

GALEN A. MCKINLEY

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EDUCATION

- June 2002 **Massachusetts Institute of Technology** Cambridge, MA
Ph.D. Climate Physics and Chemistry
Thesis: *Interannual Variability of Air-Sea Fluxes of Carbon Dioxide and Oxygen*
- May 1995 **Rice University** Houston, TX
B.S. Civil Engineering with Environmental Option

RESEARCH AND PROFESSIONAL EXPERIENCE

- June 2004 **University of Wisconsin - Madison** Madison, WI
to present *Assistant Professor of Atmospheric and Oceanic Sciences*
I study the coupling of physics and biogeochemistry in the ocean and the Great Lakes in order to better understand and quantify the marine and large lake contributions to the global carbon cycle. I am particularly interested in variability of air-sea carbon and oxygen fluxes on seasonal to decadal timescales, quantification of carbon sinks, and ocean biogeochemical modeling.
- August 2003 **Princeton University / University of Wisconsin - Madison** Princeton, NJ
to May 2004 *Visiting Research Staff / Anna Julia Cooper Postdoctoral Fellow*
Studied Ar and N₂ in a ocean and atmospheric models; worked on refining the global air-sea exchange rate with ¹⁴C and inverse techniques; and continued work on variability of air-sea CO₂ and O₂ fluxes.
- September 2002 **Instituto Nacional de Ecología (National Institute of Ecology)** Mexico City, Mexico
to August 2003 *Consultant*
Analyzed potential public health co-benefits from the simultaneous control of air pollutant and greenhouse gas emissions in Mexico City; capacity building for integrated environmental protection.
- May 2002 to **Massachusetts Institute of Technology** Cambridge, MA
August 2002 *Postdoctoral associate*
Extended thesis work and developed collaborations for continuing projects.
- September 1996 **Research assistant**
to May 2002 Studied the impacts of physical variability on ocean biogeochemical cycles, particularly air - sea fluxes of CO₂ and O₂, using ocean general circulation models. Made preliminary estimates of the impact on air-sea tracer fluxes of the assimilation of sea-surface height data into an ocean model.
- June 1995 **Brown and Root Environmental** Houston, TX
to July 1996 *Environmental specialist*
Assisted industrial clients with environmental compliance; duties included water and soil sampling, hazardous waste abatement, and air pollution modeling.
- Summer 1993 **Clivius Multrum, USA** Newton, MA
Project consultant

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PUBLICATIONS

Bennington, V., G. A. McKinley, D. Ullman and S. Dutkiewicz (2009) What does chlorophyll variability tell us about export and CO₂ flux variability? *Global Biogeochem. Cycles.*, 23, GB3002, doi:10.1029/2008GB00341.

Koch, J., G. A. McKinley, V. Bennington, and D. Ullman (2009), Do hurricanes cause significant interannual variability in the air-sea CO₂ flux of the subtropical North Atlantic?, *Geophys. Res. Lett.*, 36, L07606, doi:10.1029/2009GL037553.

Cassar, N., G.A. McKinley, M.L. Bender, R. Mika, and M. Battle (2008) Comparison of atmospheric Ar/N₂ time-series and paired ocean-atmosphere model predictions, *J. Geophys. Res.* 113, D21122, doi:10.1029/2008JD009817

Nevison, C. D., N. M. Mahowald, S. C. Doney, I. D. Lima, G. R. van der Werf, J. T. Randerson, D. F. Baker, P. Kasibhatla, and G. A. McKinley (2008), Contribution of ocean, fossil fuel, land biosphere, and biomass burning carbon fluxes to seasonal and interannual variability in atmospheric CO₂, *J. Geophys. Res.*, 113, G01010, doi:10.1029/2007JG000408.

Sweeney, C., E. Gloor, A.R. Jacobson, R.M. Key, G.A. McKinley, J. L. Sarmiento, R. Wanninkhof (2007) Constraining global air-sea gas exchange for CO₂ with recent bomb ¹⁴C measurements, *Global Biogeochem. Cycles* 21, GB2015, doi:10.1029/2006GB002784.

