

Kevin Robert Gurney

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EDUCATION

Ph.D. 2004 – Ecology, Colorado State University
M.P.P 1996 – Public Policy, University of California, Berkeley
S.M. 1990 – Meteorology, Massachusetts Institute of Technology
B.A. 1986 – Environmental Physics, University of California, Berkeley

PROFESSIONAL EXPERIENCE

Associate Professor, Honors Faculty, School of Life Sciences, Arizona State University, Aug 2010 – present
Affiliated Faculty, School of Geographical Sciences and Urban Planning, Mar 2013 - present
Graduate Faculty, School of Sustainability, Arizona State University, Jan 2013 - present
Senior Sustainability Scientist, Global Institute of Sustainability, Arizona State Univ, Aug 2010 – present
Associate Professor, Dept of Earth and Atmos Sci & Dept of Agronomy, Purdue University, Aug 2009 – Aug 2010
Assistant Professor, Dept of Earth and Atmos Sci & Dept of Agronomy, Purdue University, Aug 2005 – Aug 2009
Associate Director, Purdue Climate Change Research Center, Purdue University, Aug 2005 – Aug 2008
Research Scientist I, Department of Atmospheric Science, Colorado State University, July 1998 – August 2005
Staff Research Associate, Bren School of Env. Sci and Mngmnt, Univ of Ca, Santa Barbara, Apr 97 – June 98
Senior Scientist, Institute for Energy and Environmental Research, September 1992 – January 1997
Research Associate, Atmospheric and Environmental Research, Inc., February 1992 – September 1992
Research Associate, Tellus Institute, February 1990 - October 1991
Research Assistant, National Oceanic and Atmospheric Administration, Summer 1988
Research Intern, Environmental Sciences Division, Lawrence Livermore National Laboratory, Nov 1986 - Sept 1987
Student Assistant, Atmospheric Aerosol Research Group, Lawrence Berkeley National Lab, Feb 1985-Oct 1986

HONORS AND AWARDS

Nominated for AGU's Macelwane Medal 2014
Sigma Xi Young Investigator's Award 2010
NSF CAREER Award 2009
IPCC contributing author and reviewer (IPCC was organizational co-recipient of the 2007 Nobel Peace Prize)
Named 2007 "Air Conservationist of the Year", from the Indiana Wildlife Federation

UNIVERSITY SERVICE

Graduate Degree Program in Ecology executive committee 1999-2000
Graduate Degree Program in Ecology, Front Range Student Ecology Symposium Chairman 1999-2000
Undergraduate programs committee: 2013 - present
Safety committee: 2010 – 2013
Diversity Committee, Purdue University, Aug 2005 – Aug 2010

OTHER NATIONAL OR INTERNATIONAL PROFESSIONAL SERVICE

Chapter co-lead State of the Carbon Cycle Report 2, June 2016 - present
Expert Witness for state of Minnesota on utilization of the social cost of carbon: 2015
North American Carbon Program All-investigators Meeting steering committee member, 2015
Carbon cycle science steering working group (CCSWG) to the Carbon science interagency working group (CCIWG)
Global Carbon Program Science Steering Committee: 2008 - 2013
NASA review panel member, Instrument Incubator Program 2001
Larimer County Environmental Advisory Board 2000-2002

NOAA Review Panel, Global Carbon Cycle Program 2005
NOAA Global Carbon Cycle Scientific Steering Committee, 2006 - present
NASA Review Panel, New Investigator Program, April 2006
Carbon Management, Editorial Board, 2009 - present
MCI Task Force Committee member, 2005 – present
Carbon Balance and Management, Editorial Board member, 2006 - present
Carbon Dioxide Information Analysis Center, external advisory committee member, 2007 - present
United Nations Framework Convention on Climate Change attendee/advisor since 1996

PROFESSIONAL SOCIETY

American Geophysical Union member since 1990
Sigma Xi member since 2000
Phi Kappa Phi lifetime member since 2004
Ecological Society of America member since 2004

