

BRUCE G. MARCOT

USDA Forest Service, Portland Forestry Sciences Laboratory
620 SW Main St., Suite 400, Portland, Oregon 97205 USA
Phone: 503/808-2010, Fax: 503/808-2020, bmarcot@fs.fed.us

ACADEMIC HISTORY -----

Ph.D., Wildlife Science major, Forestry and Statistics minors, Oregon State University, Corvallis, OR, 9/84
M.S., Natural Resources Science, Wildlife Emphasis, Humboldt State University, Arcata, CA, 6/78
B.S., Natural Resources Planning and Interpretation, Humboldt State University, Arcata, CA, 3/77
A.A., Biology, College of the Redwoods, Eureka, CA, 6/75

WORK EXPERIENCE -----

10/96-present **Research Wildlife Biologist** (8/06-present), **Wildlife Biologist** (10/96-8/06). Member, Wildlife Ecology Team, Ecosystems Processes Research Program, Portland Forestry Sciences Laboratory, USDA Forest Service.

- Invited by Transportation Research Board, National Research Council, Academy of Sciences, to participate on a national panel of environmental and transportation engineers to help develop criteria and content for funding a major national program for specifying sustainable transportation performance measures for state Departments Of Transportation (2008-present).
- Invited participation by Kootenai Tribe of Idaho as a member of their Research Design and Review Team to advise on ecological restoration of the Kootenai River Ecosystem (2008-2009).
- Invited participation on U.S. Geological Survey project team to develop a comprehensive evaluation framework and modeling approach to determine potential future effects of climate change (global warming) on high Arctic wildlife habitats and species (2008-present).
- Invited participation on U.S. Geological Survey Polar Bear Science Team as quantitative ecologist to model the future of global polar bear habitat, carrying capacity, and extinction probability; helped 9/07 with presentations of findings in Washington D.C. to USDI Geological Survey and Fish and Wildlife Service directors and staffs, Secretary of the Interior, White House Science Advisors, others (2007-present).
- Invited participation on U.S. Geological Survey project to model Pacific walrus populations under future climate change scenarios, in turn to advise U.S. Fish and Wildlife Service on their listing decision for the species (2008-present).
- Invited participation with USDI Fish and Wildlife Service to devise and hold expert panels, provide personal ecological expertise, and to develop decision models for species assessment and listing processes on northern spotted owl, marbled murrelet, bull trout, polar bear, fisher, black-footed albatross, and other species (2007-present)
- Invited participation with Oregon Department of Forestry to develop measures and models for monitoring state-wide forest management performance (2007-2009).
- Invited participation with Washington State Department of Fish and Wildlife to advise on developing models for monitoring state-wide wildlife management performance (2007-2009)
- Served on science advisory group synthesis team to review 1994-2005 progress and results of the Northwest Forest Plan (2004-2007)
- Served on Region 6 Species Assessment Process Science Review Team (2004-2007)
- Served on Science Advisory Team, PNW Research Station Biodiversity Initiative (2005-2007)
- Conducted Old Forest Remnants Study on invertebrates, lichens, bryophytes, and vascular plants in old-forest fragments and adjacent young-growth plantations.
- Adjunct Professor, Department of Biology, Portland State University, Portland, Oregon (2004-present)
- Adjunct Professor, Forestry Department, Northern Arizona University, Flagstaff, Arizona (2006-present)
- Courtesy Faculty Member, Department of Fish and Wildlife, Oregon State University, Corvallis, Oregon (2008-present)

- Primary designer and co-developer of DecAID Advisor, a Web-based decayed wood management advisory model, for snag and down wood management.
- Work 1/3 time for Northwest Power and Conservation Council on developing an assessment and planning framework for integrated fish and wildlife management in the Columbia River Basin and in subbasins thereof.
- Served as Science Advisor under the Northwest Forest Plan, developed Bayesian belief network models of rare species of sundry taxonomic groups, and a series of Annual Species Review decision support models, for the Survey and Manage Species Program, Northwest Forest Plan.
- Continued work on Interior Columbia Basin Ecosystem Management Project.
- Writing manuscripts for publication, and making presentations, on many ecological topics from past decade's projects.
- International projects listed below and include formal and informal research and applied conservation work in Democratic Republic of the Congo, Gabon, India, Russia, China, Canada, and elsewhere.
- Invited advisor to: Olympic National Forest on their thinning projects; regional Invasive Species EIS team on their assessment and modeling of exotic species; other projects.
- Developed rule classification systems on soil compaction risk levels for Pacific and Inland Northwest in conjunction with regional soil scientists.
- Invited to teach risk analysis to USDI Fish and Wildlife Service annual agency shortcourse.

