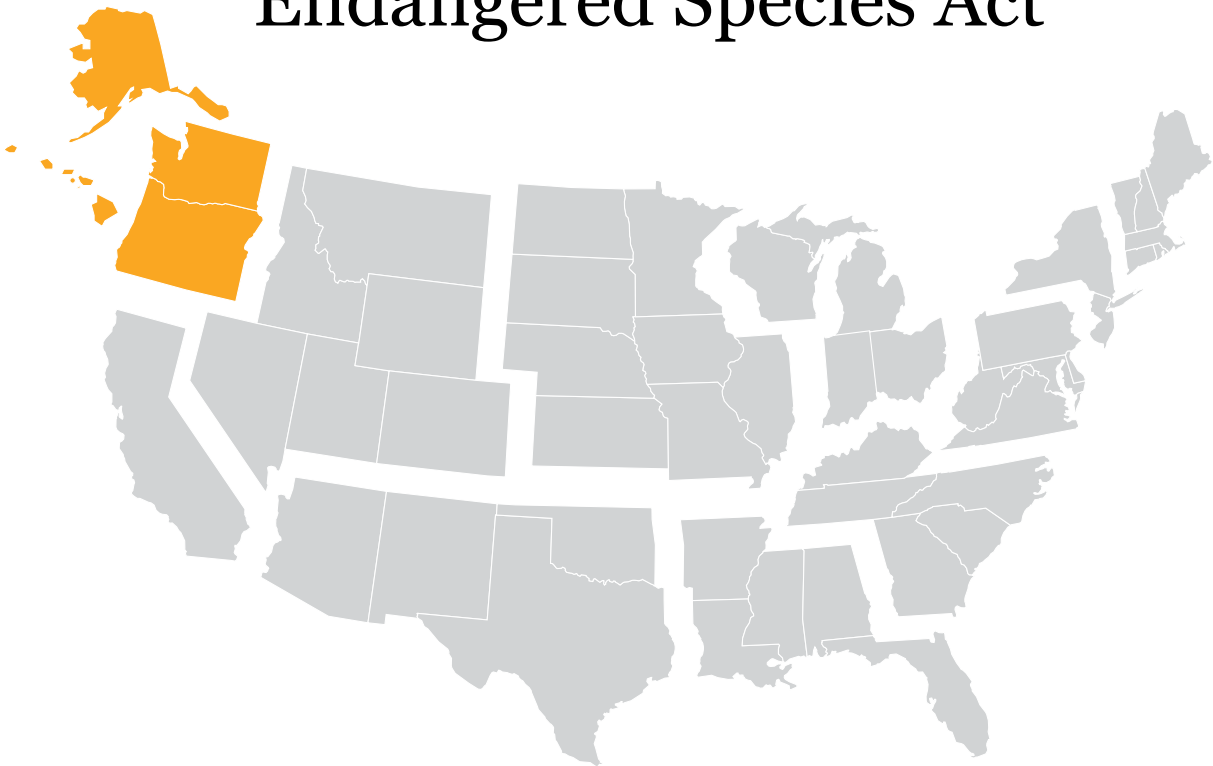


M A R C H 2 0 0 6



A Letter from Biologists
to the United States Senate
Concerning Science in the
Endangered Species Act



NORTHWEST

The Endangered Species Act is scientifically sound and its goals are important to human well-being. We should improve its performance, not reduce its protections.

Jane Lubchenco, Marine Ecologist

Valley Professor of Marine Biology and Distinguished Professor of Zoology, Oregon State University; member, National Academy of Sciences; MacArthur Fellow; past president, American Association for the Advancement of Science, Ecological Society of America, and International Council for Science

As children, small creatures endlessly fascinate us; as adults, we can protect them so as to inspire future children.

Les E. Watling, Marine Ecologist

Professor of Biological Oceanography and former director, Darling Marine Center, University of Maine; Pew Fellow in Marine Conservation; and past president, Crustacean Society

Scientists know we must protect species because they are working parts of our life-support system.

Paul Ehrlich, Entomologist, Population Biologist

Bing Professor of Population Studies and president, Center for Conservation Biology, Stanford University, California; member, National Academy of Sciences; MacArthur Fellow; and Crafoord Prize winner in Bioscience

For what DNA literacy if we have extinguished the books?

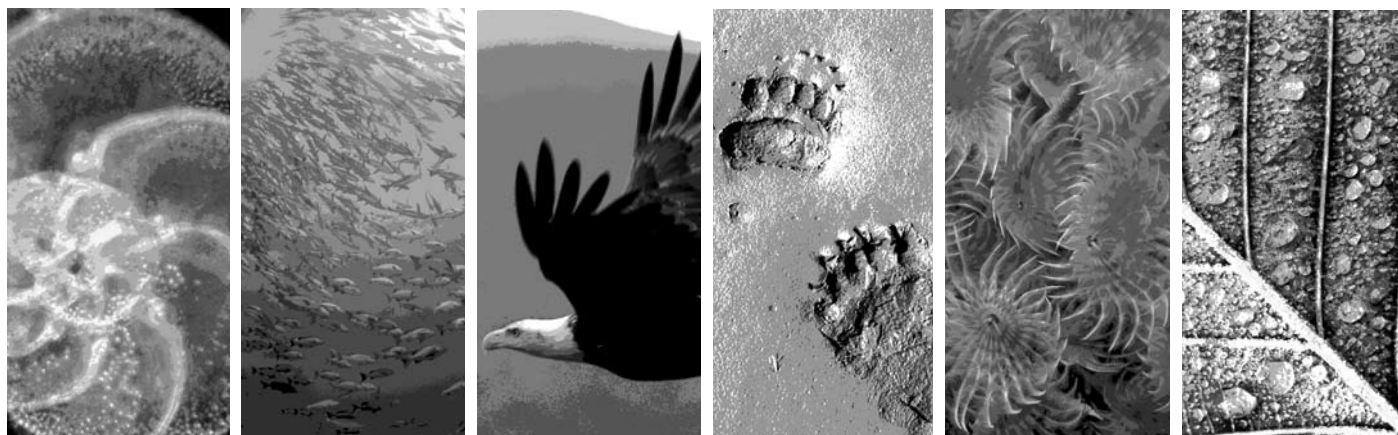
Daniel H. Janzen, Evolutionary Ecologist

Professor of Biology, University of Pennsylvania; member, National Academy of Sciences; MacArthur Fellow; and Crafoord Prize winner in Bioscience

To weaken the scientific foundation of the Endangered Species Act is to doom more species to extinction.

Walter V. Reid, Ecologist

Consulting professor, Institute for the Environment, Stanford University, California; former director, Millennium Ecosystem Assessment; and past board member, Society for Conservation Biology



A Letter from Biologists
to the United States Senate
Concerning Science in the
Endangered Species Act

M A R C H 2 0 0 6

A Letter from 5,738 Biologists to the United States Senate Concerning Science in the Endangered Species Act

Dear Senators:

WE ARE WRITING AS BIOLOGISTS WITH EXPERTISE IN A VARIETY OF SCIENTIFIC disciplines that concern biological diversity and the loss of species. With the Senate considering policies that could have long-lasting impacts on this nation's species diversity, we ask that you take into account scientific principles that are crucial to species conservation. Biological diversity provides food, fiber, medicines, clean water, and myriad other ecosystem products and services on which we depend every day. If we look only at well-studied species groups, nearly one-third of native species in the United States are at risk of disappearing.¹ Extinction is truly irreversible — once gone, individual species and all of the services that they provide us cannot be brought back.

