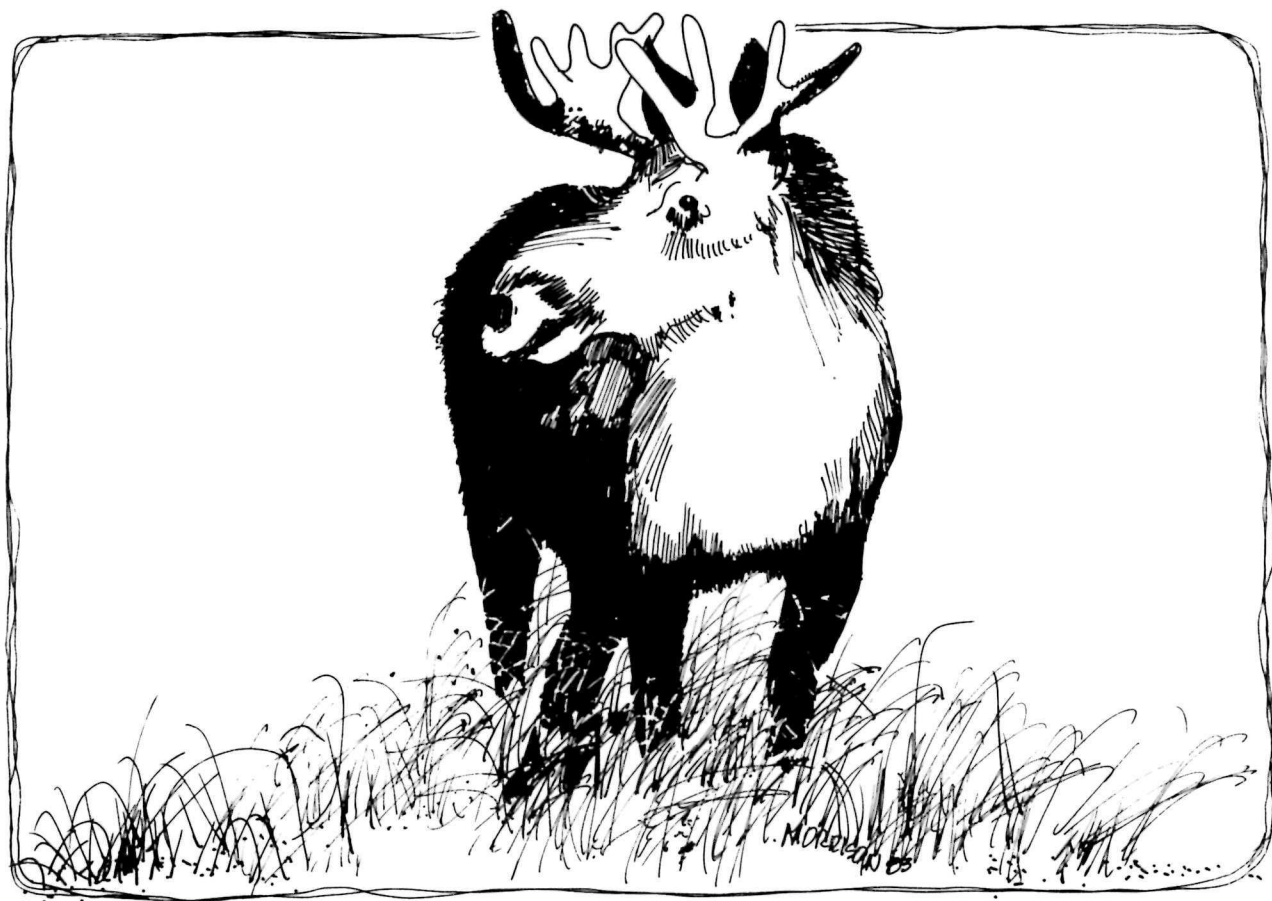


Directory of  
Research Grade Scientists  
and  
Research Grants-Grade Scientists  
1989



National Park Service



1989

NATIONAL PARK SERVICE

DIRECTORY OF

RESEARCH GRADE SCIENTISTS AND RESEARCH GRANTS-GRADE SCIENTISTS

This is a directory of individuals in the National Park Service who are classified as Research Grade Scientists or Research Grants-Grade Scientists. It includes names, titles, addresses, and phone numbers; major academic fields of education, highest degrees obtained in these fields, colleges/universities where obtained, and year obtained; topics of current and recent research and where conducted.

The personnel are listed alphabetically by name, within the region or Washington Office of the National Park Service where they are located. (The ten regions are Alaska, Mid-Atlantic, Midwest, National Capital, North Atlantic, Pacific Northwest, Rocky Mountain, Southeast, Southwest, and Western.)

Other individuals, such as certain Cooperative Park Study Unit leaders or management biologists, may perform duties similar in kind and degree of difficulty of those carried out by the personnel listed herein. They are not included in this document because they are not listed within the personnel classification series cited above. They are listed, however, in the National Park Service's Personnel Directory Natural Resources, dated 1988.

February 1989

Natural Resources Programs  
National Park Service  
U.S. Department of the Interior

The 1988 National Park Service Directory of Research Grade Scientists and Research Grants-Grade Scientist was produced through the National Park Service Natural Resources Publications Program, Office of the Associate Director, Natural Resources.

For additional copies of the directory, contact:

Donna O'Leary  
National Park Service  
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P.O. Box 25287  
Denver, CO 80225-0287  
(FTS) 327-2156; (COMM) 303-969-2156

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## ALASKA REGION

RESEARCH GRADE SCIENTISTS: AR

Adams, Layne G.

Wildlife Research Biologist  
National Park Service  
Alaska Regional Office  
2525 Gambell Street  
Anchorage, AK 99503-2892  
(907) 257-2569

M.S. Wildlife Research and Management  
Colorado State University 1981

Current and Recent Research: Caribou population decline (Denali NP); wolf ecology study (Gates of the Arctic NP/Pres); brown bear study (Noatak NP/Pres).

