Professor of Earth and Environmental Sciences Columbia University | Lamont Doherty Earth Observatory 61 Route 9W, Palisades, NY 10964, USA mckinley@ldeo.columbia.edu | @OceanCarbon | mckinley.ldeo.columbia.edu

EDUCATION		
June 2002	Massachusetts Institute of Technology Ph.D. Climate Physics and Chemistry Thesis: Interannual Variability of Air-Sea Fluxes of Carbon Dioxide a Advisors: John Marshall and Mick Follows	Cambridge MA nd Oxygen
May 1995	Rice University B.S. Civil Engineering	Houston TX
RESEARCH A	ND PROFESSIONAL EXPERIENCE	
2017 to present	Columbia University / Lamont Doherty Earth Observatory Professor, Earth and Environmental Sciences The focus of my research program is the ocean carbon cycle. I am padrivers of variability in the carbon cycle, distinguishing this variability links between primary production and carbon cycling.	
2017 to present 2016 to 2017 2011 to 2016 2004 to 2011	University of Wisconsin - Madison Adjunct Professor, Atmospheric and Oceanic Sciences Professor, Atmospheric and Oceanic Sciences and Bryson Professor, Associate Professor, Atmospheric and Oceanic Sciences Assistant Professor, Atmospheric and Oceanic Sciences	Madison WI Center for Climatic Research
summer 2011	Woods Hole Oceanographic Institution Institution Visiting Scholar in Physical Oceanography and Marine Che	Woods Hole MA emistry and Geochemistry
2003 to 2004	Princeton University / University of Wisconsin - Madison <i>Visiting Research Staff / Anna Julia Cooper Postdoctoral Fellow</i> Studied Ar and N ₂ in a ocean and atmospheric models; worked on refurate with ¹⁴ C and inverse techniques; and continued work on variability	
2002 to 2003	Instituto Nacional de Ecología (National Institute of Ecology) Consultant Analyzed potential public health co-benefits from the simultaneous greenhouse gas emissions in Mexico City; capacity building for integral	
1996 to 2002	Massachusetts Institute of Technology Graduate Research assistant and Postdoctoral associate Studied the impacts of physical variability on ocean biogeochemical cy of CO ₂ and O ₂ , using ocean general circulation models.	Cambridge MA vcles, particularly air - sea fluxes
1995 to 1996	Brown and Root Environmental Environmental specialist Assisted industrial clients with environmental compliance; duties incleared abatement, and air pollution modeling.	Houston TX cluded water and soil sampling,

Newton MA

Clivius Multrum, USA

Project consultant

summer 1993

PEER-REVIEWED PUBLICATIONS (* = McKinley students, + = McKinley postdoc)

McKinley, G.A., A.L. Ritzer, and N.S. Lovenduski (2018) Mechanisms of northern North Atlantic biomass variability, Biogeosciences 15, 6049-6066, doi:10.5194/bg-15-6049-2018. (52)

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Peters, G.P., C. LeQuere, R.M. Andrew, J.G. Canadell, P. Friedlingstein, T. Ilyina, R.B. Jackson, F. Joos, J.I. Korsbakken, <u>G.A. McKinley</u>, S. Sitch, and P. Tans (2017) Towards real-time verification of CO₂ emissions, *Nature Climate Change*, *doi*: 10.1038/s41558-017-0013-9. (49)

Golub, M., A.R. Desai, <u>G.A. McKinley</u>, C.K. Remucal, and E.H. Stanley (2017) Large uncertainty in estimating pCO₂ from carbonate equilibria in lakes, *J. Geophys. Res.- Biogeosciences*, *122* doi:10.1002/2017JG003794. (48)

Pilcher, D.J.*, <u>G.A. McKinley</u>, J. Kralj, H.A. Bootsma and E.D. Reavie (2017) Modeled sensitivity of Lake Michigan productivity and zooplankton to changing nutrient concentrations and quagga mussels, *J. Geophys. Res. Biogeosci.*, 122, 2017–2032, doi:10.1002/2017JG003818. (47)

Gloege, L.*, <u>G.A. McKinley</u>, Mouw, C.B.⁺ and A. Ciochetto (2017) Global evaluation of particulate organic carbon flux parameterizations, *Global Biogeochem. Cycles*, 31, 1192–1215, doi:10.1002/2016GB005535. (46)

Orr, J. C., Najjar, R. G., Aumont, O., Bopp, L., Bullister, J. L., Danabasoglu, G., Doney, S. C., Dunne, J. P., Dutay, J.-C., Graven, H., Griffies, S. M., John, J. G., Joos, F., Levin, I., Lindsay, K., Matear, R. J., McKinley, G. A., Mouchet, A., Oschlies, A., Romanou, A., Schlitzer, R., Tagliabue, A., Tanhua, T., and Yool, A. (2017) Biogeochemical protocols and diagnostics for the CMIP6 Ocean Model Intercomparison Project (OMIP), *Geosci. Model Dev.*, 10, 2169-2199, doi:10.5194/gmd-10-2169-2017. (45)

Fay, A.R.* and <u>G.A. McKinley</u> (2017) Correlations of surface ocean pCO₂ to satellite chlorophyll on timescales from monthly to interannual, *Global Biogeochem. Cycles*, 31, 436–455, doi:10.1002/2016GB005563. (44)

McKinley, G.A., A.R. Fay*, N. Lovenduski, and D.J. Pilcher (2017) Natural variability and anthropogenic trends in the ocean carbon sink, *Ann. Rev. Mar. Sci. 9: 125-150*, doi: 10.1146/annurev-marine-010816-060529. (43)

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Mouw, C.B.⁺, A. Barnett, <u>G.A. McKinley</u>, L. Gloege* and D.J. Pilcher* (2016) Global ocean particulate organic carbon flux merged with satellite parameters. *Earth Sys. Sci. Data*, 8, 531-541, doi:10.5194/essd-8-531-2016. (41)

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PUBLICATIONS IN REVIEW

Chen, H.*, and <u>G.A. McKinley</u> (2018) Isopycnal processes allow for summertime net heterotrophy despite net oxygen accumulation in the lower euphotic zone of the North Atlantic subtropical gyre, *Global Biogeochem. Cycles, in review.*

PUBLICATIONS IN PREPARATION

Gloege, L*, <u>G.A. McKinley</u>, R. Mooney, J.D. Allan, M. Diebel and P. McIntyre. Physical enhancement of nutrient stress to Great Lakes ecosystem service, *in prep*.

Gloege, L*, <u>G.A. McKinley</u>, P. Landscühtzer, N.S. Lovenduski, K.B. Rodgers, A. Fay, T. Frölicher, J.C. Fyfe, T. Illyina, S.D. Jones, C. Rödenbeck, S. Schlunegger and Y. Takano: Large ensemble testbed to evaluate pCO₂ interpolation methods, *in prep*.

McKinley, G.A., A. Fay, Y. Eddebbar, L. Gloege* and N.S. Lovenduski: Forced mechanisms explain recent variability of the ocean carbon sink, *in prep*.