PEER-REVIEWED PUBLICATIONS

2016

101. Mendoza, D., J. Lin, K.R. Gurney, D. Mallia, D. Catharine, L. Mitchell, R. Bares, E. Crosman, S. Hoch, R. Patarasuk, D. O’Keeffe, Y. Song, J. Huang, P. Rao, M. Buchert, P.E. Dennison, J. Reynolds, J.R. Ehleringer (2016) Comparing a high resolution urban CO₂ emission inventory against atmospheric observations in Salt Lake City: a parameter sensitivity analysis, *in preparation*.
100. Davis, K.J., A. Deng, T. Lauvaux, N.L. Miles, S.J. Richardson, D. Sarmiento, **K.R. Gurney**, R.M. Hardesty, A. Brewer, P.B. Shepson, M.O. Cambaliza, C. Sweeney, J. Turnbull, J. Whetstone, A. Karion (2016) The Indianapolis Flux Experiment (INFLUX): A test-bed for developing anthropogenic greenhouse gas measurements, *submitted to Elementa*.
99. Liu, J., K. Bowman, D. Schimel, N. Parazoo, Z. Jiang, M. Lee, A. Bloom, D. Wunch, **K.R. Gurney**, D. Menemenlis, M. Gierach, D. Crisp, A. Eldering (2016) Contrasting responses of tropical land carbon fluxes to the 2015 El Nino, *submitted to Science*.
98. Miles, N., S.J. Richardson, T. Lauvaux, K.J. Davis, A. Deng, J. Turnbull, A. Karion, C. Sweeney, **K.R. Gurney**, R. Patarasuk, I. Razlivanov, M.O. Cambaliza, P.B. Shepson (2016) Quantification of urban atmospheric boundary layer greenhouse gas dry mole fraction enhancements: Results from the Indianapolis Flux Experiment (INFLUX), *submitted to Elementa*
97. Nathan, B., T. Lauvaux, J. Turnbull, C. Sweeney, **K.R. Gurney** (2016) Investigations Into the Use of Multi-Species Measurements for Source Apportionment of the Indianapolis Fossil Fuel CO₂ Signal, *submitted to Elementa*
96. Heimbürger, A.M.F., P.B. Shepson, B.H. Stirm, C. Susdorf, J. Turnbull, M.O.L. Cambaliza, O.E. Salmon, A.-E.M. Kerlo¹, T.N. Lavoie, R.M. Harvey, K.J. Davis, T. Lauvaux, A. Karion, C. Sweeney, W.A. Brewer, R.M. Hardesty, **K.R. Gurney**, J. Whetstone (2016) Precision Assessment for the Aircraft Mass Balance Method for Measurement of Urban Greenhouse Gas Emission Rates, *submitted to Elementa*
95. Wu, K., T. Lauvaux, K.J. Davis, A. Deng, I. Lopez Coto, **K.R. Gurney**, R. Patarasuk (2016) Joint inverse estimation of fossil fuel and biogenic CO₂ fluxes in an urban environment: An observing system simulation experiment, *submitted to Elementa*
94. **Gurney, K.R.**, J. Liang, R. Patarasuk, D. O’Keeffe, M. Hutchins, T. Lauvaux, J.C. Turnbull, P.B. Shepson, K.J. Davis, J. Whetstone (2016) Reconciling the differences between a bottom-up and inverse-estimated FFCO₂ emissions estimate in a large US urban area, *submitted to Elementa*.
93. **Gurney, K.R.**, J. Liang et al. (2016) Accounting for the differences between a bottom-up and inverse-estimated FFCO₂ emissions estimate in a large US urban area, *in preparation for Elementa*.
92. Bowman, K., J. Liu, A. Bloom, N. Parazoo, M. Lee, Z. Jiang, D. Menemenlis, M. Gierach, G. Collatz, **K.R. Gurney** (2016) Global and Brazilian carbon response to El Nino Modoki 2011-2010, *submitted to Earth and Space Science*
91. Huang, J. and **K.R. Gurney** (2016) Impact of climate change on U.S. building energy demand: Financial implications for consumers and energy suppliers, *under review at Energy and Buildings*.
90. Mitchell, L., J.C. Lin, D.R. Bowling, D.E. Pataki, C. Strong, A.J. Schauer, R. Bares, S.E. Bush, B.B. Stephens, D. Mendoza, D. Mallia, L. Holland, **K.R. Gurney**, J.R. Ehleringer (2016) Long-term urban carbon dioxide observations reveal spatial and temporal dynamics related to urban characteristics and growth, submitted to the *Proceedings of the National Academy of Sciences*.

