

CURRICULUM VITAE

(updated August 25, 2016)

BEVERLY E. LAW

Professor, Global Change Biology & Terrestrial Systems Science
Adjunct, College of Oceanic & Atmospheric Sciences
328 Richardson Hall
Department of Forest Ecosystems & Society
Oregon State University, Corvallis, OR 97331
<http://terraweb.forestry.oregonstate.edu>

Research and Teaching Focus on Terrestrial Ecosystem Processes, Global Change Ecology. Research focus is on the response of terrestrial ecosystem biophysical and biogeochemical processes to climate and disturbance. Recent focus has been on the study of climate-related mortality in forests, and the effects of human actions on carbon and water processes using satellite and in situ observations with earth system modeling. Analysis spans the scale of experiments on individual trees to ecosystem-atmosphere exchange of carbon dioxide, water vapor and energy, and landscape to regional analysis of structural and functional response of terrestrial ecosystems to current and future climate and land use.

PROFESSIONAL EXPERIENCE

Oregon State University, Corvallis, OR: Professor of Global Change Biology & Terrestrial Systems Science, Dept. of Forest Ecosystems & Society (2006-present); Adjunct appointment, College of Earth, Oceanic & Atmospheric Sciences (1999-present); Assoc. Professor, College of Forestry (tenured) (2003-2006); Assoc. Professor, Senior Research, College of Forestry (2002-2003); Asst. Professor, Senior Research, College of Forestry (1999-2002); Post-doctoral Faculty Research Associate, Center for Analysis of Environmental Change, College of Oceanic & Atmospheric Sciences (1995-1998); Graduate Research Assistant, Department of Forest Science (1990-1994)
Director, TERRA-PNW, OSU (2000-present)
National Center for Atmospheric Research, Advanced Study Program, Faculty Fellow, climate-carbon coupled modeling (2008)
Forest Ecologist, Environmental Monitoring & Assessment Program, US EPA (1988-1990)
Visiting Fellow, Swedish University of Agricultural Sciences, Flakaliden, Sweden (1999)

EDUCATION

Ph.D. Forest Science - Ecophysiology, 1993. Oregon State University, Corvallis, OR.
Dissertation title: Remote sensing of radiation interception by vegetation to estimate aboveground net primary production across western Oregon. (Dr. Richard Waring, advisor)
B.S. Forest Resources & Conservation - Forest Management, 1980, University of Florida, Gainesville, FL.

PROFESSIONAL AFFILIATIONS

- American Association for the Advancement of Science (AAAS)
- American Geophysical Union (AGU)
- Ecological Society of America (ESA)

HONORS AND AWARDS

Fellow, American Geophysical Union (AGU), 2014

Fellow, Aldo Leopold Leadership Fellow, 2004

World Meteorological Organization Norbert Gerbier-MUMM International Award for meteorology publication of the year, 2004

Thomson Reuters Highly Cited Researcher with publications in the top 1% of citations in Agricultural Sciences for the decades 2002-2012, and 1993-2003

OSU Forest Science Graduate Student Award for Outstanding Faculty, 2007

College of Forestry Dean's Award, Outstanding Service, 10 Year Strategic Plan, 2001

College of Forestry Dean's Award for Outstanding Achievement in Research, 2000

EXTERNAL PROFESSIONAL ACTIVITIES

National and International Science Program Leadership

Intergovernmental Panel on Climate Change Expert Panel for Technical Assessment of IPCC Inventory Guidelines for Agriculture, Forestry, and Other Land Uses, Wollongong, Australia, 2016

World Meteorological Organization Planning Team for an Integrated Global Greenhouse Gas Information System (IG³IS), 2015-2016

Integrated Carbon Observation System (ICOS) of Sweden, Advisory Board, 2014-present

National Climate Assessment (USGCRP), Co-lead author for Biogeochemistry Chapter, 2011-2014

AmeriFlux research network, Science Steering Committee, 2012-present

Integrated Carbon Observation System (ICOS) of Europe, Advisory Board, 2009-present

United Nations panel on Global Terrestrial Observing System – Terrestrial Carbon Observations, Chair 2009-2011, Panel 2005-2008; sponsored by UNEP, WMO, FAO, UNESCO, ICSU for detecting and managing global and regional environmental change

AmeriFlux research network, Science Chair, 2001-2011

COP 16, UN Framework Convention on Climate Change, World Meteorological Organization Delegate, Cancun, MX, 2010

Intergovernmental Panel on Climate Change Expert Panel on Uncertainty and Validation of Emission Inventories, US Delegate, Utrecht, The Netherlands, 2010

Group on Earth Observations – Forest Carbon Tracking, Task Co-Lead, 2010

Carbon and Greenhouse Gas Management in Europe (GHG-Europe) Advisory Board, 2009-2013

National Center for Ecological Analysis and Synthesis (NCEAS) Working Group, Terrestrial Ecosystems and Climate Policy, 2008

U.S. Carbon Cycle Science Program (USGCRP & Interagency Working Group), Science Steering Group, 2003-2009

North American Carbon Program (NACP & Interagency Working Group), Science Steering Committee, 2004-2009