Also served as invited team member of the following additional projects:

- Technical Advisor to BBC U.K. on a new TV series on wildlife of Africa (2009)
- Oregon-Washington Species Habitat Project (guided development of wildlife-habitat relationships databases)
- Multi-species Conservation Review and Assessment for USDA Forest Service, Pacific Northwest Research Station
- Northwest Forest Plan 10-Year Review of Monitoring Programs
- Regional Biodiversity Monitoring Planning Teams
- Alternative Approaches to Species Conservation interdisciplinary team (white paper and book manuscript)
- Reviewer of draft Planning Regulations under National Forest Management Act, invited by USFS Washington Office
- Weyerhaeuser British Columbia Canada Advisory Panel, to review their ongoing work on variable retention and biodiversity conservation silvicultural methods

5/90-9/96 Research Wildlife Ecologist and Ecosystem Management Technical Coordinator. Leads technical aspects of ecological applications projects of the Ecological Framework for Management Research, Development, and Application (RD&A) Program and previously on Spotted Owl RD&A Program. Evaluates research and monitoring priorities, devises and recommends new approaches. Helps develop old-growth forest reserve design. Led technical aspects of the national spotted owl program; compiled, analyzed, and modeled data on spotted owl populations and habitats. Instructor, Forest Service Wildlife Habitat Short Course and Managing Stand Structure Short Course, at 4 universities (1986-present). Develops and helps apply new approaches to managing for biological diversity and old-growth forest ecosystems on public lands. Develops and implements methods for analyzing and managing for wildlife plant and animal population viability. Supervised many teams of up to 10 biologists and researchers.

Team member and coauthor on spotted owl, old growth, and forest management evaluation projects:

- Science Advisory Group, Interior Columbia Basin Ecosystem Management Project (1996-2001)
- Leader, Terrestrial Ecology Staff, Science Integration Team, President's Interior Columbia River Basin Ecosystem Management Project (1993-1996)
- President's Forest Ecosystem Management Assessment Team (1993)
- Scientific Analysis Team for Assessment of Old-Growth Species and Ecosystems (1992-1993)
- U.S. Congress' Scientific Panel on Late-Successional and Old-Growth Forest Ecosystems (1990-1991)
- Interagency Scientific Committee for the Northern Spotted Owl (1989-1990)
- Two Regional Forest Service Spotted Owl EIS's (1986-1993)

Also has advised on habitat ecology, population viability analysis and management, and decision modeling under the Survey and Manage Species Program, Spotted Owl Recovery Team, California Spotted Owl Scientific Team,

National Snag Working Group for Forest Vegetation Simulation and Wildlife Habitat Modeling Integration, Pacific Northwest Regional Working Group on Stand Exam Design, Sierra Nevada Ecosystem EIS team, Interagency Northern Spotted Owl Conservation Group, Tongass National Forest Wildlife Viability Committee, Oregon Interagency Biodiversity Project, Washington Biodiversity Project, Mt. Graham Red Squirrel Conservation Project, Red-Cockaded Woodpecker Conservation Project, and other scientific agency panels and committees.

International projects include:

- U.S. Technical Co-Leader for Wildlife in Managed Forests of India Project with Wildlife Institute of India
- Habitat Futures Conferences and technical advisory functions with Ministries of Forests and Environment, British Columbia, Canada
- Chief Wildlife Ecologist for Developing an Integrated and Sustainable Land Use Program for the Ussuri River Watershed of the Russian Far East and Northeastern China
- Technical Advisor on wildlife habitat ecology and management, to the conservation forestry program in Amazonian Bolivia, with Conservation International, Washington, D.C.
- Reviewed forest management plans and programs for U.K. and South Africa
- Personal ecological experience and contributions to ecological work in Mexico, Caribbean, Costa Rica, Ecuador, Germany, New Zealand and sub-Antarctica, Zimbabwe, South Africa, Botswana, Namibian, and elsewhere

Published many original photographs on wildlife and habitats of the world.

