

RESUME

1. Contact Information

John Edgar Lundquist
Supervisory Entomologist
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2. Education Background.

MBA, Colorado St Univ, 2002, Business Administration; Certificate in Finance, 2005.
Ph.D., University of Georgia, 1979, Plant Pathology
M.F., Yale University, 1976, Tree Physiology and Forest Pathology
B.S., University of Washington, 1974, Forestry.

3. Professional experience.

February 2006 – Present. Supervisory Forest Entomologist, GS-414-13. Region 10, USDA Forest Service, R 10 Forest Health Protection, and the Pacific Northwest Research Station, Anchorage, AK

October 2001 – February 2006. Research Plant Pathologist, GS-434-14. RM-4451, USDA Forest Service. Rocky Mountain Research Station, Fort Collins, CO.

August 1995 – October 2001. Research Plant Pathologist, GS-434-13. RM-4451, USDA Forest Service. Rocky Mountain Research Station, Fort Collins, CO.

November 1991 – August 1995. Research Plant Pathologist, GS-434-12. RM-4501, USDA Forest Service. Rocky Mountain Forest and Range Experiment Station, Fort Collins, CO.

April 1990 - November 1991. Plant Pathologist, GS-434-11. USDA Forest Service, Forest Pest Management, R-2. Rapid City Service Center, Rapid City. SD.

February 1988 - April 1990, Research Associate. Department of Horticulture, North Dakota State University, Fargo, ND.

January 1982 - January 1988, Research Plant Pathologist. Plant Protection Research

Institute, Stellenbosch and Sabie, South Africa.

4. Professional Activities and Recognition.

a. Honors and Awards.

Member of Xi Sigma Forestry Honor Society. 1972.

Yale Academic Scholarship. 1975.

Crown Zellarbach Academic Scholarship. 1974.

Outstanding Student Research Award, South-wide Forest Disease Workshop. 1979.

Elected member of Sigma Xi. 1991.

Certificate of Appreciation for dedicated research in forest health and support of the graduate program, Department of Bioagricultural Sciences, Colorado State University, 1998.

Station Certificate of Merit for Extra Effort in the Transfer of Research Results. 1999.

USDA Rocky Mountain Research Station Certificate of Merit for conveying research results to managers. 2000.

Region 10 Regional Foresters Award for Partnerships, 2010.

b. Society and professional activities.

i. Membership in professional societies.

Entomological Society of America, 2005 to present.

American Phytopathological Society, 1979 to present.

Society of American Foresters, 1976 to present.

South African Phytopathological Society, 1980 to 1989.

South African Institute of Forestry, 1980 to 2000.

Sigma Xi, 1973 to present.

ii. Service in professional societies.

Member, Emerging Issues Committee, Society of American Foresters. 2009 – present.

Co-Chair, Invasive Species Program Track, Society of American Foresters, National Convention. 2009.

Co-Chair, Healthy Forests and Management Program Track, Society of American Foresters National Convention. 2007 and 2008.

Co-Director at large, Alaska Entomological Society. 2008 .

Chair, Insect and Disease Working Group, Society of American Foresters. 2007 – 2009.

Member, Scientific Programs Board, American Phytopathological Society. 2004-2007.

Member, Plant Disease Loss Committee, American Phytopathological Society. 2001 – 2004.

Chair (2003-2004), Chair-elect (2001 - 2002), Secretary (2000), Insect and Disease Working Group, Society of American Foresters.

Member, Meetings Board, American Phytopathological Society. 1999-2001.

Chair, Epidemiology, Ecology, and Environmental Biology Section, American Phytopathological Society. 1998-2000; 2nd term 2001-2004; 3rd term 2004-2007.

Member, Annual Meeting Program Committee, American Phytopathological Society, 2001-2004.

Chair, Forest Pathology Committee, American Phytopathological Society. 1998.

Member of the Cultural Diversity Committee, American Phytopathological Society. 1997-2003.

Member of Forest Pathology Committee, American Phytopathological Society. 1994 - 1996.

iii. University involvement.

1990 - 1992, Affiliate Faculty, Department of Biology, South Dakota School of Mines and Technology, Rapid City, South Dakota.

1992 - Present, Affiliate Faculty, The Department of Bioagricultural Sciences and Pest Management, Colorado State University, Fort Collins, CO.

1999 - Present, Affiliate Faculty, Department of Forest, Rangeland & Watershed Stewardship, Colorado State University, Fort Collins, CO.

5. Presentations

a. Invited papers and posters

Lundquist, J.E. The pre-gall symptoms of fusiform rust. South African Society of Plant Pathology, Stellenbosch, South Africa. March 3, 1982.

Lundquist, J.E. Forest pathology in South Africa. University of Stellenbosch Class Lecture, Stellenbosch, South Africa. April 5, 1982.

Lundquist, J.E. Forest pathology in South Africa. Plant Quarantine Station Seminar, Stellenbosch. January 18, 1984.

Lundquist, J.E. Forest tree diseases. Rotary Club Meeting, Tzaneen, South Africa. October 23, 1984.

Lundquist, J.E. Current issues in forest pathology. South African Timber Growers Association Extension Officers Seminar, Pietermaritzburg, South Africa. April 16, 1985.

Lundquist, J.E. Tree diseases of the eastern Transvaal. Mondi Timber Co. Tree Improvement Research Seminar, Sabie, South Africa. June 14, 1985.

Lundquist, J.E. History of forest pathology in South Africa. Subtropical Fruit Research Institute Seminar, Nelspruit, South Africa. August 16, 1985.

Lundquist, J.E. Forest pathology at D.R. de Wet Forestry Research Centre. University of Witwaterstrand Class Lecture, D.R. de Wet Forestry Research Centre, Sabie, South Africa. July 18, 1985.

Lundquist, J.E. Forest pathology in South Africa. University of Potchefstroom Class Lecture, D.R. de Wet Forestry Research Centre, Sabie, South Africa. September 11, 1985.

Lundquist, J.E. Archives, accessions and the past - an historical survey of tree diseases in South Africa. South African Institute of Forestry Symposium, Sabie, South Africa. April 16, 1986.

Lundquist, J.E. Using small plots to monitor for rhizina root rot hazard. South African Institute of Forestry Symposium, Badplaas, South Africa. November 18, 1986.

Lundquist, J.E. Forest diseases in pine and eucalypt stands." Transvaal Wattle Growers Association Seminar, Piet Retief, South Africa. January 13, 1987.

Lundquist, J.E. Forestry and forest diseases in South Africa. Department of Horticulture and Forestry Seminar, North Dakota State University, Fargo, ND. October 17, 1988.

Lundquist, J.E. A perspective on forest tree diseases in South Africa. Department of

Plant Pathology Seminar, North Dakota State University, Fargo, ND. December 9, 1988.

Lundquist, J.E. Forestry and forest diseases in South Africa. North Dakota State University, Plant Pathology Department Seminar. March 13, 1989.

Lundquist, J.E. South African forest diseases. North Dakota State University, Horticulture Department Seminar. January 15, 1990.

Lundquist, J.E. Forests and forestry in South Africa. Rocky Mountain Forest and Range Experiment Station Seminar Series, Rapid City, SD. Nov. 15, 1990.

Lundquist, J.E. The forest protection program in South Africa. Forest Pathology and Entomology Lunch Lecture Series, Colorado State University, Fort Collins, CO. November 19, 1990.

Lundquist, J.E. Evaluating trees for hazard. Arbor Day Institute Lecture Series, Nebraska City, Nebraska. July 10, 1991.

Lundquist, J.E. Forest diseases in Southern Africa. Sigma Xi Lecture Series, South Dakota School of Mines, Rapid City, SD. January 17, 1992.

Lundquist, J.E. A view of South Africa. Rocky Mountain Experiment Station Seminar Series, Rapid City, SD. November 15, 1992.

