

Dominique M. BACHELET

CONTACT INFORMATION

Email: bachelet@fsl.orst.edu

Web site: <http://www.fsl.orst.edu/~bachelet>

Nationality: USA and France

ACADEMIC TRAINING

Ph. D.	1983	Colorado State U., Fort Collins, USA. Botany and Plant Pathology.
DEA	1979	Université de Paris XI, Centre d'Orsay, France. Plant Ecology.
MAITRISE	1978	Université des Sciences et Techniques, Lille I, France. Plant Biology.
LICENCE	1977	Université des Sciences et Techniques, Lille I, France. Plant Biology.
DEUG B	1976	Université des Sciences et Techniques, Lille I, France. Life Sciences.

PROFESSIONAL EXPERIENCE

2009-current	senior Climate Change scientist , Conservation Biology Institute.
2007-2008	Director of Climate Change Science, the Nature Conservancy.
2006	Visiting scientist , Laboratoire des Sciences du Climat et de l'Environnement, Commissariat à l'énergie atomique, France
1998-current	Associate Professor . Department of Biological and Ecological Engineering. Oregon State University, Corvallis, USA.
1989-1998	Assistant Professor . Department of Bioresource Engineering. Oregon State University, Corvallis, USA.
1995-1996	Adjunct Professor . Department of Natural Resources. University of New Hampshire, Durham, USA.
1994-1995	Visiting scientist . Centre National de la Recherche Scientifique at Centre d'Etude Spatiale des Rayonnements, Toulouse, France.
1988-1994	Quantitative Ecologist . ManTech Environmental Technology Inc., US-EPA Environmental Research Laboratory, Corvallis, USA.
1988	Research Specialist . Agronomy Department. New Mexico State University, Las Cruces, USA.
1986-1987	Research Specialist . Biology Department. New Mexico State University, Las Cruces, USA.
1984-1986	Postdoctorate Research . Assistant in Soil and Environmental Sciences Department. University of California, Riverside, USA.
1982	Teaching assistant . Agronomy Department, Simulation modeling (AG 653). Colorado State University, Fort Collins, USA.
1981-1983	Research Assistant . Natural Resource Ecology Laboratory. Colorado State University, Fort Collins, USA.
1980	Teaching Assistant . Department of Botany and Plant Pathology. (BY 102, 103). Colorado State University, Fort Collins, USA.
1980	Laboratory Technician . Plant Pathology Department. West Virginia University, Morgantown, USA.

RESEARCH FUNDING

- 2009-2011 Method development and application for linking VDDT and MC1: Climatizing state-and-transition models.
USFS Joint Venture Agreement PNW 09-JV-11261900-003 for \$96,539. PI: D. Bachelet
- 2009-2010 Consequences of Novel Disturbance Regimes on Climate-Induced Biogeographic Shifts along the Appalachian Trail.
NICCR for \$17,304. PI: D. Bachelet (lead PI: Erica **Smithwick**, UPa).
- 2007-2009 Implementation of a Climate-Vegetation Based Early Warning & Prediction System for Interagency Fuels Management. **NOAA** for \$47,512. PI: D. Bachelet (lead PI: Tim **Brown**, DRI, coI: R.P. **Neilson**, USFS).
- 2007-2008 Projected Vegetation Changes Over the Next Century in Yosemite National Park Under Three Climate Change Scenarios. **USDI National Park Service** for \$43,588. PI: D. Bachelet (coI: Bill **Kuhn** NPS and Jeanne **Panek** CA ARB).
- 2006-2007 Climate Change Vegetation Shifts Across Global Ecoregions.
The Nature Conservancy for \$44,000. PI: D. Bachelet (coI: R.P. **Neilson**, USFS and P. **Gonzalez**, TNC).
- 2006 Potential Impacts of Climate Change on California Forestry and Natural Landscapes Study.
University of California for \$15,087. PI: D. Bachelet (coI: R.P. **Neilson** and J.M. **Lenihan**, USFS).
- 2004-2009 Phase 3 of Dynamic Vegetation Models Development: Including Wetlands. Oregon State University, Corvallis, USA.
USFS Joint Venture Agreement PNW 04-JV-11261957-329 for \$235,535. PI: D. Bachelet
- 2004 VINCERA. Simulating the effect of wildfires on the North American carbon budget with an emphasis on boreal forests.
Grant from the **University of Waterloo, Canada** for \$11,500 PI: D. Bachelet (coI: R.P. **Neilson**, USFS and D. **Price**, Canada).
- 2000-2005 Second phase of Dynamic Vegetation Models development: including human impacts. Oregon State University, Corvallis, USA.
USFS Joint Venture Agreement 00-JV-11261957-191 PNW for \$493,312. PI: D. Bachelet
- 1995-2000 Development of linked biogeography (MAPSS) and biogeochemistry model (CENTURY) to look at the impacts of global climate change on vegetation distribution and carbon cycling in the USA and in the world. Oregon State University, Corvallis, USA.
USFS Cooperative Grant Agreement 95-0730 PNW for \$371,362. PI: D. Bachelet
- 1994-1995 Development of a modeling tool to simulate live oak distribution and carbon fluxes in the Mediterranean Basin, CESBIO, Toulouse, France.
CNRS one-year grant (CDD). PI: D. Bachelet
- 1988-1994 Assessment of the impacts of enhanced UV-B radiation (due to stratospheric ozone depletion), increased temperature and CO₂ atmospheric concentration on the rice ecosystem in Asia.

