

PAUL R. ADAMUS

Wetland Scientist and Wildlife Biologist

6028 NW Burgundy Drive

Corvallis, OR 97330

office phone: (541) 745-7092 cell: (541) 231-3095

email: adamus7@comcast.net

Summary

Known nationally for expertise in wetland assessment, Dr. Adamus has taught wetland assessment to dozens of consultants, local planners, college students, and agency staff in 3 continents and many states. He has authored or co-authored nearly 100 publications, including an encyclopedia section on wetlands. He began his career at The Smithsonian's Center for Natural Areas, 1977-1982. There, he did pioneering work in wetlands function assessment, authoring a method (WET) used widely by federal agencies in the decade that followed. He also published one of the first scientific journal articles to propose criteria for using species as a basis to identify critical natural areas. He was invited twice to testify on wetland assessment to the U.S. Congress. In 1985 the City-Borough of Juneau, Alaska, awarded Dr. Adamus a sole-source contract to assess all their wetlands and explain wetland functions to citizens in a series of community meetings. In 1987 he accepted a research position at the US EPA's National Wetlands Research Program in Corvallis, Oregon. He left 10 years later, taking a research faculty position at Oregon State University and simultaneously re-establishing his practice as a scientific consultant to non-profit groups and government agencies. For the Bureau of Land Management, he developed statistical designs for detecting trends in wetland condition on BLM lands throughout the US. From 1997-2000, the Oregon Division of State Lands contracted him to develop an assessment method for western Oregon, as well as a classification for all Oregon wetlands. By law, permit applicants are now required to use key parts of that method, which is founded on botanical and hydrogeomorphic data Dr. Adamus and volunteers collected from 109 reference wetlands. He recently conducted a similar data collection from 120 tidal wetlands, resulting in an assessment method and guidebook for tidal wetlands of the Oregon Coast.

A lifelong birder, Dr. Adamus coordinated the Oregon Breeding Bird Atlas Project from 1995 to 1999. Published in 2001, the Atlas resulted from the largest statewide survey of wildlife ever conducted in Oregon, and necessitated recruiting and coordinating over 800 volunteers. He also contributed to the Alternative Futures Analysis for the Willamette Valley (sponsored by the interagency Environmental Research Consortium, ERC), developing and documenting spatially-explicit models for each of western Oregon's 279 vertebrate species, and using the models with GIS to simulate changes in fine-scale species distributions in the region under various scenarios of future land cover change. Currently, he is serving on a federal panel of scientists commissioned by the National Park Service to review rapid ecological assessment methods nationwide, as well as a panel reviewing recommendations for modifying water quality criteria to better address conditions unique to the Arid West, and a committee charged with guiding the development of a statewide method for assessing Oregon's wetlands.

Education

- Ph.D. Wildlife Science, Oregon State University, Corvallis
 M.S. Biology (Aquatic), University of Utah, Salt Lake City
 B.S. Wildlife Science, University of Maine, Orono

Accomplishments

Oregon State University, Corvallis, Oregon

College of Oceanographic and Atmospheric Sciences, Courtesy Faculty, 2002-present

Department of Fisheries & Wildlife, Faculty Research Assistant, 1997-2001

- Teach 1-2 short-courses per year on assessing wetland systems (through Portland State University).
- Under a National Park Service agreement, am designing, directing, and helping conduct a survey of wetlands and their ecological condition in two National Parks in the western United States.
- Under an EPA grant, I provided assistance at a national scale to state wetland programs, including guidance on sampling wetlands and developing criteria to protect wetland biological communities
- Wrote report for EPA on biological assessment of wetlands, based on review of >1500 articles from the scientific literature. Much of this was subsequently adopted by Washington Dept. of Ecology in their “best available science” report to the Washington Legislature.
- Prepared 2 national databases cataloging the sensitivity of wetland plant and invertebrate species to excessive nutrients and hydrologic alteration of wetlands. Also prepared guidance for use of birds in monitoring of wetland ecological condition. These products are on EPA’s web page.
- Under another EPA grant, I collaborated with other faculty and 2 local watershed councils (Long Tom and South Santiam) in a 3-year analysis of priorities for ecosystem restoration in part of the Willamette Valley.