Lovenduski, N.S., S.G. Yeager, C.S. Harrison and <u>G.A. McKinley</u>. Forecasting ocean carbon absorption for the world's top five fossil fuel emitters, *in prep*.

Ridge, S.M.* and <u>G.A. McKinley</u>. An expanded context for the nutrient stream: Regulation of North Atlantic anthropogenic carbon uptake by the uptake jet, *in prep for Geophys. Res. Lett.*

Ridge, S.M.* and <u>G.A. McKinley</u>. Projected increases in Arctic freshwater export reduce the North Atlantic anthropogenic carbon sink, *in prep for Global Biogeochem. Cycles*.

SCIENTIFIC PLANNING DOCUMENTS

Benway, H., S. Alin, E. Boyer, W.-J. Cai, P. Coble, J. Cross, M. Friedrichs, M.,Goñi, P. Griffith, M. Herrmann, S. Lohrenz, J. Mathis, <u>G.A. McKinley</u>, R. Najjar, C. Pilskaln, S. Siedlecki, R. Smith (2016). A Science Plan for Carbon Cycle Research in North American Coastal Waters. Report of the Coastal CARbon Synthesis (CCARS) community workshop, August 19-21, 2014, Ocean Carbon and Biogeochemistry Program and North American Carbon Program, 84 pp., doi: 10.1575/1912/7777.

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OTHER PUBLICATIONS AND PRODUCTS

Mouw, C.B. A. Barnett, <u>G.A. McKinley</u>, L. Gloege* and D.J. Pilcher* (2016) Global Ocean Particulate Organic Carbon flux merged with satellite parameters. doi:10.1594/PANGAEA.855600.

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Bracco, A., M.C. Long, N.M. Levine, R.Q. Thomas, C. Deutsch and <u>G.A. McKinley</u> (2015) NCAR's Summer Colloquium: Capacity Building in Cross-Disciplinary Research of Earth System Carbon–Climate Connections. *Bull. Amer. Meteor. Soc.*, **96**, 1381–1384. doi:10.1175/BAMS-D-13-00246.1.

Fay, A.R.* and <u>G.A. McKinley</u> (2014) Global Ocean Biomes: Mean and time-varying maps. doi:10.1594/PANGAEA.828650.

Thomas, R.Q., <u>G.A. McKinley</u>, and M.C. Long (2013) Examining uncertainties in representations of the carbon cycle in Earth System Models. *EOS* 94:460.

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McKinley, G.A., N. Urban, V. Bennington**, D. Pilcher* and C. McDonald (2011) Preliminary carbon budgets for the Laurentian Great Lakes, OCB News, Spring/Summer 2011.

McKinley, G. A. (2008), Fixing Climate: What Past Climate Changes Reveal About the Current Threat—And How to Counter It (*Book review*), Eos Trans. AGU, 89(43), 422–422, doi:10.1029/2008EO430009.

PROFESSIONAL SERVICE		
2019 to present	Defense Science Study Group Alumni Outreach Committee	
	Committee of 10 recent DSSG alumni; tasked by IDA to advise on alumni engagement	
2019 to present	Annual Reviews of Earth and Planetary Science, Editorial Board	
	Guest member for Volume 49 for 2019-2020	
2018 to present	GO SHIP Program Review Committee	
2015	Committee of 6; tasked by OCB and US CLIVAR to review the repeat hydrography program	
2017 to present	American Geophysical Union Chapman Conference, La Jolla CA	
2014	Program committee for conference: "Understanding carbon climate feedbacks", August 2019	
2014 to present	Ocean Model Intercomparison Project Scientific Steering Committee (OMIP6-SSC)	
2002 4	OMIP is planning the 6 th round of ocean model intercomparison under the CMIP6 umbrella.	
2002 to present	Reviewer for Papers and Proposals Paners and healts: ACH Pooles DAMS DC/DCD DSD Foology Lett. ESD/ESDD EST EL EOS	
	Papers and books: AGU Books, BAMS, BG/BGD, DSR, Ecology Lett, ESD/ESDD, EST, EI, EOS, Frontiers, GBC, GMD/GMDD, GRL, Inland Waters, JAMES, JES, JGR, L&O, Nature, Nature	
	Climate Change, Nature Geoscience, Ocean Dynamics, OS/OSD, PNAS, Prog. Oceanog., Princeton	
	U. Press, Science, Springer, Tellus B, U. Chicago Press	
	Assessment Reports: National Academy of Science review of SOCCR2 (2018), IPCC SROCC (2018)	
	Proposals: NASA (OBB, Carbon Cycle, MAP), NOAA, NSF (CO, PO), ArcticNet, Leaders	
	Opportunity Fund (Quebec), Ocean Frontier Institute (CA), NSERC, SeaGrant (WI, HI, OH), Marsten	
	Fund (NZ), U. Michigan Water Center	
	Proposal Panels: NASA - Ocean and Ice (2004), Impacts of Climate Variability and Change on	
	NASA Centers (2011), High Latitude Ocean / Aquatic Ecology (2013); NSF – Chemical	
	Oceanography (2008, 2017)	
December 2018	American Geophysical Union Fall Meeting, Washington DC	
	Co-convener and chair: "Understanding changing ocean biogeochemistry"	
December 2018	Ocean carbon uptake in CMIP6 models, Washington DC	
	Co-organizer of OCB-sponsored workshop	
2014 to 2018	Global Carbon Project Scientific Steering Committee (GCP-SSC)	
	The GCP coordinates international carbon cycle activities under Future Earth.	
June 2018	The effects of climate change on the world's oceans, Washington DC	
-1 -011	Co-convener and chair: "Carbon uptake, ocean acidification, and ecosystem and human impacts"	
February 2018	AGU/ASLO/TOS Ocean Sciences 2018, Portland OR	
2016 / 2010	Co-convener and chair: "The ocean carbon cycle across timescales"	
2016 to 2018	MPOWIR mentor	
2015 to 2017	Co-lead of monthly mentoring teleconferences with 10 junior women in physical oceanography	
2015 to 2017	NASA Ocean Biology and Biogeochemistry Pre-Decadal Survey / Advanced Plan Review Team Reviewed community-proposed input to the NASA Decadal Survey for the OBB program	
2016 to 2017	Great Lakes Advisory Board Science and Information Subcommittee	
2010 to 2017	Appointed by the EPA administrator to advise the Great Lakes Interagency Task Force	
2015 to 2017	CONCORDE Scientific Advisory Panel	
2013 to 2017	CONCORDE is a GoMRI-funded group pursuing science needs identified with Deepwater Horizon.	
January 2017	Panelist, NOAA Climate Program Office, Ocean Observing & Monitoring, Washington DC	
	Review panelist for OOM program	
2011 to 2016	Carbon Cycle Science Scientific Steering Group (CCSSG)	
	CCSSG discusses science with the US Carbon Cycle Interagency Working Group (CCIWG)	
2008 to 2016	North American Carbon Program / Ocean Carbon and Biogeochemistry Coastal CARbon	
	Synthesis, Leader: Great Lakes Working Group; Co-author of final CCARS Science Plan	
February 2016	AGU/ASLO/TOS Ocean Sciences 2016, New Orleans, LA	
	Co-convener: "How do the carbon pumps pump? Mechanisms of the solubility and biological pumps"	
2012 to 2015	US CLIVAR - OCB Working Group	
	Oceanic carbon uptake in the CMIP5 models, Core Member	
2011 to 2014	Global Biogeochemical Cycles	
NI 1 2014	Associate Editor, 15-20 papers per year	
November 2014	External evaluator, Helmholtz Center Geesthacht, Germany	
	Evaluation of candidates for director	