Ahlstrand, Gary

Research Ecologist  
National Park Service  
Alaska Regional Office  
2525 Gambell Street  
Anchorage, AK 99503-2892  
(907) 257-2564

Ph.D. Plant Physiology/Ecology  
Washington State University 1973

Current and Recent Research: Establishment of GIS in all Alaska parks; effects of all-terrain vehicle use on a shrub terrain community (Wrangell-St. Elias NP/Pres), and on tundra communities (Gates of the Arctic NP/Pres); fire ecology studies (Alaskan parks); dendrochronology Studies (Katmai NP/Pres, Kenai Fjords NP); plant colonization and succession study (Katmai NP/Pres).

RESEARCH GRADE SCIENTISTS: AR

Taylor, Dale L.

Wildlife Research Biologist  
National Park Service  
Alaska Regional Office  
2525 Gambell Street  
Anchorage, AK 99503-2892  
(907) 257-2571

Ph.D. Forest Succession/Fire Impacts  
University of Wyoming 1969

Current and Recent Research: Fire impacts on wildlife; impact of road traffic  
on wildlife (Denali NP).

RESEARCH GRANTS-GRADE SCIENTIST: AR

Lovaas, Allan

Regional Chief Scientist  
Chief - Natural Resources Division  
National Park Service  
Alaska Regional Office  
2525 Gambell Street  
Anchorage, AK 99503-2892  
(907) 257-2568

M.S. Wildlife Research and Management  
Montana State University 1957

Current and Recent Research: None (Administration).



## MID-ATLANTIC REGION

RESEARCH GRADE SCIENTIST: MAR

Marion, Jeffrey

Research Biologist  
Delaware Water Gap National Recreation Area  
Star Route 38, Milford, PA 18337  
(717) 296-9280

Ph.D. Recreation Resource Management  
University of Minnesota 1984

Current and Recent Research: Ecological impacts of visitor recreation use and their management including studies of backcountry campsites and experimental trampling to evaluate relationships between amount of use, amount of impact, and differences in impacts between vegetation types; development of recreation site impact assessment and monitoring programs; development of trail inventories for assessing resource impacts and maintenance needs.

RESEARCH GRANTS-GRADE SCIENTIST: MAR

Karish, John

Regional Chief Scientist/  
CPSU Unit Leader  
National Park Service  
Cooperative Park Study Unit  
Penn State University  
Ferguson Building, Room 209B  
University Park, PA 16802  
(814) 865-7974

M.S. Forest Biometrics  
Pennsylvania State University 1973

Current and Recent Research: None (Fulltime Research Administration).

## MIDWEST REGION

RESEARCH GRADE SCIENTISTS: MWR

Cole, Kenneth

Plant Ecologist  
Indiana Dunes National Lakeshore  
1100 N. Mineral Springs Road  
Porter, IN 46304  
FTS:370-6421; COMM: (219) 926-7561

Ph.D. Paleoecology  
University of Arizona at Tucson 1981

Current and Recent Research: Fire and vegetational histories; paleoecology; quarternary geology; fossil packrat middens; plant microfossils and pollen; substrate-vegetation relationships; heavy metal accumulation histories.

Foster, David I.

Research Biologist  
Ozark National Scenic Riverways  
P.O. Box 490  
Van Buren, MO 63965  
(314) 323-4236

M.S. Fisheries Biology  
University of Missouri 1957

Current and Recent Research: Baseline fisheries studies; water quality monitoring methodology; ecology of fishes; trophic ecology of streams.

RESEARCH GRADE SCIENTISTS: MWR

Gogan, Peter

Research Wildlife Biologist  
Voyageurs National Park  
P.O. Box 50  
International Falls, MN 56649  
FTS: 780-5466; COMM: (218) 283-9821

Ph.D. Wildland Resources Science  
University of California, Berkeley 1986

Current and Recent Research: Ecology of ungulates (Voyageurs NP); ungulate-habitat-predator interactions; ungulate census techniques; population ecology of wolves in the Voyageurs NP region; reintroduction of extirpated ungulate species; management of exotic ungulates.

Kallemeyn, Larry W.

Aquatic Research Biologist  
Voyageurs National Park  
P.O. Box 50  
International Falls, MN 56649  
FTS: 780-5466; COMM: (218) 283-9821

M.S. Wildlife Biology  
South Dakota State University 1968

Current and Recent Research: Impacts of regulated lake levels on the aquatic environment, particularly on the fish community (Voyageurs NP); impacts of sport fishery on the fish community and various limnological parameters (Voyageurs NP).

RESEARCH GRADE SCIENTISTS: MWR

Stottlemeyer, Robert

Research Scientist  
National Park Service  
Cooperative Park Study Unit  
Department of Biological Sciences  
Michigan Technological University  
Houghton, MI 49931  
(906) 487-2478

Ph.D. Ecology  
Duke University 1968

Current and Recent Research: Atmospheric deposition (Great Lakes parks); the use of biogeochemical cycling to study the structure and functioning of northern and subalpine ecosystems.

Weisbrod, A. Richard

Research Zoologist  
Saint Croix National Riverway  
P.O. Box 168  
Marine on Saint Croix, MN 55047  
(612) 433-5663

Ph.D. Evolutionary Biology  
Cornell University 1970

Current and Recent Research: Vertebrate hosts and acarine vectors of Lyme disease; migrating birds in fragmented nearctic habitats; polar bear habitats of the western Arctic Ocean; ecology of the Nooksack Cirque (North Cascades NP); biology of European rabbits (San Juan Island NHP); avian ecology of old growth forests (Glacier Bay NP); seabird ecology (Glacier Bay NP); mammals of Mount Rainier (Mount Rainier NP).

RESEARCH GRANTS-GRADE SCIENTIST: MWR

Hiebert, Ronald D.