Adamus Resource Assessment, Inc., Corvallis, Oregon (Principal), 1997-present

- Design, direct, and participate in field studies and report preparation almost exclusively for non-profit groups and government agencies (only minor private-sector work).
- Am serving as chief wildlife consultant on national panel tasked with reviewing and recommending rapid procedures for inventory and assessment of biodiversity in our National Parks.
- Directed and helped conduct a coastwide analysis of functions of tidal wetlands, using GIS and field data, in order to establish reference sites, performance standards, and monitoring procedures for restored tidelands. Project was funded by USEPA grant to Oregon Department of State Lands and Coos Watershed Association.
- Prepared a synthesis of data and information on Willamette Basin wildlife for the Willamette Restoration Initiative and Northwest Power Conservation Council’s subbasin planning effort. This effort involved designing and overseeing the application of GIS models for all 280+ terrestrial vertebrate species, in order to identify species and habitat priorities for restoration and protective acquisition within each of the Basin’s 170 watersheds.
- Prepared an analysis of wetland restoration and enhancement potentials of individual Metro properties throughout the greater Portland area, for Metro Parks and Greenspaces.
- Contributed to an assessment of wetland restoration and conservation potential in the Scappoose Bottomlands, and currently am doing a similar analysis for Youngs Bay on the Lower Columbia.

- Completed an assessment of the current status of Western Pond Turtle in the Willamette Valley, based on existing data, a targeted bulk mailing to landowners, and extensive surveys I conducted.
- Completed an assessment of significant natural features for the City of Corvallis and a watershed assessment for the Luckiamute Watershed Council.
- With funding from National Science Foundation, helped organize conference on Urban Wetlands, May 2002, Portland, Oregon.
- On contract to Oregon Department of State Lands, prepared the framework for classifying and assessing the function and condition of riparian and wetland areas throughout Oregon, using hydrogeomorphic (HGM) principles. Designed and conducted field data collection from a series of 109 reference sites, analyzed data, and prepared 3-volume report to help establish standards for restoration projects in the Willamette Valley.
- Assisted the Confederated Tribes of the Umatilla Indian Reservation in design and collection of field data on biological and geomorphic characteristics of lower Umatilla River floodplain wetlands, based on 40 transects spanning the 80-mile length of the study area. Conducted an in-depth statistical analysis of the data and prepared technical report.
- Designed, conducted, and analyzed field data from riparian and floodplain habitats of the lower McKenzie River, and prepared restoration recommendations for the McKenzie Watershed Council based on the collected data.
- Coordinated 800 volunteers across the state of Oregon in a 5-year data collection project, the Oregon Breeding Bird Atlas Project.
- Under contract to the USEPA Research Lab, Corvallis, I developed spatially-explicit habitat models for all 279 birds, mammals, amphibians, and reptiles that inhabit the Willamette Valley. EPA and partner agencies have used these for the “Alternatives Futures” growth analyses for the region.
- Serve as an appointed member of the technical oversight panel of EPA’s Arid West Water Quality Research Program, providing scientific guidance and peer review of project documents.
- Assist private landowners in function and biological assessments of restored wetlands as part of regional wetland mitigation banks.

Dynamac International, Inc., Rockville, MD, Senior Ecologist, 1996-1998

- Designed a statistically-valid study to investigate possible impacts of acid mine drainage at a Superfund site near Redding, California, on behalf of plaintiffs (the USDI Bureau of Land Management and others) in litigation under the National Resource Damage Act (NRDA). I then directed and helped conduct an extensive survey of riparian plants, birds, and amphibians which established harm to the watershed's resources.
- Led effort to define a statistically valid strategy for resampling 4000 stream reaches and wetlands in the western United States. These sites had been sampled previously by the Bureau of Land Management and USDA Forest Service using their Proper Functioning Condition (PFC) protocol.

USEPA Wetlands Research Program, Environmental Research Laboratory, Western Ecology Division, Corvallis, Oregon. Project Scientist on contract to EPA for:

Dynamac International, Inc., 1996-1997

ManTech Environmental Research Services Corporation, 1989-1996

Northrop Services Incorporated, 1987-1989.

- Authored or co-authored major EPA reports: ecological indicators, impacts to wetlands, biodiversity, wetlands biomonitoring methods, cumulative impact assessment.

- Wrote book chapters: riparian classification, state wetland programs, wetland birds as indicators.
- Designed and conducted research: habitat requirements of riparian and wetland birds at multiple scales.
- Organized and chaired national symposia: wetlands water quality, wildlife indicators.
- Was called upon frequently by EPA regional offices and states for wetland technical assistance.

