Robert E. Kopp

Curriculum Vitae

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Education

Ph.D. (Geobiology), California Institute of Technology, 2007
M.S. (Geobiology), California Institute of Technology, 2005
S.B. (Geophysical Sciences with General and Departmental Honors), University of Chicago, 2002

Professional Experience

Current Appointments

2023- Distinguished Professor of Earth & Planetary Sciences, School of Arts and Sciences, Rutgers University–New Brunswick

Previous Appointments

2024-2025 Visiting Fellow, Princeton School of Public and International Affairs, Princeton University, and John Simon Guggenheim Memorial Foundation Fellow
2021-2023 Founding Co-Director, University Office of Climate Action, Rutgers, the State University of New Jersey

Rutgers University–New Brunswick
2017-2023 Professor of Earth & Planetary Sciences, School of Arts and Sciences
2017-2021 Director, Rutgers Institute of Earth, Ocean, and Atmospheric Sciences
2011-2017 Associate Director, Rutgers Energy Institute
2014-2017 Associate Professor of Earth & Planetary Sciences, School of Arts and Sciences
2011-2014 Assistant Professor of Earth & Planetary Sciences, School of Arts and Sciences

Other Institutions
2009-2011 AAAS Science & Technology Policy Fellow, Office of Climate Change Policy & Technology, Office of Policy & International Affairs, U.S. Department of Energy
2007-2009 Science, Technology & Environmental Policy Postdoctoral Fellow, School of Public & International Affairs and Department of Geosciences, Princeton University
2002-2007 Graduate Research Fellow, Geological and Planetary Sciences, California Institute of Technology
1999-2002 Undergraduate Research Assistant, Geophysical Sciences, University of Chicago

Current Affiliations

2025- Lead Author, Working Group 1, Seventh Assessment Report, UN Intergovernmental Panel on Climate Change (IPCC)
2024- Co-Lead, Engagement and Applications, NASA Sea-Level Change Team
2021- Director, Megalopolitan Coastal Transformation Hub (coastalhub.org)
2016- Director, Coastal Climate Risk and Resilience Graduate Program (c2r2.rutgers.edu), Rutgers–New Brunswick
2015- Founding Co-Principal Investigator, Climate Impact Lab (impactlab.org)

Rutgers University Institute Faculty Affiliations
2023- Rutgers Climate and Energy Institute
2018- Rutgers Global Health Institute

Rutgers University Graduate Program Faculties
2012- Graduate Program in Atmospheric Sciences
2012- Graduate Program in Oceanography
2011- Graduate Program in Earth and Planetary Sciences
2013- Graduate Program in Statistics

2012- Graduate Program in Planning and Public Policy (Associate)

Previous Affiliations

2024-2025 Chapter Lead, Coastal Effects, Sixth National Climate Assessment
2022-2025 Co-Chair, Roundtable on Macroeconomics and Climate-related Risks and Opportunities, National Academies of Sciences, Engineering, and Medicine
2017-2023 Member, Board on Atmospheric Sciences and Climate, National Academies of Sciences, Engineering, and Medicine
2018-2021 Lead Author, Working Group 1, Sixth Assessment Report, UN Intergovernmental Panel on Climate Change (IPCC)
2016-2017 Lead Author, Vol. 1: Climate Science Special Report, US Fourth National Climate Assessment
2014-2024 Faculty Affiliate, Rutgers Institute of Earth, Ocean, and Atmospheric Sciences
2013-2014 Lead Scientist, *American Climate Prospectus: Economic Risks in the United States* (Independent risk assessment for the Risky Business Project)
2011-2023 Faculty Affiliate, Rutgers Climate Institute
2011-2023 Faculty Affiliate, Rutgers Energy Institute
2011-2015 Faculty Affiliate, Rutgers Institute of Marine and Coastal Sciences

Honors and Awards

2024–2025 John Simon Guggenheim Memorial Foundation Fellow
2022 American Association for the Advancement of Science (AAAS) Fellow
2017 American Geophysical Union (AGU) Fellow
2017 American Geophysical Union (AGU) James B. Macelwane Medal
2015–2020 Rutgers–New Brunswick Chancellor's Scholar
2015–2016 Leopold Leadership Fellow
2015 International Union for Quaternary Research (INQUA) Sir Nicholas Shackleton Medal
2014 AGU Editor's Citation for Excellence in Refereeing, *Earth's Future*
2014 William Mitchell College of Law Expert Witness Training Academy
2012 American Geophysical Union (AGU) William Gilbert Medal
2012 Kavli Fellow
2011 AGU Editor's Citation for Excellence in Refereeing, *Geophysical Research Letters*
2010 Award for Special Service, U.S. Department of Energy
2009-2011 AAAS Science & Technology Policy Fellow
2009 White House Fellows Program Regional Semi-Finalist
2002-2006 Harrison Brown Memorial Moore Graduate Research Fellow, California Institute of Technology
2002-2005 National Science Foundation Graduate Research Fellow
2002 Prize for Excellence, Sigma Xi (University of Chicago chapter)
2001-2002 Student Marshal, University of Chicago Class of 2002
2001 Phi Beta Kappa

Professional Service

Scientific Assessment and Advisory Experience

<u>International</u>

2025- Lead Author, Working Group 1, IPCC Seventh Assessment Report
2018-2023 Lead Author, Working Group 1, and Contributing Author, Working Group 2 and Synthesis Report, IPCC Sixth Assessment Report
2018 Advisory and Review Board Member, PESETA III Project, European Commission Joint Research Centre
2017-2018 Contributing Author, IPCC Special Report on Oceans and Cryosphere
2017 Scoping Meeting Participant, IPCC Sixth Assessment Report
2012-2014 Contributing Author, Working Groups 1 and 2, IPCC Fifth Assessment Report
2012 Advisory and Review Board Member, PESETA II Project, European Commission Joint Research Centre
2009 Department of Energy Advisor to U.S. Delegation to the 31st Plenary of the IPCC
2008 Scientific Assessment Panel advising the Delta Committee of the Dutch Cabinet

National

2025	Reviewer, National Academies Workshop Proceedings on *Leveraging the National Climate Assessment to Empower Communities*
2025	US Environmental Protection Agency Board of Scientific Counselors (appointed/never convened)
2024-2025	Chapter Lead, Coastal Effects, Sixth National Climate Assessment
2023-	Member, US CLIVAR Working Group on Climate Data and Predictions for Coastal Solutions
2023	Participant, White House Council of Economic Advisors Climate Risk Modeling Roundtable
2023	Reviewer, National Academies Report on *Review of the Draft Fifth National Climate Assessment*
2021	Reviewer, National Academies Report on *Next Generation Earth Systems Science at the National Science Foundation*
2020	Reviewer, National Academies Report on *Global Change Research Needs and Opportunities for 2022-2031*
2016-2017	Lead Author, Vol. 1: Climate Science Special Report, US Fourth National Climate Assessment
2015-2017	Committee Member, National Academies Project on Assessing Approaches to Updating the Social Cost of Carbon
2009-2010	Technical Advisor, White House Interagency Working Group on the Social Cost of Carbon
2008-2009	Princeton School of Public & International Affairs Workshop on Black Carbon, consulting for Office of Air and Radiation, Environmental Protection Agency

State and Local

2024-	Member, Commonwealth of Massachusetts Climate Science Advisory Panel
2023	Sea-Level Rise Expert Group Member, Maryland Climate Change Commission
2019	Chair, Science and Technical Advisory Panel on Sea-Level Rise and Coastal Storm Risk, Rutgers University on behalf of the New Jersey Department of Environmental Protection
2019-2021	Sea Level Rise Team Member, Greater Boston Research Advisory Group
2018	Sea-Level Rise Expert Group Member, Maryland Climate Change Commission
2018	Working Group on Climate Change Impacts Member, Port Authority of New York and New Jersey
2017	Sea-Level Rise Expert Group Member, New York City Panel on Climate Change
2017	Sea-Level Rise Expert Panel Author, California Ocean Protection Council
2016	Sea-Level Rise Expert Committee Member, Fourth California Climate Change Vulnerability and Adaptation Assessment
2015-2016	Working Group Member, Sea-Level Rise Working Group, Boston Research Advisory Group
2015-2016	Chair, Science and Technical Advisory Panel on Sea-Level Rise and Coastal Storm Risk, New Jersey Climate Adaptation Alliance
2014	External Reviewer, New Hampshire Coastal Risks and Hazards Commission Scientific Advisory Panel
2014	External Reviewer, New York City Panel on Climate Change
2013	Sea-Level Rise Expert Group Member, Maryland Climate Change Commission

Journals

2022-	Editor (Coasts, Cryosphere, and Sea Level), *Earth's Future*
2020-2022	Editorial Board, *Mitigation and Adaptation Strategies for Global Change*
2016-2022	Associate Deputy Editor, *Climatic Change*
2016-2021	Editorial Board Member, *Current Climate Change Reports*
2013-2018	Editorial Advisory Board Member, AGU *Eos*

Professional Society

2025-	Steering Committee Member, U.S. Academic Alliance for the IPCC
2021-	Member, Scientific Committee on Antarctic Research (SCAR) Research Programme on Instabilities and Thresholds in Antarctica (INSTANT)
2021	Member, Panel for Government Funding of Science Position Statement Revision, American Geophysical Union
2019	Member, Panel for Climate Change Position Statement Revision, American Geophysical Union
2019-	Advisory Committee Member, "How We Respond," American Association for the Advancement of Science

2016-2018 Advisory Group Member, AGU Sharing Science Program
2011-2015 AAAS Science & Technology Policy Fellowship Application Reader

Conferences, Workshops, and Seminar Series

2023 Organizing Committee, Workshop on Campus and Community-Scale Climate Change Solutions, Washington, DC
2018 Meeting Convener, PALSEA-QUIGS joint workshop on "Climate, ice sheets and sea level during past interglacial periods", Galloway, NJ
2017 AGU Ocean Sciences Meeting 2018 Program Committee
2014 Discussion Leader, Department of Energy Integrated Modeling Workshop
2013 Co-Convener, DIMACS Workshop on "Geological data fusion: Tackling the statistical challenges of interpreting past environmental change"
2012-2017 Organizer, Rutgers Energy Institute Energy Policy Seminar Series
2012 Session Co-Chair, "Geomicrobiology and the magnetic signature of biogenic iron minerals" Ninth Santa Fe Conference on Rock Magnetism, Santa Fe, NM
2010-2011 Co-Organizer, DOE/EPA Workshops on "Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis"
2010 Session Convener, "Incorporating Climate Change Impacts into Policy Analysis," American Geophysical Union Fall Meeting
2008-2009 Organizer, Princeton Environmental Institute Energy Group Seminar Series
2008 Organizer, Princeton University Environmental Geology and Geochemistry Seminar Series
2005 Session Convener, "Biogeomagnetism: Processes and Products", American Geophysical Union Fall Meeting
2004-2006 Committee Member, Caltech Y Social Activism Speakers Series

University Service

2019-2021 Co-Chair, President's Task Force on Carbon Neutrality and Climate Resilience, Rutgers University