Regional Chief Scientist  
National Park Service  
Midwest Regional Office  
1709 Jackson Street  
Omaha, NE 68102  
FTS: 864-3438; COMM: (402) 221-3438

Ph.D. Plant Ecology  
University of Kansas 1977

Current and Recent Research: Effects of past disturbance/land use history on the recovery process and resulting vegetation's characteristics including former residential sites at Indiana Dunes NL; visitor impacts in Great Lakes dunes; effects of lumbering, fire suppression, climate change, and air pollution on eastern white pine; effects of exotic plants on native plant communities; development and testing of a system for ranking exotic plants based upon their impact, life history traits, and feasibility of control; development and application of a conceptual model for long-term ecological restoration projects (Indiana Dunes NL).



NATIONAL CAPITAL REGION

RESEARCH GRADE SCIENTISTS: NCR

Hadidian, John M.

Ecologist  
National Park Service  
National Capital Regional Office  
Center for Urban Ecology  
1100 Ohio Drive, S.W.  
Washington, DC 20242  
FTS: 427-1217; COMM: (202) 342-1443

Ph.D. Primatology  
Pennsylvania State University 1979

Current and Recent Research: Raccoon ecology and rabies epizootiology;  
population management of gray squirrels and white-tailed deer; habitat  
evaluation procedures in urban parks; integrated pest management (vertebrates).

Patterson, James C., Jr.

Research Agronomist  
National Park Service  
National Capital Regional Office  
Center for Urban Ecology  
1100 Ohio Drive, S.W.  
Washington, DC 20242  
FTS: 427-1202; COMM: (202) 342-1443

M.S. Agronomy  
University of West Virginia 1969

Current and Recent Research: Evaluation of turf grass under high use and low  
maintenance; soil modification and characterization (Prince William Forest  
Park).

RESEARCH GRADE SCIENTISTS: NCR

Sherald, James L.

Research Plant Pathologist  
National Park Service  
National Capital Regional Office  
Center for Urban Ecology  
1100 Ohio Drive, S.W.  
Washington, DC 20242  
FTS: 427-1208; COMM: (202) 342-1443

Ph.D. Plant Pathology  
University of Maryland 1974

Current and Recent Research: Vascular disease of forest and shade trees; ornamental horticulture; gypsy moth management; integrated pest management (National Capital parks).

Short, John R.

Soil Scientist  
National Park Service  
National Capital Regional Office  
Center for Urban Ecology  
1100 Ohio Drive, S.W.  
Washington, DC 20242  
FTS: 427-1203; COMM: (202) 342-1443

M.S. Soil Science  
University of Maryland 1983

Current and Recent Research: Genesis and classification of highly human-influenced (manipulated) soils (National Capital parks); characterization of soil atmosphere, including measurement of oxygen diffusion rate in undisturbed and human-influenced soils (National Capital parks).

RESEARCH GRADE SCIENTISTS: NCR

Thomas, L. Kay, Jr.

Research Biologist  
National Park Service  
National Capital Regional Office  
Center for Urban Ecology  
1100 Ohio Drive, S.W.  
Washington, DC 20242  
FTS: 427-1223; COMM: (202) 342-1443

Ph.D. Botany/Exotic Plant Ecology  
Duke University 1974

Current and Recent Research: Exotic species ecology and exotic plant management and ecology (particularly Kudzu, English ivy, Chinese wisteria) on wild lands; restoration of wild lands.

## NORTH ATLANTIC REGION

RESEARCH GRADE SCIENTISTS: NAR

Allen, James

Coastal Geomorphologist  
National Park Service  
North Atlantic Regional Office  
15 State Street  
Boston, MA 02109  
FTS: 835-8806; COMM: (617) 565-8806

Ph.D. Physical Geography  
Rutgers University 1973

Current and Recent Research: Dynamics of beach erosion at Riis Park (Gateway NRA); role of off-road vehicles on dune scarping and beach erosion (Cape Cod NS); beach dynamics in altered shoreline systems (Gateway NRA, Canaveral NS, and Gulf Islands NS); nearshore processes (Fire Island NS); dune dynamics and management (Cape Cod NS and Acadia NP); off-road vehicle impacts on beaches (Cape Cod NS and Fire Island NS); beach nourishment and sediment transport (Gateway NRA).

Buckley, Paul A.

Research Administrator  
CPSU Unit Leader  
Center for Coastal and Environmental Studies  
Rutgers University  
Doolittle Hall  
New Brunswick, NJ 08903  
FTS: 347-3119; COMM: (201) 932-3140

Ph.D. Vertebrate Zoology  
Cornell University 1966

Current and Recent Research: Bird strike control/Laughing Gull populations (JFK/Gateway NRA); colonial waterbird management along NY/NJ coast (Gateway NRA/Fire Island NS).

RESEARCH GRADE SCIENTISTS: NAR

Foley, Mary

Forest Ecologist  
National Park Service  
North Atlantic Regional Office  
15 State Street  
Boston, MA 02109  
FTS: 835-8802; COMM: (617) 565-8802

Ph.D. Ecological Plant Geography  
Boston University 1987

Current and Recent Research: Ecological studies of unique forest communities;  
determination of air quality impacts through dendrochronology (Acadia NP).

Portnoy, John

Research Biologist  
Cape Cod National Seashore  
South Wellfleet, MA 02663  
FTS: 223-2100; COMM: (617) 349-3785

M.S. Wildlife Biology  
University of Massachusetts, Amherst 1974

Current and Recent Research: Acid rain impacts on Vernal and Kettle Ponds  
(Cape Cod NS); ecological effects of salt marsh diking and drainage, including  
effects on plant succession, water quality and mosquito breeding ecology  
(Herring River, Cape Cod NS); oxygen flux at the salt/fresh estuary boundary;  
temporary pond chemistry in relation to amphibian reproductive success;  
inventories and analysis of the "bird use" component of the baseline survey  
and ecological analysis of Nauset Marsh.