McKinley, G.A., T. Takahashi, E. Buitenhuis, F. Chai, J. R. Christian, S. C. Doney, M.-S. Jiang, C. LeQuere, I. Lima, K. Lindsay, J.K. Moore, R. Murtugudde, L. Shi, P. Wetzels (2006) North Pacific carbon cycle response to climate variability on seasonal to decadal timescales, *J. Geophys. Res.* 111, C07S06, doi:10.1029/2005JC003173.

McKinley, G.A., M. Zuk, M. Höjer, M. Avalos, I. Gonzalez, R. Iniestra, I. Laguna, M.A. Martinez, P. Osnaya, and J. Martinez (2005) Quantification of local and global benefits from air pollution control in Mexico City. *Envi. Sci. Technol.* 39, 1954-1961 (doi:10.1021/es035183e).

Peylin, P., P. Bousquet, C. LeQuere, S. Sitch, P. Friedlingstein, G.A. McKinley, N. Gruber, P. Rayner and P. Ciais (2005) Multiple constraints of regional CO₂ flux variations over land and oceans, *Global Biogeochem. Cycles* 19, GB1011, doi: 10/1029/2003GB002214.

McKinley, G.A., C. Rödenbeck, M. Gloor, S. Houweling and M. Heimann (2004) Pacific dominance to global air-sea CO₂ flux variability: A novel atmospheric inversion agrees with ocean models, *Geophys. Res. Lett.* 31, L22308, doi: 10.1029/2004GL021069.

McKinley, G.A., M. J. Follows, and J. Marshall (2004) Mechanisms of CO₂ air-sea flux variability in the Equatorial Pacific and North Atlantic with implications for atmospheric inversions, *Global Biogeochem. Cycles* 18, GB2011, doi:10.1029/2003GB002179.

McKinley, G.A., M. J. Follows, J. Marshall, and S. Fan (2003) Interannual variability of air-sea O₂ fluxes and the determination of CO₂ sinks using atmospheric O₂/N₂, *Geophys. Res. Lett.* 30(3), 1101, doi: 10.1029/2002GL016044.

Battle, M., M. Bender, M.B. Hendricks, D.T. Ho, R. Mika, G.A. McKinley, S. Fan, T. Blaine, and R. Keeling (2003) Measurements and models of the atmospheric Ar/N₂ ratio, *Geophys. Res. Lett.* 30(15), 1786, doi:10.1029/2003GL017411.

McKinley, G.A., M. J. Follows, and J. Marshall (2000) Interannual variability of the air-sea flux of oxygen in the North Atlantic, *Geophys. Res. Lett.* 27, 2933-2936.

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PUBLICATIONS IN PRESS, IN REVIEW, IN PREPARATION

Ullman, D., G.A. McKinley, V. Bennington, and S. Dutkiewicz (2009) Trends in North Atlantic carbon sink: 1992-2006. *Global Biogeochem. Cycles*, *in press*.

Desai, A.R., J.A. Austin, V. Bennington, and G.A. McKinley (2009) Stronger winds over a large lake in response to a weakening air to lake temperature gradient, *Nature Geoscience*, *in press*.

Illari L., J. Marshall, A. Tandon, S. Lee, P. Bannon, R. Najjar, G.A. McKinley, M. Morgan, T. Haine, R. Clark, T. Sikora, and K. J. Mackin (2009) Weather in a Tank: exploiting laboratory experiments in the teaching of meteorology, oceanography and climate, *Bull. Amer. Meteorol. Soc.* *in press*.

Atilla, N., G. A. McKinley, V. Bennington, M. Baehr, N. Urban, M. DeGrandpre, A. Desai and C. Wu (2009), Spatial and temporal variability of the carbon cycle of Lake Superior, *submitted Limnol. & Oceanog.*

McKinley, G.A., V. Bennington, V., N. Atilla, N. Urban, A. Desai, N. Kimura, and C. Wu, Carbon cycling in Lake Superior from 1996-2007: Reconciling data and a coupled physical-biogeochemical model, *in preparation*.

Bennington, V., G. A. McKinley, N. Kimura, C. Wu, N. Atilla, and N. Urban, The general circulation of Lake Superior: Mean and interannual variability from 1979-2008, *in preparation*.

McKinley, G.A., and A. Fay, Understanding variability and trends in the carbon sink of the North Atlantic subpolar gyre, *in preparation*.