Adamus Resource Assessment, Inc., Augusta, Maine (Principal), 1985-1987

- Designed and directed comprehensive wetlands analysis project for City-Borough of Juneau, Alaska. Obtained support of regulatory agencies. Implemented community involvement program. Designed, supervised, and helped conduct field data collection (salmonids, stream & estuarine wetland habitat, birds, water quality, groundwater) to calibrate functional assessment models for regional use.
- Delineated jurisdictional wetlands and prepared mitigation plans. Assisted private clients with permit negotiations.
- Assisted the Wetlands Research Program of the US Army Corps of Engineers.
- Trained wetlands personnel from the USEPA and US Army Corps of Engineers.

EcoAnalysts Inc., Bath, Maine, Senior Scientist, 1983-1985

Co-directed statewide monitoring of biological effects of forest pesticides.

Maine Department of Energy, 1983

Published an analysis of strategies for development of tidal power in Maine estuaries.

Center for Natural Areas, Gardiner, Maine, Scientist, then Senior Scientist, 1976-1982

Prepared and published several dozen "best management practices" manuals, biological surveys, impact statements, and risk assessments for national nonprofit research institute affiliated with the Smithsonian Institution, under contract to government agencies.

Oak Ridge National Laboratory, Oak Ridge, Tennessee, research intern, summer 1971

Designed and conducted study of power plant impacts on zooplankton.

Maine Department of Inland Fisheries & Wildlife, intern, summers 1969 & 1970

Did field assessments for statewide wetlands inventory, led wildlife refuge tour groups.

Wetland Program Consultations

State/Tribe Wetland Program Consultation:

North Carolina (Dept. Environmental Management)

Illinois (Dept. of Conservation)

Maine (State Planning Office)

Washington (Dept. of Ecology)

Oregon (Dept. Environmental Quality, Department of State Lands)

Oklahoma

Confederated Tribes of the Umatilla Indian Reservation

Regional Wetland Functional Assessment Projects:

Klamath Region (Lassen & Crater Lakes National Parks)

Oregon Coast: HGM data collection, model development, and application

Willamette Valley, Oregon: HGM data collection, model development, and application

Juneau, Alaska: Wetland Management Plan

New Jersey (Hackensack Meadowlands): Wetlands Advanced Identification Project

Salt Lake City, Utah: Wetlands Advanced Identification Project

Southern Maine: Wetlands Advanced Identification Project

Washington (Mill Creek Watershed): Special Area Management Plan

Publications of Paul R. Adamus

1. Wetland/Riparian Publications

Adamus, P.R. and others. in review. *Policy paper on rapid methods for assessment of wetlands*. Society of Wetland Scientists and Association of State Wetland Managers.

Adamus, P.R. 2005. *A rapid assessment method for tidal wetlands of the Oregon Coast: Volume 1 of a Hydrogeomorphic Guidebook*. Oregon Department of State Lands, USEPA, and Coos Watershed Association.

Adamus, P.R. 2005. *Scientific review and data analysis results for tidal wetlands of the Oregon Coast: Volume 2 of a Hydrogeomorphic Guidebook*. Oregon Department of State Lands, USEPA, and Coos Watershed Association.

Adamus, P.R., R. Scranton, and J. Larsen. 2005. *Wetland profiles of Oregon's coastal watersheds and estuaries. Volume 3 of a Hydrogeomorphic Guidebook*. Oregon Department of State Lands, USEPA, and Coos Watershed Association.

Adamus, P.R.. 2005. *Software and database for selected tidal wetlands of the Oregon Coast*. Oregon Department of State Lands, USEPA, and Coos Watershed Association.

Adamus, P.R. 2005. *An assessment of wetland restoration and enhancement potential on Metro properties*. 2005. Metro Parks and Greenspaces, Portland, OR.

Adamus, P.R. 2004. *Classification, Assessment, Monitoring, and Evaluation of Riverine and Palustrine Wetland Ecosystems*. Chapter 12 In: M. McKinstry (ed.). *Wetland and Riparian Areas of the Intermountain West*. University of Texas Press. <http://www.utexas.edu/utpress/books/mckwet.html>

Adamus, P.R. 2002-present. *Annual monitoring reports for the Amazon Wetland Mitigation Bank*. Oregon Department of State Lands and Mitigation Bank Review Team (MBRT).

Lev, E., R. van der Schaaf, J. Christy, P. Adamus, and J. Alexander. 2004. *Scappoose Bay Bottomlands conservation and restoration plan*. Scappoose Bay Watershed Council, Lower Columbia River Estuary Partnership, USEPA.