89. J. Huang and **K.R. Gurney** (2016) Large increases in U.S. peak electricity demand events due to more frequent, intense heat waves, in preparation for the *Proceedings of the National Academy of Sciences*.
88. Schimel, D., B. Moore, P. Sellers et al. (2016) Observing the Carbon-Climate System, *under review at the Bulletin of the American Meteorological Society*
87. Rao, P., **K.R. Gurney**, R. Patarasuk, Y. Song, C.E. Miller, R. Duren, A. Eldering (2016) Spatio-temporal variations in onroad vehicle fossil fuel CO₂ emissions in the Los Angeles Megacity, *under review at Atmospheric Environment*
86. Cui, X., S. Newman, X. Xu, A.E. Andrews, J. Miller, S. Lehman, Y.-K. Hsu, S. Jeong, J. Zhang, C. Priest, M. Campos-Pineda, **K.R. Gurney**, M.L. Fischer, *under review at Journal of Geophysical Research - Atmosphere*
85. Fischer, M.L., N. Parazoo, K. Brophy, X. Cui, S. Jeong, J. Liu, R. Keeling, T. Taylor, H. Graven, **K.R. Gurney**, A. Jacobson, J. Collatz, T. Oda (2016) Simulated Estimation of California Fossil Fuel and Biosphere Carbon Dioxide Exchanges Combining In-situ Tower and Satellite Column Observations, *under review at J. Geophys. Res.*
84. **Gurney, K.R.**, J. Huang and K. Coltin (2016) [Bias present in US federal agency power plant CO₂ emissions data and implications for the US clean power plan](#), *Env. Res. Lett.*, **11**, 064005, doi: 10.1088/1748-9326/11/6/064005.
83. Huang, J. and **K.R. Gurney** (2016) [Impacts of climate change on US building energy consumption: importance of building type, building technology, and space-time](#), *Energy*, **111**, 137-153.
82. Huang, J. and **K.R. Gurney** (2016) [The hidden spatiotemporal vulnerability of US building energy demand to climate change](#), *Climatic Change*, doi:10.1007/s10584-016-1681-6.
81. Lauvaux, T., N.L. Miles, A. Deng, S.J. Richardson, M.O. Cambaliza, K.J. Davis, B. Gaudet, **K.R. Gurney**, J. Huang, D. O’Keeffe, Y. Song, A. Karion, T. Oda, R. Patarasuk, D. Sarmiento, P. Shepson, C. Sweeney, J. Turnbull, and K. Wu (2016) [High resolution atmospheric inversion of urban CO₂ emissions during the dormant season of the Indianapolis Flux Experiment \(INFLUX\)](#), *Journal of Geophysical Research*, **121**, doi:10.1002/2015JD024473
80. Newman, S., X. Xu, **K.R. Gurney**, Y.-K. Hsu, K.-F. Li, X. Jiang, R. Keeling, S. Feng, D. O’Keeffe, R. Patarasuk, K.W. Wong, P. Rao, M.L. Fischer, and Y.L. Yung (2016) [Toward consistency between trends in bottom-up CO₂ emissions top-down atmospheric measurements in the Los Angeles megacity](#), *Atmos. Chem. Phys.*, **16**, 3843-3863.
79. Patarasuk, P., **K.R. Gurney**, D. O’Keeffe, Y. Song, J. Huang, P. Rao, M. Buchert, J. Lin, D. Mendoza, J.R. Ehleringer (2016) [Application of high-resolution fossil fuel CO₂ emissions quantification to urban climate policy in Salt Lake County, Utah USA](#), *Urban Ecosystems*, **19**(3), 1013-1039. DOI 10.1007/s11252-016-0553-1