Rutgers University Committee Membership

2023 Tenure Review Committee for one faculty member, Bloustein School of Planning and Public Policy
2022-2023 Department of Earth and Planetary Sciences Faculty Search Committee
2021-2022 Department of Earth and Planetary Sciences Faculty Search Committee
2020- New Jersey Climate Change Resource Center Faculty Advisory Board
2020 Promotion Review Committees for two faculty members, Department of Human Ecology
2017-2018 Marine Social Science and Policy Faculty Search Committee
2016-2018 Bloustein School of Planning and Public Policy Dean Search Committee
2014-2017 Graduate Program on Atmospheric Sciences Nominations Committee
2014-2016 Institute of Earth, Ocean and Atmospheric Sciences Faculty Advisory Committee
2014-2016 Sustainability Committee
2014-2016 Henry Rutgers Earth, Ocean, and Atmospheric Sciences Professorship Search Committee
2013- Rutgers Climate Institute Internal Advisory Board
2013 Rutgers-New Brunswick Strategic Planning Committee on "Understanding and Creating a Sustainable World"
2013-2014 Department of Earth and Planetary Sciences Faculty Search Committee
2011-2012 Department of Earth and Planetary Sciences Faculty Search Committee
2012-2013 Rutgers Climate & Society Initiative Internal Advisory Board

External Service to Other Universities

2019 Juror, "Designing a Green New Deal" Landscape Architecture/Planning Studio, Weitzman School of Design, University of Pennsylvania
2018- External Advisory Board Member, LandscapeU NSF Research Traineeship, Pennsylvania State University

Journal Referee: *AGU Advances*; *AMBIO*; *Climate of the Past*; *Climate Research*; *Climatic Change*; *Earth and Planetary Science Letters*; *Earth System Dynamics*; *Earth's Future*; *Ecological Economics*; *Energy Policy*; *Environmental*

Microbiology; *Environmental Research Letters*; *European Biophysics Journal*; *Geobiology*; *Geochemistry, Geophysics, Geosystems (G3)*; *Geology*; *Geophysical Journal International*; *Geophysical Research Letters*; *Geoscientific Model Development*; *Global Environmental Change*; *Global and Planetary Change*; *Journal of Applied Physics*; *Journal of Climate*; *Journal of Geophysical Research: Biogeosciences*; *Journal of Geophysical Research: Oceans*; *Journal of Marine Science and Engineering*; *Journal of the Royal Society: Interface*; *Landscape Ecology*; *Natural Hazards*; *Nature*; *Nature Climate Change*; *Nature Communications*; *Nature Geoscience*; *Nature Energy*; *NPJ Climate and Atmospheric Science*; *Ocean Science*; *Palaeogeography, Palaeoclimatology, Palaeoecology (Paleo3)*; *Paleoceanography*; *PLOS One*; *Proceedings of the National Academy of Sciences*; *PNAS Nexus*; *Progress in Physical Geography*; *Quaternary Science Reviews*; *Reviews of Geophysics*; *Risk Analysis*; *Science*; *Science Advances*; *Science of the Total Environment*; *Weather, Climate and Society*

Grant Referee: European Research Council; Leibniz Association; NASA Science Mission Directorate; NASA Postdoctoral Program; National Science Foundation (Antarctic Glaciology; Antarctic Integrated System Science; Decision, Risk, and Management Sciences; Geophysics; Marine Geology and Geophysics; Paleoclimate; Paleo Perspectives on Climate Change); Mississippi-Alabama Sea Grant Consortium; Netherlands Organization for Scientific Research (NWO); Royal Society University Research Fellowship; Sigma Delta Epsilon/Graduate Women in Science; South African National Research Foundation; Swiss National Science Foundation; U.K. Natural Environment Research Council; U.S. Department of Energy

Member: American Association for the Advancement of Science, American Geophysical Union

Publications

Working papers and manuscripts in review

1. Rode, A., R. E. Baker, T. Carleton, A. D'Agostino, M. Delgado, T. Foreman, D. R. Gergel, M. Greenstone, T. Houser, S. Hsiang, A. Hultgren, A. Jina, R. E. Kopp, S. B. Malevich, K. E. McCusker, I. Nath, M. Pecenco, J. Rising, and J. Yuan (2022). Labor Disutility in a Warmer World: The Impact of Climate Change on the Global Workforce. *SSRN*. DOI: 10.2139/ssrn.4221478.
2. Kopp, R. E., J. Church, S. Dangendorf, B. Fox-Kemper, I. Haigh, D. L. Bars, G. L. Cozannet, R. Nicholls, M. Oppenheimer, C. Piecuch, R. Riva, A. Slangen, V. Srikrishnan, P. Thompson, R. S. J. Tol, and R. van de Wal (2025). Faulty science and faulty statistics can't stop sea level acceleration: An expression of concern regarding Voortman, H. G., & De Vos, R. (2025). A Global Perspective on Local Sea Level Changes. Journal of Marine Science and Engineering, 13(9), 1641. *ESS Open Archive*. DOI: 10.22541/essoar.175766862.22299902/v1.
3. Bolliger, I. W., G. Cederberg, S. Dangendorf, N. J. Depsky, A. Huprikar, R. E. Kopp, J. X. Mitrovica, M. Yu, S. Hsiang, P. Huybers, E. Kennedy-Yoon, M. Kitch, M. Lickley, S. Ludtke, C. Mulvey, R. Murdock, R. Ragavan, N. Valencic, and C. Waltenberg (in review). Quantifying Asymmetries in Flood Area and Population Exposure Between Sea Level Fingerprints of Melting From the Antarctic and Greenland Ice Sheets. *Earth's Future*. DOI: 10.22541/au.173801314.47840038.
4. Cleetus, R., R. E. Kopp, H. Boushey, S. Carley, L. Hunter, W. Edelberg, S. Kapnick, and T. M. Lenton (in review). Understanding the macroeconomic dynamics of climate risk requires a transdisciplinary research agenda.
5. Creel, R. C., R. Kopp, A. Dutton, M. Raymo, C. Britt, and R. Deconto (in review). North American Ice Sheet Persistence during Past Warm Periods Should Inform Future Projections. *Nature Communications*. DOI: 10.31223/X5F43Z.
6. Felikson, D. et al. (in press). Progress and Outlook for Constraining Uncertainties in Sea-Level Projections Using Observations. *Nature Climate Change*. DOI: 10.22541/essoar.174940490.07639698/v1.
7. Geronimo, L., W. Irving, E. A. Gilmore, R. E. Kopp, and C. J. Andrews (in press). Cultural and Institutional Factors Driving Severe Repetitive Flood Losses: Insights from the Jersey Shore. *Risk Analysis*. DOI: 10.1111/risa.70091.
8. Gilford, D. M., Y. Lin, K. Dahl, A. Pershing, R. E. Kopp, and B. H. Strauss (in review). Human-caused sea level rise drives 21st-century worldwide water level extremes.
9. Kenney, M. A., R. E. Kopp, C. Samaras, et al. (in review). What a robust, evidence-based United States climate assessment needs. *Earth's Future*.

10. Kopp, R. E., T. Crowl, P. Dorhout, S. Han, E. Harvey, M. Krosby, P. Lippel, J. Newman, R. Teutonico, R. M. Thomas, and M. Tolstoy (in press). Higher education institutions can accelerate societal climate action. *BioScience*. DOI: 10.1093/biosci/biaf139.
11. Lin, Y., R. E. Kopp, H. Xiong, F. D. Hibbert, Z. Zheng, F. Yu, P. Kumar, S. Dangendorf, H. Yi, and Y. Zhang (in review). Profound modern sea-level evolution against geological backdrop in southeastern China. DOI: 10.21203/rs.3.rs-6133070/v1.
12. Pollack, A. et al. (in review). Investing in Open and FAIR Practices for More Usable and Equitable Climate-Risk Research. *OSF Preprints*. DOI: 10.31219/osf.io/29nhv.
13. Sefton, J. P., A. C. Kemp, S. E. Engelhart, M. J. Brain, J. C. Ellison, R. Creel, C. G. Piecuch, R. E. Kopp, B. Charley, and S. Lihpai (in review). Mangrove sediments reveal drivers of Late Holocene sea-level change in the equatorial Pacific Ocean. *Quaternary Science Reviews*.
14. Tesdal, J.-E., J. P. Krasting, R. E. Kopp, T. H. J. Hermans, P. Kumar, W. V. Sweet, and S. M. Griffies (in review). The contribution of sterodynamic changes to the uncertainty of regional sea-level projections over the 21st century. *AGU Advances*. DOI: 10.22541/essoar.174729528.84639181/v1.

Journal articles

1. Kopp, R. E. and M. Humayun (2003). Kinetic model of carbonate dissolution in Martian meteorite ALH84001. *Geochimica et Cosmochimica Acta* **67**(17), 3247–3256. DOI: 10.1016/S0016-7037(02)01114-6.
2. Weiss, B. P., S. S. Kim, J. L. Kirschvink, R. E. Kopp, M. Sankaran, A. Kobayashi, and A. Komeili (2004a). Magnetic tests for magnetosome chains in Martian meteorite ALH84001. *Proceedings of the National Academy of Sciences* **101**(22), 8281–8284. DOI: 10.1073/pnas.0402292101.
3. Weiss, B. P., S. S. Kim, J. L. Kirschvink, R. E. Kopp, M. Sankaran, A. Kobayashi, and A. Komeili (2004b). Ferromagnetic resonance and low temperature magnetic tests for biogenic magnetite. *Earth and Planetary Science Letters* **224**, 73–89. DOI: 10.1016/j.epsl.2004.04.024.
4. Kopp, R. E., J. L. Kirschvink, I. A. Hilburn, and C. Z. Nash (2005). The Paleoproterozoic snowball Earth: A climate disaster triggered by the evolution of oxygenic photosynthesis. *Proceedings of the National Academy of Sciences* **102**(32), 11131–11136. DOI: 10.1073/pnas.0504878102.
5. Kobayashi, A., J. L. Kirschvink, C. Z. Nash, R. E. Kopp, D. A. Sauer, L. E. Bertani, W. F. Voorhout, and T. Taguchi (2006). Experimental observation of magnetosome chain collapse in magnetotactic bacteria: sedimentological, paleomagnetic, and evolutionary implications. *Earth And Planetary Science Letters* **245**, 538–550. DOI: 10.1016/j.epsl.2006.03.041.
6. Kopp, R. E., C. Z. Nash, A. Kobayashi, B. P. Weiss, D. A. Bazylinski, and J. L. Kirschvink (2006). Ferromagnetic resonance spectroscopy for assessment of magnetic anisotropy and magnetostatic interactions: A case study of mutant magnetotactic bacteria. *Journal of Geophysical Research* **111**, B12S25. DOI: 10.1029/2006JB004529.
7. Kopp, R. E., B. P. Weiss, A. C. Maloof, H. Vali, C. Z. Nash, and J. L. Kirschvink (2006). Chains, clumps, and strings: Magnetofossil taphonomy with ferromagnetic resonance spectroscopy. *Earth and Planetary Science Letters* **247**(1–2), 10–25. DOI: 10.1016/j.epsl.2006.05.001.
8. Liang, M.-C., H. Hartman, R. E. Kopp, J. L. Kirschvink, and Y. L. Yung (2006). Production of hydrogen peroxide in the atmosphere of a Snowball Earth and the origin of oxygenic photosynthesis. *Proceedings of the National Academy of Sciences* **103**(50), 18896–18899. DOI: 10.1073/pnas.0608839103.
9. Suzuki, Y., R. E. Kopp, T. Kogure, A. Suga, K. Takai, S. Tsuchida, N. Ozaki, K. Endo, J. Hashimoto, and Y. Kato (2006). Sclerite formation in the hydrothermal-vent "scaly-foot" gastropod—possible control of iron sulfide biomineralization by the animal. *Earth and Planetary Science Letters* **242**(1), 39–50. DOI: 10.1016/j.epsl.2005.11.029.
10. Kopp, R. E., T. D. Raub, D. Schumann, H. Vali, A. V. Smirnov, and J. L. Kirschvink (2007). Magnetofossil spike during the Paleocene-Eocene thermal maximum: Ferromagnetic resonance, rock magnetic, and electron microscopy evidence from Ancora, New Jersey, United States. *Paleoceanography* **22**, PA4103. DOI: doi:10.1029/2007PA001473.
11. Maloof, A. C., R. E. Kopp, J. P. Grotzinger, D. A. Fike, T. Bosak, H. Vali, P. M. Poussart, B. P. Weiss, and J. L. Kirschvink (2007). Sedimentary iron cycling and the origin and preservation of magnetization in platform carbonate muds, Andros Island, Bahamas. *Earth and Planetary Science Letters* **259**(3–4), 581–598. DOI: 10.1016/j.epsl.2007.05.021.