Lundquist, J.E. Landscape analysis of forest gaps to characterize the impact of management on pest activity and forest health. Landscape Analysis Workshop II: Applications of GIS for Spatial Analysis to Support Land Management Planning, Fort Collins, CO. June 16, 1993.

Lundquist, J.E. Patchmakers and patches. Rocky Mountain Forest and Range Experiment Station Seminar, Rapid City, SD. January 15, 1993.

Lundquist, J.E. Describing small-scale forest disturbances in the western USA. Lecture the visiting Chinese delegation, Fort Collins, CO. June 7, 1993.

Lundquist, J.E. Canopy gaps studies in the Sacramento Mts. Talk to Wildlife Class and others from New Mexico State University during a field trip, Cloudcroft, NM. October 23, 1993.

Lundquist, J.E. Small-scale disturbances and the Mexican spotted owl - research review and prospectus for the Sacramento Mts. Talk to the Mexican Spotted Owl Recovery Team, Fort Collins, CO. February 25, 1994.

Lundquist, J.E. Disturbance in Black Hills forests - a review of research. Black Hills National Forest Leadership Team Meeting, Rapid City, SD. March 4, 1994.

Lundquist, J.E., B.W. Geils, and J.F. Negron. Integrating applications for understanding the effects of small-scale disturbances in forest ecosystems. Analysis in Support of Ecosystem Management, Analysis Workshop, Fort Collins, April 10-13, 1995.

Lundquist, J.E. The meaning and use of disturbance indices. Annual Western Forest Insect Work Conference, Rapid City, SD. April 25, 1995. Published Abstract.

Lundquist, J.E. Describing the conditions of forest ecosystems using disturbance profiles. National Silviculture Workshop, Ruidoso, NM. May 9, 1995. Published Abstract.

Lundquist, J.E. Using profiling to measure forest health. Forest Health Monitoring Colloquium. American Phytopathological Society Annual Meeting, Rochester, August 9-13, 1997. Published Abstract

Lundquist, J.E. Insects and diseases. Workshop on Landscape Disturbance. Western Forest Fire Research Center Workshop, Lakewood, CO, May 12-15, 1997.

Lundquist, J.E., B.W. Geils, and J.P. Ward, Jr. Impact of forest diseases on small-mammal prey of the Mexican spotted owl. Society of American Foresters Convention, Albuquerque, NM., November 9-13, 1996. Published Abstract.

Lundquist, J.E. Profiling forest health. Northern Arizona University Seminar, Flagstaff, AZ. March 21, 1998.

Lundquist, J.E. Multi-scale, multi-objective analysis of disease impacts. USDA Forest Service Headquarters Seminar, Washington D.C. September 14, 1998.

Lundquist, J.E. Quantifying interactions of Armillaria root disease with other stresses in ponderosa pine forests. The 7th International Congress of Plant Pathology, Edinburgh, Scotland. Poster. Published Abstract.

Lundquist, J.E., and N.B. Klopfenstein. Integrating concepts of landscape ecology with the molecular biology of forest diseases. American Phytopathological Society Annual Meeting, Montreal, August 6-12, 1999. Published Abstract.

Lundquist, J.E. From Molecules to ecosystems: Bridging scales in forest disease concepts- concluding remarks. American Phytopathological Society/Canadian Phytopathological Society Joint Annual Meeting, Montreal, August 6-12, 1999. Published Abstract.

Lundquist, J.E. Profiling the condition of forest stands. Region 2 Biologists Meeting. Laramie, WY. April 7, 1999.

Lundquist, J.E. Use of research data in the NEPA process. NEPA Coordinators Meeting,

Laramie, WY. May, 2000.

Lundquist, J.E. Application of profiling to forest management. Menominee Indian Tribe Forest Managers Meeting, Menominee, WI. July 7, 2000.

Lundquist, J.E. Use of remote sensing to examine the effect of diseases, insects, and other disturbances on the incidence and spread of wildfire. RMRS Fire Research Information Sharing & Coordination Meeting, Fort Collins, CO. January 9, 2001.

Lundquist, J.E. and G.I. McDonald. Landscape pathology: defining the framework. American Phytopathological Society Annual Meeting, Salt Lake City, UT. August 25 – 29, 2001. Published Abstract.

Lundquist, J.E. 2004. Why usable research sometimes goes unused by managers. Monitoring Science and Technology Symposium sponsored by the Consortium for Advancing Monitoring of Ecosystem Sustainability in the Americas (CAMESA), Denver, CO. September 21-24, 2004.

Lundquist, J.E. Predicting fuel-generating disturbances along the Front Range. Front Range Fuels Management Coalition Meeting, Denver. July 10, 2005.

Lundquist, J.E. Amber-marked birch leaf miner in Alaska. Pesticide Recertification Workshop. Anchorage, AK. March 28, 2006.

Lundquist, J.E. The landscape legacy of dwarf mistletoe in lodgepole pine forests in Wyoming. Joint Annual Meetings of the American Phytopathological Society, Mycological Society of America, and the Canadian Phytopathological Society, Quebec City, Canada. August 1, 2006. Published Abstract.

Lundquist J.E. Biocontrol efforts for amber-marked birch leaf miner in Alaska. Northern Forest Cooperative Meeting, Wasilla, AK. Oct. 11, 2006.

Lundquist, J.E. and B. Bentz. Bark beetles in a changing climate. Society of American Foresters Annual Convention, Portland, OR. November 25, 2007. Published Abstract.

Lundquist, J.E. Amber marked birch leaf miner in Anchorage. Sustainable Gardens Sustainable Communities, Alaska Botanical Gardens Conference, Anchorage. AK. March 29, 2008.

Lundquist, J.E. A current view of amber marked birch leaf miner in Alaska. Northern Cooperative Forestry Annual Convention, Talkeetna, AK. April 15, 2008.

Lundquist, J.E. Spruce beetle in Alaska's changing climate. Alaska Region Leadership Team Meeting, Juneau, AK. December 10, 2008.

Lundquist, J.E. History of spruce beetle on the Kenai Peninsula. Seward District Family Meeting. January 30, 2008.

Lundquist, J.E. Forest insects on the Kenai. University of Alaska, Fairbanks Field Coarse, Cooper's Landing, AK. May 16, 2008.

Lundquist, J.E. Life as an entomologist in Alaska. Youth Employment in the Parks Field Day, Muldoon Park, Anchorage, AK. July 7, 2008.

Lundquist, J.E. Non-traditional pesticides and biocontrol of the amber-marked birch leaf miner in Alaska. Western Forest Insect Work Conference, Spokane, WA. March 26, 2009.

Lundquist, J.E. Brown leaves in late summer. Alaska Botanical Gardens Conf., Anchorage, AK. April 15, 2009.

Lundquist, J.E. A history of spruce beetles on the Kenai Peninsula. Association of Consulting Foresters National Convention. Anchorage, AK. June 30, 2009.

Klopfenstein, N.B., Kim, M.-S., Hanna, J.W., Richardson, B.A., Maffei, H., Smith, A.L., Lundquist, J.E. Approaches to predict impacts of climate change on forest disease: An example with Armillaria root disease in the inland northwestern USA. Seminar to the Korea Forest Research Institute, Seoul, South Korea, October 23, 2009. *Presented by NBK.*

Klopfenstein, N.B., Kim, M.-S., Hanna, J.W., Richardson, B.A., Maffei, H., Smith, A.L., Lundquist, J.E. Approaches to predict impacts of climate change on forest disease: An example with Armillaria root disease in the inland northwestern USA. Seminar to the Faculty of Natural Sciences and Institute of Basic, Dankook University, Cheonan, South Korea, October 26, 2009. *Presented by NBK*

Lundquist, J.E. Forest insects on the Kenai. University of Alaska, Fairbanks Field Coarse, Cooper's Landing, AK. May 15, 2009.