- ManTech Environmental Technology Inc. Contract 68-C8-0006** with US-EPA Environmental Research Laboratory, Corvallis, Oregon, USA.
- 1986-1988 Research and Development of a Generic Desert Ecosystem Model; Department of Biology; New Mexico State University, Las Cruces, USA.
NSF Grant BSR-85-07380 with PI: J.F. Reynolds.
- 1984-1986 Research on Nitrogen Fixation, Water Use, and Plant Productivity in Warm Desert Ecosystems; Department of Soil and Environmental Sciences, University of California, Riverside, USA.
NSF Grant DEB-82-16814 with PI: W.M. Jarrell.
- 1981-1983 Research on Plant-Animal Interactions in the North American Shortgrass Prairie; Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, USA. **NSF Grant DEB-80-22380** with PI: J.K. Detling.
- 1980 Research on White Pine disease in the Appalachian Region; Department of Plant Pathology, West Virginia University, Morgantown, USA.
- 1979 Research on Migratory Grasshoppers from West Africa; Water budget of three types of locusts raised in the laboratory; Departments of Entomology and Plant Ecology, Paris XI, Centre d'Orsay, France. Centre CNRS (Phytotron), Gif sur Yvette, France.

PUBLICATIONS

- Bachelet D., J. Lenihan, R. Drapek, R. Neilson. **2008**. VEMAP vs VINCERA: A DGVM sensitivity to differences in climate scenarios. **Global and Planetary Change** 64 (1-2):38-48.
- Bachelet D. and D. Price. **2008**. DGVM responses to the latest IPCC future climate scenarios. **Global and Planetary Change**. 64 (1-2):1-2.
- Bachelet D., J. DeBlieu, B. Baker. **2007**. Climate Change and Conservation. **EOS**, Transactions American Geophysical Union, Vol. 88, No. 45, Page 471.
- Bachelet D., J.M. Lenihan, R. P. Neilson, R.J. Drapek, and T. Kittel. **2005**. Simulating the response of natural ecosystems and their fire regimes to climatic variability in Alaska. **Canadian Journal of Forest Research** 35:2224-2257.
- Bachelet D., R. P. Neilson, J.M. Lenihan, and R.J. Drapek. **2004**. Regional differences in the carbon source-sink potential of natural vegetation in the U.S. **Environmental Management** 33 (Supp.#1): S23-S43 DOI: 10.1007/s00267-003-9115-4.
- Bachelet D., R.P. Neilson, T. Hickler, R.J. Drapek, J. M. Lenihan, M.T. Sykes, B. Smith, S. Sitch, and K. Thonicke. **2003**. Simulating past and future dynamics of natural ecosystems in the United States. **Global Biogeochemical Cycles** 17(2): 1045
DOI:10.1029/2001GB001508.
- Bachelet D., R.P. Neilson, J. M. Lenihan, and R.J. Drapek. **2001**. Climate change effects on vegetation distribution and carbon budget in the U.S. **Ecosystems** 4:164-185.
- Bachelet D., J.M. Lenihan, C. Daly, R.P. Neilson, D.S. Ojima, and W.J. Parton. **2001**. MC, a Dynamic Vegetation Model for estimating the distribution of vegetation and associated carbon and nutrient fluxes, Technical Documentation Version 1.0. USDA Forest Service Pacific Northwest Station, General Technical Report PNW-GTR-508. 95pp.
- Bachelet D. and R.P. Neilson. **2000**. Chapter 2. Biome redistribution under climate change. pp18-44. In: L.A. Joyce and R. Birdsey (co-editors). USDA Forest Service Global

- Climate Change Program Highlights: The impacts of climate change on America's forests. USDA Forest Service General Technical Report RMRS-GTR-59.
- Bachelet D., J.M. Lenihan, C. Daly, and R.P. Neilson. **2000**. Simulated fire, grazing and climate change impacts at Wind Cave National Park, SD. **Ecological Modelling** 134(2-3):229-244.
- Bachelet D., M. Brugnach, and R.P. Neilson. **1998**. Sensitivity of a biogeography model to soil properties. **Ecological Modelling** 109:77-98.
- Bachelet D., J. Kern, and M. Tölg. **1995**. Balancing the rice carbon budget in China using spatially distributed data. **Ecological Modelling** 79:167-177.
- Bachelet D. **1995**. Rice paddy inventory in a few provinces of China using AVHRR data. **Geocarto International** 10:23-38.
- Bachelet D., A. Herstrom, and D. Brown. **1993**. Design and development of a GIS database to complement simulation models. **Landscape Ecology** 8(2):77-91.
- Bachelet D. and H.U. Neue. **1993**. Methane emissions from wetland rice areas of Asia. **Chemosphere** 26(1-4):219-237.
- Bachelet D. and C. Gay. **1993**. The impacts of climate change on rice yield: a comparison of four model performances. **Ecological Modelling** 65:71-93.
- Bachelet D., J. Kern, and M. Tölg. **1993**. Modeling the rice carbon budget in China using GIS technology. pp 31-53, In: Huang Xuan, Liu Huigo, Zhou Chenghu, Chen Yufeng, Zhang Qiaofeng (Editors), **Proceedings** of the Third International Workshop on Geographic Information System, Beijing, China, August 19-22, 1993, Volume 3. State Key Laboratory of Resources and Environment Information System, Chinese Academy of Sciences.
- Bachelet D., D. Brown, M. Bohm, and P. Russell. **1992**. Climate change in Thailand and its potential impact on rice yield. **Climatic Change** 21:347-366.
- Bachelet D. and J. Mailander. **1992**. Rice field inventory using AVHRR data. pp A-1-1-1:A-1-1-10, In: S. Murai (Editor), **Proceedings** of the 13th Asian Conference on Remote Sensing, Ulaanbaatar, Mongolia, October 7-11, 1992.
- Bachelet D., P. Barnes, D. Brown, and M. Brown. **1991**. Latitudinal and seasonal variation in calculated ultraviolet-B irradiance in the rice-growing regions of Asia. **Photochemistry and Photobiology** 54(3):411.
- Bachelet D., H.W. Hunt, and J.K. Detling. **1989**. A simulation model of intraseasonal carbon and nitrogen dynamics of blue grama swards as influenced by above- and belowground grazing. **Ecological Modelling** 44:231-252.
- Bachelet D., H.W. Hunt, and J.K. Detling. **1989**. Simulated carbon and nitrogen dynamics in blue grama swards subject to above- and belowground grazing, irrigation and fertilization. 2. The grazing optimization notion. **Ecological Modelling** 48:83-99.
- Bachelet D., W.M. Jarrell, and R.A. Virginia. **1986**. Simulation modeling of nutrient cycling in a desert woody legume. **Tree Physiology** 2:205-214.
- Bachelet D. **1983**. Simulation of carbon and nitrogen distribution in blue grama to represent various kinds of herbivory. **Ph. D. dissertation**, Colorado State University, Fort Collins, USA.