78. Tian, H., C. Lu, P. Ciais, A.M. Michalak, J.G. Canadell, E. Saikawa, D.N. Huntzinger, **K.R. Gurney**, S. Sitch, B. Zhang, J. Yang, P. Bousquet, L. Bruhwiler, G. Chen, E. Dlugokencky, P. Friedlingstein, J. Melillo, S. Pan, B. Poulter, R. Prinn, M. Saunio, C.R. Schwalm, S.C. Wofsy (2016) [Biogenic CH₄ and N₂O emissions overwhelm land CO₂ sink, contributing to climate change](#), *Nature*, doi: 10.1038/nature16946.
77. Feng, S., T. Lauvaux, S. Newman, P. Rao, R. Ahmadov, A. Deng, L. I. Díaz-Isaac, R. M. Duren, M. L. Fischer, C. Gerbig, **K.R. Gurney**, J. Huang, S. Jeong, Z. Li, C. E. Miller, D. O’Keeffe, R. Patarasuk, S. P. Sander, Y. Song, K. W. Wong, and Y. L. Yung (2016) [LA Megacity: a High-Resolution Land-Atmosphere Modelling System for Urban CO₂ Emissions](#), *Atmospheric Chemistry and Physics*, **16**, 9010-9045.
76. Wong, K.W., T.J. Pongetti, T. Oda, P. Rao, **K.R. Gurney**, S. Newman, R. Duren, C.E. Miller, Y.L. Yung, and S.P. Sander (2016) Monthly trends of top-down methane emissions in Los Angeles Basin from 2011 to 2015, *Atmospheric Chemistry and Physics*, **16**, 13121-13130
75. Zhang, X., **K.R. Gurney**, P.J. Rayner, D.F. Baker, and Y. Liu (2016) [Sensitivity of simulated CO₂ concentration to sub-annual variations in fossil fuel CO₂ emissions](#), *Atmospheric Chemistry and Physics*, **16**, 1907-1918
- 2015**
74. **Gurney, K.R.**, R. Patarasuk, I. Razlivanov, Y. Song, D. O’Keeffe, J. Huang, Y. Zhou, P. Rao (2015) [Comment on “Analysis of high-resolution utility data for understanding energy use in urban systems”](#), *J. Ind. Ecol.*, DOI: 10.1111/jiec.12358
73. **Gurney, K.R.**, P. Romero-Lankao, K. Seto, C. Kennedy, N., Grimm, J., Ehleringer, P. Marcotullio, S. Pincetl, J.J. Feddema, S. Hughes, M.V. Chester, L. Hutya, J. Sperling, and D. Runfola (2015) [Climate change: Track urban emissions on a human scale](#), *Nature (Comment)*, **525**, 179-181 (10 September 2015), doi: 10.1038/525179a
72. Ogle, S., K. Davis, T. Lauvaux, A. Schuh, D. Cooley, T. O. West, L. S. Heath, N. Miles, S. Richardson, F. Jay Breidt, **K.R. Gurney**, and S. Denning (2015) An Approach for [Verifying Greenhouse Gas Emissions Inventories with Atmospheric CO₂ Measurement Data](#), *Env. Res. Lett.* **10**, doi:10.1088/1748-9326/10/3/034012
71. Turnbull, J., C. Sweeney, A. Karion, T. Newberger, P. Tans, S. Lehman, K.J. Davis, N.L. Miles, S.J. Richardson, T. Lauvaux, M.O. Cambaliza, P. Shepson, **K.R. Gurney**, Y. Song, I. Razlivanov, A. Zondervan (2015) [Towards quantification of fossil fuel CO₂ and trace gas emissions from an urban area: Results from the INFLUX experiment](#), *Journal of Geophysical Research, Atmos.*, **120**. DOI: 10.1002/2014JD022555.

