OPEN LETTER FROM 229 SCIENTISTS IN SUPPORT OF THE NORTHWEST FOREST PLAN AS A GLOBAL AND REGIONAL MODEL FOR CONSERVATION AND ECOSYSTEM MANAGEMENT

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As scientists with backgrounds in natural resource management and ecology, we wish to express our full support for the Northwest Forest Plan (NWFP), a global model in ecosystem management and biodiversity conservation\(^1\). The protective provisions of the late-successional reserve (LSR) network and the Aquatic Conservation Strategy (ACS) are fundamental to the plan’s objectives and recent science confirms that these designations along with other elements of the NWFP are at least as vital today as they were when originally conceived by the plan’s architects\(^2\). We are writing at this time, because we are concerned that the first forest-plan revision in the Pacific Northwest calls for dismantling key conservation biology principles of the NWFP by eliminating the LSR network and weakening the ACS.

The proposed draft revised forest plan for the Okanogan-Wenatchee forest, located on the east slopes of the Cascade Range in Washington, proposes changing the LSR designation to “Restoration Areas” within which vague active management practices will take place and moving away from the more protective standards and guidelines of the ACS. The Forest Service cites climate-related predictions that call for a doubling or tripling of fire by century’s end in the Washington Cascades, and the agency claims that this, along with elevated insect and disease risks, is justification for eliminating reserve categories and weakening the ACS. However, even if such disturbances were to increase as a result of climate change, this is not cause for drastic measures that eliminate the region’s underlying conservation strategy, particularly given the NWFP is a robust conservation strategy that allows for restorative actions in its current land-use configurations.

Under the NWFP, ~30% (7.4 million acres) of federal lands in the Pacific Northwest that were traditionally managed for timber production were designated as LSRs to provide habitat for hundreds of wildlife species associated with older forests that have been greatly depleted by logging across the landscape. These reserves are not inviolate and allow for some forms of logging – thinning in young forests to accelerate late-successional development and fuel reduction for fire concerns – provided they comply with the plan’s standards and guidelines. The ACS, through its various components, including establishing Riparian Reserves and identification and protection of Key Watersheds, also was designed to restore and maintain

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ecological processes for aquatic and riparian areas. These areas have shown measurable improvements in watershed conditions since the plan’s inception.

The architects of the NWFP envisioned the LSR network as a regional and robust conservation strategy of sufficient redundancy in late-successional forest types, so that disturbance-related reductions in any given type would not affect the overall conservation strategy for that type. The reserves also were designed to be an interconnected ecosystem to accommodate wildlife shifts from recently disturbed to undisturbed areas. Protected reserves like those in the NWFP remain the cornerstone of scientifically sound conservation strategies globally, especially as threats to fundamental ecosystem services accelerate from climate change and land-use stressors. However, in the Pacific Northwest there have been attempts by federal agencies at weakening reserve protections or eliminating them entirely in favor of untested non-reserve, active management approaches as reflected by elements of earlier (2006, 2008) drafts of the northern spotted owl recovery plan. The Wildlife Society, Society for Conservation Biology, and American Ornithologists Union summarily rejected these approaches in peer review as being scientifically incredulous.

The conservation foundation of the NWFP, which is rooted in fixed reserves, has been broadly supported in the scientific literature. This is largely because the reserve network is the backbone to a regional conservation strategy for hundreds of species that depend on older forests that are relatively rare on surrounding nonfederal lands. The older forests and intact watersheds that these reserves protect, or seek to restore, also provide a myriad of related ecosystem benefits, including storing vast quantities of atmospheric carbon in live and dead trees and soils important in climate regulation, refugia and a relatively connected landscape for climate-forced migrations of wildlife in search of cool, moist conditions, and high quality water for aquatic organisms and people. Notably, in a five-year status review of the northern spotted owl, scientists concluded that there was no reason to depart from the NWFP and that the situation for the owl would be bleaker today if not for the NWFP. In addition, the U.S. Fish and Wildlife Service in its 2011 revised critical habitat proposal for the owl stated that “results from the first decade of monitoring do not provide any reason to depart from the objective of habitat maintenance and restoration as described in the Northwest Forest Plan.” Recent science on