	GALEIVA, MCMINEET
April 2014	Planning Workshop: Int'l Research on the Coupled N. Atlantic-Arctic System, Washington DC Invited participant
February 2014	AGU/ASLO/TOS Ocean Sciences 2014, Honolulu, HI
2012 to 2013	Co-convener and session chair: "Mechanisms of biogeochemical variability in the global oceans" Defense Science Study Group (DSSG), Institute for Defense Analysis (IDA) Selected from 150+ nominees to be one of 15 members of the 2012-2013 class. DSSG tours the
2012 to 2013	country to learn about the activities and STEM needs of US defense and intelligence agencies. NCAR ASP Colloquium, Summer 2013
	Co-organizer and lecturer for workshop on "Carbon Climate Connections in the Earth System"
2012 to 2013	External Review Committee for US CLIVAR AMOC program Attendance and interviews at annual meeting, survey of AMOC PI community, report preparation
2010 to 2013	REgional Carbon Cycle Assessment and Processes (RECCAP) Co-lead: Arctic and Atlantic; co-author: Global Carbon Storage and Global Air-Sea Flux
2008 to 2011	Carbon Cycle Science Working Group (CCS-WG)
October 2011	The CCS-WG wrote the New US Carbon Cycle Science Plan (2012) Patullo Conference , MPOWIR, Warrenton, VA
October 2011	Senior participant; Meeting goal is to promote retention of women in physical oceanography
December 2010	NACP/OCB Coastal Carbon Synthesis Workshop, San Francisco, CA
March 2010	Co-organizer and speaker Caltech Keck Institute for Space Studies (KISS), Pasadena, CA
March 2010	Invited participant in study program "Quantifying the Sources and Sinks of Atmospheric CO ₂ "
February 2010	AGU/ASLO/TOS Ocean Sciences 2010, Portland, OR
M 2000	Co-convener and session chair: "Carbon Cycling in the Coastal Oceans"
May 2009	International Association of Great Lakes Research Annual Meeting, Toldeo, OH Co-convener and session chair: "Carbon Cycling in the Laurentian Great Lakes"
2005 to 2008	Ocean Carbon and Biogeochemistry Scientific Steering Committee (OCB-SSC)
2003 to 2006	Committee member, tasked to advise NSF, NASA and NOAA on research directions
2005 to 2008	Earth Science Women's Network (ESWN)
	Leadership Board member
December 2008	American Geophysical Union Fall Meeting, San Francisco, CA
	Co-convener and session chair: "Ocean Carbon Cycle: Decadal Trends"
July 2007	Ocean Carbon and Biogeochemistry Summer Workshop, Woods Hole, MA
	Co-organizer and session chair for "Changing ocean biogeochemistry: The prediction challenge"
April 2005	External Review Committee for JISAO at NOAA-University of Washington, Seattle, WA
G . 1 2005	Site visit and report preparation
September 2005	North American Coastal Margins: The Coastal CO ₂ Workshop, Boulder, CO
June 2004	Invited participant and session leader NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes, Seattle WA
June 2004	Invited speaker
June 2004	UCAR/NCAR Junior Faculty Forum on Future Scientific Directions, Boulder, CO
Julie 2007	Co-organizer and co-chair for "The role of coastal zones in global biogeochemical cycles"
December 2003	American Geophysical Union Fall Meeting, San Francisco, CA Co-convener and session chair for Union session: "Health, Air Pollution and Climate"
	Co-convener and session chan for Onion session. Treatm, All Foliution and Chinate

AWARDS AND HONORS

TWINDS IN DIOTORS		
2016	Kavli Fellow	
2012 to 2013	Defense Science Study Group	
2011	Class of 1955 Distinguished Teaching Award, University of Wisconsin - Madison	
2008 to 2011	NASA New Investigator	
2010	Faculty teaching award from UW-Madison AOS Graduate Student Association	
2003 to 2004	Anna Julia Cooper Postdoctoral Fellow, from University of Wisconsin – Madison	
2000 to 2001	Martin Fellow for Sustainability, MIT	
1999 to 2002	NASA Earth System Science Fellowship	
1999	Teaching Assistant Prize, MIT Department of Earth, Atmospheric and Planetary Sciences	

PROFESSIONAL MEMBERSHIPS

American Geophysical Union (1998-present) American Society of Limnology and Oceanography (2011-present) Earth Science Women's Network (2003-present) The Oceanography Society (2008-present)

SERVICE at COLUMBIA UNIVERSITY

2018 to present	Diversity Committee, Earth and Environmental Sciences
2018 to present	Graduate Admissions Committee, Earth and Environmental Sciences
2017	RISE Competition, reviewer

SERVICE at UNIVERSITY OF WISCONSIN - MADISON

2015 to 2017	Physical Sciences Divisional Committee, Campus-level faculty tenure review committee
2013 to 2017	Curriculum Committee chair, AOS
2011 to 2017	Women Faculty Mentoring Program Advisory Committee
2004 to 2017	Curriculum, Strategic Planning, Budget, Faculty Recruitment, Computing,
Qualifying Exam, Award, Graduate Recruitment Committees, AOS	
2015 to 2016	Ad-hoc Committee on Post-Tenure Review, Campus-level faculty committee
2013 to 2016	Curriculum Committee, College of Letters & Science
2010 to 2015	Co-chair for Undergraduate Education. AOS
2013 to 2015	Major in Environmental Science, L&S Faculty Advisor, and Executive Committee
2013 to 2014	Center for Climatic Research Science Council
2013 to 2014	Ad-hoc Committee on Fossil Fuel Use and Climate Change, Campus-level committee
2011 to 2012	Nelson Institute Director Search and Screen Committee

PROFESSIONAL DEVELOPMENT

November 2004	UW System Women & Science, Workshop for STEM Faculty, Wisconsin Dells, WI
March 2003	Dissertations Initiative for the Advancement of Climate Change Research, Guanica, PR
May 2002	Carbon Cycle Data Assimilation Institute, Boulder, CO
June 2001	American Meteorological Society Summer Policy Colloquium, Washington, DC
January 1999	JGOFS Training Course on Biogeochemical Modeling of the Ocean, Bangalore, India