On December 8, 1973, President Richard Nixon signed the Endangered Species Act (“ESA”) with the goal of conserving endangered and threatened species and the ecosystems on which they depend. For species that have been listed and provided protection under the ESA, much of that purpose has been achieved. According to an article in the September 30, 2005, edition of *Science*, less than one percent of listed species have gone extinct since 1973, while 10 percent of candidate species still waiting to be listed have suffered that fate. In addition to the hundreds of species that the Act has protected from extinction, listing has contributed to population increases or the stabilization of populations for at least 35 percent of listed species, and perhaps significantly more, as well as the recovery of such signature species as the peregrine falcon. While complete recovery has been realized for just two percent of species listed, given the precarious state of most species when listed, this represents significant progress.

One of the great strengths of the Endangered Species Act is its foundation in sound scientific principles and its reliance on the best available science.² Unfortunately, recent legislative proposals would critically weaken this foundation. For species conservation to continue, it is imperative both that the scientific principles embodied in the Act are maintained, and that the Act is strengthened, fully implemented, and adequately funded.

► LISTING

Objective scientific information and methods should be used in listing species, subspecies, and distinct population segments as endangered or threatened under the Act. While non-scientific factors may appropriately be considered at points later in the process of protecting species, their use in listing decisions is inconsistent with biologically defensible principles. Due to the fragile state of many of those species that require the Act's protections, the listing process needs to proceed as promptly as possible; otherwise, species will go extinct while waiting to be listed.

► HABITAT

Habitat provides the unique food, shelter, and other complex requirements that each species needs for its survival; habitat loss and degradation are the principal reasons for the decline of most species at risk. Habitat protection is essential if species are to be conserved and the goals of the ESA are to be met. The relationship between species, their habitats, and the threats they face can be exceedingly complex. Therefore, the chances of species recovery are maximized when habitat protection is based on sound scientific principles, and when the determinations of the biological needs of at-risk species are scientifically well informed.

1 From NatureServe, an international network of scientists cataloguing biological diversity.

2 The National Academy of Science's National Research Council said in its seminal 1995 report, *Science and the Endangered Species Act*: “...there has been a good match between science and the ESA...[and] the ESA is based on sound scientific principles.”

The obligation for federal agencies to consult with the appropriate wildlife agency and its biologists when federal actions could affect habitat for listed species is an indispensable provision in the ESA. It provides the means for science to inform decisions about the habitat-dependent survival and recovery of species at-risk. The designation of critical habitat places further obligations on the federal government to, among other things, protect the habitat essential to species recovery. It is far more effective, far easier, and far less expensive to protect functioning natural habitats than it is to recreate them once they are gone.

► **SCIENTIFIC TOOLS**

The current Endangered Species Act standard of “best available science” has worked well and has been flexible enough over time to accommodate evolving scientific information and practice. Failure to keep the ESA open to the use of scientific information from the best available research and monitoring, and to rely on impartial scientific experts, will contribute to delays in species recovery and to species declines and extinctions. Critical scientific information should not only include current empirical data, but also, for example, historic habitat and population information, population surveys, habitat and population modeling, and taxonomic and genetic studies. Use of scientific knowledge should not be hampered by administrative requirements that overburden or slow the Act’s implementation, or by limiting consideration of certain types of scientific information.

► **RECOVERY PLANS**

Recovery plans must be science-based documents that are developed with the input of scientists and are responsive to new information. Recovery plans must be based on the best possible information about the specific biology of each species, must identify threats to each species and address what is needed to mitigate those threats, and must predict how species are likely to respond to mitigation measures that may be adopted. To be most effective, recovery plans need to incorporate scientific principles of adaptive management, so they can be updated as new information on species and their habitats becomes available. Changes to the ESA that would delay completion of recovery plans, or provide for inflexible recovery goals that cannot be informed by new or additional scientific knowledge, should be avoided.

► **SCIENTIFIC ADVANCES AND NEW ISSUES**

The scientific community has contributed significant new information on imperiled species, their uses of habitats, and threats to those resources since the ESA was first passed into law. Serious, new, and as yet insufficiently addressed issues, such as global warming and invasive species, have emerged as primary environmental concerns that affect the fate of our native species diversity. We urge Congress to initiate thorough studies to consider the foremost problems that drive species toward extinction.

Losing species means losing the potential to solve some of humanity’s most intractable problems, including hunger and disease. The Endangered Species Act is more than just a law — it is the ultimate safety net in our life support system. As Earth has changed and as science has progressed since the Endangered Species Act was authorized in 1973, the ESA has served our nation well, largely because of its flexibility and its solid foundation in science. It is crucial to maintain these fundamental principles. The challenges of effective implementation of the Act should not be interpreted to require substantive rewriting of this valuable, well-functioning piece of legislation.

Thank you very much for taking our concerns into account. We are available to discuss any and all of the issues we have raised.

Sincerely,

5,738 Scientific Experts Concerned About Endangered Species and Their Habitats

Alaska

William S. Armbruster, Ph.D.
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Joshua J. Bacon
Biologist
Wildlife Management
North Slope Borough
Barrow, AK

Edgar P. Bailey, M.S.
Homer, AK

Alan R. Batten, M.S.
Collections Manager
Herbarium
University of Alaska Museum
of the North
Fairbanks, AK

Jennifer H. Boisvert, M.S.
Research Biologist
ABR, Inc.
Anchorage, AK

Richard D. Boone, Ph.D.
Associate Professor
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Marion S. Bret-Harte, Ph.D.
Research Assistant Professor
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Abel Bult-ito, Ph.D.
Associate Professor
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

F. S. Chapin III, Ph.D.
Professor
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

Heather Anne Coletti, M.S.
Biologist
Alaska Science Center
U.S. Geological Survey
Anchorage, AK

Anthony P. Crupi, M.S.
Juneau, AK

Frederick Dean, Ph.D.
Fairbanks, AK

George Divoky, Ph.D.
Institute of Arctic Biology
University of Alaska
Fairbanks, AK

Jerry S. Dixon, M.S.
Biologist
Science Advisory Committee
Alaska SeaLife Center
Seward, AK

Sean Farley, Ph.D.
Wildlife Biologist
Wildlife Conservation
Alaska Department of
Fish and Game
Anchorage, AK

Erich H. Follmann, Ph.D.
Professor
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

James L. Fox
Fairbanks, AK

Nancy Fresco, M.S.
Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

Elizabeth Green
Master's Candidate
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

David Gustine, M.S.
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

Lee Hammarstrom
Fisheries Biologist
Homer, AK

Derek Hildreth, M.S.
King Salmon, AK

Duane Howe, D.V.M.
Homer, AK

Falk Huettmann, Ph.D.
Assistant Professor
Department of Biology and Wildlife
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Charles B. Johnson, M.S.
Senior Scientist
Fairbanks, AK

Evan S. Kane, M.S.
Department of Forest Soils
University of Alaska, Fairbanks
Fairbanks, AK

Steve Kendall, M.A.T
Wildlife Biologist
Fairbanks, AK

David R. Klein, Ph.D.
Professor Emeritus
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Brian E. Lawhead, M.S.
Fairbanks, AK

Julie Maier, Ph.D.
Assistant Professor
Department of Science
Interior-Aleutians Campus, University
of Alaska, Fairbanks
Fairbanks, AK

Varsha Mathrani, M.P.H.
Environmental Health Coordinator
Anchorage, AK

Craig O. Matkin, M.S.
North Gulf Oceanic Society
Homer, AK

Colleen Matt, M.S.
Chief
Natural Resources
Lake Clark National Park and
Preserve
Anchorage, AK

Carol L. McIntyre, Ph.D.
Fairbanks, AK

Robert Bruce Medhurst
Master's Candidate
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

Rose Meier, Ph.D.
University of Alaska, Fairbanks
Fairbanks, AK

Brad Meiklejohn, M.S.
Alaska Representative
Eagle River, AK

Scott Meyer, M.S.
Fishery Biologist
Homer, AK

Christa Mulder, Ph.D.
Institute of Arctic Biology
Fairbanks, AK

Edward C. Murphy, Ph.D.
Professor
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

David F. Murray, Ph.D.
Museum
University of Alaska, Fairbanks
Fairbanks, AK

Lee O'Brien, M.S.
Soldotna, AK

David E. Orabutt, Jr., M.S.
Fisheries Biologist
Homer, AK

Keith Pahlke, M.S.
Fishery Biologist
Department of Fish and Game
State of Alaska
Douglas, AK

Brian T. Person, Ph.D.
Wildlife Biologist
Barrow, AK

Alex Prichard, M.S.
Research Biologist
Fairbanks, AK

Erik R. Pullman, Ph.D.
Fairbank, AK

Martha K. Reynolds, M.S.
Research Associate
Institute of Arctic Biology
University of Alaska, Fairbanks
Fairbanks, AK

Mari Reeves
U.S. Fish and Wildlife Service
Anchorage, AK

Douglas Reynolds
Anchorage, AK

Robert Joseph Ritchie, M.S.
Senior Scientist
Fairbanks, AK

Alaska

Deborah D. Rudis, M.S.