Adamus, P.R., J. Webster, C. Shippentower, S. O'Daniel, D.E. Williams, and S. Minthorn. 2002. *Umatilla River Floodplain and Wetlands: A Quantitative Characterization, Classification, and Restoration Concept*. Confederated Tribes of the Umatilla Indian Reservation, Pendleton, OR. <http://www.umatilla.nsn.us/database/wetlands>

Adamus, P.R., T.J. Danielson, and A. Gonyaw. 2001. *Indicators for Monitoring Biological Integrity of Inland Freshwater Wetlands: A Survey of North American Technical Literature (1990-2000)*. Office of Water, U.S. Environmental Protection Agency, Washington, DC. EPA843-R-01. <http://www.epa.gov/owow/wetlands/bawwg/monindicators.pdf>

U.S. EPA. 2001. *Methods for Evaluating Wetland Condition: Biological Assessment Methods for Birds*. Office of Water, U.S. Environmental Protection Agency, Washington, DC. EPA-822-R-02-023. <http://www.epa.gov/waterscience/criteria/wetlands/13Birds.pdf>

- Adamus, P.R. 2001. *Guidebook for Hydrogeomorphic (HGM)–based Assessment of Oregon Wetland and Riparian Sites. Statewide Classification and Profiles*. Oregon Department of State Lands, Salem, OR. http://statelands.dsl.state.or.us/hgm_guidebook.htm
- Adamus, P.R. and D. Field. 2001. *Guidebook for Hydrogeomorphic (HGM)–based Assessment of Oregon Wetland and Riparian Sites. I. Willamette Valley Ecoregion, Riverine Impounding and Slope/Flat Subclasses. Volume IA: Assessment Methods*. Oregon Department of State Lands, Salem, OR. http://statelands.dsl.state.or.us/hgm_guidebook.htm
- Adamus, P.R. 2001. *Guidebook for Hydrogeomorphic (HGM)–based Assessment of Oregon Wetland and Riparian Sites. I. Willamette Valley Ecoregion, Riverine Impounding and Slope/Flat Subclasses. Volume IB: Technical Report*. Oregon Department of State Lands, Salem, OR. http://statelands.dsl.state.or.us/hgm_guidebook.htm
- Adamus, P.R. and A. Gonyaw. 2001. *National Database of Wetland Plant Sensitivities to Enrichment and Hydrologic Alteration*. Office of Water, U.S. Environmental Protection Agency, Washington, DC. <http://www.epa.gov/owow/wetlands/bawwg/publicat.html>
- Adamus, P.R. and A. Gonyaw. 2001. *National Database of Wetland Invertebrate Sensitivities to Enrichment and Hydrologic Alteration*. Prepared for Office of Water, U.S. Environmental Protection Agency, Washington, DC. <http://www.epa.gov/owow/wetlands/bawwg/publicat.html>
- Bolte, J.P., M. Santelmann, P. Adamus, C. Smith, J. Li, P. Jepson, F. Lamy, K. Vache, and C. Langpap. 2001. *Integrating ecological, economic, and social goals in restoration decisionmaking*. In: Proceedings, Integrated Decisionmaking for Watershed Management Symposium, Chevy Chase, MD.
- Adamus, P.R. and L. Fish. 2000. *Biological Evaluation of the Willamette River and McKenzie River Confluence Area. II. Restoration of Wildlife and Riparian Habitat*. Report to the McKenzie Watershed Council, Springfield, OR.
- Adamus, P.R. 1999. *Wetlands*. pp. 695-697 In: D.E. Alexander and R.W. Fairbridge. *Encyclopedia of Environmental Science*. Kluwer Academic Publishers, Boston, MA.
- Adamus, P.R. 1996. *Bioindicators for Assessing Ecological Integrity of Prairie Wetlands*. EPA/600/R-96/082. USEPA Environmental Research Laboratory, Corvallis, OR. <http://www.epa.gov/owow/wetlands/wqual/ppaindex.html>
- Adamus, P.R. 1995. *Validating a habitat evaluation method for predicting avian richness*. *Wildlife Society Bulletin* 23:743-749.
- Rosen, B.H., P. Adamus, and H. Lal. 1995. *A conceptual model for the assessment of depressional wetlands in the Prairie Pothole Region*. *Wetlands Ecology and Management* 3(4): 195-208
- Adamus, P.R. 1993. *User's manual: Avian richness evaluation method (AREM) for lowland wetlands of the Colorado Plateau*. EPA/600/R-93/240. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR. http://www.epa.gov/owow/wetlands/wqual/arem_man/
- Adamus, P.R. and R. Owen. 1993. *Computer program: Avian richness evaluation method (AREM) for lowland wetlands of the Colorado Plateau*. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR.