Lundquist, J.E. Life as an entomologist in Alaska. Youth Employment in the Parks Field Day, Muldoon Park, Anchorage, AK. June 29, 2009.

Klopfenstein, N.B., Kim, M.-S., Hanna, J.W., Richardson, B.A., Maffei, H., Smith, A.L., Lundquist, J.E. Approaches to predict impacts of climate change on forest disease: An example with Armillaria root disease in the inland northwestern USA. Seminar to the Faculty of Natural Sciences and Institute of Basic, Dongguk University, Seoul, South Korea, October 27, 2009. *Presented by NBK*

Klopfenstein, N.B., Kim, M.-S., Hanna, J.W., Richardson, B.A., Smith, A.L., Maffei, H., Lundquist, J.E. Toward predicting potential impacts of climate change on forest disease:

An example with *Armillaria* root disease in the inland northwestern USA. 1st Joint Symposium of the Korea and Japan Plant Pathological Societies. Jeju City, Jeju, South Korea. October 28- 31, 2009. *Presented by NBK*

Lundquist, J.E. Alaskan forest insects in a changing climate. Master Gardener Training, Anchorage, AK. November 17, 2009.

Lundquist, J.E. Brown leaves in late summer. Master Gardener Training, Anchorage, AK. October 20, 2009.

Lundquist, J.E. Forest insects on the Kenai. University of Alaska, Fairbanks Field Coarse, Cooper's Landing, AK. May 20, 2010.

Lundquist, J.E. Climate change and forest insects. Focus Group Session, Annual Forest Health Monitoring Meeting, Albuquerque, NM. January 27, 2010.

Lundquist, J.E. Insects, climate, and the Kenai. Climate Change Forum, Chugach NF Leadership Team Meeting, Girdwood, AK. February 3, 2010.

b. Offered presentations and posters

Lundquist, J.E. Comparison of the physiological responses of resistant and susceptible slash pines to fusiform rust. Southern Forest Disease and Insect Research Council, Atlanta, Georgia. December 16, 1977.

Lundquist, J.E. Evaluation of screening techniques for fusiform rust. Southwide Forest Disease Workshop, Lexington, Kentucky. February 14-16, 1978. Published Abstract.

Lundquist, J.E., T. Miller and H.R. Powers, Jr. High inoculum levels give a rapid evaluation of resistance to fusiform rust. Annual Congress American Phytopathological Society, Tucson, Arizona. October 31, 1978. Published Abstract.

Lundquist, J.E. A quantitative method of analyzing early symptoms of fusiform rust. Southwide Forest Disease Workshop, Clemson, S.C. June 5-7, 1979.

Lundquist, J.E. A flow chart diagram to aid in making forest tree disease control decisions. Twenty first Annual South African Society of Plant Pathology Congress, Wildernes, South Africa. January 25, 1983.

Lundquist, J.E. A method to measure the intensity of a leaf disease of *Eucalyptus nitens* caused by *Mycosphaerella molleriana*. South African Society of Plant Pathology Annual Congress, Johannesburg, S.A. January 20-24, 1984. Published Abstract.

Lundquist, J.E. Important tree diseases of the Transvaal. Westphalia Estates Forest Workshop, Tzaneen, South Africa. October 24, 1984.

Lundquist, J.E. How to recognize tree diseases in the eastern Transvaal. Regional District Foresters Workshop. Tweefontein State Forest, Sabie, South Africa. November 14, 1984.

Lundquist, J.E. Reduced growth rates of *Eucalyptus nitens* caused by *Mycosphaerella molleriana*. Twenty third Annual South African Society of Plant Pathology Congress, Alice, Republic of the Ciskei. January 21, 1985. Published Abstract.

Lundquist, J.E. Major diseases of the southern Transvaal and how to recognize them. Southern Transvaal Forest Region Staff Workshop, Nelspruit, South Africa. April 26, 1985.

Lundquist, J.E. Diseases that are potentially harmful to trees grown commercially in Lebowa. Lebowa Forestry Department Staff Workshop, Salique State Forest, Homeland of Lebowa. July 16, 1985.

Lundquist, J.E. Diagnosis of tree diseases in South Africa. South African Department of Forestry Staff Meeting, Pretoria, South Africa. August 6, 1985.

Lundquist, J.E. A review of forest diseases and their distribution in South Africa. Combined Meeting of Forest Branch Professional Officers for Eastern Transvaal, Southern Transvaal and Northern Transvaal Forest Regions, Sabie, South Africa. November 5, 1985.

Lundquist, J.E. Forest diseases potentially important to Swaziland. Usutu Pulp Co. Staff Training Workshop, Mbabane, Swaziland. November 13, 1985.

Foreman, T.C. and J.E. Lundquist. A seedling blight of eucalyptus seedlings caused by *Hainesia lythri*. Twenty third Annual South African Society of Plant Pathology Congress, Alice, Republic of the Ciskei. January 21, 1985. Published Abstract. *Presented by TCF.*

Lundquist, J.E. Impacts of *Mycosphaerella* leaf spot on the growth of *Eucalyptus nitens*. Forest Field Day, Jessievale State Forest, South Africa. November 19, 1986.

Lundquist, J.E. Methods for describing the effect of *Armillaria* root rot on growth of young *Pinus taeda*. American Phytopathological Society Annual Congress, San Diego, California. November 16, 1988. Published Abstract.

Lundquist, J.E. Progress in developing early screening techniques for resistance of ponderosa pine to western gall rust. The Third International IUFRO 'Rusts of Pine' Working Party Conference, Banff, Alberta, Canada. September 18, 1989.

Lundquist, J.E. Description of two vegetative types of western gall rust. The Third International IUFRO 'Rusts of Pine' Working Party Conference, Banff, Alberta, Canada. September 18, 1989.

- undquist, J.E. Forest tree diseases in the Rocky Mountain Region. Forest Pest Management Training Session, Sheridan, Wyoming. June 19-20, 1991.
- Lundquist, J.E. Patch dynamics in pine stands. Annual Congress of the American Phytopathological Society and Mycological Society of America, Portland, August 8-13, 1992. Poster. Published Abstract.
- Lundquist, J.E. Patch dynamics in pine stands infected by *Armillaria* root disease. Forest Pest Management Director's Meeting, Fort Collins, CO. February 11, 1993. Poster.
- Lundquist, J.E. Pest interactions and canopy gaps in ponderosa pine stands. American Phytopathological Society Annual Congress, Nashville, TN. November 9, 1993. Poster. Published Abstract.
- Lundquist, J.E., B.W. Geils and J.P. Ward. Disease-caused canopy gaps and Mexican spotted owls. American Phytopathological Society Annual Congress, Albuquerque, NM. August 9, 1994. Poster. Published Abstract.
- Lundquist, J.E. Profiling impacts of forest disturbances. American Phytopathological Society Annual Congress, Pittsburgh, PA. August 14, 1995. Published Abstract.
- Lundquist, J.E., B.W. Geils, and P.J. Ward, Jr. Impact of forest diseases on small-mammal prey of the Mexican spotted owl. Society of American Foresters Convention, Albuquerque, November 9-13, 1996. Published Abstract.
- Lundquist, J.E. Assessing endemic forest disease conditions. Society of American Foresters Convention, Albuquerque, November 9-13, 1996. Poster. Published Abstract.
- Lundquist, J.E. and R.A. Sommerfeld. Characterizing impact of endemic diseases in forest stands using computer-simulated images. ACSM/ASPRS Annual Convention, Seattle, April 7-10, 1997. Poster. Published Abstract.
- Lundquist, J.E. Direct and indirect impact of *Armillaria* root disease in a natural ponderosa pine community. American Phytopathological Society Annual Meeting, Rochester, August 9-13, 1997. Published Abstract.
- Lundquist, J.E. Effects of forest diseases on spatial heterogeneity of ponderosa pine stands in the wilderness. American Phytopathological Society Annual Meeting, Rochester, August 9-13, 1997. Poster. Published Abstract.
- Lundquist, J.E. A method to assess silvicultural simulations of canopy gap causing forest diseases. American Phytopathological Society Annual Congress, Las Vegas, NV. November 8-12, 1998. Poster. Published Abstract.