Juneau, AK

Jessica A. Ryan, M.S.

Science Writer
Geophysical Institute
University of Alaska, Fairbanks
Fairbanks, AK

Eva L. Saulitis, M.S.

Marine Biologist
North Gulf Oceanic Society
Homer, AK

John W. Schoen, Ph.D.

Senior Scientist
National Audubon Society
Anchorage, AK

Pamela Seiser, M.S.

Research Biologist
Fairbanks, AK

David Shaw

Master's Candidate
Department of Biology and Wildlife
University of Alaska, Fairbanks
Fairbanks, AK

Richard T. Shideler, M.S.

Alaska Department of Fish
and Game
Fairbanks, AK

Michael Smolen, Ph.D.

Anchorage, AK

Richard G. Steiner, M.S.

Professor
University of Alaska, Anchorage
Anchorage, AK

Paddy Sullivan, Ph.D.

Post-doctoral Fellow
Anchorage, AK

David Tallmon, Ph.D.

Assistant Professor
Department of Biology
University of Alaska, Southeast
Juneau, AK

Sherry Tamone, Ph.D.

Assistant Professor
Juneau, AK

Nancy G. Tankersley, M.S.

Anchorage, AK

Martha Tomeo, M.S.

Denali Park, AK

Claramarie M. Walker, M.S.

Watershed Specialist
Alaska Department of Fish
and Game
Kachemak Bay Research Reserve
Homer, AK

Ann Wildman, M.S.

Research Biologist
Fairbanks, AK

Sadie Wright, M.S.

Juneau, AK

Alison York, Ph.D.

Fairbanks, AK

Hawaii

Kamaui Aiona, M.S.

Director
Kahanu Garden
National Tropical Botanical Garden
Hana, HI

Shahin Ansari

Doctoral Candidate
University of Hawaii, Manoa
Honolulu, HI

Larry Basch, Ph.D.

Manoa, HI

Iliana Baums, Ph.D.

Hawaii Institute of Marine Biology
University of Hawaii
Kaneohe, HI

James Beets, Ph.D.

Department of Marine Science
University of Hawaii, Hilo
Hilo, HI

Jessica R. Berryman

Doctoral Candidate
Department of Zoology
University of Hawaii
Honolulu, HI

Charles Birkeland, Ph.D.

Department of Zoology
University of Hawaii
Honolulu, HI

Kelly S. Boyle, M.S.

Doctoral Candidate
Department of Zoology
University of Hawaii
Honolulu, HI

David A. Burney, Ph.D.

Director
Department of Conservation
National Tropical Botanical Garden
Kalaheo, HI

Lida P. Burney, M.S.

MaMakauwahi Cave Reserve
Kalaheo, HI

Linda L. Burnham Larish, M.S.

Entomologist IV
Department of Horticulture
University of Hawaii, Manoa
Hilo, HI

Megan Bushnell, Ph.D.

Department of Zoology
University of Hawaii
Honolulu, HI

Ramana Callan

Doctoral Candidate
Department of Zoology
University of Hawaii
Honolulu, HI

Lucille Caskey, M.S.

Kaneohe, HI

Carl C. Christensen, Ph.D., J.D.

Visiting Assistant Professor of Law
William S. Richardson School of Law
University of Hawaii
Honolulu, HI

Daniel Chung, Ph.D.

Kapiolani Community College
Honolulu, HI

Sheila Conant, Ph.D.

Department of Zoology
University of Hawaii, Manoa
Honolulu, HI

Susan Cordell, Ph.D.

Research Ecologist
Hilo, HI

Robert Cowie, Ph.D.

Center for Conservation
Research and Training
University of Hawaii
Honolulu, HI

Traci Erin Cox

Doctoral Candidate
Department of Botany
University of Hawaii
Honolulu, HI

Marta J. deMaintenon

Associate Professor
Doctoral Candidate
Department of Marine Science
University of Hawaii, Hilo
Hilo, HI

Donald Drake, Ph.D.

Department of Botany
University of Hawaii
Honolulu, HI

Kristin Duin, M.S.

Sustainable Resources Group
International, Inc.
Honolulu, HI

Stephanie Dunbar, Ph.D.

Department of Botany
University of Hawaii
Honolulu, HI

Matt Dunlap, M.S.

Doctoral Candidate
Honolulu, HI

Heather Eijzenga

Doctoral Candidate
Department of Botany
University of Hawaii
Honolulu, HI

Anuschka Faucci, M.S.

Department of Zoology
University of Hawaii
Honolulu, HI

Erin Foley

Master's Candidate
Department of Conservation
National Tropical Botanical Garden
Kalaheo, HI

Jose M.V. Fragoso, Ph.D.

Department of Botany
University of Hawaii
Honolulu, HI

Roland D. Frayne, M.S.

Department of Biology
University Of Hawaii, Hilo
Hilo, HI

Holly B. Freifeld, Ph.D.

Honolulu, HI

Danielle S. Frohlich, M.S.

Honolulu, HI

Karen Frutchey, M.S.

Honolulu, HI

Katie A. Gaut, M.S.

Department of Tropical Conservation
Biology and Environmental Science
University of Hawaii, Hilo
Honokaa, HI

Michael G. Hadfield, Ph.D.

Professor & Director
Kewalo Marine Laboratory
University of Hawaii
Honolulu, HI

Alex Handler, M.S.

Honolulu, HI

Louis M. Herman, Ph.D.

Professor
The Dolphin Institute
Honolulu, HI

Aurora K. Kagawa

Master's Candidate
Department of Botany
University of Hawaii
Honolulu, HI

Kenneth Y. Kaneshiro, Ph.D.

Honolulu, HI

Sterling C. Keeley, Ph.D.

Professor
Department of Botany
University of Hawaii
Honolulu, HI

Fred Kraus, Ph.D.

Department of Natural Sciences
Bishop Museum
Honolulu, HI

Creighton McMaster Litton, Ph.D.

Hilo, HI

David Lorence, Ph.D.

Director of Science
National Tropical Botanical Garden
Kalaheo, HI

Darren Marshall

Honolulu, HI

Blake D. McNaughton, M.S.

University of Hawaii
Kamuela, HI

Steven L. Montgomery, Ph.D.

Hawaiians for the Conservation
of Native Ecosystems
Honolulu, HI

Cam Muir, Ph.D.

Assistant Professor
Department of Biology
University of Hawaii
Hilo, HI

Rebecca Ostertag, Ph.D.

Assistant Professor
Department of Biology
University of Hawaii
Hilo, HI

Michael Parke, Ph.D.

Research Biologist and Natural
Resource Manager
Honolulu, HI

Hawaii

Diane Ragone, Ph.D.

Director
Breadfruit Institute
National Tropical Botanical Garden
Kalaheo, HI

Daniel Rubinoff, Ph.D.