SELECTED PRESENTATIONS

SELECTED FRESENTATIONS		
August 2019	Observing Carbon Climate Feedbacks, Chapman Conference, La Jolla, CA	
upcoming	Invited Plenary Speaker, "Forced change in the ocean carbon sink"	
July 2019	Chemical Oceanography, Gordon Conference, Holderness NH	
upcoming	Invited Plenary Speaker / Discussion Leader, "Forced change in the ocean carbon sink"	
May 2019	Princeton University, Princeton NJ	
upcoming	Invited seminar, "Forced change in the ocean carbon sink"	
April 2019	University of Connecticut, Avery Point CT	
1	Invited seminar, "Forced change in the ocean carbon sink"	
December 2018	Ocean carbon uptake in CMIP6 models workshop, Washington DC	
	Oral, "Forced changes and internal variability in the ocean carbon sink"	
June 2018	The Effects of Climate Change on the World's Oceans, 4th Int'l Symposium, Washington DC	
	Oral, "Variability and trends in ocean carbon uptake: 1981-2016"	
April 2018	Massachusetts Institute of Technology, Earth Atmospheric and Planetary Sciences, Cambridge, MA	
1	Invited seminar, "Diagnosing change in the ocean carbon sink"	
April 2018	University of Pennsylvania, Philadelphia, PA	
	Invited seminar, "Diagnosing change in the ocean carbon sink"	
February 2018	AGU/ASLO/TOS Ocean Sciences 2018, Portland OR	
<i>j</i>	Poster, "Correlations of surface ocean pCO ₂ to satellite chlorophyll, monthly to interannual"	
January 2018	NASA GISS, New York, NY	
,	Invited seminar, "Variability in the ocean carbon sink"	
November 2017	Geophysical Fluid Dynamics Laboratory, Princeton NJ	
1(0,0111001 201)	Invited seminar, "Variability in the ocean carbon sink: Drivers and challenges to detection"	
October 2017	Distinguished Scientist Seminar, Marine Biological Laboratory, Woods Hole MA	
	Invited seminar, "Understanding the ocean's role in the global carbon cycle"	
September 2017	Ocean Carbon Hotspots Workshop of CLIVAR and OCB, Monterey CA	
1	Plenary, "Timescales and mechanisms of change in ocean carbon sink"	
August 2017	International Carbon Dioxide Conference 10, Interlaken, Switzerland	
J	Plenary, "Detecting and understanding the changing ocean carbon sink with data and models"	
April 2017	Nelson Institute Earth Day Conference, University of Wisconsin, Madison WI	
1	Moderator and Speaker, "What now? Preparing for Environmental Change"	
January 2017	Cooperative Inst. Limnology & Ecosystems Research, U. Michigan, Ann Arbor MI	
•	Invited seminar, "Spatial variability and potential long-term trends in Great Lakes carbon"	
	https://www.youtube.com/watch?v=m80c5Zbxctk	
December 2016	American Geophysical Union, Fall Meeting, San Francisco CA	
	Oral, "Seasonal cycles and long-term growth in Southern Ocean carbon uptake"	
November 2016	Climate People and the Environment Program, University of Wisconsin, Madison WI	
	Seminar, "Mechanistic connections between carbon and chlorophyll in the global ocean"	
October 2016	Kavli Frontiers of Science Symposium, Irvine CA	
	Invited poster "Natural Variability and Anthropogenic Trends in the Ocean Carbon Sink"	
July 2016	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA	
-	Invited plenary, "Detecting trends in the ocean carbon sink"	
June 2016	Scripps Institution of Oceanography, La Jolla CA	
	Seminar, "Detection of trends in the ocean carbon sink"	
June 2016	Lamont-Doherty Earth Observatory of Columbia University, Palisades NY	
	Invited seminar, "Detection of trends in the ocean carbon sink"	
April 2016	University of Wisconsin – Climate Change Symposium, Madison WI	
	Invited plenary, "Ocean mitigation of climate change: past, present and future"	
March 2016	Sarmiento Symposium, Princeton NJ	
	Invited speaker and panelist, "The breath of life — a changing carbon cycle"	
February 2016	AGU/ASLO/TOS Ocean Sciences 2016, New Orleans LA	
	Oral, "Detectability of change in the ocean carbon sink"	
February 2016	Climate People and the Environment Program, University of Wisconsin, Madison WI	
	Invited seminar, "Variability and trends in ocean carbon uptake from models and data"	

	GALEIVA. MCMINEET
January 2016	NOAA -Pacific Marine Environmental Laboratory, Seattle WA
	Invited seminar, "Variability and trends in ocean biogeochemistry from models and data"
September 2015	University of Southern Mississippi, Hattiesburg, MS
	Invited seminar, "The ocean carbon sink: Separating trends from variability"
June 2015	Global Carbon Project Scientific Steering Committee Meeting, Oslo, Norway
	Invited plenary, "Ocean carbon research and integration in the global carbon cycle"
June 2015	JASON summer study, La Jolla, CA
	Invited brief, "Changing ocean carbon: Observations and models"
May 2015	University of Wisconsin Water Symposium, Madison WI
	Invited plenary, "Circulation and carbon: Oceans and Great Lakes"
March 2015	Pre-decadal survey workshop on Carbon and Climate, Norman OK
	Invited plenary, "Uncertainties and unknowns in the ocean carbon sink (+coastal and inland)"
December 2014	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "Carbon cycle variability associated with AMO, NAO and AMOC"
December 2014	US CLIVAR / OCB Joint Workshop on ocean heat and carbon uptake, San Francisco CA
	Invited plenary, "Quantifying carbon uptake and its trends"
November 2014	JASON 2014 fall meeting, Washington DC
1 2014	Invited plenary, "The changing ocean: Carbon, climate and coupled feedbacks"
November 2014	
4	Invited plenary, "The ocean carbon sink: Present knowledge and critical gaps"
August 2014	Coastal Carbon Synthesis Community Workshop, Woods Hole MA
I 2014	Invited plenary, "Great Lakes carbon budgets"
June 2014	Oak Ridge National Lab, Oak Ridge TN
A	Talk, "Carbon and biogeochemistry in the oceans and Great Lakes"
April 2014	Center for Climatic Research and Climate People and Environment Program, Madison WI
Manal 2014	Seminar, "Climate change and national security: Implications and preparedness"
March 2014	Institute for Defense Analysis, Alexandria VA
March 2014	Invited seminar, "What I learned and some recommendations" Lamont-Doherty Earth Observatory of Columbia University, Palisades NY
Maich 2014	Invited seminar, "Natural variability and anthropogenic trends in the ocean carbon sink"
	http://tinyurl.com/mrj3bo8
February 2014	AGU/ASLO/TOS Ocean Sciences 2014, Honolulu HI
1 Columny 2014	Oral, "CO ₂ -acidification of the Laurentian Great Lakes"
August 2013	NCAR ASP Key Uncertainties in the Global Carbon Cycle, Boulder CO
rugust 2015	Invited plenary, "Using data to elucidate feedback mechanisms in the ocean carbon cycle"
August 2013	NCAR ASP Graduate Student Colloquium, Boulder CO
1148450 2015	Invited lecture, "Mechanisms of ocean carbon climate feedback: What do the data support?"
July 2013	NCAR ASP Graduate Student Colloquium, Boulder, CO
vary = 015	Invited lecture, "Ocean carbon biogeochemistry: Productivity, export, remineralization"
June 2013	9th International Carbon Dioxide Conference, Beijing, China
7 37-17 - 17 - 17	Oral, "Regional distribution and seasonal mechanisms of carbon uptake in the global oceans"
March 2013	Biogeochemistry of the Great Lakes System, Wayne State University, Detroit MI
	Invited plenary, "Spatio-temporal variability and long-term trends in Great Lakes carbon cycling"
January 2013	University of Wisconsin - Madison, Atmospheric and Oceanic Sciences, Madison WI
Ž	Seminar, "The ocean carbon sink: How strong? How vulnerable?"
January 2013	Ohio State University, Climate Change Webinar
•	Invited, "Climate, carbon impacts on productivity, chemistry & invasive species in the Great Lakes."
July 2012	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
	Invited Plenary, "RECCAP: Results from a global synthesis on ocean carbon uptake"
April 2012	NASA Ocean Color Research Team Meeting, Seattle WA
	Plenary, "Trends in ocean carbon uptake"
February 2012	AGU/ASLO/TOS Ocean Sciences 2012, Salt Lake City UT
	Oral, "Physical drivers of biogeochemical and carbon cycling in Lake Superior"
January 2012	Lake Superior Research Symposium, University of Minnesota, St. Paul MN
	Invited talk, "Modeling circulation, carbon and climate for Superior"