U.S.-European Union bilateral agreement, Climate Change Science and Technology Research – US point of contact on scientific exchanges in carbon cycle science, reported to US Department of State, 2004-2008
U.S.-Italy Bi-Lateral Agreement, Climate Change Research Committee – US point of contact on scientific exchanges in carbon cycle science, reported to US Department of State, 2003 - 2008
U.S.-Canada Bi-lateral Agreement, Climate Change Working Group, Lead US contact for boreal ecosystem research and monitoring sites program, 2003-2006
Nordic Centres of Excellence, International Science Advisory Board (Finland, Sweden, Iceland, Norway, 2003-2008

National Academies and National Research Council

National Research Council Committee, “*Verifying Greenhouse Gas Emissions: Methods to Support International Climate Agreements,*” 2009-10
National Research Council Committee, “*Air Quality Management in the United States,*” 2001 – 2004

State Committees

Oregon Global Warming Commission, Forest Carbon Committee, 2016-present
Oregon Climate Change Research Institute (OCCRI), 2010-present
Oregon Global Warming Commission, Science/Technology Committee, 2008-2010

Editorial Service

Journal Editor:

Global Change Biology, Editor, 2001-2005, 2012-2014
Oecologia, Editor, 2001-2005

Ad-hoc Editor:

Nature, PNAS, Science, Ecosystems, Ecological Applications, Biogeochemistry, Tree Physiology, Agricultural & Forest Meteorology, Climate Research, Remote Sensing of Environment, Geophysical Research Letters, Journal of Geophysical Research, Plant Cell & Environment

National Science Foundation

National Ecological Observatory Network (NEON) writing team. Washington, DC, 2006
National Ecological Observatory Network (NEON) review panel. Washington, DC, 2006
Science Advisory Panel, National Hydrology Synthesis Center, UC-Berkeley, 2005 – 2007
GeoSciences Directorate, Committee on Nano-Technology for Biological Sciences, 2004
GeoSciences Directorate, Committee on Cyberinfrastructure and the Geosciences: The future role and impact of cyberinfrastructure in research and education in the geosciences, 2003
National Ecological Observatory Network (NEON) program development writing team, 2003

Department of Energy, National Aeronautics & Space Administration, National Oceanic & Atmospheric Administration

External Review Panel for Oak Ridge National Laboratory, 2003
Users Working Group of the NASA Earth Observation Distributed Active Archive Center (DAAC) at Oak Ridge National Laboratory, 2000-2003
External Review Panel for NOAA Global Monitoring Division, 2013

Congressional Testimony

- U.S. Senate Committee on Energy and Natural Resources. Role of Forest Ecosystems in Climate Change Mitigation and Adaptation, 2013
- U.S. Senate Committee on Energy and Natural Resources Subcommittee on Public Lands and Forests. Managing Federal Forests in Response to Climate Change, Including for Natural Resource Adaptation and Carbon Sequestration, 2009
- U.S. House of Representatives, Committee on Energy & Environment. Monitoring, Measurement, and Verification of Greenhouse Gas Emissions: The Role of Federal and Academic Research and Monitoring Programs, 2009
- U.S. House of Representatives and Senate. Briefing on Importance of Long-Term Ecological Research and Emerging Understanding of Ecosystem Processes from the AmeriFlux Community, 2004

TEACHING AND MENTORING

Graduate Student Advisor:

Logan Berner (Ph.D. 2013-), Fabio Goncalves (Ph.D. 2007-2014), Tara Hudiburg (Ph.D. 2007-2012), Maureen McGlinchy (M.S. 2007-2011), Lauren Hahn (M.S. 2007-2008), Garret Meigs (M.S. 2006-2010), Brendan Rogers (M.S. 2007-2009), Dan Donato (Ph.D. 2003-2008), Tara Stiefel (M.S. 2005-2007), Theresa Johnson (M.S. 2002-2005), John Campbell (Ph.D. 2000-2003), Steve Van Tuyl (M.S. 2001-2003)

Postdoctoral Advisor:

Polly Buotte (OSU), John Campbell (OSU), Stephen Chan (DOE LBNL), Dan Donato (WA DNR), Uli Falk (Germany), Mathias Göckede (Max Planck Inst. Germany), Ajit Govind (India), Kathy Hibbard (NASA HQ), James Irvine (UMT), Matt Jones (U-Montana) James Kathilankal (Campbell Sci), Meredith Kurpius (USEPA), Hyojun Kwon (OSU), Hank Loescher (NEON Inc.), Hongyan Luo (NEON Inc.), Jon Martin (Northland C., WI), Troy Ocheltree (CSU); Tom O'Halloran (Clemson), Cory Pettijohn (UI-UC), Andres Schmidt (OSU), Paul Schwarz (Dir., Research Into Action, Portland OR), Julie Styles (Australia), Haizhen Sun (Korea), Osbert Sun (China), Christoph Thomas (U-Bayreuth, Germany), Steve Van Tuyl (OSU), Jennifer Wright (UK), Zhenlin Yang (OSU).