Professor
Department of Plant and
Environmental Protection Sciences
University of Hawaii
Honolulu, HI

Jennifer K. Schultz

Doctoral Candidate
Department of Zoology
University of Hawaii
Honolulu, HI

Aaron Shiels, M.S.

Honolulu, HI

Craig R. Smith, Ph.D.

Professor
Department of Oceanography
University of Hawaii
Honolulu, HI

Steven K. Souder, M.S.

College of Arts and Sciences
University of Hawaii, Hilo
Hilo, HI

Heather Spalding, M.S.

Doctoral Candidate
Department of Botany
University of Hawaii
Honolulu, HI

Yonat B. Swimmer, Ph.D.

Fisheries Biologist
National Oceanic and Atmospheric
Administration
Honolulu, HI

Andrew D. Taylor, Ph.D.

Associate Professor
Department of Zoology
University of Hawaii
Honolulu, HI

Jarrold Thaxton, Ph.D.

Post-doctoral Ecologist
Institute of Pacific Islands Forestry
Hilo, HI

Kimberly Tice

Doctoral Candidate
Department of Zoology
University of Hawaii
Honolulu, HI

Alea Trafton, M.S.

Monitoring Program Manager
Department of Botany
Pacific Cooperative Studies Unit,
Hawaii
Wahiawa, HI

Eric VanderWerf, Ph.D.

Honolulu, HI

Mashuri Waite

Doctoral Candidate
Honolulu, HI

Alan White, Ph.D.

Coastal Resource Manager
Tetra Tech EM, Inc.
Honolulu, HI

Chaminda Wijesundara, Ph.D.

Department of Zoology
University of Hawaii
Honolulu, HI

Mindy Wilkinson, Ph.D.

Honolulu, HI

Scott Williamson, M.S.

Kaneohe, HI

Kawika Winter, M.S.

Director
Limahuli Garden and Preserve
National Tropical Botanical Garden
Hanalei, HI

Michael L. Wysong, M.S.

Botanist
Kalaupapa, HI

Jeff F. Zimpfer, Ph.D.

Nonpoint Pollution Extension Agent
Sea Grant College Program
University of Hawaii
Hilo, HI

Oregon

Jean Adamson, Ph.D.

Albany, OR

David B. Alexander, Ph.D.

Associate Professor
Department of Biology
University of Portland
Portland, OR

Warren W. Aney, M.A.

Tigard, OR

Jerry E. Asher

Lincoln City, OR

Suzanne Austin-Bythell

Master's Candidate
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Dominique M. Bachelet, Ph.D.

Department of Biological and
Ecological Engineering
Oregon State University
Corvallis, OR

Elizabeth A. Bancroft

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Jeff B. Barna, M.A.

Research Biologist
Forest Grove, OR

Ursula Bechert, Ph.D., D.V.M.

College of Science
Oregon State University
Corvallis, OR

Jason Bennett, M.S.

Department of Zoology
Oregon State University
Corvallis, OR

Robert L. Beschta, Ph.D.

Professor Emeritus
Corvallis, OR

Greta Binford, Ph.D.

Assistant Professor
Department of Biology
Lewis and Clark College
Portland, OR

Cecily Bishop

Master's Candidate
Corvallis, OR

Elizabeth T. Borer, Ph.D.

Assistant Professor
Oregon State University
Corvallis, OR

Michael S. Bornstein, M.A.

Biologist
Department of Wildlife
Bureau of Land Management
Rogue River, OR

Arthur J. Boucot, Ph.D.

Professor
Department of Zoology
Oregon State University
Corvallis, OR

Cat Brown, M.S.

Biologist
U.S. Fish and Wildlife Service
Portland, OR

Philip Brownell, Ph.D.

Professor
Department of Zoology
Oregon State University
Corvallis, OR

Rebecca Cameron

Master's Candidate
College of Forestry
Oregon State University
Corvallis, OR

John W. Chapman, Ph.D.

Research Associate
Department of Fisheries and Wildlife
Hatfield Marine Science Center
Oregon State University
Newport, OR

Bruce E. Coblentz, Ph.D.

Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Pamela Comeleo, M.S.

Corvallis, OR

Randy Comeleo, M.S.

Corvallis, OR

Barry J. Cooper, Ph.D.

Professor
Department of Biomedical Sciences
Oregon State University
Corvallis, OR

Anthony D'Andrea, Ph.D.

Assistant Professor
College of Oceanic and
Atmospheric Sciences
Oregon State University
Corvallis, OR

Gregg Dart, M.S.

Owner
Totally Creative Concepts
Salem, OR

Ian Davidson, Ph.D.

Department of Environmental
Sciences and Resources
Portland State University
Portland, OR

Sandra DeBano, Ph.D.

Assistant Professor
Department of Fisheries and Wildlife
Oregon State University
Hermiston, OR

Dominick DellaSala, Ph.D.

Director
World Wildlife Fund
Ashland, OR

Catherine E. deRivera, Ph.D.

Portland, OR

Julie R. Deslippe, Ph.D.

Department of Forest Science
Oregon State University
Corvallis, OR

David S. Dobkin, Ph.D.

Executive Director
High Desert Ecological
Research Institute
Bend, OR

Robin I. Dobson, Ph.D.

Ecologist
Hood River, OR

Raymond J. Drapek, Ph.D.

Department of Entomology
Oregon State University
Corvallis, OR

Bruce Dugger, Ph.D.

Corvallis, OR

Katie M. Dugger, Ph.D.

Assistant Research Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

John F. Elder, Ph.D.

Retired
U.S. Geological Survey
Corvallis, OR

Elise S. Elliott-Smith, M.S.

Corvallis, OR

Suzanne Estes, Ph.D.

Assistant Professor
Department of Biology
Portland State University
Portland, OR

Debra Finn, Ph.D.

Post-doctoral Associate
Department of Zoology
Oregon State University
Corvallis, OR

Mark Fishbein, Ph.D.

Assistant Professor
Department of Biology
Portland State University
Portland, OR

Barbara Fleegeer, M.S.

Department of Biology
Southern Oregon University
Ashland, OR

M. Jesse Ford, Ph.D.

Associate Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Jeffrey K. Fryer, Ph.D.

Fisheries Scientist
Portland, OR

David W. Fuller, Ph.D.

Brookings, OR

Brett Gallagher, M.S.

Graduate Researcher
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Susan Geer, M.S.

La Grande, OR

Anne DuPont Guerry, M.S.

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Barbara Han

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Marilyn M. Harlin, Ph.D.

Professor Emerita
Department of Biological Sciences
University of Rhode Island
Portland, OR

Oregon

Rebecca Hartley, Ph.D.

Portland, OR

Sara Heimlich, M.S.

Vents Program
National Oceanic and
Atmospheric Administration
Hatfield Marine Science Center
Newport, OR

Scott Heppell, Ph.D.

Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Selina S. Heppell, Ph.D.

Assistant Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Mark A. Hixon, Ph.D.

Professor
Department of Zoology
Oregon State University
Corvallis, OR

Timothy Lee Hoffnagle, Ph.D.

Research Biologist
La Grande, OR

Jennifer Holt

Idleyld Park, OR

C. W. Hooker, Ph.D.

Portland, OR

Lynne D. Houck, Ph.D.

Corvallis, OR

Vanessa Howard

Master's Candidate
Portland, OR

Robert M. Hughes, Ph.D.

Research Associate Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Frank B. Isaacs, M.S.

Oregon State University
Philomath, OR

Carl L. Johannessen, Ph.D.

Professor Emeritus
Department of Geography
University of Oregon
Eugene, OR

Bart R. Johnson, Ph.D.

Associate Professor
Department of Landscape
Architecture and
Environmental Studies
University of Oregon
Eugene, OR

Elaine Johnson, D.Sc.