12. Kirschvink, J. L. and R. E. Kopp (2008). Palaeoproterozoic ice houses and the evolution of oxygen-mediating enzymes: the case for a late origin of photosystem II. *Philosophical Transactions of the Royal Society B: Biological Sciences* **363**(1504), 2755–2765. DOI: 10.1098/rstb.2008.0024.
13. Kirschvink, J. L., R. E. Kopp, T. D. Raub, C. T. Baumgartner, and J. W. Holt (2008). Rapid, precise, and high-sensitivity acquisition of paleomagnetic and rock-magnetic data: Development of a low-noise automatic sample changing system for superconducting rock magnetometers. *Geochemistry Geophysics Geosystems* **9**(5), Q05Y01. DOI: 10.1029/2007GC001856.
14. Kopp, R. E. and J. L. Kirschvink (2008). The identification and biogeochemical interpretation of fossil magnetotactic bacteria. *Earth-Science Reviews* **86**(1-4), 42–61. DOI: 10.1016/j.earscirev.2007.08.001.
15. Schumann, D., T. D. Raub, R. E. Kopp, J.-L. Guerquin-Kern, T.-D. Wu, I. Rouiller, A. V. Smirnov, S. K. Sears, U. Lücken, S. M. Tikoo, R. Hesse, J. L. Kirschvink, and H. Vali (2008). Gigantism in unique biogenic magnetite at the Paleocene–Eocene Thermal Maximum. *Proceedings of the National Academy of Sciences* **105**(46), 17648–17653. DOI: doi:10.1073/pnas.0803634105.
16. Kopp, R., D. Schumann, T. Raub, D. Powars, L. Godfrey, N. Swanson-Hysell, A. Maloof, and H. Vali (2009). An Appalachian Amazon? Magnetofossil evidence for the development of a tropical river-like system in the mid-Atlantic United States during the Paleocene-Eocene thermal maximum. *Paleoceanography* **24**(4), PA4211. DOI: 10.1029/2009PA001783.
17. Kopp, R. E., F. J. Simons, J. X. Mitrovica, A. C. Maloof, and M. Oppenheimer (2009). Probabilistic assessment of sea level during the last interglacial stage. *Nature* **462**(7275), 863–867. DOI: 10.1038/nature08686.
18. Morrow, D. R., R. E. Kopp, and M. Oppenheimer (2009). Toward ethical norms and institutions for climate engineering research. *Environmental Research Letters* **4**, 045106. DOI: 10.1088/1748-9326/4/4/045106.
19. Kopp, R. E. and D. L. Mauzerall (2010). Assessing the climatic benefits of black carbon mitigation. *Proceedings of the National Academy of Sciences* **107**(26), 11703–11708. DOI: 10.1073/pnas.0909605107.
20. Kopp, R. E., J. X. Mitrovica, S. M. Griffies, J. Yin, C. C. Hay, and R. J. Stouffer (2010). The impact of Greenland melt on local sea levels: a partially coupled analysis of dynamic and static equilibrium effects in idealized water-hosing experiments. *Climatic Change* **103**, 619–625. DOI: 10.1007/s10584-010-9935-1.
21. Katsman, C., A. Sterl, J. Beersma, H. van den Brink, J. Church, W. Hazeleger, R. Kopp, D. Kroon, J. Kwadijk, R. Lammersen, J. Lowe, M. Oppenheimer, H. Plag, J. Ridley, H. von Storch, D. Vaughan, P. Vellinga, L. Vermeersen, R. van de Wal, and R. Weisse (2011). Exploring high-end scenarios for local sea level rise to develop flood protection strategies for a low-lying delta—the Netherlands as an example. *Climatic Change* **109**(3), 617–645. DOI: 10.1007/s10584-011-0037-5.
22. Kousky, C., R. E. Kopp, and R. M. Cooke (2011). Risk premia and the social cost of carbon: A review. *Economics* **5**, 2011–21. DOI: 10.5018/economics-ejournal.ja.2011-21.
23. Eom, J., K. Calvin, L. Clarke, J. Edmonds, S. Kim, R. Kopp, P. Kyle, P. Luckow, R. Moss, P. Patel, and M. Wise (2012). Exploring the future role of Asia utilizing a Scenario Matrix Architecture and Shared Socio-economic Pathways. *Energy Economics* **34**, S325–S338. DOI: 10.1016/j.eneco.2012.03.012.
24. Kopp, R. E. (2012). Palaeoclimate: Tahitian record suggests Antarctic collapse. *Nature* **483**(7391), 549–550. DOI: 10.1038/483549a.
25. Kopp, R. E., A. Golub, N. O. Keohane, and C. Onda (2012). The Influence of the Specification of Climate Change Damages on the Social Cost of Carbon. *Economics* **6**, 2012–13. DOI: 10.5018/economics-ejournal.ja.2012-13.
26. Kopp, R. E. and B. K. Mignone (2012). The U.S. Government's Social Cost of Carbon Estimates after Their First Two Years: Pathways for Improvement. *Economics* **6**, 2012–15. DOI: 10.5018/economics-ejournal.ja.2012-15.
27. Hay, C. C., E. Morrow, R. E. Kopp, and J. X. Mitrovica (2013). Estimating the sources of global sea level rise with data assimilation techniques. *Proceedings of the National Academy of Sciences* **110**, 3692–3699. DOI: 10.1073/pnas.1117683109.
28. Kodama, K., R. Moeller, D. Bazylinski, R. Kopp, and A. Chen (2013). The mineral magnetic record of magnetofossils in recent lake sediments of Lake Ely, PA. *Global and Planetary Change* **110C**, 350–363. DOI: 10.1016/j.gloplacha.2013.03.012.
29. Kopp, R. E. (2013). Does the mid-Atlantic United States sea level acceleration hot spot reflect ocean dynamic variability? *Geophysical Research Letters* **40**, 3981–3985. DOI: 10.1002/grl.50781.

30. Kopp, R. E. and B. K. Mignone (2013). Circumspection, reciprocity, and optimal carbon prices. *Climatic Change* **120**(4), 831–843. DOI: 10.1007/s10584-013-0858-5.
31. Kopp, R. E., F. J. Simons, J. X. Mitrovica, A. C. Maloof, and M. Oppenheimer (2013). A probabilistic assessment of sea level variations within the last interglacial stage. *Geophysical Journal International* **193**(2), 711–716. DOI: 10.1093/gji/ggt029.
32. Marten, A. L., R. E. Kopp, K. C. Shouse, C. W. Griffiths, E. L. Hodson, E. Kopits, B. K. Mignone, C. Moore, S. C. Newbold, S. Waldhoff, and A. Wolverton (2013). Improving the assessment and valuation of climate change impacts for policy and regulatory analysis. *Climatic Change* **117**, 433–438. DOI: 10.1007/s10584-012-0608-0.
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Books

1. Houser, T., S. Hsiang, R. Kopp, and K. Larsen (2015). *Economic Risks of Climate Change: An American Prospectus*. New York: Columbia University Press, 376 pp.

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1. Garner, G. G. et al. (2021). *IPCC AR6 Sea Level Projections*. Version 20210809. Zenodo. DOI: 10.5281/zenodo.6382554.
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1. Tol, R., S. Waldhoff, and R. E. Kopp, eds. (2012). *The Social Cost of Carbon*. *Economics* special issue. http://www.economics-ejournal.org/special-areas/special-issues/the-social-cost-of-carbon.
2. Marten, A., K. Shouse, and R. E. Kopp, eds. (2013). *Improving the Assessment and Valuation of Climate Change Impacts for Policy and Regulatory Analysis*. *Climatic Change* special issue vol. 117, issue 3. http://link.springer.com/journal/10584/117/3/page/1.

Theses

1. Kopp, R. E. (2002). "Evidence for Antarctic alteration of Martian meteorite ALH84001". Senior thesis in Geophysical Sciences (M. Humayun, advisor). Chicago, IL: University of Chicago.
2. Kopp, R. E. (2007). "The Identification and Interpretation of Microbial Biogeomagnetism". Ph.D. thesis in Geobiology (J. L. Kirschvink, advisor). Pasadena, CA: California Institute of Technology.

Popular Publications

1. Kopp, R. E. and J. L. Kirschvink (2004). "The world's worst climate disaster". In: *Miracle Planet II: The Evolution of Our World*. [Published in Japanese]. Tokyo: NHK (Japan Broadcasting Corporation).
2. Kirschvink, J. L. and R. E. Kopp (ghostwriter) (2006). Red Earth, White Earth, Green Earth, Black Earth. *Engineering & Science* **4**, 10–20.
3. Kopp, R. and B. Strauss (2012). Rising seas a real threat to New Jersey. *Newark Star-Ledger* (July 10). http://tinyurl.com/ckmmjl9.
4. Strauss, B. and R. Kopp (2012). Rising seas, vanishing coastlines. *New York Times Sunday Review* (Nov. 25). http://nyti.ms/TcArGg.
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11. Kopp, R. (2017b). New York 2140: A novelist's vision of a drowned city that still never sleeps. *The Conversation* (March 5). https://goo.gl/PxVWYK.
12. Garner, A. J., R. E. Kopp, B. P. Horton, M. E. Mann, R. B. Alley, K. A. Emanuel, N. Lin, J. P. Donnelly, A. C. Kemp, R. M. DeConto, and D. Pollard (2018). New York City's evolving flood risk from hurricanes and sea level rise. *US CLIVAR Variations/CLIVAR Exchanges* **16**(1), 30–35.
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16. Kopp, R. (2019). Climate research needs to change to help communities plan for the future. *The Conversation* (April 5). https://bit.ly/2I7jmSz.
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19. Kopp, R. (2021). IPCC climate report: Profound changes are underway in Earth's oceans and ice – a lead author explains what the warnings mean. *The Conversation* (August 9). https://bit.ly/3jBwM9G.
20. Kopp, R. E. (2021a). Climate grant universities could mobilize community climate action. *Eos* **102**(May). DOI: 10.1029/2021EO158178.
21. Kopp, R. (2024). A Climate Scientist on What Trump's Victory Means for Global Warming. *The New Republic* (November 8). https://bit.ly/40FXAfP.
22. Kopp, R. E. (2024). "The climate crisis and the university". In: *Reflections on the pandemic: COVID and social crises in the year everything changed*. Ed. by T. Politano. New Brunswick, NJ: Rutgers University Press, pp.217–224.

23. Kopp, R. E., E. A. Gilmore, and R. L. Shwom (2025). Climate change will surprise us, but 'tipping points' may lead us astray. *Bulletin of the Atomic Scientists* **81**(2), 121–125. DOI: 10.1080/00963402.2025.2464445.