Visiting Graduate Student or Post-Doctoral Advisor:

Giorgio Alberti (Ph.D. Udine Univ. 2005), Julia Kelly (MS 2015-2016), Sebastiaan Luysaert (VU Univ. Amsterdam, The Netherlands 2006-2007), Angelo Nolé (Ph.D. Ph.D., Universia degli Studi della Basilicata 2004-2005)

Committee Member:

Nisa Novita (PhD, 2012-2016), Gwen Bury, Zoology (Ph.D. 2010-2012), Allison Ainsworth (M.S. 2004-2006), Mychal Teteh (M.S. 2004-2005), Robert Kennedy (Ph.D. 2000-2002), Liane Guild (Ph.D. 1996-2000), Kurt Swearingren (M.S. 1996-1998), Dave Woodruff (Ph.D. 1998-2000)

Undergraduate Advisor:

Tillia Griffin (URSA ENGAGE, B.S. OSU 2014), Dustin Quandt (B.S. OSU 2011-2012), Adam Pfleeger (B.S WSU 2005-2008), Jon Boro (B.S. OSU 2007), Isaac Emory (Undergrad. Fellowship, New Zealand 2004), Vernon Wolf (B.S. OSU URISC 2001-2002)

Graduate Teaching:

FES 600, Global Change Ecology, 2007-2016
FES605, Drought and Heat Effects on Forests, 2014-2015

FES605, Modeling Terrestrial Carbon Fluxes, 2010
FS599, Global Change and Terrestrial Ecosystems, 2006
FS599, Biome-BGC model development and applications, 2005
FS599, Posing Researchable Questions – Global Change and Carbon Dynamics, 2002
ATS564, Forest Vegetation-Atmosphere Interaction, 1997-2001
FS546, Advanced Forest Ecosystems Analysis, 1992, 1994, 1996

PUBLICATIONS IN REFEREED JOURNALS, BOOKS, REPORTS (209 Total)

ORCID: <https://orcid.org/0000-0002-1605-1203>

ISI ResearcherID: G-388202010; <http://www.researcherid.com/rid/G-3882-2010>

ISI Web of Science total citations 19,485; h-index 72

Google Scholar total citations 31,283; h-index 85; i10 index 188

(both accessed August 25, 2016)

Refereed Books and Book Chapters

Rogers, B.M., D. Bachelet, R.J. Draypek, B.E. Law, R.P. Neilson, J.R. Wells. 2015. Drivers of Future Ecosystem Change in the US Pacific Northwest: The Role of Climate, Fire, and Nitrogen. Ch. 7 in: *Global Vegetation Dynamics: Concepts and Applications in the MC1 Model*, D. Bachelet and D. Turner, Eds. Wiley, AGU Geophysical Monograph Series, Washington, D.C.

Galloway, J. N., W. H. Schlesinger, C. M. Clark, N. B. Grimm, R. B. Jackson, B. E. Law, P. E. Thornton, A. R. Townsend, and R. Martin, 2014: Ch. 15: Biogeochemical Cycles. *Climate Change Impacts in the United States: The Third National Climate Assessment*, J. M. Melillo, Terese (T.C.) Richmond, and G. W. Yohe, Eds., U.S. Global Change Research Program, 350-368. doi:10.7930/J0X63JT0. On the web at:

<http://nca2014.globalchange.gov/report/sectors/biogeochemical-cycles>

National Research Council. 2010. *Verifying Greenhouse Gas Emissions: Methods to Support International Climate Agreements*. National Academies Press, Washington, DC. ISBN: 0-309-15212-7, 124 pages.

Law, B.E., T. Arkebauer, J.L. Campbell, J. Chen, O. Sun, M. Schwartz, C. van Ingen, S. Verma. 2008. *Terrestrial Carbon Observations: Protocols for Vegetation Sampling and Data Submission*. Report 55, Global Terrestrial Observing System. FAO, Rome. 87 pp.

National Research Council. 2004. *Air Quality Management in the United States*. National Academies Press, Washington DC. 401 pp.

Birdsey, R.A., J.C. Jenkins, M. Johnston, E. Huber-Sannwald, B. Amiro, B. de Jong, J.D.E. Barra, N. French, F. Garcia-Oliva, M.E. Harmon, L.S. Heath, V.J. Jaramillo, K. Johnsen, B.E. Law, E. Marín-Spiotta, O. Maser, R. Neilson, Y. Pan, K.S. Pregitzer. 2007. *North American Forests*. In: King, A.W., L. Dilling, G.P. Zimmerman, D.M. Fairman, R.A. Houghton, G. Marland, A.Z. Rose, T.J. Wilbanks, eds. *The first state of the carbon cycle report (SOCCR): The North American carbon budget and implications for the global carbon cycle, a report by the US Climate Change Science Program and the Subcommittee on Global Change Research*. Asheville, NC: National Oceanic and Atmospheric Administration, National Climatic Data Center: 117-126.

Law, B.E. 2006. Carbon dynamics in response to climate and disturbance: recent progress from multi-scale measurements and modeling in AmeriFlux. In S. Yamamoto, ed. *Plant Responses to Air Pollution and Global Change*. Springer, Tokyo Japan.