- Adamus, P.R. 1993. *Irrigated wetlands of the Colorado Plateau: Information synthesis and habitat evaluation method*. EPA/600/R-93/071. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR. http://www.epa.gov/owow/wetlands/wqual/wetlands_co.html
- Leibowitz, S.G., B. Abbruzzese, P.R. Adamus, L.E. Hughes, and J.T. Irish. 1992. *A synoptic approach to cumulative impact assessment*. EPA/600/R-62/167. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR.
- Adamus, P.R. 1992. *Condition, Values, and Loss of Natural Functions of Prairie Wetlands of the North-Central United States*. EPA/600/R-92/249. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR. <http://www.epa.gov/OWOW/wetlands/wqual/appendixb.html>
- Adamus, P.R. 1992. *Conceptual Process Model for Basin-type Wetlands of the Prairie Pothole Region*. EPA/600/R-92/249. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR. <http://www.epa.gov/owow/wetlands/wqual/pphmodel.html>
- Adamus, P.R. 1992. *Data sources and evaluation methods for addressing wetland issues*. pp. 171-224 In: *Statewide Wetlands Strategies*. World Wildlife Fund and Island Press, Washington, D.C.
- Adamus, P.R. 1992. *Choices in monitoring wetlands*. pp. 571-592 In: *Ecological Indicators*. Elsevier Applied Science, New York, NY.
- Adamus, P.R., E.J. Clairain, Jr., D.R. Smith, and R.E. Young. 1992. *Wetland Evaluation Technique (WET). Volume I. Literature Review and Evaluation Rationale*. U.S. Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.
- Adamus, P.R. 1991. *Potential approaches for classification of wetland uses for protecting wetland quality*. Conditionally accepted for publication in *Water Resources Bulletin*.
- Adamus, P.R. 1991. *Use of water quality characteristics in classification of nonpoint pollution control priorities*. Conditionally accepted for publication in *Journal of the Water Pollution Control Federation*.
- Adamus, P.R. and T. Muir. 1990. *Assessment of bottomland hardwood functions*. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR.
- Adamus, P.R. 1990. Indicators for wetlands. In *Environmental Monitoring and Assessment Program ecological indicators*. EPA/600/3-90/060. U.S. Environmental Protection Agency, Environmental Research Laboratory, Corvallis, OR
- Adamus, P.R. and K. Brandt. 1990. *Impacts on Quality of Inland Wetlands of the United States: A Survey of Indicators, Techniques, and Applications of Community Level Biomonitoring Data*. EPA/600/3-90/073 (NTIS PB 113 837/AS). USEPA Environmental Research Lab, Corvallis, Oregon. 406 pp.
- Adamus, P.R. 1989. *Determining the cumulative effects of forested wetlands: EPA's research program, and choices for research and monitoring designs*. pp. 36-47 In *Best management practices for forest wetlands: Concerns, assessment, regulation, and research*. National Council of the Paper Industry for Air and Stream Improvement, Inc. (NCASI), Corvallis, OR.
- Adamus, P.R., J.S. Larson, and E.J. Clairain, Jr. 1989. *Functional Assessment of Freshwater Wetlands: A Manual and Training Outline*. Publication No. 89-6. World Wildlife Fund, Gland, Switzerland, and The Environmental Institute, University of Massachusetts, Amherst. 62 pp.

Adamus, P.R. 1989. *Wetlands and Water Quality: EPA's Research and Monitoring Implementation Plan for the Years 1989-1994*. USEPA Environmental Research Lab, Corvallis, Oregon. 44 pp.

Adamus, P.R. 1989. *Technical Information Sources for Support of USEPA Advanced Identification Projects*. USEPA Office of Wetlands Protection, Washington, DC.

Adamus, P.R. 1988. *Criteria for created or restored wetlands*. pp.369-372 In: D.D. Hook et al. (eds.). *The Ecology and Management of Wetlands*. Vol. 2: Management, Use and Value of Wetlands. Croom Helm, London & Sydney.

Adamus, P.R. 1988. *The FHWA (WET) method for wetland functional assessment*. pp. 128-136 In: D.D. Hook et al. (eds.). *The Ecology and Management of Wetlands*. Vol. 2: Management, Use and Value of Wetlands. Croom Helm, London & Sydney.