Presentations

Invited Academic Presentations

1. R. E. Kopp, B. P. Weiss, S. S. Kim, and J. L. Kirschvink (2004). Ferromagnetic resonance spectroscopy in the hunt for magnetofossils. Institute for Rock Magnetism Santa Fe 6, Santa Fe, NM, June 2004.
2. R. E. Kopp, C. Z. Nash, B. P. Weiss, A. C. Maloof, A. Kobayashi, H. Vali, and J. L. Kirschvink (2006). Identifying magnetotactic bacteria and their fossils with ferromagnetic resonance. Southern California Geobiology Symposium, Riverside, CA, April 2006.
3. R. E. Kopp, C. Z. Nash, B. P. Weiss, A. C. Maloof, A. Kobayashi, H. Vali, and J. L. Kirschvink (2006). Identifying magnetotactic bacteria and their fossils with ferromagnetic resonance. Goldschmidt Conference, Melbourne, Australia, Abstract No. 206.00, August 2006.
4. R. E. Kopp (2006). Developing tools for unlocking Earth history from a magnetotactic bacterium?s perspective. University of Johannesburg Geology department seminar, Johannesburg, South Africa, September 2006.
5. R. E. Kopp, A. C. Maloof, B. P. Weiss, and J. L. Kirschvink (2006). Assessing the source of magnetization in sediments with rock magnetism and ferromagnetic resonance spectroscopy. Geological Society of America Annual Meeting, Philadelphia, PA, Paper No. 164-6, October 2006.
6. R. E. Kopp (2008). Tracing biological magnetism in sediments: from modern bacteria to ancient global warming. Rutgers University Earth & Planetary Sciences department seminar, New Brunswick, NJ, February 2008.
7. R. E. Kopp (2008). Tracing biological magnetism in sediments: from modern bacteria to ancient global warming. MIT Chemical Oceanography and Biogeochemistry seminar, Cambridge, MA, February 2008.
8. R. E. Kopp (2008). A magnetic mystery: the transformation of the iron cycle under severe global warming in the initial Eocene. Lafayette College Geology department seminar, Easton, PA, February 2008.
9. R. E. Kopp, D. Schumann, T. D. Raub, J. L. Kirschvink, and H. Vali (2008). Magnetic microbes and the transformation of the iron cycle under severe global warming in the initial Eocene. Twelfth International Symposium on Microbial Ecology, Cairns, Australia. August 2008.
10. R. E. Kopp (2010). Probabilistic assessment of local and global sea level during the Last Interglacial stage. Harvard ClimaTea seminar, Cambridge, MA, March 2010.
11. R. E. Kopp (2010). New approaches in domestic and international climate policy. Princeton Environmental Institute Energy Group seminar, Princeton, NJ, April 2010.
12. R. E. Kopp (2010). Department of Energy Office of Policy & International Affairs and Climate Change Technology Program impacts activities and needs. Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, July 2010.
13. R. E. Kopp, F. J. Simons, J. X. Mitrovica, A. C. Maloof and M. Oppenheimer (2010). Last Interglacial Sea Level: A Bayesian approach to integrating geological data and physical models. PALSEA Workshop, Bristol, UK, September 2010.
14. R. E. Kopp, J. X. Mitrovica, S. M. Griffies, J. Yin, C. C. Hay and R. J. Stouffer (2010). Dynamic and static equilibrium sea level effects of Greenland Ice Sheet melt: An assessment of partially-coupled idealized water hosing experiments. American Geophysical Union Fall Meeting, San Francisco, CA, December 2010.
15. R. E. Kopp (2011). Incorporating Deep Time and the Long Now into policy and regulatory analysis: Lessons from a social cost of carbon assessment. University of Chicago Department of Geophysical Sciences, Chicago, IL, May 2011.
16. R. E. Kopp (2011). Macroeconomic rebound, Jevons? paradox, and economic development. Carnegie Mellon University Center for Environmental Decision Making Workshop on "Energy Efficiency and the Rebound Effect," Washington, DC, June 2011.

17. R. E. Kopp (2011). Searching for the geographic fingerprints of past and future sea level change amid uncertainty. PALSEA Workshop, Cambridge, MA, August 2011.
18. R. E. Kopp (2011). Searching for the geographic fingerprints of past and future sea level change amid uncertainty. Princeton University Department of Geosciences Solid Earth Brown Bag, Princeton, NJ, October 2011.
19. R. E. Kopp (2012). Reflections on two years of climate and energy policy in the Obama administration. Princeton Environmental Institute Energy Group seminar, Princeton, NJ, February 2012.
20. R. E. Kopp (2012). The sea level response to climate change: What can the past tell us about the future? Rutgers Physics Department Colloquium, Piscataway, NJ, February 2012.
21. R. E. Kopp (2012). The sea level response to climate change: What can the past tell us about the future? Lafayette College Department of Geology and Environmental Geosciences, Easton, PA, February 2012.
22. R. E. Kopp (2012). Interpreting the noisy geological record of ancient sea level changes. Rutgers Statistics Department Colloquium, Piscataway, NJ, April 2012.
23. R. E. Kopp (2012). Climate change regulation and benefit-cost analysis: Opportunities and challenges. Princeton Science, Technology and Environmental Policy seminar, Princeton, NJ, September 2012.
24. R. E. Kopp (2012). Interpreting the noisy geological record of ancient sea level changes. American Museum of Natural History Earth & Planetary Sciences Department seminar, New York, NY, September 2012.
25. R. E. Kopp (2012). Interpreting the noisy geological record of ancient sea level changes. NOAA Geophysical Fluid Dynamics Laboratory seminar, Princeton, NJ, October 2012.
26. R. E. Kopp (2012). Interpreting the noisy geological record of ancient sea level changes. Caltech Yuk Lunch Seminar, Pasadena, CA, October 2012.
27. R. E. Kopp (2012). The role of geoengineering among climate solutions. US Kavli Frontiers of Science Symposium, Irvine, CA, November 2012. http://vimeo.com/58042026.
28. R. E. Kopp (2012). Balancing benefits and costs in a 4°C world: the need for and challenges of natural-social science dialogue. American Geophysical Union Fall Meeting, San Francisco, CA, December 2012.
29. R. E. Kopp (2012). Climate change risk in benefit-cost analysis: Key sensitivities for the social cost of carbon and optimal emissions trajectories. Society for Risk Analysis Annual Meeting, San Francisco, CA, December 2012.
30. R. E. Kopp (2013). Interpreting the noisy historical and geological records of sea level change: What can the past tell us about the future? Carnegie Mellon University Climate and Energy Decision Making Seminar, Pittsburgh, PA, January 2013.
31. R. E. Kopp (2013). Bayesian inference on sea level and ice volume history during past interglacials. DIMACS Workshop on "Geological data fusion: Tackling the statistical challenges of interpreting past environmental change," Piscataway, NJ, January 2013.
32. R. E. Kopp (2013). Interpreting the noisy geological record of ancient sea level changes: What can the Quaternary tell us about ice sheet stability? CLIVAR WGOMD - SOP Workshop on Sea Level Rise, Ocean/Ice Shelf Interactions and Ice Sheets, Hobart, Australia, February 2013.
33. R. E. Kopp (2013). Interpreting the noisy geological record of ancient sea level changes: What can the Quaternary tell us about ice sheet stability? Penn State Geosciences Colloquium/Frontiers of Cyberscience Lecture, State College, PA, April 2013.
34. R. E. Kopp (2013). Interpreting the noisy geological record of ancient sea level changes: What can the Quaternary tell us about ice sheet stability? Lamont-Doherty Biology & Paleo Environment Seminar, Palisades, NY, April 2013.
35. R. E. Kopp (2013). Interpreting the noisy geological record of ancient sea level changes: What can the Quaternary tell us about ice sheet stability? NASA Goddard Institute for Space Studies Seminar, New York, NY, May 2013.
36. R. E. Kopp, S. M. Hsiang, and M. Oppenheimer (2013). Empirically calibrating damage functions and considering stochasticity when integrated assessment models are used as decision tools. Impacts World 2013, Potsdam, Germany, May 2013, doi:10.2312/pik.2013.001.

37. R. E. Kopp (2013). Uncertainties and risks of regional sea-level change: Past, present and future. Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, July 2013. https://emf.stanford.edu/cciia-2013-agendas-and-presentations
38. R. E. Kopp (2013). Regionalizing sea-level rise projections for urban planning. DIMCS/CCIADA Workshop on Urban Planning for Climate Events, Piscataway, NJ, September 2013. http://dimacs.rutgers.edu/Workshops/Urban/Slides/SeaLevelTalk.pdf
39. R. E. Kopp (2013). Frontiers in the assessment of climate change damages for benefit-cost analysis. Institute for Policy Integrity Fifth Annual Cost-Benefit Analysis and Issue Advocacy Workshop, New York, NY, October 2013. https://www.youtube.com/watch?v=SA13Ug3tkvk
40. R. E. Kopp (2013). Local and global impacts of climate change and extreme weather. Schwartz Center for Economic Policy Analysis, New School for Social Research, New York, NY, November 2013. http://youtu.be/R8NXVVP4SWQ
41. R. E. Kopp, C. C. Hay and J. X. Mitrovica (2013). Quantifying uncertainty in the level, rates and sources of interglacial sea-level change. American Geophysical Union Fall Meeting, San Francisco, CA, December 2013.
42. R. E. Kopp, C. C. Hay, E. Morrow, J. X. Mitrovica, B. P. Horton, and A. C. Kemp (2013). Sea-level variability in tide-gauge and geological records: An empirical Bayesian analysis. American Geophysical Union Fall Meeting, San Francisco, CA, December 2013.
43. R. E. Kopp (2014). Uncertainties and risks of regional sea-level change: Past, present and future. Pardee Center for the Longer-Range Future, Boston University, Boston, MA, February 2014. http://goo.gl/ZTyNFb
44. R. E. Kopp (2014). Uncertainties and risks of regional sea-level change: Past, present and future. Department of Earth Sciences, University of New Hampshire, Durham, NH, February 2014.
45. R. E. Kopp (2014). Probabilistic projections of future sea-level change and their implications for flood risk management. Eastern Coastal Infrastructure and Climate Change: Science, Impacts, Planning, and Response, Crystal City, VA, February 2014.
46. R. E. Kopp (2014). A pathway toward characterizing climate risks across space and time: An example of sea-level change and flood risk. Resources for the Future First Wednesday Seminar: Limits to Securitization – the Future of Insurance, Washington, DC, June 2014. http://goo.gl/jQsqFw
47. T. Houser, S. M. Hsiang, and R. E. Kopp (2014). A Discussion of the Independent Risk Assessment for *Risky Business: The Economic Risks of Climate Change in the United States*. Resources for the Future, Washington, DC, June 2014. http://goo.gl/4lGbOl
48. R. E. Kopp (2014). *American Climate Prospectus: Economic Risks in the United States*. Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, July 2014.
49. R. E. Kopp (2014). Sea-level rise and extreme events: Insights from the *American Climate Prospectus*. Energy Modeling Forum Workshop on Climate Change Impacts and Integrated Assessment, Snowmass, CO, July 2014. https://emf.stanford.edu/events/climate-change-impacts-integrated-assessment-xx-cciia
50. R. E. Kopp (2014). Assessing the economic risks of extreme weather in a changing climate. Climate Engineering Conference 2014, Berlin, August 2014. https://emf.stanford.edu/events/climate-change-impacts-integrated-assessment-xx-cciia
51. R. E. Kopp (2014). Panelist, Systemic Risk in Global Agriculture Princeton-Columbia Joint Conference. Princeton University, Princeton, NJ, October 2014. http://risk.princeton.edu/archive.html#agconf
52. R. E. Kopp (2014). Panelist, conference on the Economic and Financial Risks of a Changing Climate. Resources for the Future, Washington, DC, November 2014.
53. R. E. Kopp (2014). The Risk Perspective of the *American Climate Prospectus*. European Commission Joint Research Council Global Risk Conference, Seville, Spain, December 2014. http://goo.gl/P0A4sQ
54. R. E. Kopp (2014). Empirically calibrated damages: Insights from the *American Climate Prospectus*. Princeton Environmental Institute Climate Futures Initiative Integrated Assessment Modeling Workshop, Princeton, NJ, December 2014.