Oregon Health and
Sciences University
Portland, OR

Nathan Johnson

Master's Candidate
Corvallis, OR

Cynthia V. Jones, M.S.

MWH
Portland, OR

Alan Kanaskie, M.F.

Forest Pathologist
Salem, OR

Thomas Kaye, Ph.D.

Executive Director
Institute for Applied Ecology
Corvallis, OR

Julie Keister, M.S.

College of Oceanic and
Atmospheric Sciences
Oregon State University
Corvallis, OR

Patricia L. Kennedy, Ph.D.

Professor
Eastern Oregon Agricultural
Research Center
Oregon State University
Union, OR

Susan R. Kephart, Ph.D.

Professor of Biology
Department of Biology
Willamette University
Salem, OR

Dylan Kesler, Ph.D.

Corvallis, OR

Diana Kimberling, Ph.D.

Salem, OR

Clair Klock

Klock Farm
Corbett, OR

Matt R. Kluber

Master's Candidate
Department of Forest Science
Oregon State University
Corvallis, OR

Steven Kolmes, Ph.D.

Molter Chair in Science
Department of Environmental
Studies and Resources
University of Portland
Portland, OR

Marni E. Koopman, Ph.D.

Corvallis, OR

Christopher Krenz

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Kathryn Lacy, M.S.

Department of Science
Lane Community College
Eugene, OR

Henry R. LaVigne, M.S.

Fisheries Biologist
Corvallis, OR

Joshua Lawler, Ph.D.

Department of Zoology
Oregon State University
Corvallis, OR

Pamela Lein, Ph.D.

Associate Professor
Center for Research on Occupational
and Environmental Toxicology
Oregon Health and Science
University
Portland, OR

Hiram W. Li, Ph.D.

Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Joseph R. Liebezeit, M.S.

Associate Conservation Biologist
North America Program
Wildlife Conservation Society
Portland, OR

Patrick Lieske, M.S.

Biological Science Technician
Brookings, OR

Michael Litt, Ph.D.

Department of Molecular and
Medical Genetics
Oregon Health and Science
University
Portland, OR

John D. Lloyd, Ph. D.

Senior Research Ecologist
Ecostudies Institute
Estacada, OR

Krista Longnecker, Ph.D.

Corvallis, OR

Jens Lovtang, M.S.

Fisheries Biologist
Warm Springs, OR

Jane Lubchenco, Ph.D.

Distinguished Professor
Department of Zoology
Oregon State University
Corvallis, OR

David Lytle, Ph.D.

Assistant Professor
Department of Zoology
Oregon State University
Corvallis, OR

Todd Mabee, M.S.

Forest Grove, OR

Marion Mann

Fisheries Biologist
Master's Candidate
Newport, OR

Tom Manning, M.S.

Senior Faculty Research Assistant
Department of Forest Science
Oregon State University
Corvallis, OR

Douglas Markle, Ph.D.

Professor
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Christopher J. Marshall, Ph.D.

Collection Manager and
Assistant Curator
Department of Zoology
Oregon State University
Corvallis, OR

Robert T. Mason, Ph.D.

Professor and Chair
Department of Zoology and Biology
Oregon State University
Corvallis, OR

Greg Mazer, M.S.

Senior Ecologist
Adolfson Associates, Inc.
Portland, OR

Karen McLeod, Ph.D.

Department of Zoology
Oregon State University
Corvallis, OR

Oregon

Jennifer Meisel

Master's Candidate
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Wes Messinger, M.S.

Botanist
Junction City, OR

Anne M. Millhollen, Ph.D.

Eugene, OR

Fred R. Monzyk, M.S.

Department of Fish and Wildlife
Eastern Oregon University
La Grande, OR

Melanie Moon, M.S.

Portland, OR

Randal P. Moore, Ph.D.

Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Janet C. Morlan, M.S.

Corvallis, OR

Susan K. Morre, M.S.

Doctoral Candidate
Department of Forest Resources
Oregon State University
Corvallis, OR

Michael T. Murphy, Ph.D.

Associate Professor
Department of Biology
Portland State University
Portland, OR

Michael P. Murray, Ph.D.

Wildlands Management Institute
Crater Lake, OR

Jamie Nelson

Master's Candidate
Oregon State University
Corvallis, OR

Lusetta Nelson

Master's Candidate
Department of Biology
Southern Oregon University
Medford, OR

Holly Ober, M.S.

Oregon State University
Corvallis, OR

Mary H. O'Brien, Ph.D.

Botanist
Grand Canyon Trust
Eugene, OR

David Oline, Ph.D.

Department of Biology
Southern Oregon University
Ashland, OR

Gail S. Olson, Ph.D.

Research Assistant Professor
Department of Fisheries and
Wildlife Biology
Oregon State University
Corvallis, OR

Kathleen O'Reilly, Ph.D.

Associate Professor
Department of Biology
University of Portland
Portland, OR

Matthew R. Orr, Ph.D.

Department of Biology
University of Oregon
Bend, OR

Jeremiah Osborne-Gowey, M.S.

Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Christine Oswald, Ph.D.

Professor
Department of Biology
Southern Oregon University
Ashland, OR

Michael S. Parker, Ph.D.

Professor
Department of Biology
Southern Oregon University
Ashland, OR

John Patterson, M.S.

Astoria, OR

Leonard Paur, M.S.

Wildlife Biologist
Union, OR

William G. Percy, Ph.D.

Professor Emeritus
Department of Oceanography
Oregon State University
Corvallis, OR

Christine Perala, Ph.D.

Department of Education
Portland State University
Portland, OR

Laura Petes

Doctoral Candidate
Corvallis, OR

Mary Pfauth, Ph.D.

Botanist
Department of Environmental
Sciences and Resources
Portland State University
Portland, OR

Jonathan H. Plissner, Ph.D.

Alaska Biological Research, Inc.
Forest Grove, OR

David Pribnow, Ph.D.

Portland, OR

Janice Reid

Wildlife Biologist
Roseburg, OR

Alyssa Reischauer, M.S.

Research Fisheries Biologist
La Grande, OR

Robert Renden, Ph.D.

Portland, OR

Luis A. Ruedas, Ph.D.

Assistant Professor
Department of Biology
Portland State University
Portland, OR

James Ruzycki, Ph.D.

Fish and Wildlife Biologist
La Grande, OR

Thalia Sachtleben, M.S.

Biologist and Managing Editor
Bend, OR

Peter M. Sanzenbacher, M.S.

Forest Grove, OR

Erin A. Scheessele

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Dennis Schultz, Ph.D.

Portland, OR

Stewart T. Schultz, Ph.D.

Professor
Department of Biology
University of Zadar
Zadar, OR

Eric Seabloom, Ph.D.

Department of Zoology
Oregon State University
Corvallis, OR

Tania Siemens, M.S.

Biologist
Eugene, OR

Christina Simkanin, M.S.

Portland State University
Portland, OR

Michael D. Snow, Ph.D.

Tyson Distinguished Professor
Department of Biology
University of Portland
Portland, OR

John D. Sollinger, Ph.D.

Ashland, OR

Allen M. Solomon, Ph.D.

Corvallis, OR

Franklin W. Stahl, Ph.D.

Department of Biology
University of Oregon
Eugene, OR

Mitchell B. Stargrove, M.D.

Beaverton, OR

Christine Steele, M.S.

Portland, OR

Trygve Steen, Ph.D.

Professor
Department of Environmental
Sciences and Resources
Portland State University
Portland, OR

Jeffrey K. Stone, Ph.D.

Professor
Department of Botany
and Plant Pathology
Oregon State University
Corvallis, OR

Karen Stone, Ph.D.

Associate Professor
Department of Biology
Southern Oregon University
Ashland, OR

Fredrick Stormshak, Ph.D.