Lundquist, J.E. and R.A. Sommerfeld. Using digital image analysis to define canopy structure in ponderosa pine stands infected with Armillaria root disease. American Phytopathological Society Annual Congress, Las Vegas, NV. November 8-12, 1998. Poster. Published Abstract.

Lundquist, J.E. Quantifying interactions of Armillaria root disease with other stresses in ponderosa pine forests. 7th International Congress of Plant Pathology, Edinburgh, Scotland, August 9-16, 1998. Poster. Published Abstract.

Lundquist, J.E. and R.M. Reich. A spatial model for characterizing and predicting the impact of forest diseases on song birds. American Phytopathological Society / Canadian Phytopathological Society Joint Annual Meeting, Montreal, August 6-12, 1999. Poster. Published Abstract.

Joyce, L.A., J.E. Lundquist, J. Negron, W. Massman, R. Musselman, A. Schoettle, W. Shepperd, and K. Zeller. Removing the do not disturb sign: using silviculture to manage vegetation. National Silviculture Workshop, Kalispell, MT. October 4-7, 1999. *Presented by LAJ.*

McDonald, G.I., J.E. Lundquist, N.B. Klopfenstein, and M.-S. Kim. Bringing it all together: using remotely sensed data, local plot data, and GIS models to map ecosystems and their functions. American Phytopathological Society Annual Meeting, Salt Lake City. August 25–29, 2001. Published Abstract. *Presented by GIM.*

Lundquist, J.E. Interpreting the landscape-scale spatial patterns of a dwarf mistletoe epidemic. 8th International Congress of Plant Pathology Meeting. Christchurch, New Zealand. February 2-7, 2003. Poster. Published Abstract.

Blodgett, J.T. and J.E. Lundquist. Forest fires influence the abundance of Armillaria root disease in ponderosa pine. American Phytopathological Society Annual Meeting, Anaheim, CA. July 31 – August 4, 2004. Published Abstract. *Presented by JTB.*

Lundquist, J.E. Observations on why usable disease research sometimes goes unused by field level forest managers. American Phytopathological Society Annual Meeting, Anaheim, CA. July 31 – August 4, 2004. Published Abstract.

Blodgett, J.T. and J.E. Lundquist. Armillaria in Wyoming. American Phytopathological Society Annual Meeting, Austin, TX. July 30 – August 3, 2005. Published Abstract. *Presented by JTB.*

Crump, A., W.R. Jacobi, and J.E. Lundquist. A Survey of technology transfer methods in forest health. Proceedings of the 53rd Annual Western International Forest Disease Work Conference. 2005. *Presented by AC.*

Blodgett, J. T. and J.E. Lundquist. Wood blocks as Armillaria traps in burned ponderosa

pine stands. American Phytopathological Meeting, Quebec City, August 1, 2006. Poster. Published Abstract. *Presented by JTB.*

Bentz, B.J., C.J. Fettig, N. Gillette, E.M. Hansen, J.L. Hayes, R.G. Kelsey, J.E. Lundquist, A.M. Lynch, J.F. Negrón, C. Niwa, R.A. Progar, and S.J. Seybold. 2007 - 2008. Formation of the Western Bark Beetle Research Group – USDA Forest Service Research and Development. 58th Annual Western Forest Insect Work Conference, March 5-9, 2007, Boise; the 56th Annual of the California Forest Pest Council, November 13, 2007, Woodland, CA; The Annual Meeting of the Entomological Society of America, December 11, 2007, San Diego. Poster. *Presented by BJB.* 59th Annual Western Forest Insect Work Conference, April 8-10, 2008. Poster. *Presented by SJS.*

Lundquist, J.E. Forest entomology in Alaska. Pacific Northwest Research Station Science Summit. Hood River, Oregon. October 15, 2008. Poster.

Lundquist, J.E. Birch leaf miners. Cooperative Extension Service Annual Field Rep Training. June 2, 2009.

Lundquist, J.E. Major forest insect pests along a latitudinal transect in Alaska. Society of American Foresters, Orlando, FL. Sept 30 to Oct 4, 2009. Poster. Published Abstract.

Lundquist, J.E. Year to year re-distribution of the amber-marked birch leaf miner in the Anchorage Bowl. South Central Forest Health Working Group, Anchorage, AK. October 21, 2009.

Lundquist, J.E. Insect pests in our forests – what will a changing climate do to them? Alaska Forum on the Environment, Anchorage, AK. February 8-12, 2010. Poster. Published Abstract.

Fettig, C.J., B.J. Bentz, N. Gillette, J.L. Hayes, J.E. Lundquist, A.M. Lynch, J.F. Negrón, R.A. Progar, and S.J. Seybold. The Western Bark Beetle Research Group - basic and application-motivated research that enhances scientific understanding and solves real-world problems. 58th Annual Meeting of the Entomological Society of America, San Diego, CA, December 2010. Poster. *Presented by CJF.*

Lundquist, J.E. Using climate zones and latitudinal transects to predict insect pest distributions across large geographic expanses – Trypodendron ambrosia beetles in Alaska. Classrooms for Climate Symposium, Chugach National Forest and the University of Alaska, Anchorage. May 6, 2011. Published Abstract.

Lundquist, J.E., R.M. Reich, and M. Tuffly. 2011. Spatial distribution dynamics of the invasive birch leaf miners in the Anchorage landscape. 2011 Alaska Invasive Species Conference, Anchorage, AK. 19-21 October 2011. Poster + Abstract. FY2012

Lundquist, J., K. Zogas, M. Rasy, J. Chumley, and N. Lojewski. 2011. What's eating my

trees and berries? Geometrid moths in South Central Alaska. 2011 Alaska Park Science Symposium, Anchorage, AK. 2-4, November 2011. Poster + Abstract. FY2012

Lundquist, J.E. 2011. Assessing pest impacts under a changing climate. The 59th Annual Meeting of the Entomological Society of America, Nov 13-16, 2011, Reno, NV.

Lundquist, J.E. and R.M. Reich. 2010. Improving Predictions of Forest Insect Distributions in Remote Alaska. 2010 Society of American Foresters Annual Convention, Albuquerque, NM. 25 – 29 October 2010. Poster + Abstract.

Fettig, C.J., B.J. Bentz, N. Gillette, J.L. Hayes, J.E. Lundquist, A.M. Lynch, J.F. Negrón, R.A. Progar, and S.J. Seybold. 2010. The Western Bark Beetle Research Group - basic and application-motivated research that enhances scientific understanding and solves real-world problems. 58th Annual Meeting of the Entomological Society of America, San Diego, CA, 12-15 December 2010. Poster + Abstract. Presented by CJF.

Lundquist, J.E. 2011. Using climate zones and latitudinal transects to predict insect pest distributions across large geographic expanses – Trypodendron ambrosia beetles in Alaska. Classrooms for Climate Symposium, Chugach National Forest and the University of Alaska, Anchorage. 6 May 2011. Oral presentation + Abstract.

Lundquist, J.E. 2011. Insect Pests of Forests in Alaska. Chugachmiut Training Program, Soldotna, AK. 7 September 2011. Oral Presentation.

6. Participation in technical conferences and workshops.

Chair of Seminar Committee, Plant Quarantine Station, Stellenbosch, South Africa. 1984.