10/88-5/90 **Area Wildlife Ecologist**, USDA Forest Service. Development of wildlife habitat guides and habitat classification system to integrate with timber types and plant associations, decision models and expert systems. Instructor, Wildlife Habitat and Silviculture-Habitat Shortcourses. Coordination with field offices, wildlife biologists, silviculturists, planners. Member regional SAF Silviculture Certification Panel. Devised and programmed the Snag Recruitment Simulator (SRS) for monitoring and managing snags (wildlife trees) for wildlife; later aided in integrating SRS into USDA Forest Service's Forest Vegetation Simulator.

2/85-9/88 **Wildlife Ecologist**, Pacific Northwest Regional Office, USDA Forest Service. Member, Spotted Owl Environmental Impact Statement Interdisciplinary Team; conducted, devised assessment of population viability. Presentations to scientific conferences, National and Regional management teams, biologists. Headed regional Old Growth Development Program, wrote and initiated 5-year Action Plan. Taught population ecology, management, and viability planning and assessment in Wildlife Habitat Shortcourse, USDA Forest Service. Coordinated 13 National Forests in spotted owl monitoring. Consulted with numerous state and federal agencies and other Forest Service regions in species monitoring and population assessment. Developed expert systems for viability assessment and species identification.

2/84-5/86 **Computer Programmer**. Consultant to The Perkin-Elmer Corporation, Biomedical Division. Analyzed statistical capnogram data and programmed the first-ever prototype expert system to monitor breath gas and diagnose patient condition for use in operating room. Won institutional president's award for technical excellence.

9/79-12/84 **Graduate Research Assistant**. Doctoral study at Oregon State University: initiated and wrote Cooperative Agreement with USDA Forest Service to validate and improve a prediction model of wildlife-habitat relationships. Dissertation and numerous related papers address coordination with timber harvest planning and operations; use of modeling in National Forest land management planning and project assessment; and field ecology of bird communities. Designed and conducted study. Supervised up to 10 field technicians and computer programmers.

12/83-4/84 **Ecological Consultant**. Analyzed bird survey data for USDI Fish and Wildlife Service and Old Growth Research Program, USDA Forest Service.

9/80-6/81 **Instructor**, Department of Wildlife Management, College of Natural Resources, Humboldt State University, Arcata, California. Created and taught upper division and graduate level courses in Principles of Wildlife Ecology, Ecology of Wildlife Populations, Philosophy and Ethics of Natural Resources Science, Habitat

Modeling in Management Decisions. Full-time appointment (taught overload of course credits).

3/81 **Instructor** with 3 others, Workshop on Application of Remote Sensing to Wildlife Habitat Inventory, Humboldt State University, Arcata, California.

7/78-8/79 **Biological Technician**, Six Rivers National Forest, USDA Forest Service, Eureka, California. Implemented Slump Pond Habitat Management Plan from Master's study, coordinating with District Rangers and Biologists. Supervised field crews of up to 20. Helped develop Wildlife-Habitat Relationships Program: edited 5-volume summary of species ecology and management; supervised and co-authored computer model; served as inter-Regional representative; guided model use for planning and project assessment; work formed basis for Forest Service projects and models in WA, OR, and CA. Helped develop Forest Geobased Information System.

3/78-7/78 **Contract Ecologist**, USDA Forest Service. Spotted owl and flammulated owl surveys of Six Rivers National Forest, northwestern California. Developed maps of owl locations for timber sale Environmental Analyses. Wrote and published technical paper on survey results and habitat assessments.

6/77-9/77 **Contract Ecologist**, USDA Forest Service. Devised and conducted wildlife and limnological studies of slump pond habitats. Wrote a management plan for protecting pond habitats on Six Rivers National Forest, northwestern California. Worked directly with Forest Service district personnel and California Department of Fish and Game, and supervised YCC field crews, to implement the pond protection program in the field.