Distinguished Professor
Oregon State University
Corvallis, OR

Tammy L. Stout, M.S.

Wetland Specialist
Portland, OR

Steven H. Strauss, Ph.D.

Professor
Corvallis, OR

Oregon

Edward W. Styskel

Wildlife Biologist
Bend, OR

James K. Swingle, M.S.

Wildlife Biologist
Department of Fisheries and Wildlife
Oregon State University
Corvallis, OR

Lisa Sztukowski

Portland, OR

Robert V. Taylor, Ph.D.

Enterprise, OR

William M. Thwaites, Ph.D.

Professor Emeritus
Department of Biology
San Diego State University
Tillamook, OR

Paula Tower, Ph.D.

Department of Biology
University of Portland
Portland, OR

Wade A. Trindle

Wildlife Technician
Oregon State University
Coos Bay, OR

Vicki Tripoli, Ph.D.

Ashland, OR

Randy Tweten, M.S.

La Grande, OR

Joe Tyburczy

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

JoAnne VanDatta, M.S.

Eugene, OR

Richard L. Westcott, M.S.

Retired
Salem, OR

Cindy Deacon Williams, M.S.

Medford, OR

Jack E. Williams, Ph.D.

Chief Scientist
Trout Unlimited
Medford, OR

Herbert P. Wisner, M.A.

Senior Instructor Emeritus
Department of Biology
University of Oregon
Eugene, OR

Jay Withgott, M.S.

Benjamin Cummings
Textbook Company
Portland, OR

William R. Wofford, M.S.

Roseburg, OR

Elisha Wood-Charlson

Doctoral Candidate
Corvallis, OR

Asako Yamamuro

Doctoral Candidate
Department of Zoology
Oregon State University
Corvallis, OR

Nancy L. Young, Ph. D.

Portland, OR

Steve Zack, Ph.D.

Conservation Scientist
Department of Pacific West
Wildlife Conservation Society
Portland, OR

Marnie Jo Zirbel, M.S.

Faculty Research Assistant
College of Oceanic and
Atmospheric Sciences
Oregon State University
Corvallis, OR

Stephen Zylstra, Ph.D.

Research Manager
Corvallis, OR

Washington

Simone Alin, Ph.D.

Research Associate
School of Oceanography
University of Washington
Seattle, WA

Brady M. Allen, M.S.

Fisheries Biologist
Department of the Interior
Cook, WA

Ethan Allen, Ph.D.

Manager of Education and Outreach
Center for Nanotechnology
University of Washington
Seattle, WA

Ernesto Alvarado, Ph. D.

Senior Research Scientist
College of Forest Resources
University of Washington
Seattle, WA

James Arrigoni, M.S.

Biologist
Department of Natural Resources
The Tulalip Tribes of Washington
Tulalip, WA

Jeffrey Azerrad, M.S.

Wildlife Biologist
Washington Department
of Fish and Wildlife
Vancouver, WA

David Bain, Ph.D.

Friday Harbor Laboratories
University of Washington
Friday Harbor, WA

Kathy Barker, Ph.D.

Microbiologist
Seattle, WA

Dana L. Base, M.S.

Associate Wildlife Biologist
Colville, WA

P. Dee Boersma, Ph.D.

Wadsworth Endowed Chair
in Conservation Science
Department of Biology
University of Washington
Seattle, WA

Mark Bolke, M.S.

Professor
Department of Biology
Clark College
Vancouver, WA

David L. Boose, Ph.D.

Associate Professor
Department of Biology
Gonzaga University
Spokane, WA

Amanda Bradford, M.S.

Doctoral Candidate
Seattle, WA

Kristy Brady

Master's Candidate
Department of Biology
University of Washington
Seattle, WA

Michael T. Brett, Ph.D.

Associate Professor
Department of Civil and
Environmental Engineering
University of Washington
Seattle, WA

Julian Burgos, M.S.

Doctoral Candidate
University of Washington
Seattle, WA

Shallin Busch, Ph.D.

University of Washington
Seattle, WA

Susanne Canwell, M.S.

Doctoral Candidate
Department of Natural
and Environmental Science
Washington State University
Pullman, WA

Tomas A. Carlo, Ph.D.

Department of Biology
University of Washington
Seattle, WA

Matthew Carr, Ph.D.

Department of Atmospheric Sciences
University of Washington
Seattle, WA

Kelly M. Cassidy, Ph.D.

Curator
Vertebrate Museum
School of Biological Sciences
Washington State University
Pullman, WA

Paul Cereghino, M.S.

Seattle, WA

Jina Chan, M.S.

Seattle, WA

Christopher Chappell, M.S.

Vegetation Ecologist
Washington Natural
Heritage Program
Washington Department
of Natural Resources
Olympia, WA

Carol Cloen, M.S.

Aquatic Resources Program
Washington Department of Natural
Resources
Olympia, WA

Julie K. Combs

Doctoral Candidate
College of Forest Resources
University of Washington
Seattle, WA

Sarah Spear Cooke, Ph.D.

Cooke Scientific, Inc.
Seattle, WA

Michael J. Crewson, M.S.

Fisheries Enhancement Biologist
Seattle, WA

Amy Crosby, M.S.

Mountlake Terrace, WA

Alison Cross, Ph.D.

Research Assistant
Department of Aquatic
and Fishery Sciences
University of Washington
Seattle, WA

Kenneth Currens, Ph.D.

Section of Genetics and Ecology
Northwest Indian Fisheries
Commission
Olympia, WA

Zora DeGrandpre, M.S.

Vancouver, WA

Kevin J. Delaney, Ph.D.

Visiting Assistant Professor
Department of Biology
University of Washington
Seattle, WA

Danica D'Emilio, M.S.

Ornithologist
Seattle, WA

John L. Dentler, M.S., J.D.

Attorney
John L. Dentler, P.L.L.C.
Gig Harbor, WA

Steven M. Desimone, M.S.

Wildlife Biologist
Diversity Division
Washington Department
of Fish and Wildlife
Olympia, WA

Heidi E.M. Dobson, Ph.D.

Associate Professor
Department of Biology
Whitman College
Walla Walla, WA

Jeffrey Duda, M.S.

Research Ecologist
Western Fisheries Research Center
U.S. Geological Survey
Seattle, WA

L. Lee Eberhardt, Ph.D.

Retired Staff Scientist
Kennick, WA

Mark Egger, M.S.

Research Associate
Burke Museum
University of Washington
Seattle, WA

Claire E. Egtvedt

Seafood Scientist (Retired)
Northwest Seafood Industry
Mukilteo, WA

Erin Ellis

Master's Candidate
Department of Oceanography
University of Washington
Seattle, WA

Richard L. Ellison, M.S.

Adjunct Professor
Department of Biology
Shoreline Community College
Seattle, WA

John M. Emlen, Ph.D.

Research Ecologist (Retired)
Federal Way, WA

Kristina A. Ernest, Ph.D.

Associate Professor
Department of Biological Sciences
Central Washington University
Ellensburg, WA

James R. Evans, M.S.

Plant Ecologist
Seattle, WA

Laura Fandino, J.D., Ph.D.

Seattle, WA

Washington

Anne Fiala, M.S.

The Evergreen State College
Olympia, WA

Jeffrey Fisher, Ph.D.

Senior Scientist
Entrix, Inc., Environmental Sciences
Olympia, WA

William C. Fleece, M.S.

Project Aquatic Ecologist
Olympia, WA

Jeffrey R. Foster, Ph.D.

Olympia, WA

Tessa Francis

Doctoral Candidate
Seattle, WA

Rachel Friedman, M.S.

Fisheries Biologist
Lacey, WA

Brian Fritz, Ph.D.

Seattle, WA

Jonathan D. Frodge, Ph.D.