Member of D.R. de Wet Forestry Research Centre Seminar Organizing Committee. Member of a team that organized 5 biannual national seminars. 1986 - 1988.

Co-chair of Forest Pathology Session, American Phytopathological Society Annual Congress, Albuquerque, NM. August 9, 1994.

Chair of symposium titled “Landscape Disturbance Measures and Indices: Planning Applications Workshop Session”, Annual Western Forest Insect Work Conference, Rapid City, SD. April 25, 1995.

Moderator, Epidemiology Oral Session, American Phytopathological Society Convention, Montreal. August 6-12, 1999.

Co-organizer of symposium “From molecules to ecosystems; bridging scales in forest pathology.” American Phytopathological Society Convention, Montreal. August 6-12, 1999.

Section Chair for Epidemiology, Ecology and Environmental Biology Section for the American Phytopathological Society Convention, Montreal, August 6-12, 1999.

Member, Meetings Board, American Phytopathological Society. 2000 to present.

Section Chair, Epidemiology, Ecology and Environmental Biology Section, American Phytopathological Society Annual Convention, New Orleans. 2000

Co-moderator of symposium titled “Forest Pathology for the Last Century: A Retrospective and Directions for the Future”, American Phytopathological Society Convention, New Orleans. 2000.

Moderator, Epidemiology Oral Session, American Phytopathological Society Convention, New Orleans. 2000.

Co-organizer and moderator of Emerging Forest Health Issues Colloquia, Annual Meeting of Society of American Foresters, Washington D.C. 2000.

Section Chair, Epidemiology, Ecology and Environmental Biology Section, American Phytopathological Society Annual Convention, Salt Lake City. 2001.

Symposium co-organizer. Landscape Pathology – Toward understanding ecological interactions of forest dwelling microbes at the landscape. American Phytopathological Society Annual Convention, Salt Lake City. 2001.

Track chair, symposium organizer, and moderator: New paradigms for communicating science. Monitoring Science and Technology Symposium sponsored by the Consortium for Advancing Monitoring of Ecosystem Sustainability in the Americas (CAMESA), Denver, CO. September 21-24, 2004

Symposium organizer and moderator. Oak Wilt symposium, Society of American Foresters Annual Convention, Fort Worth, TX. 2005.

Lundquist, J.E. Track co-Chair: “Healthy Forests” track. Annual Meeting of the Society of American Foresters, Portland, OR. Oct. 23-27, 2007.

Lundquist, J.E. Track co-Chair: “Healthy Forests” track. Annual Meeting of the Society of American Foresters, Reno NV. Nov. 5-9, 2008.

Lundquist, J.E (moderator). Forest insects and climate change. Plenary Session, Western Forest Insect Work Conference, Spokane. March 26, 2009.

Lundquist, J.E (moderator). 2009. Beyond the science of climate change – where do we go from here? Panel Discussion. Western Forest Insect Work Conference, Spokane. March 26, 2009.

Lundquist, J.E and E. Smith (organizers and moderators). 2010. Monitoring the effects of climate change on forests. Focus Group Session, Annual Forest Health Monitoring Meeting, Albuquerque. January 27, 2010.

7. Publications

Lundquist, J.E. 1979. The early symptoms of fusiform rust. Ph.D. Dissertation, University of Georgia, Athens, Georgia. 115 p.

Lundquist, J.E., T. Miller and H.R. Powers, Jr. 1982. A rapid technique for determining resistance of slash pine to fusiform rust. *Phytopathology* 72: 613-615.

Lundquist, J.E. and T. Miller. 1984. Development of stem lesions on slash pine seedlings infected by *Cronartium quercuum* f. sp. *fusiforme*. *Phytopathology* 74: 514-518.

Donald, D.G.M. and J.E. Lundquist. 1984. Treatment of Eucalyptus seed to maximize germination. *Seed Science and Technology* 12: 817-828.

Lundquist, J.E. 1984. The occurrence and distribution of Rhizina root rot in South Africa and Swaziland. *South African Forestry Journal* 131: 22-24.

Lundquist, J.E. 1984. First report of terminal crook disease, caused by *Colletotrichum acutatum*, on *Pinus radiata* seedlings in South Africa. *Plant Disease* 68: 732.

Lundquist, J.E. 1984. Needle spotting of pines. *Forestry News* 2/84: 14-15.

Roux, C. and J.E. Lundquist. 1984. Needle disease found on pines in South Africa caused by *Lophodermium australe*, *L. seditiosum* and *L. indianum*. *Plant Disease* 68: 628.

Lundquist, J.E. and C. Roux. 1984. Dothistroma needle blight of *Pinus patula*, *P. radiata* and *P. canariensis* in South Africa. *Plant Disease* 68: 918.

Lundquist, J.E. 1985. Pine disease symptoms. Pests and diseases of South African forests and timber. Government Press, Pretoria. Pamphlet # 273: 11p.

Lundquist, J.E. and A.P. Baxter. 1985. Fungi associated with Eucalyptus in South Africa. *South African Forestry Journal* 135: 9-19.

Lundquist, J.E. 1985. Fungi in forest plantations. *Forestry News* 4/85: 14-15.

Lundquist, J.E. 1986. Fungi associated with Pinus in South Africa. Part I. The Transvaal. *South African Forestry Journal* 138: 1-14.

Lundquist, J.E., J.K. Winstanley and D.G.M. Donald. 1986. Diagnosis of pine disorders in South

Africa. Pests and diseases of South African forests and timber. Government Press, Pretoria. Pamphlet # 273. 10 p.

Lundquist, J.E. and T.C. Foreman. 1986. A leaf blight of Eucalyptus seedlings in South African nurseries caused by *Hainesia lythri*. South African Forestry Journal 136: 22-25.

Purnell, R.C. and J.E. Lundquist. 1986. Provenance variation of *Eucalyptus nitens* on the eastern Transvaal highveld in South Africa. South African Forestry Journal 138: 23-31.

Lundquist, J.E. and P.J. Germishuizen. 1986. Fungus causes Rhizina root disease. Forestry News 4/86: 13-14.

Lundquist, J.E. 1987. Fungi associated with Pinus in South Africa. Part III. Natal, Orange Free State and the Republic of Transkei. South African Forestry Journal 143: 11-19.

Lundquist, J.E. and R.C. Purnell. 1987. Effect of *Mycosphaerella* leaf spot on growth of *Eucalyptus nitens*. Plant Disease 71: 1025-1029.

Lundquist, J.E. 1987. A history of five forest diseases in South Africa. South African Forestry Journal 140: 51-59.

Lundquist, J.E. 1987. Fungi associated with Pinus in South Africa. Part II. The Cape Province. South African Forestry Journal 140: 4-15.

Walla, J.A., J.E. Lundquist, G.A. Tuskan and T.P. Freeman. 1991. Observations on the spermatogonial stage of the western gall rust. Proceedings International "Rusts of Pine" Working Party Conference. Sept. 18-27, 1989. Banff, Canada. pp 54-62.

Tuskan, G.A., J.A. Walla, J.E. Lundquist, C.G. Wang and P. McClean. 1991. The use of molecular markers in studying ponderosa pine - *Peridermium harknessii* interactions. Proceedings International "Rusts of Pine" Working Party Conference. Sept. 18-27, 1989. Banff, Canada. pp 178-187

Tuskan, G.A., J.A. Walla, and J.E. Lundquist. 1991. Genetic-geographic variation in *Peridermium harknessii* in the north-central United States. Phytopathology 80:857-861.

Lundquist, J.E., G.A. Tuskan, and J.A. Walla. 1991. Progress in developing early screening techniques for resistance of ponderosa pine to western gall rust. Proceedings International "Rusts of Pine" Working Party Conference. Sept. 18-27, 1989. Banff, Canada. pp 274-280.