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3 Reeves, G. Ibid.
6 Courtney et al 2004. Ibid.
climate change refugia also documents the importance of protecting old forests in reserves as climatic refugia.8

The Okanagan dry forest ecoregion was identified by the World Wildlife Fund as nationally significant but critically endangered due to extensive logging, grazing, mining, road building, fire suppression and other land-use disturbances9. Over half of the region’s old forests have been logged and few intact areas remain.10 The onset of climate change combined with ongoing land-use stressors pose unprecedented threats to key ecosystem services such as high quality water, carbon stored in old-forest ecosystems and wetlands, and fish and wildlife habitat. The continuation of the reserve network that includes both the LSRs and ACS among other land designations is even more fundamental today precisely because of climate change -- reducing these protections is neither consistent with conservation nor science-based climate adaptation or mitigation strategies.

Sincerely,

* Affiliations are listed for identification purposes only.

Lead Signatories:

Dominick A. DellaSala, Ph.D. 
President and Chief Scientist
Geos Institute
Ashland, Oregon

James Karr, Ph.D. 
Professor Emeritus
University of Washington
Sequim, Washington

Robert G. Anthony, Ph.D. 
Professor of Wildlife Ecology
Oregon State University
Corvallis, Oregon

Thomas Michael Power, Ph.D. 
Research Professor
University of Montana
Missoula, Montana

E. Charles Meslow
USGS (retired)
Corvallis, Oregon

Jack E. Williams, Ph.D. 
Senior Scientist
Trout Unlimited
Medford, Oregon

---

Additional Signatories:

Paul Alaback, Ph.D.
Professor Emeritus of Ecology
University of Montana
Missoula, Montana

John Alcock, Ph.D.
Emeritus Professor
Arizona State University
Tempe, Arizona

Peter Alpert, Ph.D.
Professor
University of Massachusetts
Amherst, Massachusetts

Kayce Anderson, Ph.D.
Colorado State University
Glenwood Springs, Colorado

Steven C. Anderson, Ph.D.
Professor Emeritus
University of the Pacific
California Academy of Sciences
Stockton, California

William D. Anderson, Jr., Ph.D.
Professor Emeritus
College of Charleston
Charleston, South Carolina

Greg H. Aplet, Ph.D.
Senior Forest Scientist
The Wilderness Society
Denver, Colorado

William L. Baker, Ph.D.
Professor
University of Wyoming
Laramie, Wyoming

Jesse R. Barber, Ph.D.
Assistant Professor
Boise State University
Boise, Idaho

Linda Sue Barnes, Ph. D.
Professor of Biology (Emeritus)
Methodist University
Wade, North Carolina

Roger G. Barry, M.Sc., Ph.D.
Distinguished Professor Emeritus
National Snow & Ice Data Center
Boulder, Colorado

Andrew M. Barton, Ph.D.
Professor of Biology
University of Maine, Farmington
Farmington, Maine

Peter B. Bayley, Ph.D.
Courtesy Faculty
Oregon State University
Corvallis, Oregon

Constance Dustin Becker, Ph.D.
International Conservation Projects Coordinator
Life Net Nature
Wilcox, Arizona

Craig W. Benkman, Ph.D.
Professor
University of Wyoming
Laramie, Wyoming

Michael V. L. Bennett, D.Phil.
Professor
Albert Einstein College of Medicine
Bronx, New York

Robert L. Beschta, Ph.D.
Emeritus Professor
Oregon State University
Corvallis, Oregon

Del Blackburn, M.S.
Clark College (retired)
Worley, Idaho
Jim Boone, Ph.D.  
Ecologist  
Desert Wildlife Consultants, LLC  
Las Vegas, Nevada

Richard Bradley, Ph.D.  
Associate Professor  
Ohio State University  
Delaware, Ohio