RESEARCH GRANTS-GRADE SCIENTIST: NAR

Soukup, Michael A.

Regional Chief Scientist  
National Park Service  
North Atlantic Regional Office  
15 State Street  
Boston, MA 02109  
FTS: 835-8805; COMM: (617) 565-8805

Ph.D. Limnology  
University of Massachusetts, Amherst 1976

Current and Recent Research: Wetland ecology and mitigation/restoration of wetlands managed for mosquito control and reclamation in general; cultural eutrophication and long-term preservation of sensitive lake ecosystems.



PACIFIC NORTHWEST REGION

RESEARCH GRADE SCIENTISTS: PNR

Houston, Doug

Research Biologist  
Olympic National Park  
660 East Park Avenue  
Port Angeles, WA 98362  
FTS: 396-4236; COMM: (206) 452-4501 Ext. 236

Ph.D. Zoology  
University of Wyoming 1967

Current and Recent Research: Ecology and management of native and introduced ungulates; ecology and management of anadromous fish.

Johnson, Darryll

Social Scientist  
Cooperative Park Study Unit  
University of Washington  
College of Forest Resources, AR-10  
Seattle, WA 98195  
(206) 545-7404

M.S. Sociology of Leisure/Organizational Behavior  
South Dakota State University 1970

Current and Recent Research: Human impact and natural resource management (Mt. Rainier NP); carrying capacity study (Glacier Bay NP/Pres).

RESEARCH GRADE SCIENTISTS: PNR

Larson, Gary

Research Aquatic Ecologist  
Cooperative Park Study Unit  
Oregon State University  
College of Forestry  
Corvallis, OR 97331  
(503) 754-2043

Ph.D. Zoology/Aquatic Ecology  
University of British Columbia, B.C. Canada 1972

Current and Recent Research: Limnological study (Crater Lake NP); water resources baseline studies (Mt. Rainier NP, Olympic NP, Aniakchak NM); impact of fishes on lake ecosystems (North Cascades NP complex).

Schreiner, Ed

Research Biologist  
Olympic National Park  
600 East Park Avenue  
Port Angeles, WA 98362  
FTS: 396-4244; COMM: (206) 452-4501

Ph.D. Forest Ecology  
University of Washington 1982

Current and Recent Research: Effects of non-native mountain goats on vegetation; native elk/old growth forest interactions; endemic/rare plant studies.

RESEARCH GRADE SCIENTISTS: PNR

Starkey, Ed

Research Biologist/  
CPSU Unit Leader  
Cooperative Park Study Unit  
Oregon State University  
College of Forestry  
Corvallis, OR 97331  
(503) 754-2056

Ph.D. Zoology/Biology  
Washington State University 1972

Current and Recent Research: Ecology of elk (Pacific Northwest parks); heavy metals in terrestrial ecosystems (Mt. Rainier NP and Olympic NP); ecology and nutrition of elk; rangeland ecology (John Day Fossil Beds NM, Whitman Mission NHS, and Great Basin NP).

Wright, Gerry

Research Biologist/  
CPSU Unit Leader  
Cooperative Park Study Unit  
University of Idaho  
College of Forestry  
Moscow, ID 83843  
(208) 885-7990

Ph.D. Systems Ecology and Range Ecology  
Colorado State University 1972

Current and Recent Research: Ungulate population modelling (Pacific Northwest parks); natural resources data base management (Servicewide); baseline monitoring and inventory studies; plant community analysis (Craters of the Moon NM); revegetation of arid range lands; application of geographic information systems to resource management.

RESEARCH GRANTS-GRADE SCIENTIST: PNR

Larson, Jim

Regional Chief Scientist  
National Park Service  
Pacific Northwest Regional Office  
83 South King Street, Suite 212  
Seattle, WA 98104  
FTS: 399-4176; COMM: (206) 442-4176

M.S. Forest Ecology  
University of Washington 1972

Current and Recent Research: None (research administration).

## ROCKY MOUNTAIN REGION

RESEARCH GRADE SCIENTISTS: RMR

Blanchard, Bonnie M.

Research Wildlife Biologist  
Interagency Grizzly Bear Study Team  
Forestry Sciences Lab  
Montana State University  
Bozeman, MT 59717  
FTS: 585-4915; COMM: (406) 994-5041

M.S. Fishery/Wildlife  
Montana State University 1977

Current and Recent Research: Grizzly bear ecology (Yellowstone NP).

Despain, Don G.

Research Biologist  
Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190  
FTS: 585-0248; COMM: (307) 344-7381

Ph.D. Plant Ecology  
University of Alberta, BC, Canada 1971

Current and Recent Research: General plant ecology including aspen response to fire and grazing (Yellowstone NP).

RESEARCH GRADE SCIENTISTS: RMR

Hamilton, Wayne L.

Research Geologist  
Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190  
FTS: 585-0248; COMM: (307) 344-7381

Ph.D. Geology  
The Ohio State University 1969

Current and Recent Research: Recent, historical, and current unrest of Yellowstone Caldera using lake level and paleo-shoreline deformation measurements to develop a rationale for prediction of volcanic and phreatic explosion hazards; defining geothermal aquifers in boundary areas using mercury and radon as natural tracers; developing means to predict effects on significant thermal features in Yellowstone from possible geothermal development nearby.

Hayden, Peter S.

Research Aquatic Biologist  
Grand Teton National Park  
P.O. Box 170  
Moose, WY 83012  
FTS: 328-4262; COMM: (307) 733-2880

M.S. Zoology  
University of Wyoming 1968

Current and Recent Research: Snake River cutthroat trout studies; Jackson Lake limnological studies (Grand Teton NP).



RESEARCH GRADE SCIENTISTS: RMR

Hutchinson, Roderick A.

Research Geologist  
Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190  
FTS: 585-0248; COMM: (307) 344-7381

M.S. Earth Science/Geology  
Iowa State University 1978

Current and Recent Research: Geology and thermal action of the Norris Geyser Basin (Yellowstone NP); effects of the 1983 Borah Peak earthquake on Old Faithful and other features of the Upper Geyser Basin (Yellowstone NP).