Walla, J.A., G.A. Tuskan and J.E. Lundquist. 1991. Comparison of white- and orange-spored *Peridermium harknessii* in native North Dakota *Pinus ponderosa*. Mycologia 83: 251-256.

Lundquist, J.E., J.A. Walla, and G.A. Tuskan. 1991. Description of two vegetative types of western gall rust. Proceedings International "Rusts of Pine" Working Party Conference. Sept. 18-27, 1989. Banff, Canada. pp 63-68.

Lundquist, J.E., B.W. Geils, and D.W. Johnson. 1992. First report of white pine blister rust in limber pine in South Dakota. *Plant Disease* 76:538.

Lundquist, J.E. 1993. Large scale patterns of conifer diseases in the Bighorn Mountains, Wyoming. USDA Forest Service Research Note RM-# 523. 8 p.

Lundquist, J.E. 1993. Monitoring Rhizina root disease: A case study. *South African Forestry Journal* 153:51-53.

Lundquist, J.E., 1993. Distribution and cause of canopy gaps in white spruce stands in the Black Hills. USDA Forest Service Research Note RM-# 520. 3p.

Lundquist, J.E. 1993. Spatial and temporal characteristics of canopy gaps caused by *Armillaria* root disease and their management implications in lowveld forests of South Africa. *European Journal of Forest Pathology* 23:362-371.

Lundquist, J.E., J.A. Walla and G.A. Tuskan. 1993. Characteristics of *Peridermium harknessii* in axenic culture. *Canadian Journal of Forest Research* 24:1345-1353.

Lundquist, J.E., C.G. Shaw III, and C. Chen. 1993. Dynamics of root diseases on artificial landscapes. pp. 751-761. In: M. Johannsson and J. Stenlid (eds.), *Proceedings of the eighth international conference on root and butt rots*, 1993 August 9-16, Wik, Sweden and Haikko, Finland.

Geils, B.W. and J.E. Lundquist. 1993. Plagues and pestilence across the landscape. *Proceedings Integrated Ecological and Resource Inventories Workshop*, April 12-16, 1993, Phoenix, AZ. p. 124.

Eckberg, T.B, J. Schmid, S. Mata, and J.E. Lundquist. 1994. Focus trees for the mountain pine beetle in the Black Hills. USDA Forest Service Research Note RM-RN-531. 10 p.

Lundquist, J.E. and J.P. Ward, Jr. 1995. Describing the conditions of forest ecosystems using disturbance profiles. pp. 128-135. In: L.G. Eskew. comp. 1995. *Forest health through silviculture. Proceedings of the 1995 National Silviculture Workshop*; 1995 May 8-11; Mescalero, New Mexico. Gen. Tech. Rep. RM-GTR-267. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station.

Lundquist, J.E., B.W. Geils, and J. Negron. 1995. Integrated applications for understanding the effects of small-scale disturbances in forest ecosystems. *Proceedings of the Landscape Analysis Workshop II: Applications of GIS for Spatial Analysis to Support Land Management Planning*, Fort Collins, CO. April 16, 1993.

Geils, B.W., J.E. Lundquist, J.F. Negron, and J.S. Beatty. 1995. Disturbance regimes and their relationships to forest health. pp. 67-73. In: L.G. Eskew. comp. 1995. *Forest health through silviculture. Proceedings of the 1995 National Silviculture Workshop*; 1995 May 8-11;

Mescalero, New Mexico. Gen. Tech. Rep. RM-GTR-267. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station.

Beatty, J.S., J.E. Lundquist, and B.W. Geils. 1995. Disturbance and canopy gaps as indicators of forest health in the Blue Mountains of Oregon. pp. 74-78. In: L.G. Eskew. comp. 1995. Forest health through silviculture. Proceedings of the 1995 National Silviculture Workshop; 1995 May 8-11; Mescalero, New Mexico. Gen. Tech. Rep. RM-GTR-267. Fort Collins, CO: USDA Forest Service, Rocky Mountain Forest and Range Experiment Station.

Lundquist, J.E. 1995. Characterizing disturbance in managed ponderosa pine stands in the Black Hills. *Forest Ecology and Management* 74:61-74.

Lundquist, J.E. 1995. Measuring forest health - disturbance profiles. *Analysis Notes* 5:6-8.

Lundquist, J.E. 1995. Developing disturbance profiles. Proceedings of the 43rd Annual Western International Forest Disease Work Conference, Whitefish, Montana, August 29 - September 1, 1995. pp 121-132.

Lundquist, J.E. 1995. Pest interactions and canopy gaps in ponderosa pine in the Black Hills, South Dakota, USA. *Forest Ecology and Management* 74:37-48.

Lundquist, J.E. 1995. Disturbance profile - a measure of small-scale disturbance patterns in ponderosa pine stands. *Forest Ecology and Management* 74:49-59.

Lundquist, J.E. 1996. Assessing endemic forest disease conditions. Proceedings of the 1996 Society of American Foresters Convention, Albuquerque, pp. 484-485.

Lundquist, J.E., B.W. Geils, and P.J. Ward, Jr. 1996. Impact of forest diseases on small-mammal prey of the Mexican spotted owl. Proceedings of the 1996 Society of American Foresters Convention. pp. 482-483.

Geils, B.W., J.E. Lundquist, and J.P. Ward, Jr. 1996. Application of hierarchy theory and disturbance profiles for assessing impact of forest insects and pathogens on wildlife and its habitat. pp. 81-87. In: Proceedings of the Forty-Fourth Western International Forest Disease Work Conference; 1996 September 16-20; Hood River, OR.

Lundquist, J.E., and R.A. Sommerfeld. 1997. Characterizing impact of endemic diseases in forest stands using computer-simulated images. Proceedings of the 1997 ACSM/ASPRS Annual Convention & Exposition, Seattle, WA, 7-10 April 1997. Volume 4: 760.

Walla, J.A., G.A. Tuskan, J.E. Lundquist, and C. Wang. 1997. Expression of inoculum and family specific responses in the ponderosa pine - western gall rust pathosystem. *Plant Disease* 81(1): 57-62.

Sommerfeld, R.A., J.E. Lundquist, and J. Smith. 1998. Characterizing the canopy structure of a disturbed forest using the fourier transform. Proceedings of the First International Conference on

Geospatial Information in Agriculture, Lake Buena Vista, FL, 1-3 June 1998. Vol I: 457-464.

Lundquist, J.E. and J.S. Beatty. 1999. A conceptual model for defining and assessing condition of forest stands. *Environmental Management* 23 (4): 519-525.

Lundquist, J.E., and J.F. Negron. 2000. Endemic forest disturbances and stand structure of ponderosa pine in the Upper Pine Creek Research Natural Area, South Dakota. *Natural Areas Journal* 20 (2): 126-132.

Reich, R.M., J.E. Lundquist, and V.A. Bravo. 2000. Spatial relationship of song birds and canopy openings in diseased ponderosa pine forests. *Environmental Modeling and Software* 15: 189-197.

Sommerfeld, R.A., J.E. Lundquist, and J. Smith. 2000. Characterizing the canopy gap structure of a disturbed forest using Fourier transform. *Forest Ecology and Management* 128: 101-108. (

Lundquist, J.E. and L. Lindner. 2000. Test of a model to assess the condition of lodgepole pine stands. *Environmental Management* 26:421-426.

Lundquist, J.E. 2000. Estimation of direct and indirect effects of *Armillaria* root disease in unharvested ponderosa pine stands. *Forest Science* 46:356-362.

Lundquist, J.E. and N.B. Klopfenstein. 2000. Integrating concepts of landscape ecology with the molecular biology of forest diseases. *Forest Ecology and Management* 150 (3): 213-222.

