

Keith Boggs
Program Manager, Alaska Natural Heritage Program
Environment and Natural Resources Institute
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EDUCATIONAL BACKGROUND

Montana State University M.S., Plant Ecology, 1984.
University of Montana B.S., Wildlife Biology, 1978. Honors

PROFESSIONAL EXPERIENCE

1997 to present Program manager (interim initially)/Ecologist, Alaska Natural Heritage Program,
Environment and Natural Resources Institute, University of Alaska Anchorage,
Anchorage
1992 to 1997 Ecologist, Alaska Natural Heritage Program, ENRI, UAA
1989 to 1992 Research Specialist IV, University of Montana, Missoula, MT
1983 to 1989 Research Assistant, Western Ag. Research Center, Montana State University,
MT

National Leadership Positions

2003 to 2004 Chair of the US Section Council, NatureServe
2000 to 2004 Co-leader of the NatureServe Western USA Section Council

GRANTSMANSHIP (Past 5 years)

Tracey Gotthardt and Keith Boggs. 2004. Partnership in Nongame Wildlife Research and Data Management for the State of Alaska's Wildlife Conservation Plan. Alaska Department of Fish and Game. (\$150,000)

Keith Boggs and Daniel Rinella. 2004. Large woody debris recruitment and white spruce (*Picea glauca*) regeneration in forests disturbed by spruce bark beetle (*Dendroctonus rufipennis*) in the Anchor River Watershed, Alaska. USDA State and Private Forestry (\$225,000)

Keith Boggs. 2004. Ecosystem and plant association classification for Kenai Fjords National Park and Preserve. USDI National Park Service (\$187,155)

Keith Boggs. 2004. Conceptual modeling of the ecosystem for the Vital Signs Monitoring Program in the Southeast Alaska Inventory and Monitoring Network. USDI National Park Service (\$64,000)

Julie Michaelson and Keith Boggs 2004. Data Delivery. NatureServe. (\$9,986)

Keith Boggs. 2003. Potential Funding Sources and Partnerships between the BP's Environmental Studies Program and Government and Non-Government Organizations. BP. (\$45,000)

Keith Boggs and Tracey Gotthardt. 2003. Partnership in Nongame Wildlife Research and Data Management for the State of Alaska's Wildlife Conservation Plan. Alaska Department of Fish and Game. (\$150,000)

Keith Boggs. 2002. Yukon-Charley Rivers National Park and Preserve plant association classification. USDI National Park Service (\$98,325)

Eve Witten and Keith Boggs. 2002. Tuxedni to Kamishak Site Conservation Plan. USDI Fish & Wildlife Service (\$10,000)

Keith Boggs. 2001. Range and Habitat Use by Species of Concern on Southwest and Southcentral Alaskan National Wildlife Refuges. US Fish and Wildlife Service. (\$30,000)

Keith Boggs. 2001. Glacier Bay National Park and Preserve landcover map and plant association classification. USDI National Park Service (\$260,950—includes modifications)

Keith Boggs and Gerald Tande. 2001. Ecological Subsection Maps. USDI National Park Service (\$126,449)

Keith Boggs 2000. Information synthesis for Inventory and Monitoring Program. USDI National Park Service (\$312,739)

Keith Boggs. 2000. Katmai National Park and Preserve landcover map and plant association classification. USDI National Park Service (\$55,665)

Keith Boggs. 2000. Development of a Wetland Classification for the Kenai Peninsula Lowlands. Kenai Watershed Forum. (\$ 95,010)

Keith Boggs. 1999. Denali National Park and Preserve landcover map and plant association classification. USDI National Park Service (\$93,168)

Keith Boggs. 1998. Gates of the Arctic National Park and Preserve landcover map and plant association classification. USDI National Park Service (\$72,725)

Proposals Being Considered

Buck Sharpton, Keith Boggs and Tom Marr. 2004. Establishing an Alaska Node within the National Biological Information Infrastructure. Draft Federal Initiative Proposal, Related UA/MAU Strategic Area. (Asked to resubmit in 2005, \$15,000,000 over 5 years)

Keith Boggs. 2004. Ecosystem and plant association classification for Kenai Fjords National Park and Preserve. USDI National Park Service (\$50,000)

PUBLICATIONS

Species Inventory

Carlson, M.L., **K. Boggs**, R. Lipkin and J.A. Michaelson. 2004. Glacier Bay National Park and Preserve vascular plant inventory. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501. In final prep.

Smith, W.P. M.J. Stotts, B.A. Andres, J.M. Melton, A. Garibaldi, and **K. Boggs**. 2002. Bird, mammal, and vegetation community surveys of research natural areas in the Tongass National Forest. Pacific Northwest Research Station, U.S. Forest Service, Portland, OR. Research Paper PNW-RP-535. 50 p.

Boggs, K. 1977. Wildlife resources of the Wales Creek drainage in Western Montana. Bureau of Land Management technical report. 35 p.

Ecosystems and Disturbance Processes

Boggs, K., and M.L. Carlson. Vegetation succession at fine and coarse scales following deglaciation in Glacier Bay, Alaska. In Prep.