Co-authored:

C.D. Allen, A.K. Macalady, H. Chenchouni, D. **Bachelet**, Nate McDowell, M. Vennetier, T.

- Kitzberger, A. Rigling, D.D. Breshears, E.H. Hogg, P. Gonzalez, R. Fensham, Z. Zhang, J. Castro, N. Demidova, J-H Lim, G. Allard, S.W. Running, A. Semerci, N. Cobb. **2009**. A Global Overview of Drought and Heat-Induced Tree Mortality Reveals Emerging Climate Change Risks for Forests. In press *Forest Ecology and Management*.
- Wiens, J. and D. **Bachelet**. **2009**. Matching the Multiple Scales of Conservation with the Multiple Scales of Climate Change. In press *Conservation Biology*.
- Shaw, R.M., L. Pendleton, D. Cameron, B. Morris, G. Bratman, D. **Bachelet**, K. Klausmeyer, J. MacKenzie, D. Conklin, J. Lenihan, E. Haunreiter and C. Daly. **2009**. The Impact of Climate Change on California's Ecosystem Services. PIER Research Report, CEC-500-2009-025-D, Sacramento, CA: California Energy Commission.
- Lenihan, J.M., D. **Bachelet**, R.P. Neilson, R.J. Drapek. **2008**. Simulated response of conterminous United States ecosystems to climate change at different levels of fire suppression, CO₂ emission rate, and growth response to CO₂. **Global and Planetary Change** 64 (1-2):16-25.
- Lenihan, J.M., D. **Bachelet**, R.J. Drapek, and R.P. Neilson. **2008**. The response of vegetation distribution, ecosystem productivity, and fire in California to future climate scenarios simulated by the MC1 dynamic vegetation model. **Climatic Change** 87(Supp 1): S215-S230.
- Del Grosso, S., W. Parton, T. Stohlgren, D. Zheng, D. **Bachelet**, S. Prince, K. Hibbard, and R. Olson. **2008**. Global potential production predicted from vegetation class, precipitation, and temperature. **Ecology** 89(8):2117-2126.
- Sun J, B. Baker, D. **Bachelet**, C. Daly, Ma Jian, and J. Liu. **2006**. Impact of climate change in the Hengduan Mountains of northwestern Yunnan, P.R. China: vegetation distribution change in the foretime and future. **Earth Observing Systems XI**, SPIE, San Diego, CA, USA, pp. 62960-62968.
- Kittel, T.G.F. , N.A. Rosenbloom, J.A. Royle, C. Daly, W.P. Gibson, H.H. Fisher, P. Thornton, D.N. Yates, S. Aulenbach, C. Kaufman, R. McKeown, D. **Bachelet**, D.S. Schimel, and VEMAP2 Participants. **2004**. VEMAP phase 2 bioclimatic database. I. Gridded historical (20th century) climate for modeling ecosystem dynamics across the conterminous United States. **Climate Research** 27:151-170.
- Lenihan, J.M., R.J. Drapek, D. **Bachelet**, and R.P. Neilson. **2003**. Climate change effects on vegetation distribution, carbon and fire in California. **Ecological Applications** 13(6): 1667-1681.
- Aber, J., R.P. Neilson, S. McNulty, J.M. Lenihan, D. **Bachelet**, and R.J. Drapek. **2001**. Forest Processes and Global Environmental Change: predicting the effects of individual and multiple stressors. **Bioscience** 51(9):735-752.
- Daly, C., D. **Bachelet**, J.M. Lenihan, and R.P. Neilson. **2000**. Dynamic simulation of tree-grass interactions for global change studies. **Ecological Applications** 10(2): 449-469.
- Lenihan J.M., C. Daly, D. **Bachelet**, and R.P. Neilson. **1998**. Simulating broad-scale fire severity in a dynamic global vegetation model. **Northwest Science** 72(2):91-103.
- Lenihan J.M., D. **Bachelet**, C. Daly, and R.P. Neilson. **1998**. Fire disturbance in the MC1 Dynamic Vegetation Model. **Proceedings** Symposium on Fire in California Ecosystems: Integrating Ecology, Prevention, and Management. 17-20 Nov 1997, San Diego, CA.
- Matthews R.B., M.J. Kropff, T. Horie, and D. **Bachelet**. **1997**. Simulating the impact of climate change on rice production in Asia and evaluating options for adaptation. **Agricultural Systems** 54:399-425.
- Wondzell S.M., G.L. Cunningham, and D. Bachelet. **1996**. Relationship between landforms, geomorphic processes, and vegetative communities on a watershed in the northern Chihuahuan desert. **Landscape Ecology** 11(6):351-362.