November 2011	Department of Chemistry and Biochemistry, University of Montana, Boseman MT Invited seminar, "Trends in ocean carbon uptake"
November 2011	School for Freshwater Science, University of Wisconsin - Milwaukee, Milwaukee WI
	Invited seminar, "Circulation, carbon cycling and invasive species in Lake Superior"
September 2011	The Ocean Carbon Cycle at A Time Of Change: Synthesis And Vulnerabilities, Paris, France Invited plenary, "Attribution: What drives CO ₂ sink trends?" (given by A. Fay due to injury)
August 2011	Gordon Research Conference, Andover NH
T 1 2011	Poster, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
July 2011	Woods Hole Oceanographic Institution, Woods Hole MA Seminar, "Biogeochemistry, carbon cycling and invasive species in Lake Superior"
July 2011	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
5 diy 2011	Poster, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
July 2011	Woods Hole Oceanographic Institution, Woods Hole MA
July 2011	
E 1 2011	Seminar, "Convergence of atmospheric and North Atlantic CO ₂ trends on multidecadal timescales"
February 2011	North American Carbon Program Meeting, New Orleans LA
	Poster, "Lake Superior's influence on regional carbon budgets"
December 2010	American Geophysical Union, Fall Meeting, San Francisco CA
	Poster, "The carbon cycle of Lake Superior: Balancing the budget with spatial heterogeneity"
December 2010	NACP/OCB Coastal Carbon Synthesis Workshop, San Francisco CA
	Oral, "Modeling carbon in the coastal zone"
November 2010	Environmental Chemistry and Technology Program, University of Wisconsin, Madison WI
1101011001 2010	Invited seminar, "Spatio-temporal variability in the carbon cycle of Lake Superior"
October 2010	Michigan Technological University, Houghton MI
October 2010	
0 4 1 2010	Invited seminar, "Spatio-temporal variability in the carbon cycle of Lake Superior"
October 2010	Duke University, Durham NC
	Invited seminar, "Decadal variability and multidecadal trends in the North Atlantic carbon sink"
July 2010	Ocean Carbon and Biogeochemistry Workshop, La Jolla CA
	Poster, "Decadal variability and multidecadal trends in the North Atlantic carbon sink"
June 2010	JASON Study on Carbon Treaty Verification, La Jolla CA
	Invited talk, "Carbon in water: Open ocean, coastal zone and inland waters"
June 2010	Scripps Institution of Oceanography, La Jolla CA
	Seminar, "Understanding recent variability in the North Atlantic carbon sink"
May 2010	Aquatic Ecosystem Health and Management: Ecology of Lake Superior, Duluth MN
1114) 2010	Oral, "Carbon cycle variability in Lake Superior and impacts on the regional carbon budget"
May 2010	Subpolar North Atlantic Workshop, Durham NC
Way 2010	
1.0010	Invited talk, "North Atlantic carbon uptake from biogeochemical models and data"
March 2010	Caltech Keck Institute for Space Studies (KISS), Pasadena CA
	Invited plenary, "Air-sea CO2 fluxes: Climatology, variability and land-ocean links"
February 2010	AGU/ASLO/TOS Ocean Sciences 2010, Portland OR
	Invited oral, "Reconciling observed and modeled trends in the North Atlantic carbon sink"
November 2009	North American Carbon Program 2 nd Joint Workshop, Oak Ridge TN
	Invited oral, "Carbon cycling in North American coastal waters"
August 2009	Biogeochemistry and Carbon Cycle of Lake Superior, Woodruff WI
	Oral, "Biogeochemical variability in Lake Superior – A modeling perspective"
July 2009	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
July 2007	Poster, "Understanding the carbon budget of Lake Superior"
M 2000	
May 2009	International Association of Great Lakes Research Annual Meeting, Toledo OH
	Oral, "The magnitudes and mechanisms determining the carbon budget of Lake Superior"
May 2009	NASA Ocean Color Research Team Meeting, New York NY
	Poster, "Do hurricanes drive variability of the air-sea CO ₂ flux in the subtropical North Atlantic?"
December 2008	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "The changing North Atlantic carbon sink: 1992-2006"
December 2008	University of Wisconsin - Madison, Atmospheric and Oceanic Sciences, Madison WI
	Seminar, "Variability in the ocean carbon cycle: A North Atlantic perspective"
October 2008	Colorado State University, Fort Collins CO
2010001 2000	Invited seminar, "Variability in the ocean carbon cycle: A North Atlantic perspective"
	invited seminar, variating in the ocean carbon cycle. A north Atlantic perspective