70. **Gurney, K.R.** (2015) [What is the role for carbon cycle science in the proposed EPA power plant rule?](#) *Earth Perspectives*, **2**:1, DOI: 10.1186/s40322-015-0028-1.
69. Cambaliza, O.M., P. B. Shepson, J. Bogner, D. R. Caulton, B. Stirm, C. Sweeney, S.A. Montzka, **K.R. Gurney**, K. Spokas, O.E. Salmon, T.N. Lavoie, A. Hendricks, K. Mays, J. Turnbull, B.R. Miller, T. Lauvaux, K. Davis, A. Karion, B. Moser, C. Miller, C. Obermeyer, J. Whetstone, K. Prasad, N. Miles, S. Richardson (2015) [Quantification and source apportionment of the methane emission flux from the city of Indianapolis](#), *Elementa: Science of the Anthropocene*, doi: 10.12952/journal.elementa.000037.

2014

68. L.M. Bruhwiler, E. Dlugokencky, K. Masarie, M. Ishizawa, A. Andrews, J. Miller, C. Sweeney, P. Tans, D. Worthy, S. Houweling, M. Krol, P. Bergamaschi, C. Frankenberg, E.J. Dlugokencky, I. Morino, J. Notholt, V. Sherlock, D. Wunch, V. Beck, C. Gerbig, H. Chen, E.A. Kort, T. Röckmann, I. Aben, S.X. Fang, L.X. Zhou, P.P. Tans, P. Ciais, M. Steinbacher, L. Xu, T. Luan, D. Helmig, V. Petrenko, P. Martinerie, E. Witrant, A. Zuiderweg, R. Holzinger, J. Hueber, C. Thompson, J.W.C. White, W. Sturges, A. Baker, T. Blunier, D. Etheridge, M. Rubino, C. Cressot, F. Chevallier, P. Bousquet, C. Crevoisier, A. Fortems-Cheiney, R. Parker, I. Pison, R.A. Scheepmaker, S.A. Montzka, P.B. Krummel, L.P. Steele, R.L. Langenfelds, B.W. LaFranchi, G. Pétron, J.B. Miller, S.J. Lehman, A.E. Andrews, B. Hall, B.R. Miller, W. Neff, P.C. Novelli, J.C. Turnbull, D.E. Wolfe, **K.R. Gurney**, T.P. Guilderson, M. Inoue, O. Uchino, Y. Miyamoto, Y. Yoshida, T. Yokota, T. Machida, Y. Sawa, H. Matsueda, S.C. Biraud, T. Tanaka, S. Kawakami, P.K. Patra, S. Basu, S. Guerlet, A. Butz, O. Hasekamp, P. Krummel, P. Steele, R. Langenfelds, M. Torn, S. Biraud, B. Stephens, A. Fraser, P.I. Palmer, L. Feng, H. Boesch, A. Cogan, P.J. Fraser, S. O'Doherty, R.G. Prinn (2014) CarbonTracker-CH₄: an assimilation system for estimating emissions of atmospheric methane, *Atmos. Chem. Phys.* **14**, 3991-4012.
67. Romero-Lankao, P., **K.R. Gurney**, K. Seto, M. Chester, R.M. Duren, S. Hughes, L.R. Hutyrá, P. Marcotullio, L. Baker, N.B. Grimm, C. Kennedy, E. Larson, S. Pincetl, D. Runfola, L. Sanchez, G. Shrestha, A. Sarzynski, J. Sperling, E. Stokes (2014) [Towards a more integrated understanding of urbanization, urban areas and the carbon cycle](#), *Earth's Future*, **2**(10), 515-532.
66. Hutyrá, L., R. Duren, **K.R. Gurney**, N. Grimm, E. Kort, E. Larson, G. Shrestha (2014) [Urbanization and the carbon cycle: Current capabilities and research outlook from the natural sciences perspective](#), *Earth's Future*, **2**(10), 473-495, doi: 10.1002/2014EF000255
65. **Gurney, K.R.** (2014) [The urban landscape: recent research quantifying carbon emissions down to the street level](#), *Carbon Management*, doi: 10.1080/17583004.2014.986849.
64. **Gurney, K.R.**, Huang, J. and K. Coltin (2014) Comment on Quick, J.C. (2014) Carbon dioxide emission tallies for 210 U.S. coal-fired power plants: A comparison of two accounting methods. *J. Air Waste Manage. Assoc.* **64**: 73-79, *J. Air Waste Manage Assoc.* **64**(11):1215-1217.
63. Zhang, X., **K.R. Gurney**, P. Rayner, Y. Liu, S. Asefi-Najafabady (2014) [Sensitivity of simulated CO₂ concentration to regridding of fossil fuel CO₂ emissions along global coastlines](#), *Geosci. Model Dev.*, **7**, 2867-2874.
62. Asefi-Najafabady, S., P. J. Rayner, **K.R. Gurney**, A. McRobert, Y. Song, K. Coltin, C. Elvidge, K. Baugh (2014) [A new global gridded dataset of CO₂ emissions from fossil fuel combustion: Methodology, evaluation and analysis](#), *J. Geophys. Res.* DOI: 10.1002/2013JD021296.
61. Cambaliza, O., P. B. Shepson, D. Caulton, B. Stirm, D. Samarov, **K.R. Gurney**, J. Turnbull, K. J. Davis, A. Possolo, A. Karion, C. Sweeney, B. Moser, A. Hendricks, T. Lauvaux, K. Mays, J. Whetstone, J. Huang, I. Razlivanov, N. L. Miles, and S. J. Richardson (2014) [Assessment of uncertainties of an aircraft-based mass-balance approach for quantifying greenhouse gas emissions](#), *Atmospheric Chemistry and Physics*, **14**, 9029-9050, doi:10.5194/acp-14-9029-2014.