Keigley, Richard B.

Research Ecologist  
Rocky Mountain National Park  
Estes Park, CO 80517  
(303) 586-2371

Ph.D. Plant Ecology  
University of Colorado 1987

Current and Recent Research: Effects of acid deposition on a species of alpine plant (Rocky Mountain NP); effects of Trail Ridge Road on alpine plant communities (Rocky Mountain NP); development of methods to restore disturbed sites so as to produce plant communities having natural analogs while preserving genetic integrity, including techniques (a) to develop, on disturbed sites, soils with qualities approximating those of mature, natural soils in analogous environmental conditions; (b) to enhance recruitment to the developing populations from seeds in the seed bank that might not normally germinate under ambient conditions; and (c) to determine the effects of changes in surface texture on natural immigration.

RESEARCH GRADE SCIENTISTS: RMR

Kendall, Katherine C.

Wildlife Biologist  
Glacier National Park  
West Glacier, MT 59936  
(406) 888-5441

M.S. Fish and Wildlife Management  
Montana State University 1981

Current and Recent Research: Relationships between food production and grizzly bear behavior towards humans (Glacier NP); trends in grizzly/human interactions (Glacier NP).

Klukas, Richard W.

Research Biologist  
Wind Cave National Park  
Hot Springs, SD 57747  
(605) 745-4600

M.S. Forest Recreation/Wildlife Management  
University of Minnesota 1965

Current and Recent Research: Effects of large herbivores on plant communities; food habits of coyotes; detection of seasonal and long-term changes in ungulate diets; effects of fire on cacti; natural mortality of elk and bison; taphonomic analysis of bone-weathering and dispersal; population dynamics of Canada thistle and other exotic plant species.

RESEARCH GRADE SCIENTISTS: RMR

Knight Richard R.

Research Biologist  
Interagency Grizzly Bear Study Team  
Forestry Sciences Lab  
Montana State University  
Bozeman, MT 59717  
FTS: 585-4915; COMM: (406) 994-5041

Ph.D. Fish and Wildlife Management  
University of Minnesota 1968

Current and Recent Research: Grizzly bear ecology (Yellowstone NP).

Marnell, Leo F.

Research Fisheries Biologist  
Glacier National Park  
West Glacier, MT 59936  
(406) 888-5441

Ph.D. Aquatic Ecology  
Colorado State University 1969

Current and Recent Research: Fishery research and management (Glacier NP);  
management of cutthroat trout (Glacier NP) including genetic and ecological  
impacts resulting from non-native fish introductions.

RESEARCH GRADE SCIENTISTS: RMR

Martinka, Clifford J.

Senior Research Scientist  
Glacier National Park  
West Glacier, MT 59936  
(406) 888-5441

M.S. Fish and Wildlife Management  
Montana State University 1965

Current and Recent Research: Long-term trends in relationships between grizzly bears and park visitors; long-term trends of monitoring elk and mule deer populations; the philosophy and applications of science in national parks.

Mattson, David J.

Wildlife Biologist  
Interagency Grizzly Bear Study Team  
Forestry Sciences Lab  
Montana State University  
Bozeman, MT 59717

FTS: 585-4915 COMM: (406) 994-5041

M.S. Forest Ecology  
University of Idaho 1984

Current and Recent Research: Grizzly bear habitat use, food habits, and foraging ecology; effects of human activities on grizzly bears and their use of habitat (the greater Yellowstone area).

RESEARCH GRADE SCIENTISTS: RMR

McClelland, B. Riley

Research Biologist  
Glacier National Park  
West Glacier, MT 59936  
(406) 888-5441

Ph.D. Wildlife Habitat  
University of Montana 1977

Current and Recent Research: Nesting ecology of bald eagles in Glacier NP; migration routes and habitat use of bald eagles at the autumn concentration in Glacier NP; behavior and distribution of the different age classes of bald eagles at autumn concentration in Glacier NP; implications of prey base collapse/bald eagle concentration in Glacier NP; ecology of the pileated woodpecker in and near Glacier NP; nest site characteristics of cavity-nesting birds in and near Glacier NP.

McCutchen, Henry E.

Research Wildlife Biologist  
Rocky Mountain National Park  
Estes Park, CO 80517  
(303) 586-2371

Ph.D. Fish and Wildlife Biology  
Colorado State university 1981

Current and Recent Research: Black bear, grizzly bear, and bighorn sheep (desert and mountain) ecology, behavior, management and restoration; national park boundary conflicts in relation to population dynamics and behavior of large mammals; national park size in relation to minimum viable population size in large carnivores; wilderness wildlife management (all in Rocky Mountain NP).

RESEARCH GRADE SCIENTISTS: RMR

Singer, Francis J.

Research Ecologist  
Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190  
FTS: 585-0389; COMM: (307) 344-7381

M.S. Wildlife Ecology  
University of Idaho 1975

Current and Recent Research: Elk movements and habitat use; effects of possible wolf restoration upon native ungulates; moose ecology and census techniques; the question of whether elk overgraze the northern range of Yellowstone; the role of secondary compounds on the northern range of Yellowstone; effects of the 1988 fires upon elk ecology; conditions of wintering elk and bison as determined by snow-urine analysis; elk sightability.

Stevens, David R.

Supervisory Research Biologist  
Rocky Mountain National Park  
Estes Park, CO 80517  
(303) 586-2371

M.S. Fish and Wildlife Management  
Montana State University 1965

Current and Recent Research: Bighorn sheep ecology; range use and movements of sheep in Never-summer Mountains; ungulate (elk and mule deer) long-term (1968 to present) range and habitat conditions; vegetation succession on the Ouzel burn (1979 to present); restoration of the threatened greenback cutthroat trout.