55. R. Kopp, T. Houser, S. Hsiang, K. Larsen, A. Jina, M. Delgado, R. Muir-Wood, D. J. Rasmussen, J. Rising, M. Mastrandrea, and P. Wilson (2014). Climate risks over space and time: Insights from the *American Climate Prospectus*. Society for Risk Analysis Annual Meeting, Denver, CO, December 2014.
56. C. C. Hay, E. Morrow, R. Kopp, and J. X. Mitrovica (2014). A Revised Estimate of 20th Century Global Mean Sea Level. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
57. K. Gordon, T. Houser, R. Kopp, S. Hsiang, K. Larsen, A. Jina, M. Delgado, R. Muir-Wood, D. J. Rasmussen, J. Rising, M. Mastrandrea, and P. Wilson (2014). *Risky Business* and the *American Climate Prospectus*: Economic Risks of Climate Change in the United States. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
58. B. P. Horton, A. C. Kemp, and R. E Kopp (2014). Common Era Sea-Level Change. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
59. A. Jina, S. Hsiang, R. Kopp, D.J. Rasmussen, and J. Rising (2014). Putting climate impact estimates to work: the empirical approach of the *American Climate Prospectus*. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
60. R. E. Kopp, M. Delgado, R. M. Horton, T. Houser, C. M. Little, R. Muir-Wood, M. Oppenheimer, D. J. Rasmussen, R. H. Strauss, C. Tebaldi, and P. Wilson (2014). Probabilistic projections of future sea-level change and their implications for flood risk management: Insights from the *American Climate Prospectus*. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
61. J. X. Mitrovica, C. C. Hay, R. E. Kopp, and E. Morrow (2014). The Sea Level Fingerprints of Global Change. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014.
62. R. E. Kopp (2015). Uncertainties and risks of regional sea-level change: Past, present and future. University of Connecticut Marine Sciences Seminar, Groton, CT, January 2015.
63. R. E. Kopp (2015). Uncertainties and risks of regional sea-level change. FEMA Technical Mapping Advisory Council, Subcommittee on Future Conditions. Webinar, April 2015.
64. R. E. Kopp (2015). Panelist, New Economics of Coastal Climate Change Adaptation. Urban Coast Institute and Center for the Blue Economy, Washington, DC, April 2015.
65. R. E. Kopp (2015). Panelist, Next American Economy project. Roosevelt Institute, New York, NY, May 2015.
66. R. E. Kopp (2015). Piecing together sea-level change in the Quaternary and the Anthropocene. International Union for Quaternary Research Congress, Nagoya, Japan, July 2015.
67. R. E. Kopp (2015). Climate change: current status and future risks. Aspen Institute Program on the World Economy, Aspen, CO, August 2015.
68. R. E. Kopp (2015). Sea-level rise: Assessing the risks, estimating the costs. Energy Policy Institute at Chicago (EPIC) seminar, University of Chicago, Chicago, IL, September 2015. http://youtu.be/bagRtnY_Xm8
69. R. E. Kopp (2016). Uncertainties and risks of sea-level change: Past, present and future. Hong Kong University of Science and Technology, Hong Kong, January 2016.
70. R. E. Kopp, R. Shwom, G. Wagner, J. Yuan (2016). Tipping elements, tipping points, and economic catastrophes: The state of knowledge. Climate Damages and Tipping Points Workshop, Arizona State University, Phoenix, AZ, January 2016.
71. R. E. Kopp (2016). Treatment of uncertainty in climate change risk assessments. NAS Workshop on Methods for Characterizing Risk in Climate Change Assessments, Washington, DC, March 2016. http://goo.gl/azyHx3
72. R. E. Kopp (2016). Global sea-level change, past and future. Rising Seas & Extreme Events Symposium, University of Delaware, Newark, DE, April 2016.
73. R. E. Kopp (2016). Economic Risks of Climate Change: *An American Prospectus*, and the path to a global assessment. EPRI ENV-VISION, Washington, DC, May 2016.
74. R. E. Kopp (2016). Probabilistic sea-level rise projections for the Chesapeake Bay. Remote presentation to Chesapeake Bay Program Climate Resiliency Working Group, May 2016.

75. R. E. Kopp (2016). Assessing the risks of sea-level rise. Scripps Institution of Oceanography, La Jolla, CA, July 2016.
76. R. E. Kopp (2016). Assessing the risks of sea-level rise. Stanford University Department of Earth System Science, Stanford, CA, October 2016.
77. R. E. Kopp (2016). Regional sea-level projections: What drives uncertainty where? American Geophysical Union Fall Meeting, San Francisco, CA, December 2016.
78. R.E. Kopp (2017). Assessing the risks of sea-level rise. U.S. Naval Academy Oceanography Department, Annapolis, MD, January 2017.
79. R.E. Kopp (2017). Assessing the risks of sea-level rise. ExxonMobil, Clinton, NJ, February 2017.
80. R.E. Kopp (2017). Assessing the risks of sea-level rise. Rutgers University–Newark Department of Earth & Environmental Sciences, Newark, NJ, March 2017.
81. R.E. Kopp (2017). Challenges and opportunities for benefit-cost IAMs: Lessons from the National Academies' social cost of carbon project. Workshop on Climate Policy and Integrated Assessment Modelling, Princeton, NJ, March 2017.
82. R.E. Kopp (2017). Challenges of projecting local sea-level changes. American Physical Society March Meeting, New Orleans, LA, March 2017.
83. R.E. Kopp (2017). Inspecting the dice: The probabilistic current in sea-level rise projections. International WCRP/IOC Conference: Regional Sea Level Changes and Coastal Impacts, New York, NY, July 2017.
84. R.E. Kopp (2017). Coastal risks in an age of sea-level change. Montclair State University Sustainability Seminar Series, Montclair, NJ, October 2017.
85. R.E. Kopp (2017). Sea-level rise and coastal risk. National Academies of Sciences Division of Earth and Life Studies, Washington, DC, October 2017.
86. R.E. Kopp (2017). Current approaches to assessing risks of sea-level rise. Society for Risk Analysis Annual Meeting, Arlington, VA, December 2017.
87. R.E. Kopp (2017). The Climate Science Special Report: Rising Seas and Changing Oceans. American Geophysical Union Fall Meeting, New Orleans, LA, December 2017. https://youtu.be/fDJP5RgKkj4?t=43m37s
88. R.E. Kopp (2017). Probabilistic mapping of past and future sea-level change. American Geophysical Union Fall Meeting, New Orleans, LA, December 2017. https://youtu.be/3BFnCOBtCC4?t=1h1m30s
89. R.E. Kopp (2018). Coastal risks in an age of sea-level change. Roosevelt Institute Next American Economy Project Seminar, New York, NY, January 2018.
90. R.E. Kopp (2018). Coasts in times of sea-level rise. Yale School of Forestry & Environmental Studies, New Haven, CT, January 2018. https://youtu.be/GN3vE6pPRzY
91. R.E. Kopp (2018). Coasts in times of sea-level rise. Rutgers University-New Brunswick Chancellor's Colloquium, New Brunswick, NJ, February 2018.
92. R. E. Kopp (2018). Managing climate risk: Rising seas and coastal flooding as a case study. Princeton Science, Technology and Environmental Policy seminar, Princeton, NJ, March 2018.
93. R. E. Kopp (2019). Paleo sea level: Statistical approaches and implications for future change. Syracuse University Department of Earth Sciences, Syracuse, NY, April 2019.
94. R. E. Kopp (2019). Mapping sea-level change in time, space, and probability. New York Scientific Data Summit, New York, NY, June 2019.
95. R. E. Kopp (2019). Antarctic instability, uncertain sea-level rise, and implications for coastal flood risk. At What Point Managed Retreat?, New York, NY, June 2019.
96. R. E. Kopp (2019). Sea-level rise uncertainty. NAS Committee to Advise the USGCRP. Washington, DC, July 2019. (Remote presentation)
97. R. E. Kopp (2019). Sea-level rise and coastal adaptation. Graduate studio on design and the Green New Deal. Weitzman School of Design, University of Pennsylvania. Philadelphia, PA, Sept. 2019.

98. R. E. Kopp (2019). Coasts in times of sea-level rise. University of Texas Institute of Geophysics, Austin, TX, October 2019. (Remote presentation)
99. R. E. Kopp (2019). Climate change and Pacific island states. Executive Analytic Exchange on the Republics of Fiji, Kiribati, and Nauru, the Kingdom of Tonga, and Tuvalu, US Department of State. Washington, DC, November 2019.
100. R. E. Kopp (2019). Usable science for managing the risks of sea-level rise: A brief review. Workshop on WCRP Grand Challenge and Climate Services. Orléans, France, November 2019. (Remote presentation)
101. R. E. Kopp (2019). An update on sea level in AR6. WCRP Grand Challenge Meeting on Regional Sea-level Change and Coastal Impacts. Orléans, France, November 2019. (Remote presentation)
102. R. E. Kopp (2020). Linking climate science, economics, and Big Data to estimate climate change impacts and endogenous adaptation. NOAA Geophysical Fluid Dynamics Laboratory. Princeton, NJ, January 2020.
103. R. E. Kopp (2020). Usable science for managing the risks of sea-level rise. NASA Goddard Institute for Space Studies. New York, NY, February 2020.
104. R. E. Kopp (2020). Sea-level science on the frontier of usability. AAAS Annual Meeting. Seattle, WA, February 2020.
105. R. E. Kopp (2020). Assessing the risks of sea-level rise and coastal storms. Roosevelt Institute Next American Economy Project Seminar, New York, NY, March 2020.
106. R. E. Kopp (2020). High-end sea-level rise and deep uncertainty. WCRP High-End Sea-Level Workshop, Virtual, September 2020.
107. R. E. Kopp (2020). Usable science for managing the risks of sea-level rise. Geological Society of America Annual Meeting, Virtual, October 2020.
108. R. E. Kopp (2020). Linking climate science, economics, and Big Data to estimate climate change impacts and endogenous adaptation. Rutgers University Department of Physics, Virtual, November 2020.
109. R. E. Kopp (2021). Confronting Coastal Risk in an Age of Rising Sea Levels. Vassar College Pauline Newman '47 Distinguished Lecture in Science, Technology, and Society, Virtual, March 2021.
110. R. E. Kopp (2021). Challenges in sea-level projections: A perspective informed by IPCC AR6. WCRP/PALSEA/IAG Seminar, Virtual, March 2021.
111. R. E. Kopp (2021). Boundary objects and the communication of sea-level rise information. Climate Information for Adaptation Workshop, Caltech, Virtual, May 2021.
112. R. E. Kopp (2021). Usable sea-level projections. Scripps Polar Seminar, Scripps Institution of Oceanography, Virtual, May 2021.
113. R. E. Kopp (2021). Land grant lessons for Anthropocene universities: Toward a national Climate Grant University program. National Extension Climate Initiative seminar, Virtual, July 2021.
114. R. E. Kopp, T. L. Edwards, and G. G. Garner (2021). Emulation and integration in ocean, cryosphere, and sea level projections. CONSTRAIN online workshop: The role of climate emulators in the AR6 assessment, Virtual, September 2021.
115. R. E. Kopp (2021). Usable sea-level projections. Department of Environmental Sciences Seminar, Rutgers University, Virtual, September 2021.
116. R. E. Kopp (2021). Confronting Coastal Risk in an Age of Sea-Level Rise. Rockefeller University Insight Lecture, Virtual, November 2021.
117. R. E. Kopp (2021). Usable sea-level projections for coastal climate risk management. School of Marine Science & Policy Colloquium, University of Delaware, Virtual, December 2021.
118. R. E. Kopp (2022). Revisiting the Social Cost of Carbon. ASSA Annual Meeting, Virtual, January 2022.
119. R. E. Kopp (2022). Sea-Level Projections. ASCE Structural Engineering Institute Climate Impacts Workshop, Virtual, March 2022.
120. R. E. Kopp (2022). Sea level rise and coastal flooding. FEMA Region 2 Climate Adaptation Initiative Committee, Virtual, May 2022.