Bill Bridgeland, Ph.D.  
Refuge Biologist  
USFWS  
Bandon, Oregon

James H. Brown, Ph.D.  
Distinguished Professor of Biology  
University of New Mexico  
Albuquerque, New Mexico

Daniel R. Brumbaugh, Ph.D.  
University of California, Santa Cruz  
Santa Cruz, California

Peter F. Brussard, Ph.D.  
Professor Emeritus  
University of Nevada, Reno  
Reno, Nevada

Thomas Buckley, Ph.D.  
Assistant Professor  
Sonoma State University  
Rohnert Park, California

Harold L. Burstyn, Ph.D., J.D.  
Adjunct Professor  
Syracuse University  
Syracuse, New York

David Byman, Ph.D.  
Assistant Professor of Biology  
Penn State University  
Clarks Summit, Pennsylvania

Alan B. Cady, Ph.D.  
Professor of Zoology  
American Arachnological Society  
Oxford, Ohio

Philip Cafaro, Ph.D.  
Professor of Philosophy  
Colorado State University  
Fort Collins, Colorado

John Cairns, Jr., Ph.D.  
University Distinguished Professor  
Virginia Tech  
Blacksburg, Virginia

John R. Cannon, Ph.D.  
Senior Scientist  
Conservation Biology  
Front Royal, Virginia

Ken Carloni, Ph.D.  
Associate Professor of Biology  
Umpqua Community College  
Roseburg, Oregon

Ron Carroll, Ph.D.  
Director of River Basin Center  
University of Georgia  
Athens, Georgia

Donna Cassidy-Hanley, Ph.D.  
Freeville, New York

Norman L. Christensen, Ph.D.  
Research Professor and Founding Dean  
Duke Univ., Nicholas School of the Env.  
Durham, North Carolina

John A. Cigliano, Ph.D.  
Associate Professor of Biology,  
Cedar Crest College  
Allentown, Pennsylvania

Neil S. Cobb, Ph.D.  
Director  
N. Arizona Univ. Center for Env. Research  
Flagstaff, Arizona
Phyllis D. Coley, Ph.D.
Distinguished Professor
University of Utah
Salt Lake City, Utah

Liza Comita, Ph.D.
Columbus, Ohio

Joseph A. Cook, Ph.D.
Professor of Biology
University of New Mexico
Albuquerque, New Mexico

Ian M. Cooke, Ph.D.
Professor Emeritus of Zoology
University of Hawaii
Honolulu, Hawaii

Paul Corogin, M.S.
Gainesville, Florida

Frank Lance Craighead, Ph.D.
Director
Craighead Institute
Bozeman, Montana

David A. Culver, Ph.D.
Professor Emeritus
Ohio State University
Columbus, Ohio

Luise K. Davis, Ph.D. (retired)
Society of Wetland Scientists
Pittsburgh, Pennsylvania

Paul Dayton, Ph.D.
Professor
Scripps Institution of Oceanography
La Jolla, California

James E. Deacon, Ph.D.
Distinguished Professor Emeritus
University of Nevada, Las Vegas
Henderson, Nevada

Amy L. Denton, Ph.D.
Associate Professor and Chair of Biology
California State Univ., Channel Islands
Camarillo, California

Alan Dickman, Ph.D.
Director, Environmental Studies Program
University of Oregon
Eugene, Oregon

Brett G. Dickson, Ph.D.
Assistant Research Professor
Northern Arizona University
Flagstaff, Arizona

Alex Doetsch, Ph.D.
Professor
College of Southern Idaho
Twin Falls, Idaho

Dana Dolsen, M.Sc.
Scientist
University of Alberta alumnus
Salt Lake City, Utah

Craig C. Downer, M.S.
President
Andean Tapir Fund; IUCN SSC
Minden, Nevada

R. Scot Duncan, Ph.D.
Assistant Professor
Birmingham-Southern College
Birmingham, Alabama

Greg Eaton, Ph.D.
Professor
Lynchburg College
Lynchburg, Virginia

William Edelglass, Ph.D.
Professor of Philosophy and Environmental Studies
Marlboro College
Marlboro, Vermont
Norman Ellstrand, Ph.D.
Professor
Riverside, California