AWARDS -----

- Certificate of Merit and Extra Effort Cash Awards**, for outstanding contributions to the Wildlife Ecology Team; 2005, 2006, 2007, 2008, 2009, 2010, 2011
- Certificate in Recognition of Twenty-Five Years of Service in the Government of the United States of America**, with award pin; 2009.
- USDA Certificate of Appreciation, and Letter of Appreciation** from Forest Service, Washington Office, Wildlife Director, for outstanding contributions as instructor of the Wildlife Conservation and Management continuing education course, 1986-1997, and co-organizer of the course, 2000-2009.
- Service to America Medal** finalist, Environmental Category, Tribute to America's Dedicated Federal Workforce for Significant Contributions to Our Country, for work on the US Geological Survey International Polar Bear Science Team; 2009. Additional letter of congratulations from Kim Elton, Senior Advisor to the Secretary for Alaska Affairs, U.S. Department of the Interior, Office of the Secretary.
- BLM Nominee for Secretary of Interior Award**, for Excellence of Service, International Polar Bear Science, for outstanding contribution for providing timely information in support of the U.S. Fish and Wildlife Service polar bear listing decision, plaque and letter; 2008.
- USDA Forest Service, Pacific Northwest Research Station, Director's Office** award for significant contributions; clothing award, 2008.
- 2008 Science Findings Award** from USDA Forest Service, PNW Research Station, with shared cash award, for coauthored book publication *Conservation of Rare or Little-Known Species*
- Secretary of the Interior, Washington D.C., Unit Award for Excellence of Service, International Polar Bear Science Team**, for outstanding contribution in providing timely information in support of the U.S. Fish and Wildlife Service polar bear listing decision, 2008
- Letter of Appreciation** for scientific contributions to the Northern Spotted Owl Final Recovery Plan, from Regional Director, USDI Fish and Wildlife Service, Portland OR, 2008
- Certificate of Merit and Clothing Award**, for Global Stewardship, Pacific Northwest Research Station, Portland OR, 2008
- Global Stewardship Award**, national USDA Forest Service Chief's award, USFS Washington Office, certificate, ceremony, crystal vase, and cash award, 2007
- Registry of Distinguished Graduates**, Department of Fisheries and Wildlife, Oregon State University, Corvallis, 2006
- Letter of appreciation** and inscribed mug, from Regional Interagency Executive Committee and PNW Research Station Director, for participation in the Conference on *Science and the Northwest Forest Plan: Knowledge Gained Over a Decade*, held 19-20 April 2005
- Plaque of appreciation** in recognition of dedication and commitment to the 10-year science and monitoring report for the Northwest Forest Plan from Regional Interagency Executive Committee (multiple agencies), May 2005
- Certificate of Merit and Cash Award**, for dedication and commitment in completing the Synthesis of Monitoring and Research Results Report for the Northwest Forest Plan regional monitoring program, April 5, 2005
- Clothing Award and Recognition for a decade of service on the Northwest Forest Plan**, January 14, 2005
- Certificate Awarded in Recognition of Twenty Years of Service in the Government of the United States of America**, April 22, 2004
- Certificate of Merit and Cash Award**, for outstanding contribution to development of the DecAID Advisory Tool for management of dead wood in forested ecosystems of Oregon and Washington, USDA Forest Service, Pacific Regional Office, June 2003
- Cash Award**, for outstanding contribution to the Survey and Manage Species Program of Northwest Forest Plan, USDA Forest Service Pacific Region, June 2003
- Certificate of Merit**, USDA Forest Service, for providing outstanding scientific expertise and developing valuable management tools for the regional Survey and Manage Program; June 2002.
- Individual Time-Off Award**, USDA Forest Service, for contribution to Quality Assurance program; Jul 2002.
- Certificate of Merit and Cash Award**, USDA Forest Service, Washington, D.C., for exceptional effort contributing to proposed planning rule; June 2002.
- Special Recognition Award and Letter of Appreciation**, USDA Forest Service, Pacific Northwest Research Station, for work as Lead Scientist, Terrestrial Ecology Staff, Interior Columbia Basin Ecosystem Management Project; February 2002.