121. R. E. Kopp (2022). Sea Level Rise: the IPCC Assessment. EPRI 25th Climate and Energy Symposium, Virtual, May 2022.
122. R. E. Kopp (2022). Sea Level Rise Projections: the IPCC Assessment, Interagency Scenarios, and Implications for NYC. New York City Climate Science and Projections Workshop, Virtual, June 2022.
123. R. E. Kopp (2022). Uncertainty and ambiguity in future sea-level rise. IMSI Workshop: Economic Impacts of Climate Change, Virtual, December 2022. https://www.imsi.institute/videos/communicating-future-sea-level-rise-uncertainty-and-ambiguity-to-assessment-users/
124. R. E. Kopp (2023). Sea level change. PROTECT webinar: IPCC Projections & Planning for Sea Level Rise Risk, Virtual, January 2023. https://youtu.be/yoHCInbj2ok
125. R. E. Kopp (2023). Respondent, Overview on Tipping Points. National Academies Workshop on Tipping Points, Cascading Impacts, and Interacting Risks in the Earth System , Virtual, January 2023. https://youtu.be/7UGyqVQRp2A
126. R. E. Kopp (2023). Universities in the climate crisis: lessons from the land-grant experience. Cornell Atkinson Center for Sustainability, Cornell University, Virtual, March 2023. https://youtu.be/ZFfDLNxtCwE
127. R. E. Kopp (2023). Panelist, The Role of the NSF in Climate Intervention Research. National Academies Workshop on Climate Intervention in an Earth Systems Science Framework , Virtual, June 2023.
128. R. E. Kopp (2023). Communicating future sea-level rise uncertainty and ambiguity to assessment users. NOAA CO-OPS Sea-Level Symposium, Virtual, June 2023.
129. R. E. Kopp (2023). Sea level change. High Meadows Environmental Institute, Princeton University, Princeton, NJ, November 2023.
130. R. E. Kopp (2023). Preparing for uncertainty: Insights from IPCC AR6. Salata Institute for Climate and Sustainability, Harvard University, Cambridge, MA, November 2023.
131. R. E. Kopp (2023). Future sea-level rise in the Gulf of Guinea: Insights from IPCC AR6. Salata Institute for Climate and Sustainability, Harvard University, Cambridge, MA, November 2023.
132. R. E. Kopp (2023). Adapting to Uncertainty: The Science, Economics and Practice of Sea-Level Rise. Department of Geosciences, Princeton University, Princeton, NJ, November 2023.
133. R. E. Kopp (2023). Toward Usable Climate Economics for Building a Resilient Planet. American Geophysical Union Fall Meeting, Virtual, December 2023.
134. R. E. Kopp (2024). Freshwater Fluxes and Sea-Level Rise, Past and Future. Anomalous freshwater forcing for climate models workshop, Virtual, February 2024. https://drive.google.com/file/d/1DgcOYqHCHfEIoxmDr-FUgMDi2OhIZ1kI/view?usp=sharing
135. R. E. Kopp (2024). Adapting to Uncertainty: Managing risk amid rising seas. Department of Industrial and Systems Engineering, Rutgers University, New Brunswick, NJ, March 2024.
136. R. E. Kopp (2024). Loss & damage, attribution science, and climate economics. Loss and Damage Financing: Science, Policy and Practice, Princeton University High Meadows Environmental Institute, Princeton, NJ, April 2024.
137. R. E. Kopp (2024). Sea-level rise and coastal adaptation tradeoffs – from global to local scales. Community Surface Dynamics Modeling System 2024 Annual Meeting, Montclair, NJ, May 2024. https://youtu.be/RNqNlkFd9qE?si=Vf8G3-YxEWzQ7xHQ
138. R. E. Kopp (2024). Panelist, Higher Education Transformative Climate Action. National Academies Climate Crossroads Summit 2024, Washington, DC, July 2024. https://youtu.be/psJmEUS3OHA?si=w7MoId-oFwPnTL9X
139. R. E. Kopp (2024). Adaptive climate decision making in real-world governance systems. NATO Advanced Research Workshop: Unravelling the Cyber-Physical-Social Infrastructure Climate Change Nexus, Washington, DC, July 2024.
140. R. E. Kopp (2024). Climate impacts and adaptation need political economists. Political Economy of Climate and the Environment (PECE) Conference, University of Pennsylvania, Philadelphia, PA, September 2024.

141. R. E. Kopp (2024). Sea level change: an IPCC perspective. Flowerree Symposium, Tulane University, New Orleans, LA, October 2024.
142. R. E. Kopp (2024). Can climate tipping points be usefully defined? Navigating Tipping Points: Definitions Implications for Climate Science, World Climate Research Programme Webinar, Virtual, October 2024. https://youtu.be/i-BS2ush6S4?si=5Sqhi8SQPGFR9D1M
143. R. E. Kopp (2024). Sea-level rise projections as a case study of science integration and translation. Workshop on Usable Climate Risk Science, Jet Propulsion Laboratory, Pasadena, CA, and Virtual, October 2024.
144. R. E. Kopp (2024). Co-production of coastal climate research in a sprawling urban megaregion: Insights from the Megalopolitan Coastal Transformation Hub (MACH). Cascadia CoPe Hub Webinar, Virtual, November 2024. https://media.oregonstate.edu/media/t/1_w1f9ix0c
145. R. E. Kopp, M. Tolstoy, T. Crowl, S. Han, P. Dorhout, M. Krosby, R. Teutonico, P. Lippel, J. Newman, and E. Harvey (2024). Higher education can accelerate societal climate action. American Geophysical Union Fall Meeting, Washington, DC, December 2024.
146. R. E. Kopp (2025). 'Tipping points' confuse and can distract from urgent climate action. International Cryosphere Climate Initiative (ICCI) webinar. Virtual, January 2025.
147. R. E. Kopp (2025). 'Tipping points' confuse and can distract from urgent climate action. MIT Center for Sustainability Science and Strategy 47th Global Change Forum, Cambridge, MA, March 2025.

Testimony and Briefings

1. "The Impacts of Climate Change on New Jersey's Coasts," New Jersey State Assembly Committee on Environment and Solid Waste, Trenton, NJ, March 22, 2018.
2. "The State of Climate Science and Why It Matters," U.S. House of Representatives Committee on Science, Space, and Technology, Washington, DC, February 13, 2019. https://youtu.be/WYSfjDSxKK0
3. Joint Hearing of the New Jersey State Senate Environment and Energy Committee and the General Assembly Environment and Solid Waste Committee, Trenton, NJ, April 25, 2019.
4. "Future Climate: What we know, what we don't," Science on the Hill panel convened by *Scientific American* and the National Academies of Science, Engineering, and Medicine, Virtual, June 18, 2020. https://bit.ly/2YbqNPi
5. "Briefing on the IPCC's Sixth Assessment Report," U.S. House of Representatives Select Committee on the Climate Crisis, Virtual, September 1, 2021. https://youtu.be/jJhCQpGvTfA
6. "Road to Glasgow: Understanding the IPCC Report," U.S. Congressional briefing convened by the ICCF Group, Virtual, September 29, 2021.
7. Panelist, White House Forum on Campus and Community-Scale Climate Change Solutions, Washington, DC, March 8, 2023. https://youtu.be/tVVds9zcloU?t=3613
8. "Potential Surprises," Foundational climate change knowledge panel, National Academies Climate Crossroads Congressional Fellowship, Virtual, January 24, 2024.

Selected Public Presentations

1. "Echoes of Ancient Times: Climate Change in Earth's Past and Our Future", Liz Levin & Company Leadership Salon Series, Boston, MA, February 2008.
2. "Melting Ice Sheets in Earth's Past and Our Future", Philadelphia Geological Society, Philadelphia, PA, January 2010.
3. Panelist on "Jobs and the Environment," U.S. EPA/Rutgers University conference on "Greening New Jersey Communities from the Ground Up," New Brunswick, NJ, October 2011.
4. "Solar Energy in the Global Energy System: Flows, Needs, Status, and Drivers," Siemens Solar Exchange East 2012, Piscataway, NJ, May 2012.
5. Panelist, Rutgers University Earth Day Film Festival, New Brunswick, NJ, April 2013.
6. Panelist, Putting a Price on Carbon: The Social Cost of Carbon and U.S. Climate Policy, Bard Center of Environmental Policy and Pace Law School, White Plains, NY, May 2013.

7. "Rising Tide: what can the past tell us about future sea-level change?", Rutgers University Geology Museum Open House, New Brunswick, NJ, January 2014.
8. Panelist, Environmental New Jersey and NJPIRG Student Chapter Solar Panel Roundtable, New Brunswick, NJ, December 2014.
9. Panelist, Climate Leadership Conference, Arlington, VA, February 2015.
10. "Economic Risks of Climate change: An American Prospectus," North Jersey Public Policy Network talk, Hackensack, NJ, September 2015.
11. "Food for Tomorrow: Risks of a Changing Climate," *New York Times* Food for Tomorrow Conference, Stone Barns, NY, October 2015. https://youtu.be/8n6eYsQ4e08.
12. Panelist, Conference on Sustainable, Responsible, Impact Investing. Colorado Springs, CO, November 2015.
13. Panelist, NJPIRG New Jersey Solar Summit, New Brunswick, NJ, December 2015.
14. "Climate Change: Economic risks to Maryland", NAIOP Maryland Commercial Real Estate Policy Conference, Towson, MD, December 2015.
15. "Coasts in Times of Sea-Level Rise", Rutgers University Institute of Earth, Ocean, and Atmospheric Sciences public lecture, New Brunswick, NJ, Oct. 2016. https://youtu.be/4pcnkokIXpQ
16. "Coasts in Times of Sea-Level Rise," HBCU Climate Change Conference, New Orleans, LA, March 2017.
17. Panelist, "Kim Stanley Robinson's *New York 2140*", Rutgers University, New Brunswick, NJ, April 2017. https://youtu.be/MxpzGg022do
18. "Probabilities and deep uncertainties in sea-level rise projections," Water Utility Climate Alliance webinar, May 2017.
19. "The Shore in an age of sea-level rise," C-Change Conversations, Princeton, NJ, June 2017.
20. "Frontiers in sea-level rise projections: Local effects, probabilities, and deep uncertainties," Canadian Climate Forum webinar on sea-level rise, June 2017.
21. Panelist, "What Markets Can Learn from Modeling Value at Risk from Climate Change", CFA Society of New York conference "Climate Change is a Given – How to Drive Value and Manage Risk," October 2017.
22. "New Jersey in a Warming World: What's At Stake," New Jersey Mayors' Climate Summit, New Brunswick, NJ, February 3, 2018.
23. "Rising Seas in California," testimony to California Ocean Protection Council, Sacramento, CA, March 14, 2018. https://goo.gl/vyybU5
24. "New Jersey in a Warming World: What's At Stake," Bloustein Trenton Public Policy Lecture, Trenton, NJ, April 10, 2018.
25. "Climate Risk in New Jersey: A Scientific Update," New Jersey Coastal Resilience Summit: Charting a Course for the Future, Long Branch, NJ, October 8, 2018.
26. "Managing Coastal Risk in an Age of Sea-Level Rise," Princeton Plasma Physics Lab Science on Saturday, Princeton, NJ, March 2, 2019. https://www.pppl.gov/events/science-saturday-managing-coastal-risk-age-sea-level-rise
27. "Managing coastal risk in an age of sea-level rise," Syracuse University Environment, Sustainability and Policy and Geoffrey O. Seltzer Lecture, Syracuse, NY, April 15, 2019.
28. "Understanding and managing the risks of climate change," Panel on Climate Disasters and Green New Deal, New School for Social Research, New York, NY, September 3, 2019. https://youtu.be/wBjgfRy1ANE?t=2527
29. "Understanding and managing the risks of climate change," A Panel Discussion on Sustainability and Climate Change: Global Aspects of Rutgers Research and Engagement, Rutgers University, New Brunswick, NJ, December 20, 2019.
30. "Sea Level Rise in New Jersey," New Jersey Climate Change Resource Center Summer Climate Academy, Virtual, June 3, 2020. https://youtu.be/xgN71gsFQwQ