Adamus, P.R. 1987. *Juneau Wetlands: An Analysis of Functions and Values*. USEPA and Dept. of Community Development, Juneau, Alaska.

Adamus, P.R., E.J. Clairain, R.D. Smith, and R.E. Young. 1987. *Wetland Evaluation Technique (WET). Volume II. Methodology*. US Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mississippi.

Adamus, P.R. 1986. *The Cumulative Impacts of Development in Southern Maine. Wetlands: Their Locations, Functions, and Value*. Eco-Analysts, Inc., report to Maine State Planning Office, Augusta.

Adamus, P.R. 1985. *Inventory and Management Plan for Kahrl Freshwater Marsh, Bath, Maine*. Eco-Analysts, Inc., report to landowner.

Adamus, P.R. (contributor). 1984. *Proceedings of the National Wetlands Value Assessment Workshop*. FWS/OBS-84/12. U.S. Fish & Wildl. Serv., Washington, D.C.

Adamus, P.R. and L.T. Stockwell. 1983. *A Method for Wetland Functional Assessment*. Vol. I. Critical Review and Evaluation Concepts. Report No. FHWA-IP-82-23. Federal Highway Administration, Washington, D.C.

Adamus, P.R. 1983. *A Method for Wetland Functional Assessment*. Vol. II. Methodology. Report No. FHWA-IP-82-24. Federal Highway Administration, Washington, D.C.

Adamus, P.R. 1982. *Wetlands Ordinance, Inventory, and Access Analysis*. Town of Kennebunk, Maine.

2. Biological Inventory, Assessment and Management

Adamus, P.R. 2004. *Protection, Restoration, and Management of Terrestrial Habitats and Species of the Willamette Sub-Basin. Technical Appendix D*. In: Willamette Subbasin Plan. Northwest Power Conservation Council, Portland, OR.

<http://www.nwcouncil.org/fw/subbasinplanning/willamette/plan/>

Adamus, P.R. 2004. *Amphibians and reptiles of Green Island, Willamette River: survey data and management recommendations*. McKenzie River Trust, Eugene, OR.

<http://www.registerguard.com/news/2004/05/30/c1.cr.greenisland.0530.html>

- Adamus, P.R. (co-PI, with EarthDesign). 2004. *Luckiamute Watershed Assessment*. Luckiamute Watershed Council, Monmouth, OR.
- Adamus, P.R. (contributor, with Ecotrust, Salix Associates, Winterbrook Associates, PHS Inc.). 2004. *Corvallis Natural Features Inventory*. Planning Dept., City of Corvallis, OR. <http://www.inforain.org/corvallis/>
- Adamus, P.R. 2003. *Distribution of western pond turtle populations in the Willamette River Basin, Oregon: field survey and literature review*. Interagency Western Pond Turtle Working Group, Eugene, OR.
- Adamus, P.R. 2003. *Potential for conservation and restoration of western pond turtle habitat in the Willamette River Basin*. Interagency Western Pond Turtle Working Group, Eugene, OR.
- Adamus, P.R. 2003. *Bullock's Oriole*. detailed literature synthesis in: Marshall, D., M. Hunter, and A. Contreras (eds.). *Birds of Oregon: A General Reference*. Oregon State University Press, Corvallis, OR
- Adamus, P.R. 2002. *Multiscale relationships of wintering birds with riparian and wetland habitat in the Willamette Valley, Oregon*. Doctoral dissertation, Oregon State University, Corvallis, OR.
- Adamus, P.R., K. Larsen, G. Gillson, and C. Miller. 2001. *Oregon Breeding Bird Atlas*. Oregon Field Ornithologists, Eugene, OR. <http://thebirdguide.com/atlas/atlas.htm>
- Adamus, P.R. 2000. *Terrestrial Vertebrate Species of the Willamette River Basin: A Species-Habitat Relationships Matrix and Spatial Modeling Approach*. Report to the USEPA Environmental Research Laboratory, Corvallis, OR. <http://www.fsl.orst.edu/pnwerc/wrb/access.html>
- Schumaker, N. and P.R. Adamus. 2000. *User Manual For PATCH, A Spatially-Explicit Computer Model For Wildlife Demographic Forecasting*. U.S. Environmental Protection Agency, Corvallis, OR.
- Adamus, P.R. and D. Thomas. 1998. *Sample size and database requirements for resampling and reporting BLM's attainment of the national riparian PFC Goal*. Dynamac, Inc. report and software for USDI Bureau of Land Management, Washington, DC.
- Adamus, P.R. 1997. *A characterization of early-summer terrestrial fauna and flora associated with acid mine drainage areas in the vicinity of Iron Mountain, Redding, California*. Dynamac, Inc. report to USDI Bureau of Land Management, Denver, CO.
- Adamus, P.R. and M.E. Kentula. 1995. *An evaluation of avian richness in Willamette Valley wetlands and riparian areas: Research plan*. EPA/600/R-95/025. Corvallis, OR: U.S. Environmental Protection Agency, Environmental Research Laboratory.
- Adamus, P.R. 1995. *Handbook for participants: Oregon Breeding Bird Atlas Project*. Corvallis Environment Center, Corvallis, OR.
- Adamus, P.R. (Editor and Regional Coordinator). 1987. *An atlas of birds breeding in Maine, 1978-1983*. Bangor, ME: Maine Department of Inland Fisheries and Wildlife.
- Adamus, P.R., P. Leeper, C. Spies, and H.L. Brown. 1984, 1985. *Long-term environmental monitoring study of Maine's forest ecosystems (birds, aquatic invertebrates)*. Maine Forest Service, Augusta, Maine.
- Adamus, P.R. 1985. *A wildlife baseline for northern Maine forests*. Appalachian Mountain Club, Boston, MA.