Tracy S. Feldman, Ph.D.
Assistant Professor
University of Wisconsin, Stevens Point
Stevens Point, Wisconsin

Doug Fischer, Ph.D.
Assistant Researcher
University of California, Santa Barbara
Santa Barbara, California

Thomas L. Fleischner, Ph.D.
Professor of Environmental Studies
Prescott College
Prescott, Arizona

Michael W. Fox, Ph.D., D.Sc.
Minneapolis, Minnesota

Christopher A. Frissell, Ph.D.
Research Aquatic Ecologist
Polson, Montana

Jed Fuhrman, Ph.D.
Professor
University of Southern California
Los Angeles, California

Michael M. Fuller, Ph.D.
Adjunct Professor of Biology
University of New Mexico
Albuquerque, New Mexico

Stephen W. Fuller, Ph.D.
Professor of Biological Sciences
University of Mary Washington
Fredericksburg, Virginia

Daniel Gavin, Ph.D.
Associate Professor
University of Oregon
Eugene, Oregon

Donald Geiger, Ph.D.
Professor Emeritus
University of Dayton
Dayton, Ohio

Wynne Geikenjoyner, Ph.D.
Flagstaff, Arizona

T. Luke George, Ph.D.
Emeritus Professor
Humboldt State University
Fort Collins, Colorado

Jennifer Gervais, Ph.D.
Wildlife Ecologist
Oregon Wildlife Institute
Corvallis, Oregon

John H. Gibbons, Ph.D.
National Academy of Engineering
The Plains, Virginia

Allen G. Gibbs, Ph.D.
University of Nevada
Las Vegas, Nevada

Phil Gibson, Ph.D.
Director, Kessler Atmospheric and
Ecological Field Station
Associate Professor of Biology
University of Oklahoma
Norman, Oklahoma

Thomas W. Giesen, M.S.
University of Oregon
Eugene, Oregon

Scott Goetz, Ph.D.
Senior Scientist
Woods Hole Research Center
Falmouth, Massachusetts

Enrique Gomezdelcampo, Ph.D.
Associate Professor
Bowling Green State University
Bowling Green, Ohio
Robert D. Good, D.V.M., M.S.  
USDA/APHIS (retired)  
Chester, Maryland

Leanna R. Heffner, Ph.D. Candidate  
University of Rhode Island  
Narragansett, Rhode Island

Steven Green, Ph.D.  
Professor  
University of Miami  
Coral Gables, Florida

Ken Helms, Ph.D.  
Research Assistant Professor  
University of Vermont  
Burlington, Vermont

David Griffith, Ph.D.  
Visiting Professor of Biology  
Ferris State University  
Big Rapids, Michigan

Bill Hilton Jr., M.S., M.A.T.  
Hilton Pond Center for Piedmont Natural History  
York, South Carolina

Gary D. Grossman, Ph.D.  
Professor  
University of Georgia  
Athens, Georgia

Karen Holl, Ph.D.  
Professor and Chair  
University of California, Santa Cruz  
Santa Cruz, California

Michael Hadjiargyrou, Ph.D.  
Associate Professor  
Stony Brook University  
Coram, New York

John R. Holloway, Ph.D.  
Research Professor  
Arizona State University  
Ashland, Oregon

John E. Hall, Ph.D.  
Professor Emeritus  
West Virginia University  
Morgantown, West Virginia

Richard T. Holmes, Ph.D.  
Professor Emeritus of Biology  
Dartmouth College  
Hanover, New Hampshire

Richard W. Halsey  
Director, California Chaparral Institute  
Escondido, California

Emi Ito, Ph.D.  
Professor  
University of Minnesota  
Minneapolis, Minnesota

Steven W. Hamilton, Ph.D.  
Professor and Director  
Austin Peay State, Center for Field Biology  
Clarksville, Tennessee

David P. Janos, Ph.D.  
Professor of Biology  
University of Miami  
Coral Gables, Florida