31. "Greenhouse Gas Emissions and Future Sea-Level Rise," Southeast Florida's 2019 Unified Sea Level Projection: The Foundations, Virtual, June 18, 2020.
32. "Understanding and managing the risks of climate change," Wooton High School Green People, Virtual, November 6, 2020.
33. "Confronting Coastal Risk in an Age of Rising Sea Levels," Wagner Free Institute of Science of Philadelphia, Virtual, December 16, 2020. https://youtu.be/QXGAfTjtqfE
34. "The Cost of Climate Change," New Jersey Climate Change Resource Center Summer Academy, Virtual, June 24, 2021. https://youtu.be/GlTwun2v1u0
35. "Confronting Coastal Risk in an Age of Rising Sea Levels." Seminole State College, Virtual, October 20, 2021. https://youtu.be/QXGAfTjtqfE
36. "Climate, Technology, and Democracy." Trenton Computing Festival, Virtual, March 19, 2022. https://youtu.be/eLS0Fhr7hk0?si=0vKQpkHumTHaQ-nr
37. Introductory Remarks to the Climate Justice Track, Inclusive Impact Summit, Rutgers Institute for Corporate Social Innovation, Virtual, March 30, 2022. https://youtu.be/UgSel3LDO-o
38. Panelist, "High Water Line: Presenting the Science," Princeton High Meadows Environmental Institute, Virtual, April 13, 2022. https://environment.princeton.edu/videos/hwl-presenting-the-science/
39. Panelist, "Climate Conversations: Sea Level Rise," National Academies of Sciences, Engineering, and Medicine webinar, April 21, 2022. https://youtu.be/lzwCdsQ2Rjo
40. "The Cost of Climate Change," Rutgers Cooperative Extension 'Earth Day, Every Day' webinar, April 25, 2022. https://youtu.be/43p72ze6vRM
41. "Sea level change." UNFCCC COP Side Event: IPCC Projections & Planning for Sea Level Rise Risk, Hybrid, September 20, 2022.
42. "Engineering Sustainability and Resilience", Dean's Distinguished Lecture, National Engineering Week 2023, Rutgers School of Engineering, February 24, 2023.
43. "Sea-Level Rise in New Jersey," Association of New Jersey Environmental Commissions (ANJEC) webinar, May 10, 2023.
44. Panelist, "Accelerating Climate Resilience Within the Changing Federal Landscape", Sustaining Innovation in New Jersey Climate Policy: Past, Present and Future, Rutgers University, Piscataway, NJ, March 21, 2025. https://youtu.be/R1dAefRfE7M?si=UiLkln6pSYaemJb7
45. Panelist, "Beyond the Threshold: The Urgency of Climate Change," Bulletin of the Atomic Scientists, Virtual, April 17, 2025. https://youtu.be/M72Sfu4B0WI?si=DZ9ATIc2lWYqSRwZ
46. Panelist, "Communicating Climate Tipping Points," Center for Climate Systems Research in the Columbia Climate School, NASA Goddard Institute for Space Studies, New York, NY, May 6, 2025.

Selected Media Appearances

1. Featured in: Maryland Sea Grant (2013), Forecasting sea level rise for Maryland. July 2013. http://youtu.be/RCc3C89qxOM.
2. "The economic impact of climate change," *Radio Times with Marty Moss-Coane*, WHYY, July 1, 2014. http://goo.gl/DfPnc9.
3. "Sudden heat," *Radio Ecoshock*, June 24, 2015. https://goo.gl/e3TWX8.
4. Featured in: New Jersey Climate Adaptation Alliance (2015), Climate Change and the Jersey Shore. November 2015. https://youtu.be/zZn5Xh5FD88
5. "New report blames most rising seas on humans — but this scientist remains hopeful," *PRI's The World*, February 23, 2016. http://goo.gl/RuhXl3
6. "Rising sea levels," *Radio Times with Marty Moss-Coane*, WHYY, February 29, 2016. http://goo.gl/zWLUsW
7. "The Climate Is Changing while Politics Stays the Same," *To The Point*, KCRW, April 4, 2016. http://goo.gl/KGfk2Z

8. "Episode 45: Climate Science Part 3 – Paleoclimate," Energy Transition Show, June 14, 2017. http://xenetwork.org/ets/episodes/episode-45-paleoclimate/
9. "Do we need to be 'scared straight' on climate change?," *To The Point*, KCRW, July 14, 2017. https://goo.gl/C3eBZF
10. "Rising Sea Levels Put Coastal Cities At Risk," *The Real News*, July 20, 2017. https://goo.gl/CPdo3U
11. "Will the Federal Climate Change Report Alter the Debate?," Knowledge@Wharton, November 10, 2017. http://knowledge.wharton.upenn.edu/article/new-federal-climate-change-report/
12. "Blunt assessment from climate scientist Robert Kopp: NJ's coastline could disappear quickly," interview in *Newark Star-Ledger*, November 13, 2017. https://goo.gl/MCYLNA
13. "Dr. Robert Kopp on the Latest Climate Report," Planet Watch Radio, January 8, 2018. http://planetwatchradio.com/dr-robert-kopp-latest-climate-report-pw006/
14. "Climate change: the talks, the costs, and the consequences," *Radio Times with Mary Cummings-Jordan*, WHYY, November 30, 2018. https://goo.gl/H2Q4oa
15. "Where Will Climate Change Impact The US? Everywhere," *Science Friday*, November 30, 2018. https://goo.gl/JVgHNp
16. "Off Topic: 'Fact has become a political issue'," interview in *E&E News*, November 30, 2018. http://bit.ly/2QtJ9px
17. "Demystifying Sea Level Rise, with Robert Kopp of Rutgers University," *Resources Radio*, January 24, 2019. https://bit.ly/2Ibxmvp
18. "As new report warns of rapidly rising seas, officials push for action on climate change," *NJTV News*, December 20, 2019. https://bit.ly/35PRhXP
19. "Sea Level and Social Cost of Carbon with Bob Kopp," *Climate Now*, April 27, 2021. https://bit.ly/3b5iria
20. "From Fires to Floods to Sea Level Rise, Human-Induced Climate Crisis Is Severely Disrupting Earth," *Democracy Now*, August 9, 2021. https://youtu.be/NJz-kn_wcLU
21. "The new U.N. climate report," *Radio Times*, WHYY, August 11, 2021. https://bit.ly/3CJi5ds
22. *The Lurie Daniel Favors Show*, SiriusXM 126 Urban View, August 12, 2021.
23. "The future of our oceans," *A Public Affair*, WORT, August 27, 2021. https://bit.ly/2WvJVca
24. "IPCC Report," *Top of Mind with Julie Rose*, BYU Radio, September 8, 2021. https://bit.ly/3nghmuU
25. "Making Sense of the IPCC Report," *Energy 360°*, Center for Strategic and International Studies, October 11, 2021. https://apple.co/2D718fr
26. Panelist, "New Jersey Decides 2021: Election Conversations – Climate change and clean energy," NJ Spotlight, October 12, 2021. https://bit.ly/3BDSQZ1
27. Guest, Deep Convection: A Podcast about Climate Science, and Life, Season 4: Episode 3, August 28, 2023. https://deep-convection.org/2023/08/28/episode-3-bob-kopp/

Grants

1. PI for "Integrated Climate/Economic Modeling for Domestic and International Regulatory Analysis", Pacific Northwest National Laboratory, 11/1/2011–9/30/2014.
2. PI for "Collaborative Research: P2C2 – Statistical estimation of past ice sheet volumes from paleo-sea level records," National Science Foundation ARC-1203415, 7/1/2012–6/31/2016.
3. PI for "Development of historically-calibrated sea-level rise projections for risk management along the New Jersey shore," New Jersey Sea Grant Consortium Project #6410-0012, 2/1/2014–1/31/2017.
4. Co-PI for "Collaborative Research: EaSM-3: Regional decadal predictions of coupled climate-human systems," National Science Foundation OCE-1419584, 9/1/2014–8/31/2018.
5. Co-PI for "Collaborative Research: Sea-Level Variability in the Common Era," National Science Foundation OCE-1458904, 4/1/2015–3/31/2018.
6. PI for "Global Climate Prospectus: Physical Projections," Rhodium Group, 10/15/2015–6/30/2026.