AWARDS AND HONORS

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|-------------|--|
| 2008 - 2011 | NASA New Investigator |
| 2003 - 2004 | Anna Julia Cooper Postdoctoral Fellow, from University of Wisconsin - Madison |
| 1999 - 2002 | Earth System Science Fellowship, NASA |
| 2000 - 2001 | Martin Fellow for Sustainability, MIT |
| 1999 | Teaching Assistant Prize, MIT Department of Earth, Atmospheric and Planetary Science |

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PRESENTATIONS

- 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
Poster, "Understanding the carbon budget of Lake Superior"
- 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 significant variability of the air-sea CO₂ 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**, Madison, WI
Colloquium, "Variability in the ocean carbon cycle: A North Atlantic perspective"
- October 2008 **Colorado State University**, Fort Collins, CO
Invited seminar, "Variability in the ocean carbon cycle: A North Atlantic perspective"
- July 2008 **Ocean Carbon and Biogeochemistry Workshop**, Woods Hole, MA
Invited plenary talk, "Carbon sink trends in the Northern Oceans"
- June 2008 **Workshop on Teaching Weather and Climate Using Laboratory Experiments**, U. Chicago
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
Talk, "Trends in the North Atlantic carbon sink"
- April 2008 **NASA Ocean Color Research Team Meeting**, Adelphi, MD
Poster, "The changing North Atlantic carbon cycle"
- March 2008 **Princeton University**, Princeton, NJ
Talk, "Trends and variability in the carbon cycle of the North Atlantic"
- March 2008 **American Geophysical Union, Ocean Sciences**, Orlando, FL
Talk, "Carbon cycle variability and trends at Bermuda and across the North Atlantic"
- January 2008 **American Meteorological Society Annual Meeting**, New Orleans, LA
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
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 CO₂ flux variability: Physical and ecological drivers"
- April 2007 **Surface Ocean CO₂ Variability and Vulnerability Workshop**, UNESCO, Paris, France
Talk, "North Atlantic CO₂ 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
Invited seminar, "Air-sea CO₂ flux variability: Physical and ecological drivers"
- December 2006 **American Geophysical Union, Fall Meeting**, San Francisco, CA
H. Brix, G.A. McKinley, C. Deustch, N. Gruber: Talk, "Mode and intermediate waters in models"
- July 2006 **Ocean Carbon and Biogeochemistry Workshop**, Woods Hole, MA
Poster, "Modeling the seasonal cycle of pCO₂ in the North Atlantic"
- June 2006 **The Art of Climate Modeling, NCAR/ASP Summer School**, Boulder, CO
Summer School Lecture, "Modeling ocean biogeochemistry"
- February 2006 **American Geophysical Union, Ocean Sciences**, Honolulu, HI
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 CO₂ flux variability on seasonal, interannual and decadal timescales"
- November 2005 **University of Maryland**, College Park, MD
Invited seminar, "Air-sea CO₂ flux variability on seasonal, interannual and decadal timescales"

