

BEVERLY E. LAW

Professor Emeritus, Global Change Biology & Terrestrial Systems Science

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Education:

University of Florida	Forest Resources & Conservation (forest management)	B.S., 1980
Oregon State University	Forest Science (environmental controls on forest productivity across a climatic gradient)	Ph.D., 1993
Oregon State University	Atmospheric Sciences, Postdoc (drought effects on ecosystem carbon and water fluxes)	1994-1998

Positions held:

2006-2020	Professor , College of Forestry, Oregon State University
1999-2020	Adjunct , College of Earth, Oceanic & Atmospheric Sciences
2001-2011	Science Chair , AmeriFlux network
2009-2011	Chair , Global Terrestrial Observing System – Terrestrial Carbon Observations (UNEP, WMO, FAO, UNESCO, ICSU)
2003-2009	US Carbon Cycle Science Program Science Steering Group
2001-2005	Assoc. Prof. , College of Forestry, Oregon State University
1998-2001	Asst. Prof., Senior Research , College of Forestry, Oregon State University
1988-1990	Forest Ecologist , Environmental Monitoring & Assessment Program, US EPA

Research areas:

The effects of drought, wildfire and management on forest carbon processes at local to regional scales; land use strategies to mitigate climate change and support biodiversity for climate resilience; forest carbon accounting.

Awards:

2014 American Geophysical Union Fellow (biogeosciences)
 2017-2019 Clarivate Analytics most highly cited researcher, top 1% most cited in cross-field
 2004 Earth Leadership Fellow
 2004 World Meteorological Organization-Norbert Gerbier-MUMM International Award, publication of the year

Panels, Advisory Boards, Committees:

2016 IPCC expert panel, technical assessment of IPCC inventory guidelines for AFOLU; Australia.
 2015-16 WMO implementation plan for Integrated Global Greenhouse Gas Information System (IG³IS)
 2012 IPCC WG1, AR5, formal expert reviewer (FOD, SOD)
 2010 WMO Delegate, COP 16, UN Framework Convention on Climate Change, Cancun, MX
 2010 Task Co-Lead, Group in Earth Observations – Forest Carbon Tracking (GEO-FCT)
 2010 IPCC expert panel on uncertainty and validation of emission inventories. Utrecht, Netherlands.
 2009-16 Advisory Boards, Integrated Carbon Observation System (ICOS-Europe, ICOS-Sweden)
 2008-10, 2016-17 Science/Technology Committee, Oregon Global Warming Commission
 2003 IPCC expert panel on current scientific understanding of processes affecting terrestrial carbon stocks and human influences upon them, WMO, Switzerland.
 2003-09 Science Steering Group, US Carbon Cycle Science Program
 2005-2009 Science Steering Group, North American Carbon Program
 2004-08 US Dept. of State point person scientific exchange, US-EU, US-Canada, US-Italy bilateral agreements on climate change science and technology
 2004, 2010 National Research Council committees on verifying greenhouse gas emissions, and air quality management in the United States.

Relevant Refereed Publications (Total 229 journal articles and book chapters, 18 reports):

Google Scholar total citations 44,711; h-index 99 (accessed Apr 2021)

Refereed Journal Articles

1. Buotte, P.C., B.E. Law, W.J. Ripple, L.T. Berner. 2020. Carbon sequestration and biodiversity co-benefits of preserving forests in the western United States. *Ecol. Applic.* 30(2):e02039.
2. Hudiburg, T.W., B.E. Law, W.R. Moomaw, M.E. Harmon, J.E. Stenzel. 2019. Meeting GHG reduction targets requires accounting for all forest sector emissions. *Env. Res. Lett.* 14: 095005.
3. Stenzel, J.E., K.J. Bartowitz, M.D. Hartman, J.A. Lutz, C.A. Kolden, A.M.S. Smith, B.E. Law, M.E. Swanson, A.J. Larson, W.J. Parton, T.W. Hudiburg. 2019. Fixing a snag in carbon emissions estimates from wildfires. *Global Change Biol.* 25:3985-3994.
4. Buotte, P.C., S. Levis, B.E. Law, T.W. Hudiburg, D.E. Rupp, J.J. Kent. 2019. Near-future vulnerability to drought and fire varies across the western United States. *Global Change Biol.* 25:290-303.
5. Law, B.E., T.W. Hudiburg, L.T. Berner, J.J. Kent, P.C. Buotte, and M. Harmon. 2018. Land use strategies to mitigate climate change in carbon dense temperate forests. *Proc. Nat. Acad. Sci.* 115(14):3663-3668.
6. 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.
7. 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 & Manag.* 355:4-14.
8. Hudiburg, T.W., S. Luyssaert, P.E. Thornton, B.E. Law. 2013. Interactive effects of environmental change and management strategies on regional forest carbon emissions. *Environ. Sci. Technol.* 47:13132-40.
9. Law, B.E., T. Hudiburg, S. Luyssaert. 2013. Thinning effects on forest productivity: Consequences of preserving old forests and mitigating impacts of fire and drought. *Plant Ecol. Diversity* 6: 73-85. doi: 10.1080/17550874.2012.679013.
10. Law, B.E. and M. Harmon. 2011. Forest sector carbon management, measurement and verification, and discussion of policy related to climate change. *Carbon Manag.* 2 (1):73-84.
11. Hudiburg, T., B.E. Law, D.P. Turner, J. Campbell, D. Donato, M. Duane. 2009. Carbon dynamics of Oregon and Northern California forests and potential land-based carbon storage. *Ecol. Applic.* 19:163-180.
12. Meigs, G.W., D.C. Donato, J.L. Campbell, J.G. Martin, B.E. Law. 2009. Forest fire impacts on carbon uptake, storage, and emission: The role of burn severity in the eastern Cascades, Oregon. *Ecosystems* 12(8):1246-1267.
13. Donato, D., J.B. Fontaine, J.L. Campbell, W.D. Robinson, J.B. Kaufmann, B.E. Law. 2009. Conifer regeneration in stand replacement portions of a landscape-scale mixed-severity fire. *Can. J. For. Res.* 39:823-838.
14. Luyssaert, S., E.-D. Schulze, A. Börner, A. Knohl, D. Hessenmöller, B.E. Law, P. Ciais. J. Grace. 2008. Old-growth forests as global carbon sinks. *Nature* 455: 213-215. doi:10.1038.
15. Campbell, J.L., D.C. Donato, D.A. Azuma, B.E. Law. 2007. Pyrogenic carbon emission from a large wildfire in Oregon, USA. *J. Geophys. Res.* 112(G4), G04014, doi: 10.1029/2007JG00045.