	GALEN A. WICKINLE I
July 2008	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
	Invited plenary, "Carbon sink trends in the Northern Oceans"
June 2008	Workshop on Teaching Weather and Climate Using Laboratory Experiments, Chicago IL
	Poster, "Rotating tank experiments in an atmospheric and oceanic science undergraduate curriculum"
May 2008	Effects of Climate Change on the World's Oceans, Gijon, Spain
1 2000	Oral, "Trends in the North Atlantic carbon sink"
April 2008	NASA Ocean Color Research Team Meeting, Adelphi MD
March 2009	Plenary, "The changing North Atlantic carbon cycle"
March 2008	Princeton University, Princeton NJ Seminar "Trends and variability in the carbon cycle of the North Atlantic"
March 2008	AGU/ASLO/TOS Ocean Sciences 2008, Orlando FL
March 2006	Oral, "Carbon cycle variability and trends at Bermuda and across the North Atlantic"
January 2008	American Meteorological Society Annual Meeting, New Orleans LA
Junuary 2000	Co-author on one talk and 2 posters on undergraduate teaching with the 'Weather in a tank' project
October 2007	Stony Brook University, Stony Brook NY
200001 2007	Invited public lecture, "The oceans and the climate system"
July 2007	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
,	Poster, "Carbon cycle variability in the North Atlantic: Timescales of change"
April 2007	Johns Hopkins University, Baltimore MD
	Invited seminar, "Air-sea CO ₂ flux variability: Physical and ecological drivers"
April 2007	Surface Ocean CO ₂ Variability and Vulnerability Workshop, UNESCO, Paris, France
	Plenary, "North Atlantic CO ₂ flux variability: Physical and ecological drivers"
April 2007	NASA Ocean Color Research Team Meeting, Seattle WA
	Poster, "Physical and biological drivers of carbon cycle variability in the North Atlantic"
April 2007	Michigan Technological University, Houghton MI
1.1.2006	Invited seminar, "Air-sea CO ₂ flux variability: Physical and ecological drivers"
July 2006	Ocean Carbon and Biogeochemistry Workshop, Woods Hole MA
June 2006	Poster, "Modeling the seasonal cycle of pCO ₂ in the North Atlantic" The Art of Climate Modeling, NCAR/ASP Summer School, Boulder CO
Julie 2000	Invited lecture, "Modeling ocean biogeochemistry"
February 2006	AGU/ASLO/TOS Ocean Sciences 2006, Honolulu HI
1 cordary 2000	Talk, "North Pacific carbon cycle response to climate variability on seasonal to decadal timescales"
February 2006	Old Dominion University, Norfolk VA
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"
November 2005	University of Maryland, College Park MD
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"
November 2005	Great Lakes Environmental Research Laboratory, Ann Arbor MI
	Invited seminar, "Air-sea CO ₂ flux variability on seasonal, interannual and decadal timescales"
September 2005	Seventh International Carbon Dioxide Conference, Broomfield CO
	Invited plenary, "Pacific dominance to global air-sea CO ₂ flux variability"
August 2005	Ocean Carbon Cycle and Climate Change Workshop, Woods Hole MA
	Poster "North Pacific carbon cycle response to climate variability on seasonal to decadal timescales"
March 2005	The Pennsylvania State University, State College PA
M 1 2007	Invited seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions"
March 2005	Princeton University, Princeton NJ
Dagambar 2004	Seminar, "Argon as a tracer of physical processes in the atmosphere and ocean" American Geophysical Union, Fall Meeting, San Francisco CA
December 2004	Poster, "Testing ocean models with argon and nitrogen"
November 2004	
November 2004	Seminar, "Local and global benefits of air pollution control in Mexico City"
October 2004	University of Wisconsin, Chaos and Complexity Seminar Series, Madison WI
2310001 2001	Seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions"
October 2004	SOLAS Science 2004, Halifax, Canada
	Poster, "Atmospheric Ar/N ₂ : A Tool for Constraining Atmosphere and Ocean Models"
June 2004	NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes, Seattle WA
	Invited plenary, "Modeled North Pacific carbon cycle variability"

May 2004	Geophysical Fluid Dynamics Laboratory, Princeton NJ
•	Seminar, "CO ₂ air-sea flux variability: Ocean models and atmospheric inversions"
March 2004	Princeton Environmental Institute Postdoctoral Colloquium, Princeton NJ
	Seminar, "Local and global benefits of air pollution control in Mexico City"
December 2003	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "Local and global benefits of air pollution control in Mexico City"
June 2003	World Congress on Risk, Brussels, Belgium
	Poster, "Mexico City Co-Benefits: Air pollution health risk reduction from GHG emission controls"
June 2003	MIT, Department of Earth, Atmospheric & Planetary Sciences, Cambridge MA
	Seminar, "Mexico City Co-Benefits: Air pollution health risk reduction from GHG emission controls"
May 2003	University of Wisconsin, Department of Atmospheric and Oceanic Sciences, Madison WI
-	Invited seminar, "CO ₂ air-sea flux variability: ocean models and atmospheric inversions"
May 2003	JGOFS Open Science Conference, Washington DC
	Poster, "Mechanisms of CO ₂ air-sea flux variability in the North Atlantic and Equatorial Pacific"
April 2003	National University of Mexico, Center for Atmospheric Sciences, Mexico City
	Seminar, "Carbon sink variability from ocean models and atmospheric inversions" (in Spanish)
July 2002	Princeton University, Atmosphere and Ocean Sciences Program, Princeton NJ
	Invited seminar, "Interannual variability of air-sea fluxes of carbon dioxide and oxygen"
February 2002	AGU/ASLO/TOS Ocean Sciences 2002, Honolulu HI
	Poster, "Interannual variability in air-sea fluxes of CO ₂ and O ₂ "
December 2000	American Geophysical Union, Fall Meeting, San Francisco CA
	Oral, "A novel approach to export parameterization with application to air-sea fluxes of O ₂ and CO ₂ "
February 2000	American Geophysical Union, Ocean Sciences, San Antonio TX
	Oral, "Interannual variability of the air-sea flux of oxygen in the North Atlantic"
January 1999	JGOFS Arabian Sea Symposium, Bangalore, India
	Poster, "Interannual variability of the air-sea flux of oxygen in the North Atlantic" (best poster award)

TEACHING	
	Columbia University / Lamont Doherty Earth Observatory New York NY / Palisades NY
	Semester Courses
2018	Humans and the Carbon Cycle (EESC GU4020)
2010	Graduate / undergraduate course on the global carbon cycle and its connections to climate.
2019	The Climate System (EESC UN2100)
2010	Undergraduate survey course on climate science.
2019	Idealized Models of Climate Processes (EESC GU6926) Graduate survey course on building and applying simple models to scientific questions.
	Graduate survey course on building and apprying simple models to scientific questions.
	University of Wisconsin - Madison Madison, WI
	Semester Courses
2016	Physical-Biogeochemical Coupling in the Ocean and Lakes (ATM OCN 750)
	Mechanisms of physical-biogeochemical coupling in oceans and lakes; hands-on data and modeling
2015, 2016	The Science of Climate Change (ATM OCN 323)
	Quantitative treatment of climate processes for science and engineering, non-AOS, students
2013,15,17	Global Warming: Science and Impacts (ATM OCN 332)
2007 2014	Undergraduate intermediate level course on the science and expected impacts of climate change
2007-2014	Introduction to Physical Oceanography (ATM OCN 660) Graduate introduction to the physical structure and dynamics of the ocean
2004-2010	Global Climate Processes (ATM OCN 425)
2004-2010	Global energy balance, circulation of the atmosphere and ocean, climate and climate modeling
2008-2016	Laboratory in Rotating Fluid Dynamics (ATM OCN 801, 615)
2000 2010	Use rotating tank and data analysis to elucidate key principles of geophysical fluid dynamics
2005,06,14	Dynamics of the Atmosphere and Ocean II (ATM OCN 311)
, ,	Intermediate geophysical fluid dynamics for undergraduate majors
	Semester Seminars
2012, 2017	Ocean Biogeochemical Cycles (ATM OCN 965)
Spring 2008	Threats to Wildlife from Global Warming (ATM OCN 980)
Fall 2006	The Ocean Carbon Cycle (ATM OCN 925)
Spring 2005,06	Senior Capstone Seminar (ATM OCN 405)
Spring 2006	Climate Change: Science and Impacts (ATM OCN 980)