Senior Limnologist
Department of Natural Resources
King County
Seattle, WA

Cyn Gabriel

Steward
Seattle, WA

Terri L. Gilbert, Ph.D.

Seattle, WA

Bob Gillespie, Ph.D.

Science Faculty
Department of Science
Wenatchee Valley College
Omak, WA

Todd Goodsell

Seattle, WA

Suzanne E. Graham, Ph.D.

Department of Biology
University of Washington
Seattle, WA

Eli Gurarie, M.S.

Department of Quantitative Ecology
and Resource Management
University of Washington
Seattle, WA

Richard Gwozdz, M.S.

Bellingham, WA

Erin Hagen

Doctoral Candidate
College of Forest Resources
University of Washington
Seattle, WA

James Hallett, Ph.D.

Turnbull Laboratory for
Ecological Studies
Eastern Washington University
Cheney, WA

Charles B. Halpern, Ph.D.

Research Professor
Department of Forest Resources
University of Washington
Seattle, WA

Michael C. Hayes, M.S.

Seattle, WA

Steven G. Herman, Ph.D.

Department of Biology
The Evergreen State College
Olympia, WA

Dale R. Herter, M.S.

Wildlife Biologist
Seattle, WA

Philip Higuera, Ph.D.

Department of Forestry
University of Washington
Seattle, WA

Amy Hill, M.S.

Aquatic Ecologist
Aquatic Group
North Cascades National Park
Sedro Woolley, WA

Thomas Hinckley, Ph.D.

Professor
Department of Forest Resources
University of Washington
Seattle, WA

Jennifer Hoffman, Ph.D.

Seattle, WA

Melisa L. Holman, M.S.

Ecologist
The Nature Conservancy
Mount Vernon, WA

Debora R. Holmes, M.S.

Olympia, WA

Kirstin K. Holsman

Doctoral Candidate
School of Aquatic and Fishery
Sciences
University of Washington
Seattle, WA

Claire Horner-Devine, Ph.D.

Seattle, WA

Catherine E. Hovanic, M.S.

Administrator
Washington Native Plant Society
Seattle, WA

Jonathan F. Hughes, Ph.D.

Research Ecologist
U.S. Geological Survey
Seattle, WA

Karen E. James, Ph.D.

Department of Botany
The Natural History Museum,
London
Seattle, WA

Linda Jennings, M.S.

Collections Manager
Department of Botany
University of British Columbia
Point Roberts, WA

Virginia Jin, Ph.D.

Savannah River Ecology Laboratory
University of Georgia
Pullman, WA

James R. Karr, Ph.D.

Professor
Department of Aquatic Sciences
University of Washington
Seattle, WA

William Kaufman, Ph.D.

Woodinville, WA

Gina King, M.S.

Spotted Owl Project Leader
Department of Wildlife
Yakama Nation
Yakima, WA

Eugene Kridler

Endangered Species Coordinator
(Retired)
Hawaii and Central and West Pacific
Islands
Sequim, WA

Michael R. Kroeger

Master's Candidate
College of Forest Resources
University of Washington
Bremerton, WA

Cheryl Krone, Ph.D.

Applied Research Institute
Renton, WA

William Kunin, Ph.D.

Seattle, WA

Michael Kyte, M.S.

Seattle, WA

Theodore R. Labbe, M.S.

Kingston, WA

Charles C. Lambert, Ph.D.

Professor Emeritus
Friday Harbor Laboratories
University of Washington
Friday Harbor, WA

Gretchen Lambert, M.S.

Marine Biologist Consultant
Friday Harbor Laboratories
University of Washington
Friday Harbor, WA

Dina N. Lauman, M.S.

Department of Molecular
and Cellular Biology
University of Washington
Seattle, WA

Heather Leahy-Mack, M.S.

Department of Biology
Skagit Valley College
Oak Harbor, WA

John F. Lehmkuhl, Ph.D.

Wenatchee, WA

Carri J. LeRoy, Ph.D.

Graduate Program
in Environmental Studies
The Evergreen State College
Olympia, WA

Mary Linders, M.S.

Olympia, WA

Dick Logan, Ph.D.

Lead
Department of Ecology
Natural Resource Damage
Assessment
State of Washington
Olympia, WA

John Longino, Ph.D.

Member of the Faculty
The Evergreen State College
Olympia, WA

Scott Luchessa, M.S.

Certified Ecologist
Ecological Solutions, Inc.
Seattle, WA

Sherry Luke, M.S.

Sherry Luke Consulting
Cle Elum, WA

Washington

David A. Manuwal, Ph.D.

Professor
College of Forest Resources
University of Washington
Seattle, WA

John M. Marzluff, Ph.D.

Department of Forest Resources
University of Washington
Seattle, WA

Phil Mattocks, Ph.D.

Associate Professor
Department of Biology
Heritage University
Toppenish, WA

Kathryn McDonald

Doctoral Candidate
Department of Biology
University of Washington
Friday Harbor, WA

Patrick S. McDonald

Doctoral Candidate
School of Aquatic
and Fishery Sciences
University of Washington
Seattle, WA

Joan McGilton, M.S.

Council Member
Department of Engineering
University of Washington
Seattle, WA

Melissa McKay, M.S.

Seattle, WA

Don McKenzie, Ph.D.

University of Washington
Seattle, WA

Jack McMillen, Ph.D.

Database Manager
Natural Heritage Program
Department of Natural Resources
State of Washington
Olympia, WA

Kate McWigins

Cooke Scientific, Inc.
Issaquah, WA

Steven Minta, Ph.D.

Ecological Consultant
Port Townsend, WA

Peter H. Morrison, M.S.

Executive Director
Pacific Biodiversity Institute
Winthrop, WA

Thomas F. Mumford, Ph.D.

Olympia, WA

Ryan Norris, Ph.D.

Department of Forest Sciences
University of British Columbia
Vancouver, WA

Elliot Norse, Ph.D.

President
Marine Conservation
Biology Institute
Bellevue, WA

Mark Nuetzmann, M.S.

Wildlife Biologist
Toppenish, WA

Sara O'Brien, Ph.D.

Department of Zoology
University of Washington
Seattle, WA

Richard R. Old, Ph.D.

CEO
XID Services, Inc.
Pullman, WA

Richard Olmstead, Ph.D.

Professor and Herbarium Curator
Department of Biology
University of Washington
Seattle, WA

Gordon Orians, Ph.D.

Professor Emeritus
University of Washington
Seattle, WA

Fernanda X. Oyarzun

Doctoral Candidate
Department of Biology
University of Washington
Seattle, WA

Luke Painter, M.S.

Cooke Scientific, Inc.
Olympia, WA

Jenifer Parsons, M.S.

Aquatic Plant Specialist
Yakima, WA

Amberlynn Pauley, M.S.

Department of Forest Resources
University of Washington
Seattle, WA

Dennis Paulson, Ph.D.

Slater Museum of Natural History
University of Puget Sound
Tacoma, WA

John Payne, Ph.D.

National Oceanic and
Atmospheric Administration
Seattle, WA

Laura Payne, Ph.D.

Associate Research Scientist
Seattle, WA

Margarita F. Perez, M.S.

Biologist
Natural Resources
Stillaguamish Tribe
Arlington, WA

Kathleen Perillo, M.S.

Department of Biology
Clark College
Vancouver, WA

Christina R. Pince

Doctoral Candidate
Department of Biology
University of Washington
Seattle, WA

Michael Pollock, Ph.D.

Ecosystems Analyst
U.S. Department of Commerce
Seattle, WA

Robert M. Pyle, Ph.D.

Biologist
Gray's River, WA

Ronald L. Rathburn, M.S.

Senior Ecologist
Vancouver, WA

Sarah Reichard, Ph.D.

Associate Professor
University of Washington
Seattle, WA

Sonya Remington, M.S.

School of Oceanography
University of Washington
Seattle, WA

Gregory S. Reub, M.S.