- Hoff C., D. **Bachelet**, S. Rambal, R. Joffre, and B. Lacaze. **1995**. Simulating leaf area index of Mediterranean evergreen oak ecosystems: Comparison with remotely-sensed estimation. **Proceedings** IUFRO Meetings, Montpellier, August 1995.
- Matthews R.B., M.J. Kropff, and D. Bachelet. **1994**. Climate change and rice production in Asia. **Entwicklung und Ländlicher raum** 1/94:16-19.
- Kern J.S., D. **Bachelet**, and M. Tölg. **1994**. Organic matter inputs, climate and methane emissions from rice soils in China. pp189-198 In: R. Lal, J. Kimble, E. Levine and B.A. Stewart (editors), Soils and Global Change, **Advances in Soil Science**.
- Holman S. and D. **Bachelet**. **1993**. Influence of CO₂ and temperature on wetland rice root dynamics. **J. Agr. Met.** 48(5):783-786.
- Olszyk D.M., D. **Bachelet**, M. Johnson, B. McVeety, P. Rygielwicz, and D. Tingey. **1993**. Impact of global change on terrestrial ecosystems: Frameworks for evaluating agroecosystem and forest ecosystem effects. **Proceedings** of the workshop on Risk Assessment and Risk Management, Tsukuba, Japan, October 1993.
- Olszyk D.M., D. **Bachelet**, S. Holman, K. Fisher, K.L. Heong, K. Ingram, H.U. Neue, M. Kropff, P. Teng, and B. Vergara. **1992**. Effects of UV-B and global climate change on rice. First Annual Program Progress **Report**. ERL-COR-756. 93pp.
- Olszyk D.M., S. Holman, P. Barnes, D. **Bachelet**, and D. Brown. **1991**. Technical **Report** for Assessing the Risks of Trace Gases That Can Modify Stratospheric Ozone Concentrations. ERL-COR-615X.
- Olszyk D.M., D. **Bachelet**, P. Barnes, M. Böhm, D. Brown, S. Holman, and J. Jones. **1991**. Internal EPA **Report**: Response of Rice to CO₂ and Temperature: Results of screening studies. EPA/ERL-Corvallis.
- Olszyk D.M., D. **Bachelet**, P. Barnes, M. Böhm, D. Brown, S. Holman, J. Jones, and J. Richter. **1991**. Internal EPA **Report**: Response of Rice to Global Climate Change. EPA/ERL-Corvallis.
- Olszyk D.M., S. Holman, P. Barnes, D. **Bachelet**, and D. Brown. **1990**. Selected UV-B effects on wetland rice ecosystems: technical **report** for assessing the risks of trace gases that can modify stratospheric ozone concentrations. EPA/ERL-Corvallis.
- Wierenga P.J. and D. **Bachelet**, Editors. **1988**. Validation of Flow and Transport Models for the Unsaturated Zone. Conference **Proceedings**: May 23-26, 1988 Ruidoso, New Mexico. Research Report 88-ss-04. Department of Agronomy and Horticulture, New Mexico State University, Las Cruces, NM. 545 pp.
- Wierenga P.J., D. **Bachelet**, J.R. Bilskie, H. Elabd, D.B. Hudson, M. Nash, I. Porro, W.R. Strong, A. Toorman, and J. Vinson. **1988**. Validation of Stochastic Flow and Transport Models for Unsaturated Soils. Annual **Report** for the period Oct. 1, 1986-Sep. 30, 1987. Research Report 88-SS-03, Battelle/NRC Contract no. TD2049. Department of Agronomy and Horticulture, New Mexico State University, Las Cruces, NM.
- Wierenga P.J., D. **Bachelet**, J.R. Bilskie, H. Elabd, C. Herold, D.B. Hudson, I. Porro, and W.R. Strong. **1987**. Weather data. Daily and monthly means March 1983-October 1987. Jornada LTER Site. Research **Report** 88-SS-02. NSF Project no. BSR-8612106. Department of Agronomy and Horticulture, New Mexico State University, Las Cruces, NM.
- Wondzell S.M., G.L. Cunningham, and D. **Bachelet**. **1987**. A hierarchical classification of landforms: some implications for understanding local and regional vegetation. pp 15-23, In: Strategies for classification and management of native vegetation for food production

in Arid zones, October 12-16, 1987, Tucson, Arizona. USDA Forest Service, **General Technical Report RM-150**.

Reynolds J.F., D. **Bachelet**, P. Leadley, and D.L. Moorhead. **1986**. Progress **report** of research: Assessing the effects of elevated carbon dioxide on plants: towards the development of a generic plant growth model. Series: Responses of vegetation to carbon dioxide. Number 28. U.S. DOE, Carbon Dioxide Research Division, Office of Energy Research, Washington D.C.

Books and book chapters:

- Bachelet D., J. M. Lenihan, and R.P. Neilson. **2007**. The importance of fire in future climate change scenarios over the western United States. In: Regional Impacts of Climate Change: Four Case studies in the United States. pp22-41. **Pew Center** on Global Climate Change.
- Bachelet D., G.A. King, and J. Chaney. **1995**. Climate change scenarios. pp 57-83, In: R.B. Matthews, M.J. Kropff, D. Bachelet and H.H. van Laar (co-editors). Modeling the impact of climate change on rice production in Asia. **CAB International**.
- Bachelet D. and M.J. Kropff. **1995**. The impact of climatic change on agroclimatic zones in Asia. pp 85-94, In: R.B. Matthews, M.J. Kropff, D. Bachelet and H.H. van Laar (co-editors). Modeling the impact of climate change on rice production in Asia. **CAB International**.
- Bachelet D. and H.U. Neue. **1993**. Sources and sinks of methane. pp 457-468, In: M.A.K. Khalil (Editor), Atmospheric Methane Sources, Sinks and Role in Global Change. **NATO ASI Series Vol I 13**.
- Bachelet D., J. Van Sickle, and C. Gay. **1992**. The impacts of climate change on rice yield: evaluation of the efficacy of different modeling approaches. pp 145-174, In: F.W.T. Penning de Vries, P. Teng, K. Metselaar (editors), Systems approaches for agricultural development, **Kluwer Academic Publishers**, Netherlands.
- Bachelet D., S.M. Wondzell, and J.F. Reynolds. **1988**. Predicting germination, flowering and drought death of winter and summer annuals in the northern Chihuahuan desert using environmental cues. pp 235-260, In: A. Marani (editor), Advances in Environmental Modelling, **Elsevier**, Amsterdam.
- Bachelet D. **1985**. A preliminary mechanistic simulation of N₂ fixation by a legume. p 41, In: H.J. Evans, P.J. Bottomley and W.E. Newton (editors), Nitrogen Fixation Research Progress, **Martinus Nijhoff Publications**.
- Bachelet D., H.W. Hunt, J.K. Detling, and D.W. Hilbert. **1982**. A simulation model of blue grama biomass dynamics with special attention to translocation mechanisms. pp 457-466, In: W.K. Lauenroth, G.V. Skogerboe, and M. Flug (Editors), Analysis of ecological systems: State of the Art in Ecological Modeling. **Elsevier Scientific Publishing Company**, Amsterdam, the Netherlands.