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- November 2005 **Great Lakes Environmental Research Laboratory**, Ann Arbor, MI
Invited seminar, “Air-sea CO₂ flux variability on seasonal, interannual and decadal timescales”
- September 2005 **Seventh International Carbon Dioxide Conference**, Broomfield, CO
Invited plenary talk, “Pacific dominance to global air-sea CO₂ 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
Invited seminar, “CO₂ air-sea flux variability: Ocean models and atmospheric inversions”
- March 2005 **Princeton University**, Princeton, NJ
Talk, “Argon as a tracer of physical processes in the atmosphere and ocean”
- December 2004 **American Geophysical Union, Fall Meeting**, San Francisco, CA
Poster, “Testing ocean models with argon and nitrogen”
- November 2004 **University of Wisconsin, Sustainability and the Global Environment (SAGE)**, Madison, WI
Talk, “Local and global benefits of air pollution control in Mexico City”
- October 2004 **University of Wisconsin, Chaos and Complexity Seminar Series**, Madison, WI
Talk, “CO₂ air-sea flux variability: Ocean models and atmospheric inversions”
- October 2004 **SOLAS Science 2004**, Halifax, Canada
Poster, “Atmospheric Ar/N₂: A Tool for Constraining Atmosphere and Ocean Models”
- June 2004 **NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes**, Seattle WA
Invited plenary talk, “Modeled North Pacific carbon cycle variability”
- May 2004 **Geophysical Fluid Dynamics Laboratory**, Princeton, NJ
Talk, “CO₂ air-sea flux variability: Ocean models and atmospheric inversions”
- March 2004 **Princeton Environmental Institute Postdoctoral Colloquium**, Princeton, NJ
Talk, “Local and global benefits of air pollution control in Mexico City”
- January 2004 **American Geophysical Union, Ocean Sciences Meeting**, Portland, OR
Sweeney, C., E. M. Gloor, A. J. Jacobson, R. M. Key, G.A. McKinley, J.L. Sarmiento,
Poster, “Estimating air-sea gas exchange using bomb ¹⁴C: Revisited”
- December 2003 **American Geophysical Union, Fall Meeting**, San Francisco, CA
Talk, “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
Talk, “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
Talk, “CO₂ air-sea flux variability: ocean models and atmospheric inversions”
- May 2003 **JGOFS Open Science Conference**, Washington, DC
Poster, “Mechanisms of CO₂ air-sea flux variability in the North Atlantic and Equatorial Pacific”
- April 2003 **National University of Mexico, Center for Atmospheric Sciences**, Mexico City
Talk, “Carbon sink variability from ocean models and atmospheric inversions” (in Spanish)
- July 2002 **Princeton University, Atmosphere and Ocean Sciences Program**, Princeton, NJ
Talk, “Interannual variability of air-sea fluxes of carbon dioxide and oxygen”
- February 2002 **American Geophysical Union, Ocean Sciences**, Honolulu, HI
Poster, “Interannual variability in air-sea fluxes of CO₂ and O₂”
- December 2000 **American Geophysical Union, Fall Meeting**, San Francisco, CA
Talk, “A novel approach to export parameterization with application to estimation of global interannual variability in air-sea fluxes of O₂ and CO₂”
- February 2000 **American Geophysical Union, Ocean Sciences**, San Antonio, TX
Talk, “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)

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PROFESSIONAL ACTIVITIES AND SERVICE

- 2008 to present **Carbon Cycle Science Working Group (CCS-WG)**
Committee member, tasked to rewrite the US Carbon Cycle Science Plan
- 2002 to present **Reviewer**
NSF, NASA, NOAA, ArcticNet
GBC, JGR, GRL, DSR, EST, EI, OS/OSD, Biogeoscience, AGU Books, EOS,
Princeton University Press
- May 2009 **International Association of Great Lakes Research Annual Meeting**, Toldeo, OH
Co-convenor and session chair: “Carbon Cycling in the Laurentian Great Lakes”
- 2005 to 2008 **Ocean Carbon and Biogeochemistry Scientific Steering Committee (OCB-SSC)**
Committee member, tasked to advise NSF, NASA and NOAA on research directions
- 2005 to 2008 **Earth Science Women’s Network (ESWN)**
Leadership Board member
- 2004 to 2008 **Review Panel Member**
NASA - Ocean and Ice (2004)
NSF – Chemical Oceanography (2008)
- December 2008 **American Geophysical Union Fall Meeting**, San Francisco, CA
Co-convenor and session chair: “Ocean Carbon Cycle: Decadal Trends in the Global Ocean and Autonomous Observations of the North Atlantic Spring Bloom”
- July 2007 **Ocean Carbon and Biogeochemistry Summer Workshop**, Woods Hole, MA
Co-organizer and session chair for “Changing ocean biogeochemistry: The prediction challenge”
- September 2005 **North American Coastal Margins: The Coastal CO₂ Workshop**, Boulder, CO
Invited participant and session leader
- November 2004 **UW System Women & Science, Opening Workshop for STEM Faculty**, Wisconsin Dells, WI
Participant
- June 2004 **NOAA GCC Workshop: Understanding North Pacific Carbon-cycle Changes**, Seattle WA
Invited speaker and participant
- June 2004 **UCAR/NCAR Junior Faculty Forum on Future Scientific Directions**, Boulder, CO
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-convenor and session chair for Union session: “Health, Air Pollution and Climate”
- March 2003 **Dissertations Initiative for the Advancement of Climate Change Research**, Guanica, PR
Participated in a one-week symposium for recent PhDs in climate change.
- May 2002 **Carbon Cycle Data Assimilation Institute**, Boulder, CO
Participated in the design of an optimal global CO₂ measurement network.
- June 2001 **American Meteorological Society Summer Policy Colloquium**, Washington, DC
Attended a 10-day symposium introducing scientists to the US policy-making process.
- January 1999 **JGOFS Training Course on Biogeochemical Modeling of the Ocean**, Bangalore, India
Participated in a two-week workshop on ocean biogeochemical modeling.