- Certificate of Merit and Cash Award**, USDA Forest Service, for contributions as Scientific Advisor for the Survey and Manage Species Program Annual Species Review, USDA Forest Service, PNW Research Station, 2001
- 1997 Science Findings Award** from USDA Forest Service, PNW Research Station Director, with shared cash award, for coauthored publication *Risks to Ecological Integrity and Socioeconomic Resiliency in the Columbia Basin*
- Certificate of Merit and Cash Award**, USDA Forest Service, for contributions to the scientific assessment of the interior Columbia Basin, 1997
- 1994-95 Outstanding Scholarly Achievement Award**, School of Renewable Natural Resources, The University of Arizona, Tucson, for coauthorship of textbook *Wildlife Habitat Relationships: Concepts and Applications*, Plaque and Certificate, 1995 (another plaque on permanent display in School of Renewable Natural Resources, Univ. of Arizona)
- Oregon Wildlife Society Award** for Outstanding Service for Wildlife Resources of Oregon, Plaque, 1994
- Twice Nominated for Pew Scholarship** (unable to complete submissions due to agency work exigencies)
- Forest Ecosystem Management Assessment Team Cash Award**, Plaque, Certificate of Merit, and Letter of Appreciation from Chief, USDA Forest Service (President Clinton's Forest Science Team), 1993
- Scientific Analysis Team Cash Award**, Plaque, Certificate of Appreciation, USDA Forest Service, 1993
- Outstanding Performance Evaluation**, USDA Forest Service, 1993,92,91,90,89
- Performance Award**, USDA Forest Service, 1993,92,91,90,89,88,87,86,79
- Certificate of Merit** with Quality Step Increase, USDA Forest Service, 1994
- Certificate of Merit** with Cash Awards, USDA Forest Service, 1993,92,91,90
- Honorary Professor**, Pacific Geographical Institute, Far Eastern Branch, Russian Academy of Sciences, Vladivostok Russia, 1995
- Honorary Member**, The Wildlife Foundation of Khabarovsk, Russia, for outstanding work on natural resource and wildlife conservation planning in the Far East 1993
- Fulfilling the Vision Award**, USDA Forest Service, Pacific Northwest Research Station, 1993
- 1992 Conservationist of the Year**, The Oregon Rivers Council, for Contribution to Responsible Mangement of Northwest Forests and Fisheries as a Member of the Scientific Panel on Late Succession Forest Ecosystems, 1992
- Certificate of Appreciation**, California Spotted Owl Technical Assessment Team, for Technical Advisory Contributions, 1992
- Wildlife Publication Award for Monograph**, The Wildlife Society, for Interagency Scientific Committee Report on the Northern Spotted Owl, 1992
- Group Achievement Award**, The Wildlife Society, for work on Northern Spotted Owl Conservation, 1991
- Award for Spotted Owl Project, 1985-88**, plaque and certificate, USDA Forest Service, for scientific contribution on population viability analysis to EIS
- Plaques and Certificates of Appreciation, Interagency Scientific Committee**, 1989-90, for work on spotted owl conservation and applied science
- Volunteer Performance Award**, USDA Forest Service, 1985
- Chairman's Award**, All Perkin-Elmer Technical Symposium, for Best Technical Achievement in Developing an Operating Room Expert System for Monitoring Patient Capnograms, 1985
- Who's Who** in Frontiers of Science and Technology, Marquis, Chicago, IL
- Honor Societies** - Sigma Xi, Phi Kappa Phi
- Joseph S. Woolford, M.D. Rotary Club of Eureka Student Grant Award**, 1977
- Certificate of Appreciation**, The Wildlife Society, 1977
- Academic Honors**, 1976-77, Master's Program, Humboldt State University
- Academic Achievement Award**, Xi Sigma Pi, Humboldt State University, 1976
- Who's Who** in Poetry in American Colleges and Universities, 1975
- Larry Allyn Headlee Scholastic Achievement Award**, Saddleback Valley Young Republicans, CA, 1971