RESEARCH GRANTS-GRADE SCIENTISTS: RMR

Schiller, Robert

Assistant Chief Regional Scientist  
National Park Service  
Rocky Mountain Regional Office  
12795 W. Alameda Parkway  
P.O. Box 25287  
Denver, CO 80225-0287  
FTS: 327-2652; COMM: (303) 969-2652

Ph.D. Wildlife Ecology  
University of Minnesota 1973

Current and Recent Research: Research administration and development of Rocky Mountain Region research program.

Varley, John D.

Chief, Research Division/Research Administrator  
Yellowstone National Park  
P.O. Box 168  
Yellowstone National Park, WY 82190  
FTS: 585-0248; COMM: (307) 344-7381

M.S. Fisheries Biology  
University of Utah 1967

Current and Recent Research: Management and supervision of in-park interdisciplinary research program.

## SOUTHEAST REGION



RESEARCH GRADE SCIENTISTS: SER

Bratton, Susan P.

Research Biologist  
CPSU Unit Leader  
National Park Service  
Cooperative Park Study Unit  
University of Georgia  
Institute of Ecology  
Athens, GA 30602  
(404) 542-6015

Ph.D. Vegetation Ecology  
Cornell University 1975

Current and Recent Research: Fire ecology of Southeast seashore parks (Cape Hatteras NS, Cape Lookout NS, Cumberland Island NS, and Cape Canaveral, Canaveral NS); effects of exotic species and grazing on ecosystem dynamics (Cumberland Island NS); vegetation history (numerous areas); plant poaching; rare and endangered species.

Cofer-Shabica, Stephen V.

Research Oceanographer  
National Park Service  
Cooperative Park Study Unit  
University of Georgia  
Institute of Geology  
Athens, GA 30602  
(404) 542-2968

Ph.D. Oceanography  
Oregon State University 1976

Current and Recent Research: Impact of freshwater canals on a marine ecosystem (Biscayne NP); coral diseases (Biscayne NP); environmental monitoring program (Kings Bay, GA); groundwater hydrology (Cumberland Island NS); barrier island processes; coastal geomorphology (Cape Hatteras NS, Canaveral NS, Gulf Islands NS, Cumberland Island NS, Golden Gate NRA).

RESEARCH GRADE SCIENTISTS: SER

Nodvin, Stephen C.

CPSU Unit Leader  
NPS-CPSU  
The University of Tennessee  
Department of Forestry, Wildlife,  
and Fisheries  
Knoxville, TN 37901-1071  
(615) 974-0739  
Bitnet: PA120028 @ UTKVM1

Ph.D. Ecology and Evolutionary Biology  
Cornell University 1983

Current and Recent Research: Biogeochemistry of ecosystems; chemistry of surface waters; ecosystem and community ecology; acidic deposition effects; global climate concerns.

Noe, Francis P.

Regional Research Sociologist  
National Park Service  
Southeast Regional Office  
75 Spring Street, S.W.  
Atlanta, GA 30303  
FTS: 242-4916; COMM: (404) 331-4916

Ph.D. Sociology, Social Psychology  
State University of New York at Buffalo 1972

Current and Recent Research: Visual perception studies (Blue Ridge Parkway); visitor evaluation studies (Biscayne NP, Virgin Islands NP, Gulf Islands NS, Castillo de San Marcos NM); communications aspects of media use and attitudes (Biscayne NP); recreation and leisure lifestyle influences.

RESEARCH GRADE SCIENTISTS: SER

Parker, Charles R.

Research Aquatic Biologist  
Uplands Field Research Laboratory  
Great Smoky Mountains National Park  
Gatlinburg, TN 37738  
FTS: 856-1244; COMM: (615) 436-7120

Ph.D. Entomology  
Virginia Polytechnic Institute and State University 1980

Current and Recent Research: Population genetics of brook trout; barriers to the upstream movement of exotic trout; structures and functions of aquatic ecosystems.

Quinlan, James F.

Research Geologist  
Mammoth Cave National Park  
Mammoth Cave, KY 42259  
(502) 758-2317 or 2394 (with answering machine)

Ph.D. Geology  
University of Texas, Austin 1978

Current and Recent Research: Hydrogeology of karst areas (terrane underlain by limestone or dolomite and characterized by caves, springs, sinkholes, and sinking streams); groundwater tracing with dyes; groundwater monitoring; environmental problems in karst terranes; evaluation of landfills; sinkhole development and remediation.

RESEARCH GRADE SCIENTISTS: SER

Robertson, William B., Jr.

Research Biologist  
Everglades National Park  
P.O. Box 279  
Homestead, FL 33030  
FTS 350-4653; COMM: (305) 245-5266

Ph.D. Zoology  
University of Illinois, Urbana 1955

Current and Recent Research: Faunistic ornithology of southern Florida NPS areas; biology and distribution of red-cockaded woodpecker (Big Cypress NP); population biology of seabirds (especially sooty tern) and raptors (especially bald eagle) (Everglades NP, Ft. Jefferson NM); ecology of rockland ecosystems (Everglades NP).

Rogers, Caroline

Research Biologist  
Virgin Islands National Park  
P.O. Box 7789, Charlotte Amalie  
St. Thomas, VI 00801  
(809) 776-4704

Ph.D. Ecology  
University of Florida 1977

Current and Recent Research: Coral reef protection (Virgin Islands NP/Buck Island Reef NM); monitoring of fishery population (Virgin Islands NP); vegetation analysis (Virgin Islands NP).

RESEARCH GRADE SCIENTISTS: SER

Simons, Ted

Research Biologist  
Gulf Islands National Seashore  
3500 Park Road  
Ocean Springs, MS 39564  
(601) 875-9057

Ph.D. Ornithology  
University of Washington 1983

Current and Recent Research: Mammal inventory (Gulf Islands NS); re-introduction of south bald eagles (Gulf Islands NS); beach dynamics (Gulf Islands NS).