2013

60. Ciais, P., A. J. Dolman, A. Bombelli, R. M. Duren, A. Peregon, P. Rayner, C. Miller, N. Gobron, G. Kinderman, G. Marland, N. Gruber, F. Chevallier, R. J. Andres, G. Balsamo, L. Bopp, F.-M. Bréon, G. Broquet, R. J. Dargaville, T. Battin, A. Borges, H. Bovensmann, M. Buchwitz, J. H. Butler, J. G. Canadell, R. B. Cook, R. DeFries, R. Engelen, **K.R. Gurney**, C. Heinze, M. Heimann, A. Held, M. Henry, B. E. Law, S. Luyssaert, J. Miller, T. Moriyama, C. Moulin, R. B. Myneni, C. Nussli, M. Obersteiner, D. Ojima, Y. Pan, J.-D. Paris, S. L. Piao, B. Poulter, S. Plummer, S. Quegan, P. Raymond, M. Reichstein, L. Rivier, C. Sabine, D. Schimel, O. Tarasova, R. Valentini, G. van der Werf, D. E. Wickland, M. Williams, and C. Zehner (2013) [Current systematic carbon cycle observations, and needs for implementing a policy-relevant carbon observing system](#), *Biogeosciences*, **11**, 3547-3602, doi: 10.5194/bg-11-3547-2014.
59. Peylin, P., R. M. Law, **K.R. Gurney**, F. Chevallier, A. R. Jacobson, T. Maki, Y. Niwa, P. K. Patra, W. Peters, P. J. Rayner, C. Rödenbeck, and X. Zhang (2013) [Global Atmospheric Carbon Budget: results from an ensemble of atmospheric CO₂ inversions](#), *Biogeosciences*, **10**, 6699-6720.