SELECTED COMMUNITY AND PROFESSIONAL SERVICE PROJECTS -----

- Ecological Advisor** to The Illahee Society of Portland, Oregon, on bridging agency scientific research and public discourse.
- Ecological Advisor** to Portland Audubon Society Executive Board regarding development of a local ornithological library, at their invitation, 2003-present.
- Ecological Advisor**, Beaverton Primary School District, Oregon, helping develop and review a teaching module on wildlife and forest ecology for use in primary schools, 2002-2003.
- Advisor**, Planning Department, City of Tigard, Oregon, on expansion of City forest park system, 1998.
- International Board of Advisors**, Ecologically Sustainable Development, Inc. (invited position), 1995-1999; technical advisor on international conservation planning projects for Asia and elsewhere.
- Academic Advisor** on degree committees, to several Master's Degree or Doctoral Degree program students, Utah State University, Humboldt State University, Wildlife Institute of India, Portland State University in Oregon, Vladivostok Far East Branch of Russian Academy of Sciences, and elsewhere, 1988-present.
- Formal USDA Forest Service Mentor**, 1992-93; informal mentor 1990-present to junior Forest Service employees and university graduate students
- Scientific Advisor** to Oregon Museum of Science and Industry, Portland, Oregon, on exhibit content, 1996-1997.
- Scientific Advisor** to Washington Park Zoo, Portland, Oregon, in developing a major new exhibit on ecosystems and wildlife of Oregon, 1993-2000.
- Scientific Advisor** to World Forestry Center, Portland, Oregon, in development and presentation of public exhibit "Old-Growth Forests: Treasure in Transition." Exhibit ran for 6 months, then shown at Smithsonian Institution and on tour across the U.S., 1992.
- Scientific Advisor** to Multnomah County Parks and Recreation, Oregon, on a study of conservation of forest corridors as add-ons to the county park system, 1992.
- Participated in workshop** by Portland State University for educating primary- and secondary-school teachers in wildlife and forest conservation. Resulted in new environmental education curricula being taught to children in the greater Portland area, 1992.
- Presentations** at Whitman College, Washington, on forest conservation for wildlife, 1992.
- Helped develop and teach shortcourses** for Washington Department of Natural Resources for educating state foresters in wildlife habitat management, 1991.
- Served on Silvicultural Certification Panels** in Portland, Oregon, and Oregon State University, 1990.

PROFESSIONAL SOCIETIES -----

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| The Wildlife Society | The Wildlife Foundation, Khabarovsk, Russia (honorary member) |
| The Nature Conservancy | Ecological Society of America |
| Society for Conservation Biology | The Xerces Society for Invertebrate Conservation |
| Natural Areas Association | Society for Northwestern Vertebrate Biology |

REFERENCES -----

Available on request.

PUBLICATIONS AND PRESENTATIONS -----

- over 130 publications and reports in ecology and wildlife management; wildlife in the interior Columbia River Basin, India, Far East, and other topics; and expert systems and artificial intelligence programming
- many presentations (e.g., 25 conference and workshop presentations during 2000 and 2001)
- many published photographs on wildlife and wildlife habitat of North America, India, Ecuador, Far East Russia and China, and elsewhere

Publication list available on request.

INTERNATIONAL EXPERIENCE -----

North America:

- Canada** -- ecological explorations of western and central Canada (1973, 1983); invited paper presentation and member of international team on wildlife-habitat analysis, at Habitat Futures international forestry and wildlife management workshop, Vancouver Island, with B.C. Ministry of Forests and Environment (1986); paper presentations at international Natural Resources and Wildlife Conference at Quebec (1987) and Edmonton (1991); invited presentations to B.C. Ministry of Forests on U.S. President's Forestry Plan, at Victoria (1993); invited participant in Wildlife Tree Committee of British Columbia in Williams Lake, B.C. (1993); invited by B.C. Ministry of Forests as participant in Workshop on Adaptive Management for Forests of B.C. (1995); invited by B.C. Ministry of Forests as visiting scientific consultant for development and application (1995); invited keynote speaker at First Conference on Bats and Forests (1995); invited speaker at International Conference on Sustaining Ecosystems and People in Temperate and Boreal Forests (1996); invited consultant on rare species modeling and assessment, and adaptive management field project on woodland caribou in northern B.C., by Ministry of Forests (2000); invited science panel member for review of forest-wildlife projects, Weyerhaeuser B.C. (2001, 2003); invited as leader for wildlife modeling workshop (2002); invited guest speaker to Habitat Supply Workshop (2004); invited participant, Forest Biodiversity Planning Workshop (2005); invited key speaker and participant, Habitat Supply Modeling Workshop (2006)
- Mexico** -- personal ecological explorations of Baja and Sea of Cortez (1966), western Mexico mainland (1978), Yucatan and south-central Mexico (1981)
- United States** -- personal and ecological explorations of 48 states plus Alaska and Hawaii

Central America and Caribbean:

- Costa Rica** -- personal ecological explorations (1990)
- Bahamas** -- bird and bird-habitat ecological exploration of Andros Island; paper submitted for publication and work will be used in a forthcoming book on birds of the Bahamas
- Virgin Islands (U.S. and British)** -- personal bird and bird-habitat ecological explorations (1986)

South America:

- Ecuador** -- personal ecological explorations of Upper Amazon Basin, Andes, Pacific slope tropical forests, and Galapagos Islands (1992, 2010)
- Bolivia** -- volunteer work with Bolivian Forest Service and Conservation International to develop forest conservation guidelines in timber concessions (1997).
- Argentina and Chile** -- personal ecological explorations of steppe, Andean, and coast lowland temperate rainforest environments of Patagonia (2004)

South Pacific:

- Australia** -- personal ecological explorations of Tasmania and southern Australia (2000), Queensland (2005), Northern Territory (2011)
- New Zealand** -- personal ecological explorations of main islands and several outlying sub-Antarctic island groups (1996)

Europe:

- Germany, France** -- personal ecological exploration of Black Forest and Rhine River corridor (1990); personal ecological exploration of regional forests, northern France (2006)

Asia:

- India** -- Wildlife Ecologist on international team on Wildlife and Biodiversity in Managed Forests in India, presentations at all-India conference at Wildlife Institute of India; several publications; traveled and worked extensively throughout India (3/1990, 9/1990, 1995, 3/1998, 10/1998, 2001, 2002, 2005)
- Russia and China** -- Chief Ecologist for trinational project on Sustainable Land Management in the Ussuri River Watershed in northeast China and Far East Russia; invited to serve on International Board of Advisors, and international steering committee for plan implementation (1993-96); invited participant and

ecological consultant for workshop and working team on restoration of desertified landscapes, Inner Mongolia (2002)

Additional visits to wetlands of **Hong Kong** and elsewhere.

Africa:

South Africa, Zimbabwe, Botswana, Namibia, Zambia, Malawi, Kenya -- Personal wildlife ecology tours, research, and expeditions in multiple ecosystems, parks, and locations (2000, 2002, 2007)

Democratic Republic of the Congo – Chief ecologist, community forest sustainability project and expedition, International Programs, USDA Forest Service, Washington, D.C.; for USAID State Department project on forest resource planning in central Africa (2004, 2006)

Democratic Republic of the Congo, Gabon – Co-presenter, Land Planning Implementation Workshops, International Programs, USDA Forest Service, Washington, D.C.; for USAID State Department project on forest resource planning in central Africa (2008)

MEDIA INTERVIEW EXPERIENCE -----

- 1992 National Public Radio, U.S., interviewed on land use planning project work conducted in India.
- 1994 in Far East Russia, interviewed on a regional radio station for Russia/China project planning work.
- 1994 in Heilongjiang Province, China, on radio and television regarding Russia/China project planning work.
- 1996 on National Public Radio, U.S., interviewed on The Environment Show for Russia/China project planning work.
- 2004 interviewed for national radio in Democratic Republic of the Congo on international project work there on helping develop community-based forest conservation
- 2010 interviewed by National Public Radio and regional TV news stations for work on polar bear conservation research
- 6 interviews by sundry special-topics newspapers and organizations concerning technical work on biodiversity
- numerous interviews by various reporters concerning general wildlife biology and ecology topics, including owl biology and lore

PROFESSIONAL AND PERSONAL WEB SITES -----

DecAID Advisor, the Decayed Wood Advisor for Managing Snags, Partially Dead Trees, and Down Wood for Biodiversity in Forests of Washington and Oregon

<http://www.notes.fs.fed.us:81/pnw/DecAID/DecAID.nsf>

DecAID Repository, Background Information for DecAID Advisor

http://www.fs.fed.us/wildecology/decaid/decaid_background/decaid_home.htm

Ecology Picture of the Week (listed in the #1 spot on Google under “ecology picture” out of 51.3 million results as of 11 June 2010)

<http://www.taos-telecommunity.org/epow/index.htm>

The Plexus: A Crossroad of Disciplines

<http://www.spiritone.com/~brucem/index.htm>

The Owls Plexus

<http://www.plexusowls.com/owls/owlpics.htm>

Bayesian Networks ~ Applications

<http://www.taos-telecommunity.org/BNApplications/>