ADVISING

Columbia Univ Graduate Stud 2017-present 2017-present 2018-present	rersity / Lamont Doherty Earth Observatory ents Sean Ridge, PhD candidate in Earth and Environmental Sciences Lucas Gloege, PhD candidate in Earth and Environmental Sciences Lauren Moseley, PhD candidate in Earth and Environmental Sciences	New York NY / Palisades NY		
University of Wisconsin - Madison WI				
Graduate Stud	ents			
2015-2017	Sean Ridge, MS AOS 2017 (now PhD student at Columbia / LDEO)			
2014-2017	Lucas Gloege, MS AOS 2017 (now PhD student at Columbia / LDEO)		
2016-2017	Collin Tuttle, MS AOS 2018 (now US Coast Guard)			
2010-2015	Darren Pilcher, PhD AOS 2015 (now research scientist at NOAA PM			
2010-2015	Haidi Chen, PhD AOS 2015 (now postdoctoral fellow at Princeton Un	iiversity)		
2011-2014	Alexis Ritzer, MS AOS 2014 (now at Luminant Energy Services)			
2010-2012	Jennifer Phillips, MS Environment & Resources 2012 (now at Ocean l	, ,		
2009-2012	Jesse Roberts, MS AOS 2012 (now at Wisconsin Dept of Public Instru	iction)		
2008-2010	Amanda Fay, MS AOS 2010 (now Researcher with McKinley)			
2008-2010	Valerie Bennington, PhD AOS 2010 (now at Epic Systems)			
2005-2007	David Ullman, MS AOS 2008 (PhD Geosci. 2013, now Asst. Prof. No.	orthland College, WI)		
Postdoctoral Scholars				
2010-2011	Dr. Val Bennington (UW-Madison Center for Climatic Research, 2012)	2-14: now at Epic Systems)		
2009-2010	Dr. Colleen Mouw (now Assistant Professor, University of Rhode Isla			
2007-2009	Dr. Nazan Atilla (now at UW-Madison Department of Zoology)	, 1 2 0 1 0 2 0 1 0)		
2007	Dr. Nobuaki Kimura (now at Kyushu University, Japan)			
TI 1 1	COLOR LANGUE CONT.			
	Student Researchers at University of Wisconsin - Madison	id- Do-C A Doman		
2015-2017	Gabriela Negrete (BS Chemistry 2017, now PhD student at Scripps wi	un Prof. A. Barton)		
2012-2015	James Kralj (BS Microbiology 2015, MS 2018 U. Washington);	(Madisan)		
2012-2015	Melissa Breeden (BS AOS 2013, PhD AOS 2018, now postdoc at UW Victoria Vasys (BS AOS 2010)	iviauison)		
2009-2010 2007-2008	, , , , , , , , , , , , , , , , , , ,	dagida & Harwall (14 progent)		
2007-2008	Jennifer Koch (BS AOS '08, EPA'08-11, MS Portland State '13, Rhoo	uesiue&naiweii 14-pieseni)		
Visiting Students				

Visiting Students

2008-2009 Nsikak Benson, Fulbright Scholar (Nigeria)

STUDENT COMMITTEES (* = McKinley students)

Columbia University / Lamont Doherty Earth Observatory New York NY / Palisades NY PhD Thesis Committees Mr. Takaya Uchida (PhD expected 2019) Mr. Lucas Gloege* (PhD expected 2019) Mr. Sean Ridge* (PhD expected 2020) Ms. Lauren Moseley* (PhD expected 2023) PhD Theses at University of Wisconsin - Madison Madison WI Dr. Erin Thomas (PhD AOS 2017) Dr. Cristian Martinez (PhD AOS 2016) Dr. Malgorzata Golub (PhD Freshwater and Marine Science 2016) Dr. Jiaxu Zhang (PhD AOS 2016) Dr. Benjamin Kraemer (PhD Freshwater and Marine Science 2015) Dr. Darren Pilcher* (PhD AOS 2015) Dr. Haidi Chen* (PhD AOS 2015) Dr. Katherine Holman (PhD AOS 2013) Dr. Benjamin Sulman (PhD AOS 2012) Dr. Justin Bagley (PhD AOS 2011) Dr. Fung He (PhD AOS 2011) Dr. Wei Liu (PhD AOS 2011) Dr. Val Bennington* (PhD AOS 2010) Dr. Claudia Cyganowski (PhD Astronomy 2010) Dr. Jerry Tjiputra (PhD AOS 2007) Masters Theses at University of Wisconsin - Madison Madison WI Mr. Lucas Gloege* (MS AOS 2017) Mr. Sean Ridge* (MS AOS 2017) Ms. Nicole Colasacco-Thumm (MS AOS 2015) Ms. Amanda Stone (MS Freshwater and Marine Science, 2012) Mr. Jesse Roberts* (MS AOS 2012) Ms. Jennifer Phillips* (MS Environment and Resources 2012) Ms. Alexis Santos-Ritzer* (MS AOS 2012) Ms. Amanda Fay* (MS AOS 2010) Dr. David Ullman* (MS AOS 2008; PhD Geoscience 2013) Mr. William Ahue (MS AOS 2008) Ms. Erin Hokanson (MS AOS 2006) Delta Teaching & Learning Internship Advisees University of Wisconsin - Madison Madison WI Dr. Andrew Winters (PhD AOS 2015)

PhD External Committees

PhD Committee Member

Dr. Cory McDonald (PhD Michigan Technological University, 2010)

PhD External Evaluator

Dr. Precious Mongwe (PhD University of Cape Town, 2018)

Dr. Peisheng Huang (PhD University of Western Australia, 2010)