58. LaFranchi, B.W., G. Pétron, J.B. Miller, S.J. Lehman, A.E. Andrews, E. Dlugokencky, B.R. Miller, S.A. Montzka, B. Hall, W. Neff, C. Sweeney, J.C. Turnbull, D.E. Wolfe, P.P. Tans, **K.R. Gurney**, T.P. Guilderson (2013) [Constraints on emissions of carbon monoxide, methane, and a suite of hydrocarbons in the Colorado Front Range using observations of ¹⁴CO₂](#), *Atmos. Chem. Phys.*, **13**, 11101-11120, doi:10.5194/acp-13-11101-2013.
57. Nevison, C.D., D.F. Baker, and **K.R. Gurney** (2013) A methodology for estimating seasonal cycles of atmospheric CO₂ resulting from terrestrial net ecosystem exchange (NEE) fluxes using the Transcom T3L2 pulse-response functions, *Geosci Model Dev. Disc.* **5** (3), 2789-2809.
56. Zhang, X., **K.R. Gurney**, P. Peylin, Chevallier, F., Law, R., Patra, P.K., Rayner, P.J., Roedenbeck, C., Krol, M. (2013) [On the variations of regional CO₂ fluxes over temperate and boreal North America](#), *Glob. Biogeochem. Cyc.*, **27** doi:10.1002/gbc.20091
55. Nassar, R., L. Napier-Linton, **K.R. Gurney**, R.J. Andres, T. Oda, F. Vogel, F. Deng (2013) [Improving the temporal and spatial distribution of CO₂ emissions from global fossil fuel emission datasets](#), *J. Geophys. Res.*, **118**, 917-933 doi:10.1029/2012JD018196
54. Newman, S., S. Jeong, M. Fischer, X. Xu, C. Haman, B. Lefer, S. Alvarez, B. Rappenglueck, E.A. Kort, A.E. Andrews, J. Peischl, **K.R. Gurney**, C.E. Miller, and Y.L. Yung (2013) [Diurnal tracking of anthropogenic CO₂ emissions in the Los Angeles basin mega-city during spring, 2010](#), *Atm Chem and Physics*, **13**: 4359-4372
53. Mendoza, D., **Gurney, K.R.**, Geethakumar, S., Chandrasekaran, V., Zhou, Y., I. Razlivanov (2013) [U.S. Regional Greenhouse Gas Emissions Mitigation Implications based on High-Resolution Onroad CO₂ Emissions Estimation](#), *Energy Policy*, **55**, 386-395.