- Adamus, P.R. 1983. *Techniques for monitoring the environmental impact of insecticides on aquatic ecosystems*. Agriculture Handbook No. 613. USDA Forest Service, Broomall, PA.
- Adamus, P.R. 1983. *Shorebirds of Muscongus Bay, Maine*. Maine Department of Inland Fisheries and Wildlife, Bangor, Maine.
- Adamus, P.R., P. Leeper, and H.L. Brown. 1983. *Assessment of aquatic invertebrates in the Magalloway River below Aziscohos Dam*. Central Maine Power Company, Augusta, Maine.
- Adamus, P.R. 1982. *Shorebirds of Sheepscot, Kennebec, and Damariscotta Estuaries*. Maine Dept. of Inland Fisheries and Wildlife, Bangor.
- Hynson, J.R., S.W. Tibbetts, P.R. Adamus, and R. Darnell. 1982. *Handbook for protection of fish and wildlife from construction of farm and forest roads*. U.S. Fish & Wildlife Service, Washington, D.C.
- Adamus, P.R. (contributor). 1981. *A Search for Possible Effects of Orthene on Bird Reproduction*. Maine Forest Service, Augusta, Maine.
- Adamus, P.R. 1980. *Benthic Invertebrates as Water Quality Indicators: St. Croix River*. Maine Dept. of Environmental Protection, Augusta, Maine.
- Adamus, P.R. 1980. *Marine Birds*. In: A Summary and Analysis of Environmental Information on the Continental Shelf and Blake Plateau from Cape Hatteras to Cape Canaveral. U.S. Bureau of Land Management, New York, NY.
- Adamus, P.R. (contributor). 1980. *A Resource Management Plan for Santa Catalina Island*. Dept. of Parks and Recreation, County of Los Angeles, California.
- Adamus, P.R. (contributor). 1980. *Aberdeen Proving Ground Natural Resources Management Plan*. Army Corps of Engineers, Philadelphia, Pennsylvania.
- Adamus, P.R. 1985. *Environmental Risk Assessment of 10 Pesticides Used in Maine: Literature Review and Synopses*. Maine Board of Pesticides Control, Augusta.
- Adamus, P.R. 1985. *Impacts of forest management practices on stream ecosystems and wetlands*. pp. 91-106 In: Symposium on Fish and Wildlife Impacts of Forest Management. Maine Agric. Exp. Stn. Misc. Pub. 689.
- Hynson, J.R., P.R. Adamus, J.O. Elmer, and T. Dewan. 1984. *Environmental Features for Levee Projects*. U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, MS. Contract DACW39-82-C-0027.
- Adamus, P.R. 1983. *User handbook on SCS and U.S. Fish and Wildlife Service Cannel Modification Guidelines*. U.S. Fish & Wildlife Service, Washington, D.C.
- Adamus, P.R. (contributor). 1985. *Ecological Assessment: Great Diamond Island*. Dictar Associates Project. Land Use Consultants, Portland, Maine.
- Adamus, P.R. 1984. *Foster (Ingalls) Pond, Bridgeton, Maine: Historical and Recommended Water Levels for Ecological Management*. Maine Dept. of Environmental Protection, Augusta.
- Adamus, P.R. (contributor). 1983. *BTI efficacy and non-target effects when sprayed for salt marsh mosquito control in Maine*. Georgetown Mosquito Committee, Georgetown, Maine.