Law, B.E., D. Turner, M. Lefsky, J. Campbell, M. Guzy, O. Sun, S. Van Tuyl, W. Cohen.

2006. Carbon fluxes across regions: Observational constraints at multiple scales. In J. Wu, B. Jones, H. Li, O. Loucks, eds. *Scaling and Uncertainty Analysis in Ecology: Methods and Applications*. Columbia University Press, New York, USA. Pp. 167-190.
- Law, B.E., S. Verma. 2004. Introduction to flux diagnostics. *Handbook of Micrometeorology. A Guide for Surface Flux Measurements and Analysis*. Kluwer Academic Publishers, Boston.
- Intergovernmental Panel on Climate Change. 2003. *Intergovernmental Panel on Climate Change Report on Current Scientific Understanding of the Processes Affecting Terrestrial Carbon Stocks and Human Influences upon Them*. Expert Meeting Report. IPCC, Switzerland.
- Law, B.E., and K.H. Riitters. 1998. First-year findings from the EMAP-Forests monitoring program. In D.H. McKenzie, D.E. Hyatt, and V.J. McDonald, eds. *Ecological Indicators. Volume 2*. Elsevier Applied Science, New York, USA.
- Selected Refereed Journal Articles
- Berner, L.T., B.E. Law, A. Meddens, J. Hicke. 2017. Tree biomass mortality from fires, bark beetles, and timber harvest during a hot, dry decade in the western United States (2003-2012). *Environ. Res. Lett.* 12(6): 065005.
- Goncalves, F., R. Treuhaft, B.E. Law, A. Almeida, W. Walker, J. Baccini, J.R. Santos, P. Graca. 2017. Estimating aboveground biomass in tropical forests: Field methods and error analysis for the calibration of remote sensing observations. *Remote Sens.* 9(1), 47, doi:10.3390/rs9010047.
- Berner, L.T., and B.E. Law. 2016. Plant traits, productivity, biomass and soil properties from forest sites in the Pacific Northwest, 1999-2014. *Sci. Data* 3:160002, doi: 10.1038/sdata.2016.2.
- Fernández-Martínez, M., S. Vicca, I.A. Janssens, P. Ciais, M. Obersteiner, M. Bartrons, J. Sardans, A. Verger, J.G. Canadell, F. Chevallier, X. Wang, C. Bernhofer, P.S. Curtis, D. Gianelle, T. Grünwald, B. Heinesch, A. Ibrom, A. Knohl, T. Laurila, B.E. Law, J.M. Limousin, B. Longdoz, D. Loustau, I. Mammarella, G. Matteucci, R.K. Monson, L. Montagnani, E.J. Moors, J.W. Munger, D. Papale, S.L. Piao, J. Penuelas. 2017. Atmospheric deposition, CO₂, and change in the land carbon sink. *Nature Scientific Reports* 7: 9632, doi: 10.1038/sf41598-017-08755-8.
- Kim, Y., C.J. Still, C.V. Hanson, H. Kwon, B.T. Greer, B.E. Law. 2016. Canopy skin temperature variations in relation to climate, soil temperature, and carbon flux at a ponderosa pine forest in central Oregon. *Agric. For. Meteorol.* 226-227:161-173.
- Schmidt, A., B.E. Law, M. Göckede, C. Hanson, Z. Yang, S. Conley. 2016. Bayesian optimization of the Community Land Model simulated biosphere-atmosphere exchange using CO₂ observations from a dense tower network and aircraft campaigns over Oregon. *Earth Interactions*, 2016, DOI: 10.1175/EI-D-16-0011.1.
- Wagle, P., X. Xiao, T.E. Kolb, B.E. Law, S. Wharton, R.K. Monson, J. Chen, P.D. Blanken, K.A. Novick, S. Dore, A. Noormets, P. Gowda. 2016. Differential responses of carbon and water vapor fluxes to climate among evergreen needleleaf forests in the United States. *Ecol. Processes*. 2016,5:8. DOI: Ecological Processes.2016,5:8.DOI:10.1186/s13717-016-0053-5. URL: <http://www.ecologicalprocesses.com/content/5/1/8>
- Wolf, S., T. Keenan, J. Fisher, D. Baldocchi, A. Desai, A. Richardson, R.L. Scott, B.E. Law, M. Litvak, N. Brunzell, W. Peters, T. van der Laan-Luijkx. 2016. Warm spring