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TEACHING

| | University of Wisconsin - Madison | Madison, WI |
|----------------|---|-------------|
| Fall 2004-09 | <i>Global Climate Processes (ATM OCN 425)</i> | |
| Spring 2008 | Course for senior undergraduates and graduate students covering global energy balance, general circulation of the atmosphere and ocean, climate feedbacks, climate modeling, and global change. | |
| Spring 2009 | <i>Rotating Tank Laboratory (ATM OCN 801)</i> | |
| Spring 2008 | Used rotating tank and data analysis to elucidate key principles of geophysical fluid dynamics. | |
| Spring 2008 | <i>Threats to Wildlife from Global Warming (ATM OCN 980)</i> | |
| Fall 2007 | Graduate seminar on the science and policy important to the listing of polar bears as endangered. | |
| Fall 2007 | <i>Introduction to Physical Oceanography (ATM OCN 660)</i> | |
| Fall 2006 | Graduate introduction to the physical structure and dynamical processes in the ocean. | |
| Fall 2006 | <i>The Ocean Carbon Cycle (ATM OCN 925)</i> | |
| Spring 2005,06 | Graduate seminar covering key ocean carbon cycle processes and their importance to climate. | |
| Spring 2005,06 | <i>Dynamics of the Atmosphere and Ocean II (ATM OCN 311)</i> | |
| Spring 2005,06 | Course for junior undergraduates on intermediate geophysical fluid dynamics. Basic equations of motion and key balances, thermal wind, vorticity, frictional effects, and basic wave concepts. | |
| Spring 2005,06 | <i>Senior Capstone Seminar (ATM OCN 405)</i> | |
| Spring 2006 | Undergraduate seminar on atmospheric and oceanic research, and on writing and presentation skills | |
| Spring 2006 | <i>Climate Change: Science and Impacts (ATM OCN 980)</i> | |
| Fall 2005 | Graduate seminar illuminating the variety of climate change research being done at Wisconsin. | |
| Fall 2005 | <i>Chemical Transport Modeling in the Atmosphere and Ocean (ATM OCN 915)</i> | |
| Fall 2005 | Graduate seminar focusing on current research in chemical transport modeling | |
| Fall 2005 | <i>Independent Study – “Understanding Climate Change” (ATM OCN 699)</i> | |
| Fall 2005 | Advisor for undergraduate independent study. Reading books, papers, and a term paper. | |

ADVISING

| | University of Wisconsin - Madison | Madison, WI |
|--------------|---|-------------|
| | Graduate Students | |
| 2009-present | Jesse Roberts, MS Candidate | |
| 2008-present | Amanda Fay, MS Candidate | |
| 2005-present | Valerie Bennington, PhD Candidate (degree expected in 2010) | |
| 2005-2007 | David Ullman, MS, January 2008 (Best MS thesis award for 2007-2008, AOS Department) | |
| | Postdoctoral Scholars | |
| 2009-present | Dr. Colleen Mouw | |
| 2007-2009 | Dr. Nazan Atilla (now at UW-Madison Department of Zoology) | |
| 2007 | Dr. Nobuaki Kimura (now at National United University of Taiwan) | |
| | Undergraduate Student Researchers | |
| 2009-present | Victoria Vasys | |
| 2007-2008 | Jennifer Koch (now at US EPA) | |

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INTERVIEWS AND OUTREACH

- September 2009 **Badger Herald, University of Wisconsin - Madison, Madison WI**
“2050: Temperature to increase by 4 degrees” K. Mianulli
- 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**
Invited lecturer, Remote Sensing Applications in the Geosciences Teacher’s Workshop
- June 2007 **Capital Times, Madison WI**
“Local scientist calls global warming theory ‘hooley’”, 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 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