Senior Fisheries Biologist
Olympia, WA

Fred M. Rhoades, Ph.D.

Department of Biology
Western Washington University
Bellingham, WA

Joel Rice, M.S.

Department of Quantitative Ecology
and Resource Management
University of Washington
Seattle, WA

Klaus O. Richter, Ph.D.

Senior Ecologist
Department of Natural
Resources and Parks
King County
Seattle, WA

Vicky Ridge-Cooney, Ph.D.

Battle Ground, WA

Sharon Rodman, M.S.

Kirkland, WA

Elizabeth Rodrick, M.S.

Land Conservation Manager
Olympia, WA

Robert Rodstrom, M.S.

Department of Entomology
Washington State University
Pullman, WA

Haldre Rogers

Doctoral Candidate
Department of Biology
University of Washington
Seattle, WA

Sievert Rohwer, Ph.D.

Professor
Department of Biology
University of Washington
Seattle, WA

Jennifer Li Ruesink, Ph.D.

Associate Professor
Department of Biology
University of Washington
Seattle, WA

Anne Salomon

Master's Candidate
Department of Biology
University of Washington
Seattle, WA

Christina L. Sato, M.S.

Conservation Biologist
Olympia, WA

Carl R. Schilt, M.S.

Senior Biologist
LGL, Ltd.
North Bonneville, WA

Lisa A. Schonberg, M.S.

Environmental Studies Program
The Evergreen State College
Olympia, WA

Washington

Bronwyn Scott, M.S.

Instructor
Department of Life Science
Bellevue Community College
Bellevue, WA

Jennifer Sevigny, M.S.

Senior Wildlife Biologist
Department of Natural Resources
Stillaguamish Tribe
Arlington, WA

Michael Sevigny, M.S.

Wildlife Manager
Marysville, WA

Jason K. Shappart

Fisheries Scientist
Seattle, WA

Dyanne Sheldon, M.S.

Principal
Seattle, WA

Jill A. Silver

Watershed Program Manager
10,000 Years Institute
Port Townsend, WA

Brandon Staub, M.S.

Institute of Ecology
University of Georgia
Spokane, WA

Pat W. Stevenson, M.S.

Environmental Manager
Department of Natural Resources
Stillaguamish Tribe
Arlington, WA

Erik Stockdale, M.A.

Senior Wetland Specialist
Seattle, WA

Richard Strathmann, Ph.D.

Professor
Department of Biology
University of Washington
Friday Harbor, WA

Alison Styring, Ph.D.

The Evergreen State College
Olympia, WA

Jane Sullivan, Ph.D.

Assistant Professor
Department of Physiology
and Biophysics
University of Washington
Seattle, WA

Marcia Summers, M.S.

Senior Conservation Planner
Asia-Pacific Region
The Nature Conservancy
Vashon Island, WA

Billie J. Swalla, Ph.D.

Associate Professor
Department of Biology
University of Washington
Seattle, WA

Elizabeth A. Sweeney, Ph.D.

Seattle, WA

Raymond K. Timm, Ph.D.

School of Aquatic
and Fishery Sciences
University of Washington
Seattle, WA

Michelle J. Tirhi, M.S.

Wildlife Biologist
Kent, WA

Brian Nelson Tissot, Ph.D.

Department of
Environmental Science
Washington State University
Vancouver, WA

Steven Wayne Todd, M.S.

Habitat Biologist
Kingston, WA

Julia H. Tracy

Research Scientist
Master's Candidate
Department of Environmental
and Occupational Health Sciences
University of Washington
Seattle, WA

Richard Trump

Bothell, WA

Peter Vanderhoof

Fisheries Biologist
Port Angeles, WA

Sacha Vignieri, Ph.D.

Leverhulme Visiting Post-doctoral
Fellow
School of Life Sciences
University of Sussex
Seattle, WA

Robert W. Vocke, Ph.D.

Husum, WA

Gary Wade, Ph.D.

Bellingham, WA

Fredric J. Wagenknecht

Master's Candidate
University of Montana
Roslyn, WA

Lauran C. Warner, M.S.

Biologist
Seattle, WA

Samuel K. Wasser, Ph.D.

Endowed Chair
Director
Department of Biology
Center for Conservation Biology
University of Washington
Seattle, WA

Adam Weaver, Ph.D.

Senior Post-doctoral Fellow
Department of Otolaryngology
University of Washington
Seattle, WA

Bertie J. Weddell, Ph.D.

Pullman, WA

Stacey Weiss, Ph.D.

Assistant Professor
Department of Biology
University of Puget Sound
Tacoma, WA

Stephen D. West, Ph.D.

Associate Dean and Professor
Department of Forest Resources
University of Washington
Seattle, WA

Arthur H. Whiteley, Ph.D.

Professor Emeritus
Department of Biology
University of Washington
Seattle, WA

Edward A. Whitesell, Ph.D.

Graduate Program
in Environmental Studies
The Evergreen State College
Olympia, WA

Gary J. Wiles, M.S.

Department of Fish and Wildlife
State of Washington
Olympia, WA

Jennifer Opdyke Wilhelm, M.S.

Ecologist
Seattle, WA

Brett A. Wolfe

Master's Candidate
Seattle, WA

Susan Wyckoff, M.A.

Seattle, WA

Helmut M. Zahn, Ph.D.

Elma, WA

Once species become extinct, no corrective legislation can bring them back—they are gone forever.

Allen M. Solomon, Paleoecologist

Senior research global ecologist, Environmental Protection Agency (retired); and former senior policy analyst, White House Office of Science and Technology Policy

The Endangered Species Act is crucial to our nation's ecological health, and solid science is crucial to the ESA.

Gary K. Meffe, Conservation Biologist

Professor of Conservation Biology, University of Florida, Gainesville; and editor, *Conservation Biology*

The Endangered Species Act has protected our natural heritage for 30 years; it must continue to do so.

Stuart Pimm, Conservation Biologist

Doris Duke Chair of Conservation Ecology, Nicholas School of the Environment and Earth Sciences, Duke University, North Carolina; Pew Fellow in Conservation and the Environment; and LaRoe Prize winner for biodiversity protection

People can visit sacred shrines and imagine the spirits and the murmur of the voices of past generations. Likewise, we should go into natural places and imagine the spirits and murmurs of future generations hoping to experience the diversity of nature.

Paul Dayton, Marine Ecologist

Professor of Oceanography, Scripps Institution of Oceanography, La Jolla, California; Pew Fellow in Marine Conservation; and member, U.S. Marine Mammal Commission



To view and download signers in your state, visit
www.ucsusa.org/biologistsletter

Each species on our planet plays a role in the healthy functioning of natural ecosystems, on which humans depend.

William H. Schlesinger, Biogeochemist

Dean, Nicholas School of the Environment and Earth Sciences and James B. Duke Professor of Biogeochemistry, Duke University, North Carolina; member, National Academy of Sciences; and past president, Ecological Society of America

Biodiversity is our nation's natural wealth. The Endangered Species Act safeguards these riches.

Judy L. Meyer, Aquatic Ecologist

Research professor of Limnology, Institute of Ecology, University of Georgia; fellow, American Association for the Advancement of Science; and past president, Ecological Society of America

Science is the foundation for preserving biodiversity to benefit all life on Earth.

Jerry Schubel, Marine Biologist

President and CEO, Aquarium of the Pacific, Long Beach, California; former dean and director, SUNY at Stony Brook's Marine Sciences Research Center; and board member, Census of Marine Life

We share this planet with many species. It is our responsibility to protect them, both for their sakes and our own.

Pamela A. Matson, Ecologist

Dean, School of Earth Sciences and Goldman Professor of Environmental Studies, Stanford University, California; member, National Academy of Sciences; MacArthur Fellow; and past president, Ecological Society of America