- reduces carbon cycle impact of the 2012 US summer drought. *Proc. Nat. Acad. Sci.* doi 10.1073/pnas.1519620113.
- Berner, L.T. and B.E. Law. 2015. Water limitations on forest carbon cycling and conifer traits along a steep climatic gradient in the Cascade Mountains, Oregon. *Biogeosciences* 12, 6617-6635, doi:10.5194/bg-12-6617-2015.
- Law, B.E., L.T. Berner. 2015. NACP TERRA-PNW: Forest Plant Traits, NPP, Biomass, Soil Properties, 1999-2014. ORNL DAAC, Oak Ridge, Tennessee, USA. <http://dx.doi.org/10.3334/ORNLDAAC/1292>.
- Law, B.E., R.H. Waring. 2015. Carbon implications of current and future effects of drought, fire and management on Pacific Northwest forests. *Forest Ecol. Management* 355:4-14, dx.doi.org/10.1016/j.foreco.2014.11.023.
- Verma, M., M. Friedl, B.E. Law, D. Bonal, G. Kiely, T.A. Black, G. Wohlfahrt, E.J. Moors, L. Montagnani, B. Marcolla, P. Toscano, A. Varlagin, O. Roupsard, A. Cescatti, M.A. Arain, P. D'Odorico. 2015. Improving the performance of remote sensing models for capturing intra- and inter-annual variations in daily GPP: An analysis using global FLUXNET tower data. *Agric. For. Meteorol.* 214-215: 416-429.
- Migliavacca M., M. Reichstein, A.D. Richardson, M.D. Mahecha, E. Cremonese, N. Delpierre, M. Galvagno, B.E. Law, G. Wohlfahrt, T.A. Black, N. Carvalhais, G. Ceccherini, J. Chen, N. Gobron, E. Koffi, J.W. Munger, O. Perez-Priego, M. Robustelli, E. Tomelleri, A. Cescatti. 2015. Influence of physiological phenology on the seasonal pattern of ecosystem respiration in deciduous forests. *Global Change Biology* 21: 363-376, doi: 10.1111/gcb.12671.
- Wu, X., W. Ju, Y. Zhou, M. He, B.E. Law, A. Black, H.A. Margolis, A. Cescatti, L. Gu, L. Montagnani, A. Noormets, T.J. Griffis, K. Pilegaard, A. Varlagin, R. Valentini, P.D. Blanken, S. Wang, H. Wang, S. Han, J. Yan, Y. LI, B. Zhou, Y. Liu. 2015. Performance of linear and nonlinear two-leaf light use efficiency models at different temporal scales. *Remote Sensing* 7:2238-2278. Doi:10.3990/rs7032238.
- Law, B.E. 2014. Regional analysis of drought and heat impacts on forests: current and future science directions. *Global Change Biology* 20:3595-3599, DOI: 10.1111/gcb.12651.
- O'Halloran, T., S.A. Acker, V. Joerger, J. Kertis, B.E. Law. 2014. Post-fire influences of snag attrition on albedo and radiative forcing. *Geophys. Res. Lett.*, 41, doi:10.1002/2014GL062024.
- Kathilankal, J.C., T.L. O'Halloran, A. Schmidt, C.V. Hanson, B.E. Law. 2014. Development of a semi-parametric PAR partitioning model for the contiguous US. *Geoscience Model Development* 7:2477-2484.
- Schmidt, A., C.W. Rella, C. Hanson, B.E. Law. 2014. Removing traffic emissions from CO₂ time series measured at a tall tower using mobile measurements and transport modeling. *Atmos. Environ.* 97:94-108. Doi 10.1016/j.atmosenv.2014.08.006.
- Song, B., S. Niu, R. Luo, Y. Luo, J. Chen, G. Yu, J. Olenjnik, G. Wohlfahrt, G. Kiely, A. Noormets, L. Montagnani, A. Cescatti, V. Magliulo, B.E. Law, M. Lund, A. Varlagin, A. Raschi, M. Peichl, M.B. Nilsson, L. Merbold. 2014. Divergent apparent temperature sensitivity of terrestrial ecosystem respiration. *J. Plant Ecol.* 7:419-428, doi:10.1093/jpe/rtu014.
- Xiao, J., S.V. Ollinger, S. Frolking, G.C. Hurtt, D.Y. Hollinger, K.J. Davis, Y. Pan, X. Zhang, F. Deng, J. Chen, D.D. Baldocchi, B.E. Law, M. Altaf Arain, A.R. Desai, A.D.