Klopfenstein, N.B., G.I. McDonald, Mee-Sook Kim, S.J. Brunfeld, B.A. Richardson, and J.E. Lundquist. 2001. Molecular genetic approaches to risk assessment in forest ecosystems. *Proceedings of Society of American Foresters, 2000, Washington D.C. Proceedings of the Society of American Foresters.* pp 108-121.

Lundquist, J.E., L. Lindner, and J. Popp. 2001. Using landscape metrics to measure suitability of a forested watershed: a case study for old growth. *Canadian Journal of Forest Research* 31: 1786-1792.

Lundquist, J.E. and R.A. Somerfeld. 2002. Use of Fourier Transforms to define landscape scales of analysis for disturbances: a case study of thinned and unthinned forest stands. *Landscape Ecology* 17: 445-454.

Lundquist, J.E., E.M Goheen, and D.J. Goheen. 2002. Measuring positive, negative, and null impacts of forest disturbances: a case study using dwarf mistletoe on Douglas fir. *Environmental Management* 30: 793-800.

Kallas, M.A., R.M. Reich, W.R. Jacobi, and J.E. Lundquist. 2002. Modeling the probability of observing *Armillaria* root disease in the Black Hills. *Forest Pathology* 33: 241-252.

Lundquist, J.E. and J.S. Beatty. 2002. A method for characterizing and mimicking forest

canopy gaps caused by different disturbances. *Forest Science* 48 (3):582-594.

Lundquist, J.E. 2003. How, thanks to a decision support system called profiling a manager saved his forest but lost his job. *Journal of Forestry* (Sept): 44-49.

Reich, R.M., J.E. Lundquist, and V.A. Bravo. 2004. Spatial models for estimating fuel loads in the Black Hills, South Dakota. *International Journal of Wildland Fire* 13: 119-129.

Lundquist, J.E. 2005. Patterns in diseased landscapes: a case study of a lodgepole pine forest infected by dwarf mistletoe. pp. 145-153. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175 p.

Lundquist, J.E. 2005. Forest pathology in the era of landscape ecology. pp. 155-165. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175 p.

Lundquist, J.E. and J.P. Ward, Jr. 2005. Impacts of diseases and other disturbances on non-timber forest resources: a case study involving small mammals. pp. 105-112. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175 p.

Lundquist, J.E. and R.C. Hamelin. 2005. Introduction. pp. iii-iv. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175p.

Lundquist, J.E. and R.C. Hamelin. 2005. Conclusion. pp. 167-168. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175p.

Reich, R.M. and J.E. Lundquist. 2005. Use of spatial statistics in assessing forest diseases. pp, 127-143. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175 p.

Stubblefield (Holte), C.H., J.E. Lundquist, and B. van der Kamp. 2005. Forest disease impacts on wildlife: beneficial? pp 95-103. In: J.E. Lundquist and R.C. Hamelin, eds. *Forest Pathology -- From Genes to Landscapes*. APS Press, St. Paul. 175 p.

Lundquist, J.E. and C. Snyder. 2006. Carpenter ants in Alaska: Insect pests of wood products. USDA Forest Service, Forest Health Protection pamphlet R10-TP-139. 4 p.

Lundquist, J.E. and R.M. Reich. 2006. Tree diseases, canopy structure, and bird distributions in ponderosa pine forests. *Journal of Sustainable Forestry* 23 (2): 17-45.

Popp, J. B. and Lundquist, J. E. 2006. Pathology collection of the Rocky Mountain

Research Station Gen. Tech. Rep. RMRS-GTR-167WWW. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 183 p.

Popp, J.B. and Lundquist, J.E. 2006. Photo series for quantifying forest residues in managed lands of the Medicine Bow National Forest. Gen. Tech. Rep. RMRS-GTR-172. Fort Collins, CO: United States Department of Agriculture, Forest Service, Rocky Mountain Research Station. 105 p.

Hunter, M.E., W.D. Shepperd, L.B. Little, J.E. Lundquist, M.G. Andreu J.L. Butler, F.W. Smith. 2007. A comprehensive guide to the fuels treatment practices for ponderosa pine in the Black Hills, Colorado Range, and Southwest. Gen. Tech. Rep. RMRS-RM25-GTP-198. Fort Collins, CO: USDA Forest Service, Rocky Mountain Research Station. 93 p.

Lundquist, J.E. 2007. The relative influence of diseases and other small-scale disturbances on fuel loading in the Black Hills. *Plant Disease* 91:147-152.

Bentz, B. J., C.J. Fettig, E.M. Hansen, J.L. Hayes, J. Hicke, R. Kelsey, R., J.E. Lundquist, J.F. Negrón, R. Progar, J. Régnière, S.J. Seybold, S. J., and Vandygriff, J. 2008. Climate Change and Western Bark Beetles: Rapid Threat Assessment, Report to the Western Wildlands Environmental Threat Assessment Center, August 2008, 79 pp.
<http://www.fs.fed.us/wwetac/projects/bentz.html>

Blodgett, J. T., and Lundquist, J. E. 2008. Forest fires and the spread of *Armillaria ostoyae* in a ponderosa pine forest. In: McWilliams, M. and Palacios, P. (compilers). Proceedings of the 55th Western International Forest Disease Work Conference. October 2007. Sedona, Arizona. p. 89.

Lundquist, J.E., K.P. Zogas, C.L. Snyder, and B.K. Schulz. 2008. Alaska biological control program directed at amber-marked birch leaf miner. *Western Forester* 53

Negrón, J. F., Bentz, B. J., Fettig, C. J., Gillette, N. G., Hansen, E. M., Hayes, J. L., Kelsey, R., Lundquist, J. E., Lynch, A. L., Progar, R., and Seybold, S. J. 2008. USDA Forest Service bark beetle research in the western United States: Looking into the future. *Journal of Forestry* 106:325–331.

Hayes, J. L. and Lundquist, J. E. (compilers). 2009. The Western Bark Beetle Research Group: A Unique Collaboration with Forest Health Protection. Proceedings from the Symposium from the Society of American Foresters. Gen. Tech. Rep. PNW-784. Covalis, OR: USDA Forest Service, Pacific Northwest Research Station. 134 pp.

Klopfenstein, N.B., J.E. Lundquist, J.W. Hanna, M.-S. Kim, and G.I. McDonald. 2009. First report of *Armillaria sinapina*, a cause of *Armillaria* root disease, associated with diverse forest tree hosts on sites with diverse climate in Alaska. *Plant Disease* 93 (1): 111.

Klopfenstein, N.B.; Kim, M.-S.; Hanna, J.W.; Richardson, B.A.; Lundquist, J.E. 2009a. Approaches to predicting potential impacts of climate change on forest disease: An example with *Armillaria* root disease. Res. Pap. RMRS-RP-76. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 10 p.

Lundquist, J.E. and B. Bentz. 2009. Bark beetles in a changing climate. pp. 39-49. In: J. Hayes and J.E. Lundquist. comp. 2009. The Western Bark Beetle Research Group: A Unique Collaboration with Forest Health Protection. Gen. Tech. Rep. PNW-784. Corvallis, OR: USDA Forest Service, Pacific Northwest Research Station. 134 p.

Progar, R.A., A. Eglitis, and J.E. Lundquist. 2009. Ecological, economic, and social consequences of bark beetle outbreaks. pp. 71-83. In: J. Hayes and J.E. Lundquist. comp. 2009. The Western Bark Beetle Research Group: A Unique Collaboration with Forest Health Protection. Gen. Tech. Rep. PNW-784. Corvallis, OR: USDA Forest Service, Pacific Northwest Research Station. 134 p.

Hard, J.S. and K.P. Zogas. 2010. Abundant old lower stem bark lesions apparently caused by unsuccessful spruce beetle attacks still evident on live spruce trees years later. *Northwest Science* 84 (1): 192-195.