Chad Hanson, Ph.D.  
Director and Staff Scientist  
John Muir Project of Earth Island Institute  
Cedar Ridge, California

Charles H. Janson, Ph.D.  
Associate Dean  
University of Montana  
Missoula, Montana

Cheryl F. Harding, Ph.D.  
Professor  
New York, New York
Daniel H. Janzen, Ph.D.  
Professor of Conservation Biology  
University of Pennsylvania  
National Academy of Sciences  
Philadelphia, Pennsylvania

Robert L. Jarvis, Ph.D.  
Emeritus Professor  
Oregon State University  
Astoria, Oregon

Mitchell M. Johns, Ph.D.  
Professor of Soils  
California State University  
Chico, California

Alan R. P. Journet, Ph.D.  
Prof. Emeritus of Biology & Env. Science  
Southeast Missouri State University  
Ashland, Oregon

Jacob Kann, Ph.D.  
Aquatic Ecologist  
Ashland, Oregon

Sterling C. Keeley, Ph.D.  
Professor of Botany  
University of Hawaii, Manoa  
Honolulu, Hawaii

John G. Kie, Ph.D.  
Research Professor  
Idaho State University  
Pocatello, Idaho

Walter D. Koenig, Ph.D.  
Senior Scientist  
Cornell University  
Ithaca, New York

Jason A. Koontz, Ph.D.  
Associate Professor  
Augustana College  
Rock Island, Illinois

Marni Koopman, Ph.D.  
Climate Change Scientist  
Geos Institute  
Ashland, Oregon

Andrew Kramer, Ph.D.  
Athens, Georgia

Dana Krempels, Ph.D.  
Senior Lecturer  
University of Miami  
Miami, Florida

Rebecca S. Lamb, Ph.D.  
Assistant Professor  
Ohio State University  
Columbus, Ohio

Marc Lapin, Ph.D.  
Middlebury College  
Middlebury, Vermont

Beverly Law, Ph.D.  
Prof. of Global Change Forest Science  
Oregon State University  
Corvallis, Oregon

Paul A. Lefebvre, Ph.D.  
Professor  
University of Minnesota  
St. Paul, Minnesota

John Lill, Ph.D.  
Associate Professor of Biology  
George Washington University  
Washington, DC

Harvey B. Lillywhite, Ph.D.  
Professor  
University of Florida  
Gainesville, Florida

Joshua M. Linder, Ph.D.  
Assistant Professor  
James Madison University  
Harrisonburg, Virginia
Steven R. Manchester, Ph.D.
Curator of Paleobotany
Florida Museum of Natural History
Gainesville, Florida

Janet Marsden, M.S., M.P.S.
Syracuse, New York

Patrick Martin, Ph.D.
Associate Professor
Colorado State University
Fort Collins, Colorado

Glenn R. Matlack, Ph.D.
Associate Professor
Ohio University
Athens, Ohio

Michael Mazurkiewicz, Ph.D.
Professor of Biological Sciences
University of Southern Maine
Portland, Maine

John McLaughlin, Ph.D.
Associate Professor
Western Washington University
Bellingham, Washington

Gary K. Meffe, Ph.D.
Adjunct Professor, University of Florida
Gainesville, Florida

Brian T. Miller, Ph.D.
Professor of Biology
Middle Tennessee State University
Murfreesboro, Tennessee

Kailen Mooney, Ph.D.
Professor
University of California, Irvine
Irvine, California

Kara Moore, Ph.D.
Research Ecologist
University of California, Davis
Davis, California

Vicki Moore, M.S.
Tempe, Arizona

Peter B. Moyle, Ph.D.
Professor of Fish Biology
University of California, Davis
Davis, California

Rob Mrowka, M.S.
Ecologist
Center for Biological Diversity
North Las Vegas, Nevada

Peter G. Murphy, Ph.D.
Prof. Emeritus, Distinguished Faculty
Michigan State University
East Lansing, Michigan