- Richardson, G. Sun, B. Amiro, H. Margolis, L. Gu, R.L. Scott, P.D. Blanken, A.E. Suyker. 2014. Data-driven diagnostics of terrestrial carbon dynamics over North America. *Agric. For. Meteorol.* 197:142-157.
- Ruehr, N., B.E. Law, D. Quandt, M. Williams. 2014. Effects of heat and drought on carbon and water dynamics in a regenerating semi-arid pine forest: a combined experimental and modeling approach. *Biogeosciences* 11:4139-4156, doi:10.5194/bg-11-4139-2014.
- Yuan, W., W. Cai, J. Xia, J. Chen, S. Liu, W. Dong, L. Merbold, B.E. Law, A. Arain, J. Beringer, C. Bernhofer, A. Black, P.D. Blanken, A. Cescatti, Y. Chen, L. Froncois, D. Gianelle, I.A. Janssens, M. Jung, T. Kato, G. Kiely, D. Liu, B. Marcolla, L. Montagnani, A. Raschi, O. Roupsard, A. Varlagin, G. Wohlfahrt. 2014. Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the La Thuile database. *Agric. For. Meteorol.* 192: 108-120.
- Ciais, P., A.J. Dolman, A. Bombelli, R. Duren, A. Pregon, P.J. 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. Dargaville, T.J. Battin, A. Boreges, H. Bovensmann, M. Buchwitz, J. 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. Luysaert, 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, R. Wang, G. van der Werf, D. Wickland, M. Williams, C. Zehner. 2014. Current systematic carbon-cycle observations and needs for implementing a policy-relevant carbon observation system. *Biogeosciences* 11:3547-3602, doi: 10.5194/bg-11-3547-2014.
- Sun, Y., L. Gu, R.E. Dickinson, S.G. Pallardy, J. Baker, Y. Cao, F.M. DaMatta, X. Dong, D. Ellsworth, D. van Goethem, A.M. Jensen, B.E. Law, R. Loose, S.C. Martins, R.J. Norby, J. Warren, D. Weston, K. Winter. 2014. Asymmetrical effects of mesophyll conductance on fundamental photosynthetic parameters and their relationships estimated from leaf gas exchange measurements. *Plant Cell Environ.* 37:978-994. DOI: 10.1111/pce.12213.
- Verma, M. A. Friedl, A.D. Richardson, G. Kiely, A. Cescatti, B.E. Law, G. Wohlfahrt, B. Gielen, P. Toscano, F.P. Vaccari, D. Gianelle, G. Bohrer, A. Varlagin, N. Buchmann, E. van Gorsel, L. Montagnani, P. Propastin. 2014. Remote sensing of annual terrestrial gross primary productivity from MODIS: an assessment using the FLUXNET La Thuile dataset. *Biogeosciences* 11:2185-2200.
- Hudiburg, T.W., S. Luysaert, P.E. Thornton, B.E. Law. 2013. Interactive effects of environmental change and management strategies on regional forest carbon emissions. *Environ. Sci. Technol.* 47(22):13132-40. Doi: 10.1021/es402903u.
- Stoy, P., M. Dietze, A. D. Richardson, R. Vargas, A.G. Barr, R.S. Anderson, M.A. Arain, I.T. Baker, T.A. Black, J.M. Chen, R.B. Cook, C.M. Gough, R.F. Grant, D.Y. Hollinger, R.C. Izaurralde, C.J. Kucharik, P. Laflleur, B.E. Law, S. Liu, E. Lokupitiya, Y. Luo, J.W. Munger, C. Peng, B. Poulter, D.T. Price, D.M. Ricciuto, W.J. Riley, A.K. Sahoo, K. Schaefer, C.R. Schwalm, H. Tian, H. Verbeeck, E. Weng. 2013. Evaluating the agreement between measurements and models of net ecosystem

- exchange at different times and time scales using wavelet coherence: An example using data from the North American Carbon Program Site-Level Interim Synthesis. *Biogeosciences* 10:6893-6909.
- Heckman K., J. Campbell, H. Powers, B. Law, C. Swanston. 2013. The impact of wildfire on soil organic C cycling in a mixed hardwood-evergreen forest. *Fire Ecol.* 9(2): 40-56.
- Law, B.E. 2013. Nitrogen deposition and forest carbon. *Nature News & Views* 496:307-308.
- Raczka, B., K.J. Davis, D. Huntzinger, R.P. Neilson, B. Poulter, A.D. Richardson, J. Xiao, I. Baker, P. Ciais, T.F. Keenan, B.E. Law, W.M. Post, D. Ricciuto, K. Schaefer, H. Tian, E. Tomellieri, H. Verbeeck, N. Viovy. 2013. Evaluation of continental carbon cycle simulations with North American flux observations. *Ecol. Monographs* 83:531-556.
- Law, B.E., T. Hudiburg, S. Luysaert. 2013. Thinning effects on forest productivity: Consequences of preserving old forests and mitigating impacts of fire and drought. *Plant Ecology & Diversity* 6: 73-85. John Grace Festschrift - Forest and Environ. Special Issue. doi: 10.1080/17550874.2012.679013.
- Donato, D.C., J.B. Fontaine, J.B. Kauffman, W.D. Robinson, B.E. Law. 2013. Fuel mass and forest structure following stand-replacement fire and post-fire logging in a mixed-evergreen forest. *International J. Wildland Fire* 22(5):652-666.
- Thomas, C., J.G. Martin, B.E. Law, K. Davis. 2013. Towards biologically meaningful net carbon exchange estimates for tall, dense canopies: multi-level eddy covariance observations and canopy coupling regimes in a mature Douglas-fir forest in Oregon. *Agric. For. Meteorol.* 173:14-27.
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- Law, B.E., and K.H. Riitters. 1990. Standard operating procedures for estimating transmitted photosynthetically active radiation. Chapter 4 in K. Dwire, and B. Huntley, compilers. U.S. Environmental Protection Agency, Washington, D.C.
- Riitters, K.H., B.E. Law, R. Kucera, A. Gallant, R. DeVelice, and C. Palmer. 1990. *Indicator Strategy for Forests*. Chapter 6 in Environmental Monitoring and Assessment Program Ecological Indicators. Report EPA/600/3-90/060, U.S. Environmental

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- Hazard, J.W., and B.E. Law. 1989. *Forest Survey Methods Used in the USDA Forest Service*. Report EPA/3-89/065, U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, Oregon. 55 pp.
- Pywell, N. and B.E. Law. *Mangroves – Florida’s Coastal Trees*. 1985. University of Florida Forestry Extension Press, 6 pp.