Snyder, James

Research Biologist  
Big Cypress National Preserve  
Star Route, Box 110  
Ochopee, FL 33943  
(813) 695-2000

Ph.D. Botany (Ecology)  
University of Florida 1984

Current and Recent Research: Fire ecology (Big Cypress NP); off-road vehicle trail recovery (Big Cypress NP); Florida panther food preferences and habitat use (Big Cypress NP); rare and endangered plant survey; site restoration of seasonal wetlands.

RESEARCH GRADE SCIENTISTS: SER

Tilmant, James T.

Research Marine Biologist  
Everglades National Park  
South Florida Research Center  
P.O. Box 279  
Homestead, FL 33030  
FTS: 350-4653; COMM: (305) 245-5266

M.S. Wildlife Biology  
Humboldt State University 1975

Current and Recent Research: Ecosystem program involving about 20 different studies in biological and physical sciences (Florida Everglades Research Center).

RESEARCH GRANTS-GRADE SCIENTIST: SER

Dottavio, F. Dominic

Regional Chief Scientist  
National Park Service  
Southeast Regional Office  
75 Spring Street, S.W.  
Atlanta, GA 30303  
FTS: 242-4916; COMM: (404) 331-4916

Ph.D. Forestry  
Purdue University 1979

Current and Recent Research: Leisure behavior changes across the human life span and differences in motivations/perceptions of international visitors to national parks.

## SOUTHWEST REGION



RESEARCH GRANTS-GRADE SCIENTIST: SWR

Fletcher, Milford R.

Regional Chief Scientist  
National Park Service  
Southwest Regional Office  
P.O. Box 728  
Santa Fe, NM 87504-0728  
FTS: 476-6412; COMM: (505) 988-6412

Ph.D. Animal Ecology  
Washington State University 1973

Current and Recent Research: Taping of major bat emergence flights with a portable video cassette recorder and a photomultiplier night scope for tape analysis by computer to determine actual number of bats photographed; monitoring of pesticide levels in various wildlife populations, primarily bats.

## WESTERN REGION

RESEARCH GRADE SCIENTISTS: WR

Bennett, Peter

Research Scientist  
National Park Service  
Cooperative Park Study Unit  
University of Arizona  
P.O. Box 41058  
Tucson, AZ 85717  
FTS: 762-6896; COMM: (602) 629-6985

M.S. Plant Ecology  
San Jose State University 1964

Current and Recent Research: Biological assessment of Quitoboquito management area (Organ Pipe Cactus NM).

Davis, Gary

Research Marine Biologist  
Channel Islands National Park  
Cooperative Park Study Unit  
University of California  
1901 Spinnaker Drive  
Ventura, CA 93001  
(805) 644-8157

M.S. Biology  
San Diego State College 1971

Current and Recent Research: Kelp forest monitoring design study (Channel Islands NP); fisheries monitoring design study; natural resources monitoring systems analysis.

RESEARCH GRADE SCIENTISTS: WR

Douglas, Charles

Senior Research Scientist/  
CPSU Unit Leader  
National Park Service  
Cooperative Park Study Unit  
University of Nevada  
Department of Biological Science  
Las Vegas, NV 89154  
FTS: 598-6468; COMM: (702) 598-6468

Ph.D. Zoology  
University of Kansas 1967

Current and Recent Research: Bighorn sheep ecology (Death Valley NM);  
monitoring vegetative recovery (Death Valley NM); bighorn sheep populations--  
River Mountain Bighorn Sheep model development (Lake Mead NRA).

Fellers, Gary

Research Biologist  
Point Reyes National Seashore  
Cooperative Park Study Unit  
University of California  
Point Reyes, CA 94956  
(415) 663-8522

Ph.D. Zoology  
University of Maryland 1976

Current and Recent Research: Terrestrial vertebrate and invertebrate  
population dynamics (Channel Islands NP); island night lizard study (Channel  
Islands NP); small mammal study (Pinnacles NM); vegetation assessment and  
monitoring (Point Reyes NS).

RESEARCH GRADE SCIENTISTS: WR

Gardner, Donald

Research Scientist  
National Park Service  
Cooperative Park Study Unit  
University of Hawaii  
Department of Botany  
3190 Maile Way  
Honolulu, HI 96822  
FTS: 551-1247; COMM: (808) 541-1247

Ph.D. Plant Pathology  
Utah State University 1971

Current and Recent Research: Biological control of alien plants (Hawaii Volcanoes NP, Haleakala NP); chemical control of alien plants (Hawaii Volcanoes NP, Haleakala NP); plant disease investigations (Hawaii Volcanoes NP, Haleakala NP).

Graber, David M.

Research Scientist  
Sequoia-Kings Canyon National Parks  
Cooperative Park Study Unit  
University of California  
Three Rivers, CA 93271  
(209) 565-3341

Ph.D. Zoology  
University of California at Berkeley 1980

Current and Recent Research: Geographic information system research (Sequoia-Kings Canyon NPs); black bear and bighorn sheep ecology (Sequoia-Kings Canyon NPs); effects of acid precipitation on Sierran ecosystems.

RESEARCH GRADE SCIENTISTS: WR

Halvorson, William

Research Scientist  
Channel Islands National Park  
Cooperative Park Study Unit  
University of California  
1901 Spinnaker Drive  
Ventura, CA 93001  
(805) 644-8157

Ph.D. Botany  
Arizona State University 1970

Current and Recent Research: Terrestrial vegetation dynamics (Channel Islands NP); endangered species study (Channel Islands NP).

Johnson, R. Roy

Senior Research Scientist  
National Park Service  
Cooperative Park Study Unit  
University of Arizona  
P.O. Box 41058  
Tucson, AZ 85721  
FTS: 762-6886; COMM: (602) 629-6896

Ph.D. Systems Botany  
University of Kansas 1964

Current and Recent Research: Saguaro boundary study (Saguaro NM); sensitive ecosystem program (Organ Pipe Cactus NM); endangered species/vertebrate inventory (Chiricahua NM); peregrine falcon study (Grand Canyon NP); salt cedar control study.