7. PI for "Integrated Assessment of Climate Change, Tipping Points and Economic Catastrophes: A Scoping Analysis", Environmental Defense Fund, 11/1/2015–12/31/2016.
8. Co-PI for "Communicating about flood risks to real estate market segments in New Jersey", New Jersey Sea Grant, 2/1/2016–1/31/2019.
9. PI for "NRT: Coastal Climate Risk & Resilience," National Science Foundation DGE-1633557, 9/1/2016–8/31/2022.
10. Co-PI for "Investigating Changing Flood Risks for the U.S. Atlantic Coast," Community Foundation of New Jersey, 9/1/2016–8/31/2018.
11. PI for "Collaborative Research: P2C2 – Reconstructing rates and sources of sea-level change over the last ~ 150 thousand years from a new coral database," National Science Foundation OCE-1702587, 6/15/2017–11/31/2020.
12. PI for "Collaborative Research: PREEVENTS Track 2: Thresholds and envelopes of rapid ice-sheet retreat and sea-level rise: reducing uncertainty in coastal flood hazards," National Science Foundation ICER-1663807, 8/1/2017–7/31/2022.
13. PI for "Sea Level Change Science Team: Improving sea level projection and risk analysis linking physics & observations," National Aeronautics and Space Administration 80NSSC17K0698 (subaward from the University of California, Irvine), 9/19/2017–9/30/2021.
14. PI for "Collaborative Research: P2C2 – Connecting Common Era climate and sea level variability along the Eastern North American coastline," National Science Foundation OCE-1804999, 6/1/2018–5/31/2021.
15. PI for "Collaborative Research: Multi-Proxy Sea-Level Reconstructions And Projections In The Middle Pacific Ocean," National Science Foundation OCE-1831450, 6/1/2018–5/31/2021.
16. PI for "Collaborative Research: How Robust Are Common-Era Sea-Level Reconstructions?," National Science Foundation OCE-2002437, 6/1/2020–5/31/2023.
17. PI for "Integrating NASA Sea-Level Science into Usable Sea-Level Projections for Coastal Risk Assessment and Resilience Action," National Aeronautics and Space Administration (subaward from NASA JPL, task 105393.509496.02.08.13.31), 8/1/2020–7/31/2027.
18. PI for "Improved Integrated Assessment of Regional Sea Level Rise and Risk," National Aeronautics and Space Administration 80NSSC20K1724 (subaward from NASA GISS) , 8/20/2020–8/19/2024.
19. PI for "Common Era Sea-Level Budgets," Earth Observatory of Singapore, 12/1/2020–11/30/2023.
20. PI for "Large-scale CoPe: Megalopolitan Coastal Transformation Hub (MACH): Researching complex interactions between climate hazards and communities to inform governance of coastal risk," National Science Foundation ICER-2103754, 8/1/2021–7/31/2026.
21. Co-PI for "Prioritizing Hazard Mitigation Investments for Equitable and Efficient Adaptation of Coastal Residential Communities," New Jersey Sea Grant, 2/1/2022–1/31/2024.
22. PI for "EAR-Climate: Catalytic: A Modern Spatio-Temporal Hierarchical Modeling Framework for Paleo-Environmental Data (PaleoSTeHM)," National Science Foundation EAR-2148265, 9/1/2022–8/31/2025.
23. Co-PI for "EAGER: Federating HPC and cloud resources for sea-level rise modeling and adaptation," National Science Foundation 2336296, 4/2024–44/2026.
24. PI for

Students and Postdocs

Graduate Advisees/Co-advisees

1. Erica Ashe, Rutgers University, Ph.D. '18 in Statistics and Biostatistics (2013-2018); now teacher at University Neighborhood High School
2. Maya Buchanan, Princeton University, Ph.D. '17 in Public Policy (2014-2017); now Assistant Vice President, Climate, Resilience, and Sustainability at WSP USA
3. D. J. Rasmussen, Princeton University, Ph.D. '20 in Public Policy (2015-2020); now Principal Owner at Degree Day LLC

4. Kristen Joyse, Rutgers University, Ph.D. ’22 in Earth & Planetary Sciences and Coastal Climate Risk & Resilience (2016-2022); now Geomorphologist at Alluvium Consulting Australia
5. Laura Geronimo, Rutgers University, Ph.D. ’24 in Planning & Public Policy and Coastal Climate Risk & Resilience (2019-2024); now Knauss Sea Grant Fellow at NOAA
6. Diana Apoznanski, Rutgers University, Ph.D. candidate in Atmospheric Sciences and Coastal Climate Risk & Resilience (2022-)
7. Daniel Blanco, Rutgers University, Ph.D. candidate in Atmospheric Sciences and Coastal Climate Risk & Resilience (2022-)

Committee member for

1. Ronidell Baluyot, Rutgers University, M.S. ’13 in Geological Sciences (2012-2013)
2. Shankar Chandramowli, Rutgers University, Ph.D. ’15 in Public Policy (2013-2015)
3. Joseph Majkut, Princeton University, Ph.D. ’14 in Atmosphere & Ocean Sciences (2014)
4. Chris Johnson, Rutgers University, Ph.D. ’19 in Geological Sciences (2018-2019)
5. Jennifer Walker, Rutgers University, Ph.D. ’19 in Oceanography (2017-2019)
6. Megan Lickley, MIT, Ph.D. ’20 in Earth & Planetary Sciences (2018-2020)
7. Ian Bolliger, UC-Berkeley, Ph.D. ’20 in Energy & Resources Group (2019-2020)
8. John Schmelz, Rutgers University, Ph.D. ’21 in Earth & Planetary Sciences (2019-2021)
9. Ashlyn Spector, Rutgers University, M.S. ’22 in Earth & Planetary Sciences (2020-2022)
10. Christopher Geoga, Rutgers University, Ph.D. ’23 in Statistics (2022-2023)
11. Joseph Lockwood, Princeton University, Ph.D. ’24 in Geosciences (2021-2024)
12. Grainne O’Neill, Rutgers University, Ph.D. candidate in Atmospheric Sciences (2021-2024)
13. Sarah Tannenbaum, Rutgers University, Ph.D. candidate in Atmospheric Sciences (2020-)
14. William Coronel, Tulane University, Ph.D. candidate in River-Coastal Science and Engineering (2023-)
15. Alauddian Al Azad, Stevens Institute of Technology, Ph.D. candidate in Coastal Engineering (2024-)
16. Nuzhat Fatema, Rutgers University, Ph.D. candidate in Geography (2025-)

External reviewer for

1. Robert Bierkandt, Universität Potsdam, Dr. rer. nat. ’16 in Physics
2. Ethan Coffel, Columbia University, Ph.D. ’18 in Earth & Environmental Sciences

Student projects supervised

1. Sonia Tikoo, California Institute of Technology, B.S. ’08 in Geobiology (research project, 2006-2007)
2. Rachel Barr, Princeton University, Ph.D. candidate in Public Policy (independent study, 2012)
3. Corie Hlavaty, Rutgers University, B.S. ’13 in Geological Sciences (senior thesis, 2012-2013)
4. Kinan Tadmori, Rutgers University, B.S. ’15 in Biological Sciences/Environmental Policy (research project, 2012-2013)
5. Andrew Wang, Rutgers University, B.S. ’13 in Mechanical Engineering (research project, 2012-2013)
6. Zeal Shah, Rutgers University, B.S. ’15 in Mechanical Engineering (research project, 2013-2014)
7. Emily Zee, Rutgers University, B.S. ’16 in Mechanical Engineering (research project, 2013-2014)
8. Rachel DiSciullo, Rutgers University, B.S. ’17 in Mechanical Engineering (research project, 2015-2016)
9. Christina Williamson, Pomona University (summer undergraduate research experience, 2016)

Student projects co-advised

1. Jean Liu, University of Toronto, M.S. '13 in Earth Sciences (2012-2013)
2. Eric Morrow, Harvard University, Ph.D. '14 in Earth & Planetary Sciences (2012-2014)
3. Kendra McKoy, Rutgers University, M.S. candidate in Geological Sciences (2012-2015)
4. Cuong Tran, Rutgers University, Ph.D. '18 in Computer Science (2013-2015)
5. Chintan Dalal, Rutgers University, Ph.D. '17 in Computer Science (2013-2016)

Postdoctoral mentees

1. Eric Morrow, Rutgers University (2014-2015); now Managing Director, Data Science & AI at BMO Financial Group
2. Carling Hay, Harvard University (2012-2017)/Rutgers University (2014-2017); now Head of Research and Product Development at ICE Climate
3. Jiacan Yuan, Rutgers University (2015-2018); now tenure-track faculty at Fudan University
4. Andra (Reed) Garner, Rutgers University (2016-2018); now tenured faculty at Rowan University
5. Gregory Garner, Rutgers University (2018-2019); now Senior Spatial Statistician at Regrow Ag
6. Daniel Gilford, Rutgers University (2018-2021); now climate scientist at Climate Central
7. Dawei Li, Rutgers University (2018-2019); now tenure-track faculty at Shanghai Jiao Tong University
8. Laura Reynolds, Rutgers University (2018-2020); now tenure-track faculty at Worcester State
9. Erica Ashe, Rutgers University (2018-2021); now teacher at University Neighborhood High School
10. Meredith Fish, Rutgers University (2020-2021); now Lead Data Scientist (Climate Analytics) at McKinsey & Company
11. D. J. Rasmussen, Princeton University (2020-2021); now Principal Owner at Degree Day LLC
12. Jennifer Walker, Rutgers University (2019-2022); now tenure-track faculty at Rowan University
13. Robert Fofrich, Rutgers University (2022); now Presidential Postdoc at the University of California
14. Yucheng Lin, Rutgers University (2023-2024); now Research Scientist at CSIRO
15. Praveen Kumar, Rutgers University (2022-)

Teaching

Rutgers University

- *01:460:111 Solving the Climate Crisis*, fall 2025
- *01:460:203 Building and Maintaining a Habitable Planet*, fall 2013–2016, spring 2020–2021, spring 2023
- *16:460:571 / 16:107:571 / 34:970:663 Climate Change Risk Analysis*, spring 2016, 2021 (co-taught with Prof. Enrique Curchitser); spring 2023
- *16:218:601/16:960:691 Statistics of the Earth System*, fall 2018 (co-taught with Prof. Michael Stein)
- *16:218:502 Transdisciplinary Perspectives on Coastal Climate Risk and Resilience*, fall 2018 (co-taught with Dr. Carrie Ferraro)
- *33:833:640:02 Policy Practicum: Opportunities to Incorporate the Social Cost of Carbon into New Jersey State level policies*, spring 2018 (co-taught as subject expert; course led by Prof. Andrea Hetling)
- *16:218:502 Transdisciplinary Perspectives on Coastal Climate Risk and Resilience*, spring 2017, fall 2017 (co-taught with Prof. Rebecca Jordan and Dr. Carrie Ferraro)
- *11:090:101 Byrne [First-Year] seminar on Manufacturing Uncertainty: The Climate Denial Machine*, fall 2016 (co-taught with Prof. Rachael Shwom)
- *16:460:629 / 33:833:685 Graduate seminar on Assessing and Governing Long-Term Risks*, spring 2015 (co-taught with Prof. Rachael Shwom)

- *16:460:629 / 33:833:685 Graduate seminar on Assessing the Economic Risks of Climate Change*, spring 2014 (co-taught with Prof. Enrique Curchitser)
- *01:566:143 Energy and Climate Change*, fall 2015, co-instructor
- *16:460:611 Joint Rutgers-Princeton Graduate Seminar: Geological constraints on climate sensitivity*, spring 2013 (co-taught with Prof. John Higgins)
- *01:090:252 School of Arts & Sciences Honors Program Interdisciplinary Seminar: The Evolution of the Global Energy System–From Earth's Deep Past to Civilization's Future*, fall 2012
- *16:460:613 Graduate seminar on Major Transitions in the Evolution of the Global Carbon Cycle*, spring 2012 (co-taught with Prof. Dennis Kent)
- *11:546:196 School of Environmental & Biological Sciences Honors Seminar: State of the Planet*, instructor for week on energy issues, spring 2012

California Institute of Technology

- *Ge 11b: Earth and Biosphere* (undergraduate) and *Ge 104: Introduction to Geobiology* (graduate), teaching assistant for Prof. Joseph Kirschvink, winter 2005 and winter 2006
- Geological & Planetary Sciences division field trip to Yellowstone National Park and surrounding areas, co-coordinator, summer 2005
- *Ge 124: Paleomagnetism and Magnetostratigraphy*, teaching assistant for Prof. Joseph Kirschvink, spring 2005
- *Ge 136: Regional Field Geology of the Southwestern U.S.*, coordinated Colorado Plateau weekend field trip classes for Prof. Joseph Kirschvink, spring 2005
- Geological & Planetary Sciences division field trip to Western Australia, co-coordinator, summer 2004
- *Ge 136: Regional Field Geology of the Southwestern U.S.*, coordinated southwestern Utah weekend field trip classes for Prof. Joseph Kirschvink, spring 2004
- *ACM 118: Methods in Applied Statistics and Data Analysis*, teaching assistant for Prof. Tapio Schneider, fall 2003