K. Greg Murray, Ph.D.
Professor of Biology
Hope College
Holland, Michigan

Philip Myers, Ph.D.
Professor
University of Michigan
Ann Arbor, Michigan

Knute Nadellhoffer, Ph.D.
Professor
University of Michigan
Ann Arbor, Michigan

Wolf Naegeli, Ph.D.
Senior Research Scientist Emeritus
University of Tennessee, Knoxville
Knoxville, Tennessee

Charles R. Neal, B.S.
Ecologist
U.S. Dept. of Interior (retired)
Cody, Wyoming

Jay A. Nelson, Ph.D.
Professor, Towson University
Towson, Maryland
John C. Nemeth, Ph.D.
President, CGJC Enterprises
Christiansburg, Virginia

Barry R. Noon, Ph.D.
Professor of Wildlife Ecology
Colorado State University
Fort Collins, Colorado

Elliott A. Norse, Ph.D.
President
Marine Conservation Institute
Bellvue, Washington

Gretchen North, Ph.D.
Professor
Occidental College
Los Angeles, California

Alison Nurok, Ph.D.
Middlebury, Vermont

Dennis Odion, Ph.D.
Department of Environmental Studies
Southern Oregon University
Ashland, Oregon

Charles Olmsted, Ph.D.
Professor Emeritus
University of Northern Colorado
Greeley, Colorado

Theodore J. Papenfuss, Ph.D.
Research Scientist
University of California, Berkeley
Berkeley, California

Michael S. Parker, Ph.D.
Professor of Biology
Southern Oregon University
Ashland, Oregon

Gustav Paulay, Ph.D.
Professor & Curator
University of Florida
Gainesville, Florida

Barbara L. Peckarsky, Ph.D.
Honorary Fellow and Adjunct Professor
University of Wisconsin, Madison
Madison, Wisconsin

David A. Perry, Ph.D.
Professor Emeritus
Oregon State University
Taos, New Mexico

Steven Phillips, Ph.D.
Research Scientist
AT&T
New York, New York

Anna Pidgeon, Ph.D.
Assistant Professor
Univ. of Wisconsin, Madison
Madison, Wisconsin

Stuart Pimm, Ph.D.
Doris Duke Professor of Conservation
Duke University
Durham, North Carolina

Tony Povilitis, Ph.D.
Director
Life Net Nature
Willcox, Arizona

Jessica D. Pratt, M.S.
University of California, Irvine
Costa Mesa, California

James J. Provenzano, M.A., C.Ph.
President
Clean Air Now
Los Angeles, California

Robert Michael Pyle, Ph.D.
Founder
Xerces Society
Gray's River, Washington
Ted K. Raab, Ph.D.
Senior Investigator
Carnegie Institution of Washington
Stanford, California

Gurcharan S. Rahi, Ph.D.
Associate Professor
Fayetteville State University
Fayetteville, North Carolina

John T. Ratti, M.S., Ph.D.
Research Professor (retired)
University of Idaho
New Meadows, Idaho

Michael Reed, Ph.D.
Tufts University
Medford, Massachusetts

Marcel Rejmanek, Ph.D.
Professor
University of California, Davis
Davis, California

Michael S. Rentz, Ph.D.
Duluth, Minnesota

Tina Rhea, M.S.
Greenbelt, Maryland

Fred M. Rhoades, Ph.D.
Research Associate
Instructor of Biology(retired)
Western Washington University
Bellingham, Washington

Ann F. Rhoads, Ph.D.
Senior Botanist
Morris Arboretum, Univ. of Pennsylvania
Philadelphia, Pennsylvania

David W. Roberts, Ph.D.
Professor
Montana State University
Bozeman, Montana

Dina Roberts, Ph.D.
Conservation Biologist
Vancouver, Washington

Javier A. Rodriguez, Ph.D.
Associate Professor
University of Nevada, Las Vegas
Las Vegas, Nevada

Gary W. Roemer, Ph.D.
Associate Professor
New Mexico State University
Las Cruces, New Mexico