- Adamus, P.R. 1983. *Potential Economic and Technical Feasibility of Tidal Power in Maine*. Maine Office of Energy Resources, Augusta.
- Adamus, P.R. 1983. *Maine Science Curriculum Studies Program: Birds and Reptiles*. Downeast Press, Rockland, Maine.
- Adamus, P.R. 1982. *Vail Estate Ecological Management Plan*.
- Adamus, P.R. 1982. *Maple Juice Cove Ecological Management Plan*.
- Adamus, P.R. and T. Bigford. 1980. *Issues in Mapping Atlantic Coast Ecological Data*. pp.160-178 In: Coastal Zone '80: Proceedings of the Second Symposium on Coastal and Ocean Management. Amer. Soc. Civil Engineers, New York, NY.
- Adamus, P.R. (contributor). 1980. *Oil Sensitive Areas of the South Atlantic Coast*. U.S. Bureau of Land Management, New York, NY.
- Adamus, P.R. (contributor). 1979. *Use of Exclusion and Restriction Criteria in the Siting of Energy Related Facilities*. U.S. Dept. of Energy, Washington, DC.
- Adamus, P.R. 1979. *Brookside Condominiums Ecological Site Plan*.
- Adamus, P.R. 1979. *Ecological Assessment for the Augusta State Airport Expansion*. Maine Dept. of Transportation.
- Adamus, P.R. 1979. *Dow's Woods Condominiums Ecological Site Plan*.
- Adamus, P.R. 1978. *Yarmouth Public Shoreland Ecological Management Plan*. Town of Yarmouth, Maine.
- Adamus, P.R. 1978. *Hinckley Park, South Portland, Ecological Management Plan*. City of South Portland.
- Adamus, P.R. 1978. *Penobscot Bay Oil Spill Contingency Plan: Ecological Resources*. Maine Dept. of Environmental Protection, Augusta.
- Adamus, P.R. 1978. *Benthic Invertebrates as Water Quality Indicators: Molunkus Stream, Stacyville, Maine*. USDA Soil Conservation Service, Orono, Maine.
- Adamus, P.R. 1977. *Dickey-Lincoln Transmission Line Environmental Impact Assessment: Ecological Resources*. Bonneville Power Administration, U.S. Dept. of Energy, Portland, Oregon.
- Adamus, P.R. and W. Drury. 1977. *Marine Birds*. In: A Summary and Analysis of Environmental Information on the Continental Shelf from the Bay of Fundy to Cape Hatteras. U.S. Bureau of Land Management, New York, NY.
- Adamus, P.R. (contributor). 1977. *EIS for Disposal of Surplus Federal Properties in Rhode Island: Quonset Naval Air Station, Davisville CBC, and Newport Naval Base: Ecological Resources*. U.S. General Services Administration, Boston, Massachusetts.
- Adamus, P.R. 1977. *Spring Point Shoreway Ecological Management Plan*. City of South Portland, Maine.

- Adamus, P.R. (contributor). 1976. *Perley Brook Watershed Environmental Assessment*. USDA Soil Conservation Service, Orono, Maine.
- Adamus, P.R. (contributor). 1976. *The Decision to Transport Alaskan Natural Gas from Prudhoe Bay: Issues and Decisionmakers*. US EPA and Council on Environmental Quality.
- Adamus, P.R. 1976. *The Natural Regions of Maine*. Maine State Planning Office, Augusta.
- Adamus, P.R. 1976. *The Noteworthy Natural Features of Maine*. Maine State Planning Office, Augusta.
- Adamus, P.R. and G.C. Clough. 1977. *Evaluating species for protection in natural areas*. *Biological Conservation* 13: 165-178.
- Adamus, P.R. 1976. *Dynamics of Drift and Benthos: Diversity and Environmental Influences in Mill Creek*. M.S. Thesis.
- Adamus, P.R. and A.R. Gaufin. 1973. *A synopsis of Nearctic taxa found in aquatic drift*. *American Midland Naturalist* 95:198-204.
- Adamus, P.R. 1971. *Effects of Bull Run Stream Plant on zooplankton populations of Melton Hill Reservoir, Tennessee*. Environmental Sciences Division, Oak Ridge National Lab, Oak Ridge, Tennessee.