SELECTED SCIENCE LECTURES AND PRESENTATIONS (>100 TOTAL)

- Pre-COP21 meeting of technology businesses and bankers, Amazon Inc., Seattle, WA, Sept., 2015. “Global Climate Change – Consequences, Mitigation, Adaptation, and Opportunities.”
- Harvard University, Plant Biology Symposium, “Drought-related impacts on forests of the Pacific Northwest US,” Invited Talk, Boston, MA, May, 2015.
- ICOS Science Conference, Invited Talk, “Long-term observations and analysis for an integrated global system: Integrated research in the US,” Brussels, Belgium, Sept., 2014.
- UNFCCC Conference of the Parties (COP16), Cancun, MX, Nov, 2010. Enhancing Global Forest Observations in a Changing Climate. Invited Talk and Panelist, “Land-Use and Land Change: The Global Climate Observation System.”
- IPCC Expert Meeting on Uncertainty and Validation of Emission Inventories, Utrecht, The Netherlands, Mar., 2010. Invited Talk, “Integration of observations and modeling to quantify forest carbon stocks and fluxes.”
- Group on Earth Observations (GEO GOP VI) - Carbon Community of Practice, Washington, DC, Nov. 19, 2009. Invited Talk, “A Global Carbon Observation System.”
- 7th Framework Programme on Climate Change, Coordination Action Carbon Observation System Parameters Related to Ecosystem Condition, Amsterdam, The Netherlands, Oct. 19-20, 2009. Invited Talk, “Drought effects on Forest Carbon Processes.”
- North American Carbon Program (NACP) Meeting, Invited Plenary Talk, “The ORCA west coast regional project – diagnosis and attribution.” San Diego, CA, Feb., 2009.
- Climate Workshop on Past, Present and Future Climate, Helsinki, Finland, Nov., 2008. Invited Talk, “Feedbacks in the Climate Biosphere.”
- Nordic Centres of Excellence international workshop on interactions between northern ecosystems and climate, Reykjavik, Iceland, Jun., 2008. Invited Talk, “Greenhouse Gas Balance of Northern US Ecosystems in a Changing Climate.”
- US-Italy Bilateral Agreement on Climate Change Science. Delegates meeting, US Department of State, Washington, DC, Jun., 2007. Invited Talk, “Comparative analysis of the terrestrial carbon balance: influence of climate variability on carbon dynamics.”
- North American Carbon Program (NACP) Meeting, Invited Plenary Talk, “Bottom-up approaches to quantifying and explaining the carbon balance of North America.” Colorado Springs, CO, Jan., 2007.
- International Greenhouse Gas Conference in the Northern Hemisphere, Sissi-Lassithi, Crete, Greece, Nov., 2006. Keynote Speech, “Scaling NEP and NBP over a heterogeneous region in the Western United States.”
- Food and Agricultural Organization (FAO), Rome, Jun., 2006. Invited Talk, “A global strategy for terrestrial carbon.”
- Stanford University, Carnegie Dept. of Global Ecology, Invited Talk, “Terrestrial Ecosystem Processes at Multiple Scales,” Palo Alto, CA, Sept., 2006.

National Center for Atmospheric Research, Invited Talk, “Regional Terrestrial Carbon Balance,” Boulder, CO, Oct., 2006.

PUBLISHED ABSTRACTS (SELECTED INVITED TALKS)

Law, B.E., L.T. Berner, Z. Yang, P. Ciais. Long-term observations and analysis for an integrated carbon observations system. Ecological Society of America. NEON special session. Baltimore, MD, Aug., 2015.

Law, B.E., Z. Yang, M. Jones, L. Berner. Drought, Fire and Insects in Western US Forests: Observations to Improve Regional Land System Modeling. AGU, Dec., 2015. San Francisco, CA.

Law, B.E., M. Jones, L. Berner, Z. Yang. Forest Management Shifts in the Western US and Potential Impacts on the Carbon Balance. AGU, Dec. 14-18, 2015. San Francisco, CA.

Law, B.E. Assessing land management change effects on forest carbon and emissions under climate change. AGU, Dec, 2014. San Francisco, CA.

Grimm, N., J. Galloway, W.H. Schlesinger, C.M. Clark, R.B. Jackson, B.E. Law, P.E. Thornton, A.R. Townshend. Climate change, ecosystem services, and biogeochemical cycles. IGNITE lecture, 99th ESA, Aug., 2014. Sacramento, CA.

Law, B.E. Climate change and land use impacts on forests: What have we learned and what do we do now? AGU, Dec., 2013. San Francisco, CA.

Law, B.E. Changing forest land use in the Pacific Northwest, and implications for ecosystem processes. AGU, Dec., 2013. San Francisco, CA.