RESEARCH GRADE SCIENTISTS: WR

Loope, Lloyd

Research Scientist  
Haleakala National Park  
Cooperative Park Study Unit  
University of Hawaii  
P.O. Box 369  
Makawao, Maui, HI 96768  
(808) 572-1983

Ph.D. Botany  
Duke University 1969

Current and Recent Research: Vegetation dynamics and biotic relationships (Haleakala NP); status of native flora (Haleakala NP).

Parsons, David J.

Research Scientist  
Sequoia-Kings Canyon National Parks  
Cooperative Park Study Unit  
University of California  
Three Rivers, CA 93271  
(209) 565-3341

Ph.D. Plant Ecology  
Stanford University 1973

Current and Recent Research: Effects of acid precipitation on Sierran ecosystems (Sequoia-Kings Canyon NPs); giant Sequoia fire study (Sequoia-Kings Canyon NPs); wilderness impact studies (Sequoia-Kings Canyon NPs).

RESEARCH GRADE SCIENTISTS: WR

Schonewald-Cox, Christine

Research Scientist  
Cooperative Park Study Unit  
University of California  
Department of Environmental Studies  
Wickson Hall  
Davis, CA 95616  
FTS: 460-1595; COMM: (916) 752-2088

Ph.D. Zoology  
University of Maryland 1977

Current and Recent Research: Boundary processes (Servicewide); inventory and management of biodiversity (Servicewide); guidelines for small population management (Servicewide).

Stone, Charles

Research Scientist  
Hawaii Volcanoes National Park  
Cooperative Park Study Unit  
University of Hawaii  
P.O. Box 52  
Hawaii Volcanoes National Park, HI 96718-0052  
(808) 967-8211

Ph.D. Zoology  
Ohio State University 1973

Current and Recent Research: Feral pig control (Hawaii Volcanoes NP); Kipahulu Valley feral pig control (Haleakala NP); feral goat research (Hawaii Volcanoes NP & Haleakala NP); small mammal research (Hawaiian parks); alien plant control research (Hawaiian parks).



RESEARCH GRADE SCIENTISTS: WR

Van Riper, Charles

Research Scientist  
Cooperative Park Study Unit  
University of California  
Wickson Hall  
Davis, CA 95616  
FTS: 460-1595; COMM: (916) 752-6273

Ph.D. Zoology  
University of Hawaii 1978

Current and Recent Research: Land bird dynamics (Channel Islands NP); land bird diseases (Hawaii Volcanoes NP); great grey owl (Yosemite NP).

Van Wagtendonk, Jan

Research Scientist  
Yosemite National Park  
Cooperative Park Study Unit  
University of California  
P.O. Box 577  
Yosemite National Park, CA 95389  
FTS: 448-4465; COMM: (209) 372-0465

Ph.D. Wildland Resources Science  
University of California at Berkeley 1972

Current and Recent Research: Geographic information system research (Yosemite NP); bighorn sheep (Yosemite NP); fire ecology (Yosemite NP).

RESEARCH GRADE SCIENTISTS: WR

Veirs, Stephen D.

CPSU Unit Leader  
Cooperative Park Study Unit  
University of California  
Department of Environmental Studies  
Wickson Hall  
Davis, CA 95616  
FTS: 460-1595; COMM: (916) 752-6086

M.S. Plant Physiology  
Ohio State University 1966

Current and Recent Research: Redwood second growth forest ecology (Redwood NP); prairie monitoring system (Redwood NP); vegetation history (Redwood NP); groundwater/surface water restoration plan (Redwood NP); coastal redwood ecology.

WASHINGTON OFFICE

RESEARCH GRADE SCIENTISTS: WASO

Boyle, Terence P.

Research Ecologist  
National Park Service  
Water Resources Division  
Aylesworth Hall  
Colorado State University  
Fort Collins, CO 80523  
(303) 491-1452

Ph.D. Bioscience  
University of Arizona 1979

Current and Recent Research: Application of community level biological indices to problems of biological assessment and long-term resource inventory in national parks (Acadia NP, St. Croix Island International HS, Ozark NSR, Rocky Mountain NP, Olympic NP, Capitol Reef NP, Bering Land Bridge NP Pres., Wilsons Creek NB, and Agate Fossil Beds NM).

Malm, William C.

Research Physicist  
National Park Service  
Air Quality Division  
CIRA  
Foothills Campus  
Colorado State University  
Fort Collins, CO 80523  
(303) 491-8292

Ph.D. Nuclear Physics  
University of Missouri 1972

Current and Recent Research: Monitoring to obtain aerosol mass, ion, organic carbon, elemental carbon, and trace elements in two size ranges using multi-stage cyclone particulate samplers at 34 NPS units; collected information using cameras and transmissometers at a total of 55 NPS units; research into improving monitoring techniques, with the data from these efforts used in performing analysis to (1) determine causes of visibility degradation; (2) further establish the roles that sulfur, organic and elemental carbon, and nitrates play in visibility reduction; (3) refine source-receptor techniques in order to calculate relative impacts of local and long-distance sources; and (4) compare the relative contribution of point source emission to visibility reduction.

RESEARCH GRANTS-GRADE SCIENTIST: WASO

Henderson, Don

Meteorologist  
National Park Service  
Air Quality Division  
P.O. Box 25287  
Denver, CO 80120  
FTS: 327-2073; COMM: (303) 969-2073

M.S. Meteorology  
University of Utah 1968

Current and Recent Research: Acquisition of meteorological equipment, siting, and data; modeling of atmospheric dispersion (complex terrain; atmospheric transport processes associated with acid deposition); regional and mesoscale modeling for sulfur dioxide, sulfates, ozone, and ozone precursors; modeling of atmospheric visibility; modeling of night sky glow from human-made lighting (i.e., light pollution effects); meteorology in smoke management.