Co-authored books and book chapters:

- Millar C., R.P. Neilson, D. **Bachelet**, R.J. Drapek, J.M. Lenihan. **2006**. Climate Change at multiple scales. pp 21-24, In: Forests, Carbon and Climate Change, Oregon Forests Institute, Oregon State University and Oregon Department of Forestry.
- Baker B, D. **Bachelet**, C. Daly, Ma Jian, R.K. Moseley, X.Z. Shi, J.H. Sun, A. Shlisky. **2006**.

- Effects of climate change and land management practices in the Hengduan Mountains of northwestern Yunnan, PRC: options for alpine conservation. In: Price M (editor), *Global Change in Mountain Regions*. Sapiens Publishing, Dumfriesshire, UK.
- Neilson R.P., J.M. Lenihan, and D. **Bachelet**. **2000**. Overview of Dynamic General Vegetation Models. pp 3-4, In: B.C. Hawkes and M.D. Flannigan (editors), *Landscape Fire Modeling - Challenges and Opportunities*. Canadian Forest Service, Northern Forestry Centre, Victoria, British Columbia, Canada.
- Lenihan, J.M., C. Daly, D. **Bachelet**, and R.P. Neilson. **2000**. Broad-scale fire severity in the MC1 DGVM. In: Sugihara, N.G. (editors), *Fire in California Ecosystems: Integrating Ecology, Prevention, and Management*. International Association of Wildland Fire Publications.
- Matthews, R.B., T. Horie, M.J. Kropff, D. **Bachelet**, H.G. Centeno, J.C. Shin, S. Mohandass, S. Singh, Z. Defeng, and Moon Hee Lee. **1995**. A regional evaluation of the effect of future climate change on rice production in Asia. pp 95-139, In: R.B. Matthews, M.J. Kropff, D. Bachelet and H.H. van Laar (co-editors), *Modeling the impact of climate change on rice production in Asia*. **CAB International**.
- Matthews R.B., M.J. Kropff, D. **Bachelet**, T. Horie, Moon Hee Lee, H.G.S. Centeno, J.C. Shin, S. Mohandass, S. Singh, and Zhu Defeng. **1995**. Modeling the impact of climate change on rice production in Asia. pp 314-325, In: S. Peng, K.T. Ingram, U. Neue and L. Ziska (co-editors), *Climate Change and Rice*. **Springer Verlag**.
- Matthews R.B., M.J. Kropff, D. **Bachelet**, and H.H. van Laar (co-editors). **1995**. Modeling the impact of climate change on rice production in Asia. **CAB International**. 304pp.

ORAL AND POSTER PRESENTATIONS AT NATIONAL AND INTERNATIONAL MEETINGS

- Bachelet, D., D. Conklin, B. Rogers, M. McGlinchy, J. Lenihan, R. Neilson, R. Drapek. Can global models reproduce the current increase in Western United States wildfires and project a reliable future trend? 94th Annual Meeting of the **Ecological Society of America**, Albuquerque, 2-7 August, **2009**.
(<http://precedings.nature.com/documents/3618/version/1>)
- Bachelet, D., D. Conklin, J. Lenihan, R. Neilson, R. Drapek, B. Rogers, and M. McGlinchy. Can current models reproduce the increase in Western United States Wildfires and project a reliable future trend? *Geophysical Research Abstracts* Vol. 11, EGU 2009-13172-1. Annual meeting of the **European Geophysical Union**, Vienna, Austria, April 20-24, **2009**.
- Bachelet D. (presenter) and C. Zganjar. The Nature Conservancy climate change database. 93rd Annual Meeting of the **Ecological Society of America**, Milwaukee, WI, August 3-8, **2008**.
- Bachelet, D. TNC scientists' challenge to simulate climate change impacts on world forests: how to make it useful to conservation practitioners. Annual meeting of **IALE**, Madison (WI) April 6-10, **2008**.
- Bachelet, D. DGVMs. Vegetation Models and Climate Change **Workshop** organized by WWETAC USDA FS and ESSA Technologies Ltd, Portland (OR), January 23-24, **2008**.
- Bachelet, D., B. Baker, J. Hicke, D. Conklin and K. McKelvey. Data gathering and simulation of climate change impacts in mountainous areas. **AGU** Fall Meeting, San Francisco, CA,

10-14 Dec **2007**.

