigraphic insights from Iceberg Alley on the rhythms of Antarctic climate during the Plio-Pleistocene, *Paleoceanography and Paleoclimatology*, v. 36, <https://doi.org/10.1029/2020PA003994>.
99. Perez, L.F., Y. Martos, M. Garcia, M. Weber, M.E. Raymo, T. Williams and IODP Expedition 382 Scientists, 2021, Miocene to present oceanographic variability in the Scotia Sea and Antarctic Ice Sheet dynamics: Insight from a revised seismic-stratigraphy following IODP Expedition 382. *EPSL*, 553, <https://doi.org/10.1016/j.epsl.2020.116657>.
98. Rovere, A., M. Pappalardo, S. Richiano, M. Aguirre, **M.R. Sandstrom**, P.J. Hearty, J. Austermann, I. Castellanos, and M.E. Raymo, 2020, Higher than present global mean sea level recorded by an Early Pliocene intertidal unit in Patagonia (Argentina). *Communications Earth Environment* **1**, 68, <https://doi.org/10.1038/s43247-020-00067-6>.
97. Kirby, N., I. Bailey, D. C. Lang, A. Brombacher, T. B. Chalk, R. L. Parker, A. J. Crocker, V. E. Taylor, J. A. Milton, G. L. Foster, M. E. Raymo, D. Kroon, D. B. Bell, and P. A. Wilson, 2020, On climate and abyssal circulation during late Pliocene marine isotope stage M2, ~3.3 million years ago, *Quaternary Science Reviews*, 250, <https://doi.org/10.1016/j.quascirev.2020.106644>.
96. **Sandstrom, M. R.**, M. J. O'Leary, M. Barham, Y. Cai, T. Rasbury, K. Wooton, and M. E. Raymo, 2020, Age constraints on surface deformation recorded by fossil shorelines at Cape Range National Park, Australia, *GSA Bulletin*, <https://doi.org/10.1130/B35564.1>.
95. **van der Weijst, C. M.H.**, J. Winkelhorst, L. Lourens, M. E. Raymo, F. Sangiorgi, and A. Sluijs, 2020, A ternary mixing model approach using benthic foraminifer $\delta^{13}\text{C}$ - $\delta^{18}\text{O}$ data to reconstruct late Pliocene deep Atlantic water mass mixing, *Paleoceanography and Paleoclimatology*, <https://doi.org/10.1029/2019PA003804>.
94. Hearty, P. J., A. Rovere, **M. R. Sandstrom**, M. J. O'Leary, D. Roberts, & M. E. Raymo, 2020, Pliocene-Pleistocene stratigraphy and sea-level estimates, Republic of South Africa with implications for a 400 ppmv CO₂ world. *Paleoceanography and Paleoclimatology*, 35, e2019PA003835. <https://doi.org/10.1029/2019PA003835>
93. **Ford, H. L.**, & Raymo, M. E., 2019, Regional and global signals in seawater $\delta^{18}\text{O}$ records across the mid-Pleistocene transition. *Geology*, 48(2), 113-117. <https://doi.org/10.1130/G46546.1>
92. **Li, S.**, W. Li, B. Beard, M.E. Raymo, X. Wang, Y. Chen, and J. Chen, 2019, K isotopes as a tracer for continental weathering and geological K cycling, *PNAS*, v. 18, p. 8740-8745. <https://doi.org/10.1073/pnas.1811282116>
91. **Farmer, J. R.**, Hönisch, B., Haynes, L. L., Kroon, D., Jung, S., **Ford, H. L.**, Raymo, M.E., M. Jaume-Segui, D. Bell, S. Goldstein, L. Pena, M. Yehudai, and J. Kim, 2019, Deep Atlantic Ocean carbon storage and the rise of 100,000-year glacial cycles, *Nature Geoscience*, 12, p. 355-360. <https://doi.org/10.1038/s41561-019-0334-6>

90. Miller, K.G., Raymo, M.E., Browning, J.V., Rosenthal, Y, and Wright, J.D., 2019, Peak sea level during the warm Pliocene: Errors, limitations, and constraints, *Past Global Changes Magazine*, vol. 21(1), 4-5, <https://doi.org/10.22498/pages.27.1.4>
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. <https://doi.org/10.1073/pnas.1800534115>
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.
87. **Rovere, A.**, E. Casella, **D. Harris, T. Lorscheid**, N. Nanadasena, **B. Dyer, M. Sandstrom**, P. Stocchi, W. D'Andrea, and M. Raymo, 2017, Giant boulders and Last Interglacial storm intensity in the North Atlantic. *PNAS*, v. 114, 12144-12149.
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.
85. 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).
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>.
83. **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
82. **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
81. **Rovere A.**, M.E. Raymo, M. Vacchi, T. Lorscheid, P. Stocchi, L. Gómez-Pujol, D. L. Harris, Elisa Casella, M. J. O'Leary, P. J. Hearty, 2016, The analysis of Last Interglacial (MIS5e) relative sea-level indicators: Reconstructing sea-level in a warmer world, *Earth Science Revs.*, v. 159, p. 404-427.
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CONTRIBUTED ARTICLES

- Neal, C., Gulick, S. P. S., Baker, B., D'Hondt, S., Eguchi, N., Gregg, T., Raymo, M.E.... Torres, M. (2021). Forging Partnerships with Other Federal Programs: NASA and the National Science Foundation (NSF) through Scientific Ocean Drilling. *Bulletin of the AAS*, 53(4).
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WEBSITES & VIDEOS DEVELOPED AND LAUNCHED/CODE PACKAGES

- YouTube video, "[Maureen Raymo](#)", by Kirk Sohr, Lamont Doherty Earth Observatory, March 27, 2020.

- [Holdthebeef.org](#) highlights research of student-led SIPA project that investigated the impact of beef consumption on the environment.
- “[Giant boulders and the Last Interglacial](#)” public education video by post-doc Alessio Rovere about our work in the Bahamas.
- R Package, [Global Sea Level and Oxygen Isotope Data](#), B. Marwick et al., 2017.
- YouTube video, “[Searching for Eustasy](#)”, Apr. 30th, 2014.
- “Sea Change: How High Will the Sea Rise?” [sealevelstudy.org](#), public education website developed with D. Grossman
- Lamont-Doherty Core Repository website: [ldeo.columbia.edu/core-repository](#) with A. Mojarro.
- [pliomax.org](#) website for PLIOMAX Project funded by NSF developed in collaboration with A. Rovere.
- [http://pliomax.org/pliowiki/index.php/Welcome to PLIOMAX](http://pliomax.org/pliowiki/index.php/Welcome_to_PLIOMAX), a wiki maintained to track progress and methods in paleo sea level research (Raymo, Housley and Rovere).
- <http://www.pliomax.org/pliowiki/RSLmap/RSLmap.html>, RSLmap and RSLcalc is an open geographic database of all published Plio-Pleistocene sea level data (Rovere, Raymo, et al. 2012).

PUBLIC OUTREACH & PRESS

- [She’s an Authority on Earth’s Past. Now, Her Focus Is the Planet’s Future](#). John Schwartz, The New York Times, July 10, 2020.
- [Maureen Raymo Appointed Interim Director of Lamont-Doherty Earth Observatory](#), State of the Planet, Earth Institute, June 11, 2020.
- Panelist, EarthXWomen Resilience Forum, April 25, 2020.
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- [As COVID-19 Halts Climate Expeditions, Scientists Grapple with Uncertainties](#), Anuradha Varanasi, State of the Planet, Earth Institute, April 1, 2020.
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