OUTREACH, I	NTERVIEWS and EDITORIALS
2009 to present	Lead developer for Carbon/Climate educational website, with interactive carbon budget applet
•	English version: carboncycle.columbia.edu (Launch 12/2009, ~5,000 new sessions per month, 2017)
	Spanish version: carboncycle spanish.columbia.edu (Launch 2/2011, ~2,000 sessions/month, 2017)
	Previously hosted at carboncycle.aos.wisc.edu and carboncycle.es.wisc.edu
April 2019	College Club of Northern New Jersey, Ridgewood NJ
	Invited speaker "Carbon, climate and the oceans"
October 2017	LDEO Open House, Palisades NY
	Speaker for "A year in a life of a scientist"
February 2017	Field trip for Randall School 4th Grade, Madison WI
	Hosted 56 4 th graders for rotating tank experiments and "science on a sphere" presentations
January 2017	Perpetual Notion, WORT, Madison WI
	On-air interview on "Stability of the Atlantic Meridional Overturning Circulation", 19 Jan 2017
December 2016	Central Time, Wisconsin Public Radio, Madison WI
	On-air interview on "Global warming snapshot for 2016", 22 Dec 2016
December 2016	The Buzz, WORT, Madison WI
	On-air interview on "NASA contributions to Earth Science", 5 Dec 2016
November 2016	WISC TV 3 / Channel3000.com, Madison WI
	On-air interview on "The Record Warmth of 2016" (http://tinyurl.com/hy4pqb7), 16 Nov 2016
October 2016	Nelson Institute and University of Wisconsin News
	Q&A on climate change "Explaining 'terrifying' trends of climate change: Q&A" J. Peek
February 2016	UW News, Science Daily, Insurance Journal, phys.org, Eureka Alert, Nature News & Views
	Various articles associated with McKinley et al. (2016), Nature doi:10.1038/nature16958
December 2015	The Daily Climate, Charlottesville VA
	"Acid trip: Great Lakes could face similar acidification risks as the seas" B. Bienkowski
November 2015	Yale Environment 360, New Haven CT
	"On thin ice: Big northern lakes are being rapidly transformed" C. Katz
October 2015	Wisconsin Science Festival, Madison WI
	Invited plenary talk "Keeping the Great Lakes Great"
July 2015	Wisconsin Public Radio, Madison WI
	Guest on "Joy Cardine Show", 9 July 2015
June 2015	Capital Times, Madison WI
	Op-ed, "Scott Walker, Legislature should stop swinging hammers at education"
December 2014	
	Evening seminar speaker on the ocean and climate change
October 2014	Wisconsin Science Festival, Madison WI
	Invited plenary talk "Ocean Acidification: The other CO ₂ problem"
September 2014	8 1 / 2
	"New reports offer clearest picture yet of rising greenhouse gas emissions" B.C. Howard
June 2014	Radio Ciudad, Buenos Aires, Argentina
	Radio interview on the new US EPA carbon rules (in Spanish)
December 2013	Climate Change: What it means for Wisconsin's economy and natural resources, Madison WI
	Invited Panelist for Forum hosted by Wisconsin Legislature (Representatives Clark and Mursau) and
	Wisconsin Academy of Sciences, Arts and Letters (http://tinyurl.com/mhzlxem)
November 2013	Adhoc Committee on Climate Change and Fossil Fuel Use, UW-Madison, Madison WI
	Panelist, Town Hall
October 2013	Wisconsin Energy Institute, UW-Madison, Madison WI
	Panelist, IPCC Report and EPA Rules
April, Oct 2013	Bradley Learning Center, UW-Madison, Madison WI
	Dinner speaker on climate change science and impacts
April 2013 September 2012	Wisconsin Gazzette, Shorewood WI
	"Extreme Wisconsin: Warmer, wetter, weirder weather ahead" L. Neff
	Dinner speaker for living group supporting freshman women planning on STEM majors
April 2012	Aldo Leopold Nature Center, Monona WI
	Presenter on Antarctic response to climate change; Climate Education Center Grand Opening

"Curiosities: Why does warm Coke go flat so much faster than cold Coke?" J. Sakai WORT, Perpetual Notion Machine, Madison WI Interview on air September 1, 2011 (archive.wort-fm.org/mp3/wort_110901_190001science.mp3) Voice of America, Washington DC "Study: Ocean Less Able to Mitigate Climate Change" R. Skirble CNN International, London, UK "Ocean carbon sinks feeling the heat" M. Knight In Common, Nelson Institute for Environmental Studies, UW-Madison, Madison WI "Illuminating water's role in the carbon cycle and future climate" M. Lepisto Mini Workshop for Carbon Cycle Applet Lesson Plans, Madison WI Organizer. Detailed G6-12 lesson plans developed to accompany carboncycle.aos.wisc.edu Climate Ambassadors Workshop, University of Wisconsin - Madison, Madison WI Lecturer, "Climate and Climate Change: Science Basics" December 2010 NASA Television, http://www.youtube.com/watch?v=hXg4ugCajkE "NASA Science on the Road: Oceans, Carbon, and Climate" S. Cole Chicago Tribune, Chicago IL "Sink or source? Figuring Great Lakes' role in climate change" and "Could acidification threaten Great Lakes?" D. Lockwood June 2010 Climate Ambassadors Workshop, University of Wisconsin - Madison, Madison WI Lecturer, "Climate and Climate Change: Science Basics" April 2010 Whiteside Forum, Morrison IL
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Invited panelist for community forum on the oceans November 2009 New York Times, Wisconsin Week, Science Daily, Bloomberg
Reports, interviews on Nature Geoscience paper, Desai et al. (2009)
November 2009 Wisconsin Public Radio, Superior WI
"Increasing winds over the Great Lakes" M. Simonson
September 2009 Badger Herald, University of Wisconsin - Madison, Madison WI
"2050: Temperature to increase by 4 degrees" K. Mianulli Luk: 2000 Medican W. Medican W
July 2009 AOS & CIMSS, University of Wisconsin - Madison, Madison WI Organizer and lead lecturer, Carbon Cycle and Climate Modeling - A Teacher's Workshop
July 2008 CIMSS, University of Wisconsin - Madison, Madison WI
Invited lecturer, Geosciences Time Scales and Global Climate Change Teacher's Workshop
April 2008 Daily Cardinal, University of Wisconsin - Madison, Madison WI
"Report finds public transit key to curb global warming in state", C. Brace
January 2008 "The Pulse" WTDY 1670AM, Madison WI Interview with host S. Wisniewski on the science of global climate change (on air 1/20/08)
October 2007 Wisconsin State Journal, Madison WI
"Why is The Ocean Salty", J. Sakai. Also appeared in Science Daily
October 2007 Second Annual Wisconsin Climate Change Forum, Madison, WI
Invited panelist
July 2007 CIMSS, University of Wisconsin - Madison, Madison WI
June 2007 Invited lecturer, Remote Sensing Applications in the Geosciences Teacher's Workshop Capital Times, Madison WI
"Local scientist calls global warming theory 'hooey'", S.K. Derby
February 2007 Capital Times, Madison WI
"City lakes offer lesson in climate change – The winter's freeze was second latest", A. Weier
October 2006 First Annual Wisconsin Climate Change Forum, Madison WI
Invited panelist September 2006 Women In Science and Engineering, UW-Madison, Madison WI
Dinner speaker for living group supporting freshman women planning on STEM majors
September 2005 The Why Files, Madison WI
"Hurricanes: The Heat is On", D. Tannebaum

March 2005	Capital Times, Madison WI
	"Global warming debate is over, UW prof says – Calls new study as solid proof as that smoking
	causes cancer", A. Nathans
March 2005	Daily Cardinal, University of Wisconsin - Madison, Madison WI
	"Greenhouse gases further implicated in global warming", P. Dohnal