- Bachelet, D. (conference organizer) TNC Climate Change Science Team. TNC Climate Change Science **Conference**. Portland (OR), Sep 5-7, **2007**.
- Bachelet, D., R.P. Neilson, and S. Running. Global Modeling and Prediction of Climate-induced Forest Dieback. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, OR, 1-6 August **2007**.
- Bachelet, D. Modeling Forests. 8th Annual International Digital Government Research Conference, May 20-23, **2007**. Philadelphia, PA.
- Bachelet, D. Impacts of climate change on vegetation and fire. Climate Change: Implications for Olympic Peninsula Forests Ecosystem **Forum**. February 23, **2007**. Forks, WA.
http://www.ruraltech.org/video/2007/ONRC_Climate_Change/index.asp
- Bachelet D. and the MAPSS Team. MC1 Fire model. **QWEST** Fire FTI Writing group workshop. 30 October-3 November **2006**, Dartington, Devon, UK.
- Bachelet D. and the MAPSS Team. Climate change, fire and CO₂ interactions in North American Forests. **GEIA** 2006 Open Conference. 29 November - 1 December **2006**, Paris, France.
- Bachelet D. and the MAPSS team. Precipitation, CO₂ and fire effects on North American ecosystems. International **EPRECOT workshop** on Precipitation Change, Helsingor, Denmark, 22-25 May, **2006**.
- Bachelet D. Climate change and fire disturbance in the future. NCSSE Forest Disturbance, Management, and Biodiversity **Symposium**, Denver, CO, 26-27 April **2006**.
- Bachelet D. (session chair) and the MAPSS Team. VEMAP vs VINCERA – A DGVM sensitivity to climate, CO₂, nitrogen and fire. **AGU** Fall Meeting, San Francisco, CA, 5-9 Dec **2005**.
- Bachelet D. and the MAPSS Team. Predicting future ecosystem responses to climate via flux measurements. **Ameriflux** Annual Science Team Meeting. 18-20 October **2005**.
- Bachelet D. Warmer Temperatures and Pacific Northwest Fire Potential. Climate Change **Forum**. Marylhurst University, Portland, Oregon. 8 October **2005**
- Bachelet D. and the MAPSS Team. Biome and Plant Functional Type Responses predicted by the global vegetation model MC1. Global Environmental Change and Biodiversity **TERRAC workshop**, Dourdan, France. 2-4 May **2005**.
- Bachelet D. and the MAPSS Team. Can we validate our DGVMs with FIA data? PNW Forest Inventory and Analysis (**FIA**) 2005 Client's Meeting Agenda, Troutdale, OR. 15 March **2005**.
- Bachelet D. Forests: Managing Disturbance Regimes. **Workshop** on Climate Change, Energy and the Future of Washington State. 11 February **2005** at the Evergreen State College, Olympia, WA.
- Bachelet D. and J. Lenihan. The role of climate variability and disturbance on the carbon budget of Alaskan forests. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.
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- Bachelet D., J. Lenihan, R. Neilson, and R. Drapek. Simulating the response of natural ecosystems and their fire regimes to climatic variability. 12th International Boreal Forest Research Association (**IBFRA**) **Conference** 3-7 May **2004**, Fairbanks, Alaska.
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- Bachelet D. and the MAPSS Team. Simulated fire impacts on forest nitrogen cycle. 4th North American Forest Ecology **Workshop**, Corvallis, Oregon, 16-10 June **2003**.
- Bachelet D., D. Conklin, and R.P. Neilson. Two DGVMs simulate C and N fluxes at Ameriflux sites. **EGS-AGU-EUG** Joint Assembly, Nice, France, 6-11 April, **2003**.
- Bachelet D., R.J. Drapek, and the MAPSS Team. Is the size of the Carbon Sink caused by "Woody Encroachment" of U.S. Grasslands overestimated? One DGVM calculates an answer. **AGU** Fall Meeting, San Francisco, CA, 10-12 Dec, **2002**.
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- Bachelet D. Simulating Soil Carbon from regional to Continental Scales. Northwest Forest Soils Council. Portland, OR, 25 January **2002**.
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- Bachelet D., R.J. Drapek, and VEMAP participants. Historical and future sources and sinks in the conterminous U.S.: simulation results from two DGVMs. Global Change Open Science **Conference**, Amsterdam, Netherlands, 10-13 July **2001**.
- Bachelet D. Comparing dynamic vegetation models: trials and tribulations. **Cary Conference IX** Understanding Ecosystems: the role of quantitative models in observation, synthesis and prediction, Millbrook, NY, 1-3 May **2001**.
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- Bachelet D. A biogeography model called MAPSS. **AWIS Annual Meeting**, Durham, New Hampshire, 4 April **1996**.
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- Bachelet D., J.S. Kern, and M. Tölg. Modeling the rice carbon budget in China using GIS technology (presented by Jeff Kern). **Third International Workshop on Geographic Information system**, 19-22 August **1993**.
- Bachelet D. Climate change impacts on net primary production in China. **International Symposium on Climate Change, Natural Disasters and Agricultural Strategies**, Beijing Agricultural University, PR China, 26-29 May **1993**.
- Bachelet D. Rice field inventory in China using AVHRR data. **International Symposium Disturbed Climate Vegetation and Foods**, Tsukuba, Japan, 13-17 October **1992**.
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Co-authored:

- Neilson, R.P., J.M. Lenihan, D. **Bachelet** (presenter), R.J. Drapek, C. Daly, J. Wells, M. McGlinchy, B. Rogers, G. Pinjuv, P. Gonzalez. 2nd **NACP All-investigators meeting**, Sam Diego, CA, 17-20 Feb **2009**.
- Conklin, D.R., D. Bachelet, B. Kuhn, J.A. Panek, J. W. van Wagtenonk. Potential disappearance of subalpine vegetation from Yosemite. **AGU Fall Meeting**, San Francisco, CA, 15-19 Dec **2008**.
(http://www.fs.fed.us/psw/cirmount/meetings/agu/agu2008.shtml/Conklin_agu2008_poster.pdf)
- Zganjar, C., E. Girvetz, G. Raber, **D. Bachelet**, and J. Lawler. Conservation and climate – using technology to inform decision making. Annual meeting of the International Congress for Conservation Biology, Convention Center, Chattanooga, TN, July 10, **2008**.
- Baker B. (presenter), D. **Bachelet**, A. Spessa, K. Thonicke, J. Lenihan, P. Friedligstein, S. Harrison. Validation of dynamic vegetation-fire model simulations. 4th **IGBP Congress**,