Garry Rogers, Ph.D.
President
Agua Fria Open Space Alliance
Humboldt, Arizona

Thomas Rooney, Ph.D.
Associate Professor
Wright State University
Dayton, Ohio

Terry L. Root, Ph.D.
Senior Fellow
Stanford University
Stanford, California

Jon Rosales, Ph.D.
Associate Professor
St. Lawrence University
Canton, New York

Robert K. Rose, Ph.D.
Professor Emeritus
Old Dominion University
Norfolk, Virginia

Amy Y. Rossman, Ph.D.
Research Leader
Mycological Society of America
Beltsville, Maryland
Glenn R. Stewart, Ph.D.
Professor Emeritus of Biological Sciences
Ca. State Polytechnic University, Pomona
Pomona, California

Edward Thornton, Ph.D.
Professor of Chemistry
University of Pennsylvania
Swarthmore, Pennsylvania

Christopher Still, Ph.D.
Associate Professor
University of California, Santa Barbara
Santa Barbara, California

Phil Tonne
Senior Collection Manager
University of New Mexico Herbarium
Albuquerque, New Mexico

Stephen F. Stringham, Ph.D.
President, WildWatch LLC
University of Alaska
Soldotna, Alaska

Paul F. Torrence, Ph.D.
Emeritus Prof. of Chemistry & Biochemistry
Northern Arizona University
Flagstaff, Arizona

James R. Strittholt, Ph.D.
President/ Executive Director
Conservation Biology Institute
Corvallis, Oregon

Vicki Tripoli, Ph.D.
Ashland, Oregon

C. F. Sturm, M.D., M.S.
Research Associate
Murrysville, Pennsylvania

Rick Van de Poll, Ph.D.
Principal
Ecosystem Management Consultants, LLC
Center Sandwich, New Hampshire

John R. Strittholt, Ph.D.
Associate Professor of Biology
Lynchburg College
Lynchburg, Virginia

Mike Vandeman, Ph.D.
San Ramon, California

Steven Swartz, Ph.D.
Senior Scientist
Cetacean Research Associates
Darnestown, Maryland

David R. Vann, Ph.D.
University of Pennsylvania
Philadelphia, Pennsylvania

John W. Terborgh, Ph.D.
Research Professor
Duke University
Durham, North Carolina

Mark D. Varien, Ph.D.
Research and Education Chair
Crow Canyon Archaeological Center
Cortez, Colorado

Stephen T. Tettelbach, Ph.D.
Professor of Biology
Long Island University
Brookville, New York

Scott Veirs, Ph.D.
President
Beam Reach Marine Science School
Seattle, Washington

Eric von Wettberg, Ph.D.
Assistant Professor
Florida International University
Miami, Florida
Faith M. Walker, Ph.D.
Research Fellow
Northern Arizona University
Flagstaff, Arizona

Gregory P. Walker, Ph.D.
Professor
University of California, Riverside
Riverside, California

Don Waller, Ph.D.
Professor of Botany
University of Wisconsin
Madison, Wisconsin

David O. Wallin, Ph.D.
Professor
Western Washington University
Bellingham, Washington

Richard T. Ward, Ph.D.
Emeritus Professor
Colorado State University
Fort Collins, Colorado

Gerald J. Wasserburg, Ph.D.
Prof. of Geology & Geophysics Emeritus
California Inst. of Technology
Florence, Oregon

Vicki Watson, Ph.D.
Professor, University of Montana
Missoula, Montana

Kenneth Weiss, Ph.D.
Evan Pugh Professor Genetics
Penn State University
University Park, Pennsylvania

Orion Z. Weldon, Ph.D. Candidate
Rutgers University
New Brunswick, New Jersey

David F. Whitacre, Ph.D.
Instructor
Treasure Valley Math and Science Center
Boise, Idaho

Norris H. Williams, Ph.D.
Curator
Gainesville, Florida

Mark A. Wilson, Ph.D.
Professor of Geology
College of Wooster
Wooster, Ohio

Shaye Wolf, Ph.D.
Kensington, California

Steven Yanoff, M.S.
Ecologist
White Oaks, New Mexico