Klopfenstein, N.B., J. Juzwik, M.E. Ostry, M.-S. Kim, P.J. Zambino, R.C. Venette, B.A. Richardson, J.E. Lundquist, D.J. Lodge, J.A. Glaeser, S.J. Frankel, W.J. Otrosina, P. Spaine, B.W. Geils. 2010. Invasive forest pathogens: summary of issues, critical needs, and future goals for Forest Service Research and Development. pp. 23-33. In: Mary Ellen Dix and Kerry Britton, eds. 2010. A dynamic invasive species research vision: opportunities and priorities 2009-29. Gen. Tech. Rep. WO-79. Washington D.C: USDA Forest Service.. 130 p.

Jacobi, W.J., A. Crump, and J.E. Lundquist. 2011. Dissemination of forest health research information in the Rocky Mountains. *Journal of Forestry* Jan/Feb: 43-49.

Lundquist, J.E. and M. Schultz. 2011. Insect of coastal forest Alaska. pp. 62-66. In: Barrett, Tara M.; Christensen, Glenn A., tech. eds. Forests of Southeast and South-central Alaska, 2004-2008. Five-year forest inventory and analysis report. Gen. Tech. Rep. PNW-GTR-835. Portland, OR: USDA Forest Service, Pacific Northwest Research Station.

Lundquist, J.E. A.E. Camp, M.L. Tyrrell, S.J. Seybold, P. Cannon, and D.J. Lodge. 2011. Chapter 7 -- Earth, wind, and fire: Abiotic factors and the impacts of global environmental change on forest health. pp. 195-243. In: J.D. Castello and S.A. Teale, eds. 2011. Forest Health: An Integrated Perspective. Cambridge Press. 404 p.

Lundquist, J.E. and R.M. Reich. 2011. Predicting the landscape spatial distribution of fuel-generating insects, diseases, and other types of disturbances. *Journal of Sustainable Forestry*

30: 370-391.

Rasy, M, J. Chumley, N. Lojewski, and J. Lundquist. 2011. Geometrid moth defoliation and activity on the Kenai Peninsula and South Central Alaska. University of Alaska Fairbanks Cooperative Extension Service Handout. 2 p.

Rasy, M, J. Chumley, N. Lojewski, and J. Lundquist. 2011. Geometrid moth defoliation and activity on the Kenai Peninsula and South Central Alaska -- Update: July 2011. University of Alaska Fairbanks Cooperative Extension Service Handout. 3 p.

Rasy, M, J. Chumley, N. Lojewski, and J. Lundquist. 2011. Geometrid moth defoliation and plant refoiation on the Kenai and South Central Alaska – Update: October 2011. University of Alaska Fairbanks Cooperative Extension Service Handout. 2 p.

Klopfenstein, N.B., Kim, M.-S., Hanna, J.W., Richardson, B.A., and Lundquist, J.W. 2011. Approaches to predicting potential impacts of climate change on forest disease: An example with *Armillaria* root disease. pp. 101-117 in: Chavarrigga H., D.M., ed. Protección Fitosanitaria Forestal, ICA-Comunicaciones, Colombia [with Spanish abstract]

Lundquist, J.E., R.M. Reich, and M. Tuffly. 201X. Changing distribution of amber-marked birch leaf miner across the Anchorage landscape. *Journal of Economic Entomology* (in press)

8. **Scientific and technical reports.**

Lundquist, J.E. 1991. Tree disease survey of the Black Hills - 1990. Technical Report #R2-51. Forest Pest Management, Lakewood, CO. 19 p.

Lundquist, J.E. 1991. Fungi associated with pines in the Black Hills. Technical Report #R2-50. Forest Pest Management, Lakewood, CO. 17 p.

Lundquist, J.E. 1991. Distribution of *Armillaria* root disease in the Black Hills. Technical Report #R2-49. Forest Pest Management, Lakewood, CO. 11 p.

Lundquist, J.E. and E.K. Lister. 1991. Forest pest conditions in the Rocky Mountain Region 1990. Renewable Resources, Forest Pest Management, Rocky Mountain Region, USDA Forest Service, Lakewood, CO. 27 p.

Lundquist, J.E. 1992. An evaluation of a disorder of Black Walnut seedlings associated with cold storage at Bessey Nursery. US Forest Service Biological Evaluation #R2-92-03. Forest Pest Management, Lakewood, CO. 4p.

Lundquist, J.E. 1992. Pest conditions and potential hazard trees in campgrounds along the North Fork Shoshone River corridor, Wapiti District, Shoshone National Forest. USDA Forest Service Biological Evaluation #R2-92-02. Forest Pest Management, Lakewood, CO. 33 p.

Blodgett, J.T. and J.E. Lundquist. 2004. Forest fires influence the abundance of *Armillaria* root disease in ponderosa pine. *Phytopathology* 94:S8. Abstract.

Lundquist, J.E. 2006. Leaf Miners – tiny sculptures in Kenai Peninsula forests. *Peninsula Clarion*, September 1. p. C-1.

Lundquist, J.E. 2006. The landscape legacy of dwarf mistletoe in lodgepole pine forests in Wyoming. *Phytopathology* 96:S145 Abstract.

Lundquist, J.E. 2006. Why communicating fire science between researchers and managers sometimes breaks down. Rocky Mountain Research Station. Unpublished White Paper. (*Exhibit #6*)

Blodgett, J.F. and J.E. Lundquist. 2007. Distribution, species, ecology of *Armillaria* fungi in Wyoming. Proceedings of the Forest Health Monitoring Working Group Meeting, January 29 to February 1, 2007. San Diego, CA. Abstract.

Lundquist, J.E. 2007. Black-headed budworm in south central Alaska. R-10 FHP Pest Alert. 3 p. <http://www.pwsoundkeeper.org/blackheadworm>.

Klopfenstein, N.B., J. Juzwik, M.E. Ostry, M.-S. Kim, P.J. Zambino, R.C. Venette, B.A. Richardson, J.E. Lundquist, D. J. Lodge, J.A. Gaeser, S.J. Frankel, W.J. Otrosina, P. Spaine, and B.W. Geils. 2007. Invasive forest pathogens: Current and future roles of Forest Service Research and Development. Unpublished White Paper.

Bentz, B. J., Fettig, C. J., Gillette, N., Hansen, E. M., Hayes, J. L., Kelsey, R. G., Lundquist, J. E., Lynch, A. M., Negrón, J. F., Niwa, C., Progar, R. A., and Seybold, S. J. 2008. USDA Forest Service Research and Development Western Bark Beetle Research Group, Briefing Paper, 2 pp.

Blodgett J. T. and Lundquist, J. E. 2008. Aspen forest health survey in Wyoming. In: Rogers, P.C. comp./ed., Summary and Abstracts from the Sudden Aspen Decline Meeting. February 2008. Fort Collins, Colorado. p. 9.

Holsten, E., P.E. Hennon, L. Trummer, J.J. Kruse, M. Schultz, and J.E. Lundquist. 2009. Insects and diseases of Alaska forests. USDA Forest Service, Alaska Region Publication R10-TP-140: 246 p.

Lundquist, J.E. 2009. The Influence of climate on spruce beetle in Alaska – A White Paper. Region 10 Forest Health Protection, Anchorage. 34 p. Unpublished White Paper.

Lundquist, J.E. 2009. Forest pest insects along a latitudinal transect in Alaska. Proceedings of the Annual Convention of the Society of American Foresters, Orlando. 30 September to 4

October, 2009. Abstract.

Lundquist, J.E., K. Zogas, and J.S. Hard. 2011. Timetable of forest entomology history in Alaska. Region 10 Forest Health Protection Technical Report. Unpublished White paper.

Rasy, M. and J. Lundquist. 2011. Geometrid moth information and control. Integrated Pest Management Issues, UAF Cooperative Extension Service unnumbered Pamphlet. 2 p.