- Cape Town (S. Africa), 5-9 May **2008**.
- Zganjar, C., J. DeBlieu, D. **Bachelet**, B. Stanley. Climate Change Database Development and Learning Networks Establishment. **AGU Fall Meeting**, San Francisco, CA, 10-14 Dec **2007**.
- Lenihan, J.M., D. **Bachelet**, R. Neilson, and R. Drapek. Simulated Response of Conterminous United States Ecosystems to Climate Change at Different Levels of Fire Suppression, CO₂, and Growth Response to CO₂. **AGU Fall Meeting**, San Francisco, CA, 10-14 Dec **2007**.
- Neilson, R.P., D. **Bachelet** (speaker), S.W. Running. Global modeling and prediction of climate-induced forest dieback, 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 1-6 August **2007**.
- Baker, B., D. **Bachelet**, J. Lenihan, and R. Drapek. Simulating the effect of various climate change scenarios on conservation in northwestern Yunnan, PRC. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Neilson, R., D. **Bachelet**, (presenter), and S. Running. Global Modeling and Prediction of Climate-induced forest dieback. 92nd Annual Meeting of the **Ecological Society of America**, San Jose, CA, 5-10 August **2007**.
- Lenihan, J. and the **MAPSS Team**. Widespread Dieback of Forests in North America under Rapid Global Warming: Response to the VINCERA Future Climate Scenarios Simulated by the MC1 DGVM. **AGU Fall Meeting**, San Francisco, CA, 5-9 Dec **2005**.
- Baker, B., D. **Bachelet**, C. Daly, Ma Jian, R. Moseley, S. Xuezheng, S. Jihua, and A. Shlisky. 2005. Effects of climate change and land management practices in the Hengduan Mountains of northwestern Yunnan, PRC: Options for alpine conservation. **Open Science Conference: Global Change in Mountain Regions**, Perth, Scotland October 2-6, **2005**.
- Neilson, R.P., J. Lenihan, and D. **Bachelet**. Climate change implications for sagebrush ecosystems. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.
- Lenihan, J.M. and D. **Bachelet**. Simulated effect of climate and fire suppression on area burned and carbon dynamics in the coterminous United States. 89th Annual Meeting of the **Ecological Society of America**, Portland, OR, 1-6 August **2004**.
- Drapek, R.J., J.M. Lenihan, R.P. Neilson, and D. **Bachelet**. Comparing vegetation maps: an alternative to Kappa statistics. 87th Annual Meeting of the **Ecological Society of America**, Tucson, AZ, 4-9 August **2002**.
- Neilson, R.P., S. Running, D. Schimel, D. Ojima, W. Parton, J. Melillo, W.M. Post, A.W. King, T. Kittel, I.C. Prentice, M. Sykes, D. **Bachelet**, P. Thornton, and VEMAP participants. Potential impacts of climate change on carbon sequestration and ecosystems in the conterminous U.S.: Analyses from six VEMAP models. **Global Change Open Science Conference**, Amsterdam, Netherlands, 10-13 July **2001**.
- Drapek, R.J., R.P. Neilson, D. **Bachelet**, J.M. Lenihan, and VEMAP Members. MC1 LAI and vegetation carbon output compared with its progenitor models and with new satellite LAI estimates. 85th Annual Meeting of the **Ecological Society of America**, Snowbird, UT, 6-10 August **2000**.
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- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. Potential impacts

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- Neilson, R.P., D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and Potentially Complex Biosphere-Atmosphere Feedbacks: Is There a Threshold Global Temperature Increase That Could Shift the Biosphere from Negative to Positive Feedback with the Climate System? LTER Workshop: Biogeographical and Biogeochemical Analysis of Climate Variability and Change. Fourth **LTER All Scientists Meeting**, Snowbird, Utah, 2-4 August **2000**.
- Neilson R.P, D. **Bachelet**, J.M. Lenihan, R.J. Drapek, and VEMAP Members. The VEMAP Models and potentially complex biosphere-atmosphere feedbacks: Is there a threshold global temperature increase shifting the biosphere from negative to positive feedback with the climate system. **AGU Spring Meeting**, Washington, D.C., 30 May- 3 June **2000**.
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- Lenihan J.M., D. **Bachelet**, C. Daly, R.P. Neilson, D. Ojima, and H.W. Parton. Simulating broad-scale fire severity in the MAPSS-CENTURY Dynamic Global Vegetation Model. **GCTE-LUCC Open Science Conference** on Global Change, Barcelona, Spain, 14-18 March **1998**.
- Daly, C., J.M. Lenihan, D. **Bachelet**, R.P. Neilson, and D. Ojima. Modeling the effect of global change on vegetation distribution, water balance, and productivity in the Great Plains region. 82nd Annual Meeting of the **Ecological Society of America**, Albuquerque, NM, 10-14 August **1997**.
- Hoff C., D. **Bachelet**, S. Rambal, R. Joffre, and B. Lacaze. Simulating carbon budget of Mediterranean evergreen oak ecosystems. Comparison with remotely-sensed parameter. **IUFRO Meetings**, Montpellier, France, August **1995**.
- Holman S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice root dynamics. International **Symposium** Disturbed Climate Vegetation and Foods, Tsukuba, Japan, 13-17 October **1992**.
- Olszyk D.M., D. **Bachelet**, K. Heong, K. Ingram, M. Kropff, H.U. Neue, P. Teng, and B. Vergara. The EPA/IRRI Rice Research Program: effects of climate change on the wetland rice ecosystem. International **Symposium** Disturbed Climate Vegetation and Foods, Tsukuba, Japan, 13 -17October **1992**.
- Holman S.R. and D. **Bachelet**. Influence of elevated CO₂ and temperature on wetland rice roots dynamics and the implications for methane production. 77th Annual Meeting of the **Ecological Society of America**, Honolulu, Hawaii, 9-13 August **1992**.
- Olszyk D.M., D. **Bachelet**, P. Barnes, D. Brown, S. Holman, K. Ingram, B. Vergara, M. Bonman, F.W.T. Penning de Vries, H. Neue, and K. Heong. Effects of UV-B and Global Climate Change on Rice Production: The EPA/IRRI Cooperative Research Program. **Agronomy Abstracts**, Annual Meeting, p. 44, Poster paper presented at the **ASA, CSSA, SSSA 82nd Annual Meeting**, San Antonio, TX, October **1990**.
- Brown D. and D. **Bachelet**. Application of geographic information system technology for assessing the effects of global climate change and increased UV-B radiation on the rice ecosystem in Asia. 75th Annual Meeting of the **Ecological Society of America**, Snowbird, Utah, 29 July- 2 August **1990**.
- Wondzell S.M. and D. **Bachelet**. Factors affecting the dynamics of shrub and grassland