Law, B.E., T.W. Hudiburg, S. Luyssaert, N. Coops. Current and future effects of drought, fire and mitigation options on Pacific Northwest forests. 98th ESA Convention, Aug, 2013.

Law, B.E. Role of Forest Ecosystems in Climate Change Mitigation and Adaptation. Heinz Center, hosted by the American Association for the Advancement of Science, Washington DC, Sept. 2013.

Law, B.E., T. Hudiburg, S. Luyssaert, N. Coops. Extreme Drought, Fire and Harvest Impacts on Pacific Northwest Forests, and the Effects of Future Climate and Mitigation Measures on the Carbon Balance. AGU, Dec., 2012. San Francisco, CA.

Hudiburg, T., B.E. Law, S. Luyssaert, P. Thornton. Forest carbon response to management scenarios intended to mitigate GHG emissions and reduce fire impacts in the US West Coast region. AGU, Dec., 2012. San Francisco, CA.

Schwalm, C., C. Williams, K. Schaefer, D. Baldocchi, A. Black, A. Goldstein, B. Law, W. Oechel, K.T. Paw U, R. Scott. From sink to source: Carbon consequences of the turn-of-the-century drought in North America. AGU, Dec, 2012. San Francisco, CA.

Ruehr, N., B.E. Law, D. Quandt, M. Williams. Impacts of drought and precipitation variability on the C balance of a regenerating semi-arid pine forest. ESA Convention, Aug., 2012. Portland, OR.

Law, B.E., A. Linn. Verifying Greenhouse Gas Emissions. AGU, Dec, 2010. San Francisco, CA.

Law, B.E. Carbon Consequences of Disturbance in the West Coast U.S. States. AGU, Dec, 2009. San Francisco, CA.

Law, B.E. Can tower flux measurements constrain forest uptake of CO₂? American Association for the Advancement of Science. Feb., 2009. Chicago, IL

- Law, B.E. The role of anthropogenic disturbance in the carbon balance of terrestrial ecosystems. AGU, San Francisco, CA, Dec., 2008.
- Law, B.E., F. Magnani, M. Mencuccini, M. Borghetti, S. Luysaert, J. Grace. The Effects of Disturbance and Nitrogen Deposition on Carbon Uptake by Boreal and Temperate Forests. AGU, San Francisco, CA, Dec, 2007.
- Law, B.E., Noormets, A., Grace, J. The Effects of Disturbance on Forest Carbon Processes. AGU, San Francisco, CA, Dec., 2007.
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- Williams, M.W., B.E. Law, P. Schwarz. Linking modelling and observations to improve estimates of forest carbon balance. Carbon Balance in Forest Biomes: Global and Regional Perspectives. British Ecological Society, Southampton UK, Apr., 2003.
- Law, B.E. The North American Carbon Program and AmeriFlux: Understanding sources and sinks at multiple scales. 14th Symposium on Global Change and Climate Variations, AMS, Long Beach, CA, Dec. 2002.
- Law, B.E. Soil processes contributing to ecosystem fluxes. Intecol. Seoul, Korea, May, 2002.
- Treuhaft, R.N., G.P. Asner, B.E. Law, S. Van Tuyl. Forest biomass and leaf area density profiles from multi-altitude radar interferometry and imaging spectroscopy. IGARRS02, Hamburg, Apr., 2002.
- Asner, G.P., R.N. Treuhaft, and B.E. Law. Vegetation structure from quantitative fusion of hyperspectral optical and radar interferometric remote sensing. In: Proc. Progress in Electromagnetics Research Symposium, Cambridge, MA, Apr., 2000. 6pp.
- Treuhaft, R.N., G.P. Asner, B.E. Law. Forest Vegetation Profiling with AIRSAR Radar Interferometry + Polarimetry. Progress in Electromagnetics Research Symposium, Cambridge, MA, Apr., 2000. 3 pp.
- Treuhaft, R. N., B. E. Law, P. R. Siqueira. Estimating Forest Vertical Structure from Multialtitude, Fixed-Baseline Radar Interferometric and Polarimetric Data, IGARSS99, Hamburg, Oct., 1999.
- Law, B.E., A. Cescatti, D.D. Baldocchi. Leaf area distribution and radiative transfer: implications to mass and energy exchange. In: Proc. International Union of Forest Research Organizations (IUFRO) Conference on Canopy Processes, Finland, Aug., 1999. Section 2.1.7.
- Law, B.E., P.M. Anthoni, D.D. Baldocchi, M.H. Unsworth. Below-canopy and nocturnal CO₂ fluxes in a ponderosa pine forest. In: Proc. Agricultural and Forest Meteorology Symposium, Section 13.5, Albuquerque, NM, Nov., 1998.
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- Law, B.E., P.M. Anthoni, D.D. Baldocchi, M. Williams, M.H. Unsworth, R.H. Waring. Carbon and water vapor exchange of a ponderosa pine forest. In: Proc. International Union of Forest Research Organisations Workshop on Forests at the Limit: Environmental Constrains on Forest Function, Skukuza, South Africa, May, 1997.