2012

52. **Gurney, K.R.**, Razlivanov, I., Song, Y. Zhou, Y., Benes, B., M. Abdul-Massih (2012) [Quantification of fossil fuel CO₂ on the building/street scale for a large US city](#) *Environ. Sci. & Tech.*, **46**, 12194-12202, dx.doi.org/10.1021/es3011282
51. Castillo, K.G. and **K.R. Gurney** (2013) [A Sensitivity Analysis of Surface Biophysical, Carbon, and Climate Impacts of Tropical Deforestation Rates in CCSM4-CNDV](#), *J. of Climate*, **26** (3), 805-821.
50. Castillo, K., Raymond, L. and **K.R. Gurney** (2012) [REDD+ in Developing Countries: Thinking Outside the Carbon Box](#), *Carbon Management*, **3**(5), 457-466.
49. Cragg, M.I. Y. Zhou, **K.R. Gurney**, and M.E. Kahn (2013) [Carbon Geography: The Political Economy of Congressional Support for Legislation Intended to Mitigate Greenhouse Gas Production](#), *Economic Inquiry*, DOI: 10.1111/j.1465-7295.2012.00462.x
48. **Gurney, K.R.**, Castillo, C.K.G., X. Zhang, and B. Li (2012) [A positive carbon feedback to ENSO and volcanic aerosols in the tropical terrestrial biosphere](#), *Glob. Biogeochem. Cyc.* **26**, GB1029, doi:10.1029/2011GB004129
47. Brioude, J., G. Petron, G.J. Frost, R. Ahmadov, W.M. Angevine, E.-Y. Hsie, S.-W. Kim, S.-H. Lee, S.A. McKeen, M. Trainer, F.C. Fehsenfeld, J.S. Holloway, J. Peischl, T.B. Ryerson, **K.R. Gurney** (2012) [A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO₂ flux from Houston, Texas](#), *J. Geophys. Res.* **117**, D05312, 15 pp., doi:10.1029/2011JD016918
46. Castillo, C.K.G and **K.R. Gurney** (2012) [Surface biophysical-climate impacts of tropical deforestation with time-dependence: Sensitivity to deforestation rates](#), *J. of Earth Interactions*, **16**, 1-23, 10.1175/2011EI390.1

2011

45. Zhou, Y., Weng, Q., **Gurney, K.R.**, Shuai, Y. and X. Hu (2011) [Estimation of the relationship between remotely sensed anthropogenic heat discharge and building energy use](#), *International Society for Photogrammetry and Remote Sensing*, **67**, 65-72.
44. **Gurney, K.R.** (2011) [Observing Human CO₂ Emissions](#), *Carbon Management*, **2** (3), 223-226.
43. Andryscio, N., Rosen, P., Popescu, V., Benes, B., and **K.R. Gurney** (2011) [Experiences in Disseminating Educational Visualizations](#), *International Symposium on Visual Computing*, **2**, 239-243.
42. **Gurney, K.R.** and W. Eckels, (2011) [Trend estimates in regional land-atmosphere carbon exchange and their seasonal drivers derived from atmospheric CO₂ inversions](#), *Tellus B*, **25**, DOI: 10.1029/2010GB003813.
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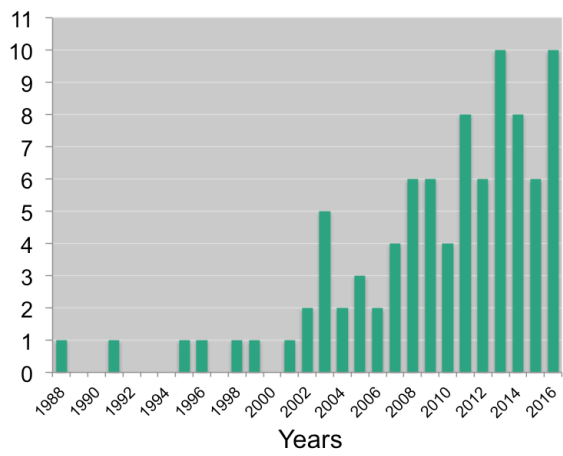
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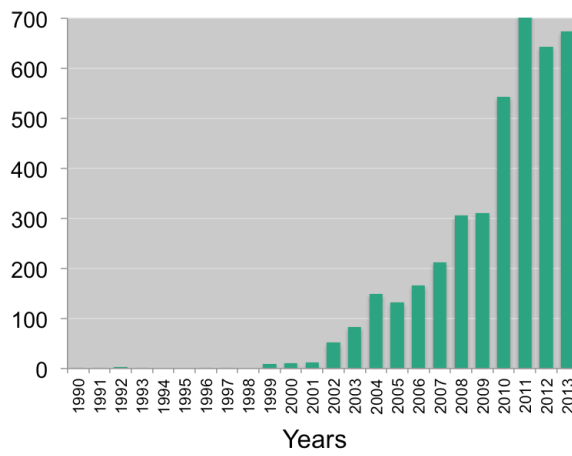
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