communities in the Northern Chihuahuan desert. 3rd Annual Landscape Ecology **Symposium**. Observations across scales: Function and Management of Landscapes. Univ. of New Mexico, Albuquerque, NM, 16-19 March **1988**.

Virginia R.A., W.M. Jarrell, D. **Bachelet**, P.W. Rundel, R. Sharifi, D.H. Kohl, G. Shearer, and E.T. Nilsen. Nitrogen fixation and plant productivity in a California Sonoran Desert wash woodland. Proceedings of 35th Annual **AIBS** Meeting, Colorado State University, Fort Collins, 5-9 August **1984**.

OTHER PRESENTATIONS AVAILABLE ON THE WEB

2009 Yosemite Forum <http://yosemitenews.info/forum/read.php?1,7326,7326>

SYNERGISTIC ACTIVITIES

Presenter – Science Training

- U.S. Fish and Wildlife Service Climate Change science training session for employees sponsored by the Univ. of Washington Climate Impacts Group and others: Lacey, WA, February 11, 2008.
- U.S. Forest Service Vegetation Models and Climate Change Workshop: January 23-25, 2008, Portland, OR (<http://www.fs.fed.us/wwetac/workshops/>).

Reviewer for scientific journals: BioScience, Biogeochemistry, Catena, Climatic Change, Ecological Applications, Ecological Modelling, Ecosystems, Forest Science, Frontiers in Ecology, Global Biogeochemical Cycles, Landscape Ecology, Nature, Nutrient Cycling in Agroecosystems, Soil Science.

Reviewer for National Agencies: USDA National Research Initiative Competitive Grants Program, USDA Fund for Rural America, USDA Managed Ecosystems Program, DOE Program for Ecosystem Research, NSF, Western Region's Water Resources Research Competitive Grants Program, U.S. Civilian Research and Development Foundation.

Contributing author to the Intergovernmental Panel on Climate Change (IPCC) Assessment Reports: Chapter 13. Agriculture in a changing climate: impacts and adaptation. In: Watson et al., Climate Change 1995: Impacts, adaptations and mitigation of climate change: scientific-technical analyses. Published for IPCC 1996, Cambridge University Press.

Contributing author to the 2000 National Assessment. Chapter 17. Potential consequences of climate variability and change for the forests of the United States. In: National Assessment Synthesis Document. 2000.

<http://www.cgrio.org/NationalAssessment/>

Expert reviewer for 2007 Intergovernmental Panel on Climate Change (IPCC) Working Group II Fourth Assessment Report. <http://www.ipcc-wg2.org/>

HONORS

2005 Certificate of appreciation for exceptional contribution to the VINCERA (Vulnerability and impacts of North American forests to climate change: ecosystems response and adaptation) North American Climate Change project and overall MAPSS team support. USDA Forest Service PNW Research Station, FSL, Corvallis OR.

2004 15 Year Services Award Oregon State University

- 2003 Certificate of appreciation for outstanding dedication to the US National Assessment of the Ecological Impacts of Global Warming and the production of a world class, peer reviewed legacy in support of the assessment. USDA Forest Service PNW Research Station, FSL, Corvallis OR.
- 1999 10 Year Services Award Oregon State University
- 1992 Performance Incentive Program Award - ManTech Env. Technology Inc.

PROFESSIONAL SOCIETIES

American Association for the Advancement of Science
American Geophysical Union
Ecological Society of America

CLASSES TAUGHT AT OSU

Global Ecology (BRE 551X Spring and Fall 1992)
Graduate Research and Publication (BRE 507 section 2 - Spring 1997, 1998, 1999, 2000)
Graduate Student Orientation (BRE 507 section 1 - Winter 1998)

OSU STUDENT CURRENT COMMITTEE MEMBER

David Conklin (Ph. D., Biological and Ecological Engineering), Charles Hillyer (Ph. D., Biological and Ecological engineering), Tara Hudiburg (Ph. D., Forest Ecosystems and Society), Debbie Reusser (Ph. D., Geosciences)

OSU PAST STUDENT COMMITTEE MEMBER

Marilynn Bartels (M.S., Botany and Plant Pathology, 2000), Michael Cairns (Ph. D., Botany and Plant Pathology, abandoned 2001), Lance George (M.S., Forest Science), Katherine Jacobs (M.S., Forest Science, 2002), Jonathan Kehmeier (M.S., Bioengineering, 2000), France Lamy (Ph. D., Bioengineering, replaced June 2002), Jennifer Larsen (M.S., Geography, 2005), Julian Licata (M.S., Forest Science, 2004; Ph. D., Forest Science, 2007), Patrick McQuarrie (Ph. D., Geosciences), Rozi Mohammed (M.S., Forest Science, 1999), Kristen Overturf (M.S., BioResource Engineering, 1999), Daniel Sarr (Ph. D., Forest Science, 2004), Carla Stevens (M.S., Biological and Ecological Engineering).

POSTDOCTORAL FELLOWS and INTERNS

Christophe Cassen (ENGREF, France – summer 2007), Yutaka Hagimoto (Postdoctoral fellow, Biological and Ecological Engineering - 2004-2008), Michael Tolg (Germany, 1993).