Boggs K., and J. Michaelson. 2001. Ecological Subsections of Gates of the Arctic National Park and Preserve. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501

Duffy, D.C., **K. Boggs**, R. Hagenstein, R. Lipkin and J.A. Michaelson. 1999. A landscape assessment of the degree of protection of Alaska's terrestrial biodiversity. Conservation Biology. Volume 13, no. 6, December 1999. pgs 1332-1343.

Boggs, K., and M. Shephard. 1999. Response of marine deltaic surfaces to major earthquake uplifts in south-central Alaska. Wetlands, Vol. 19, No. 1. 13-27.

Boggs, K., and R. DeVelice. 1997. Stepwise procedure for selecting Research Natural Area sites within the Copper River Delta. Alaska Natural Heritage Program, University of Alaska Anchorage. 20 p.

Boggs, K., and D. Duffy. 1996. Ecological review of the Lake George National Natural Landmark. Alaska Natural Heritage Program, University of Alaska Anchorage. 48 p.

Boggs, K., and T. Weaver. 1994. Changes in vegetation and nutrient pools during riparian succession. Wetlands, Vol. 14, no. 2.

Boggs, K. 1984. Succession in riparian communities of the lower Yellowstone River. Masters Thesis, Montana State University. 107 p.

Plant Association Classifications

Boggs, K., B. Koltun, J. Grunblatt and M. Sturdy. 2004. Plant associations and post-fire vegetation succession in Yukon-Charley Rivers National Preserve. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501. 186 p. *In final prep.*

Boggs, K., J. Grunblatt, S. C. Klein, G. Streveler and B. Koltun. 2003. Draft of Landcover classes, plant associations and ecoregions of Glacier Bay National Park and Preserve. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501 *In final prep.*

Boggs, K., S. C. Klein, J. Grunblatt and B. Koltun. 2003. Landcover classes, ecoregions and plant associations of Katmai National Park and Preserve. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK 99501. 274 p.

Boggs, K., A. Garibaldi, J. Stevens, J. Grunblatt, and T. Helt. 2001. Denali National Park and Preserve Landcover mapping project. Volume 2: Landcover classes and plant associations. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, 707 A Street, Anchorage, AK. 164 p.

Boggs, K. 2000. Classification of community types, successional sequences, and landscapes of the Copper River Delta, Alaska. Pacific Northwest Research Station, U.S. Forest Service, Portland, OR. General Technical Report PNW-GTR-469. 244 p.

DeVelice, R.L, C.J. Hubbard, **K. Boggs,** S. Boudreau, M. Potkin, T. Boucher, and C. Wertheim. 1999. Plant Community Types of the Chugach National Forest: southcentral Alaska. Alaska Region Technical Publication R10-TP-76. 375 pp.

Hansen, P., R. Pfister, **K. Boggs,** B. Cook, J. Joy and D. Hinckley. 1995. Classification and management of Montana's riparian and wetland sites. Montana Riparian and Wetland Association, School of Forestry, University of Montana, Missoula, MT. Miscellaneous Publication No. 54. 646 p.

Boggs, K., and P. L. Hansen. 1992. Riparian vegetation damage assessment on the Clark Fork River and Silver Bow Creek floodplains. School of Forestry, University of Montana, Missoula, Mt. 27 p.

Boggs, K. 1990. A site classification with management information for riparian and wetland sites in Northwestern Montana. *In:* Management of riparian and wetland forested ecosystems in Montana, Fourth annual Montana Riparian Association workshop. School of Forestry, University of Montana, Missoula, Mt. 48 p.

Landcover Mapping

Stevens, J.L., **K. Boggs**, A. Garibaldi, J. Grunblatt, and T. Helt. 2001. Denali National Park and Preserve Landcover mapping project. Volume 1: Remote sensing data, procedures and results. Earth Satellite Corporation, Rockville, Maryland. 168 p.

Helt, T., **K. Boggs**, A. Garibaldi, S. Wesser, J. Stevens. 2000. Gates of the Arctic National Park and Preserve Landcover Map. Earth Satellite Corporation, Rockville, Maryland. 103 pp.

Tande, G.F. and **K. Boggs**. 1995. Vegetation inventory and mapping of the Kodiak launch complex. Kodiak Launch Complex. Alaska Natural Heritage Program, University of Alaska Anchorage. Appendix 3, 1-14.

Miles, S., **K. Boggs**, P. Hansen, and B. Thompson. 1993. Riparian hardwood inventory of the Fort Peck Indian reservation in Northeastern Montana. School of Forestry, University of Montana, Missoula, Mt. 99 p.

Pfister, R., **K. Boggs**, and M. McCollough. 1991. Methodology for riparian inventory and streamside management zone delineation on the Kootenai National Forest. School of Forestry, University of Montana, Missoula, Mt. 200 p.

Weed Science and Biological Control

Story, J. M., **K. Boggs**, W. R. Good, M. White, and R. M. Nowierski. 1995. Cause and extent of predation on *Urophora* spp. larvae (Diptera: Tephritidae) in spotted knapweed capitula. Environmental Entomology, Vol. 24, no. 6: 1467-1472.

Story, J. M., **K. W. Boggs**, and W. R. Good. 1992. Voltinism and phenological synchrony of *Urophora affinis* and *U. quadrifasciata* (Diptera: Tephritidae), two seed head flies introduced against spotted knapweed in Montana. Environmental Entomology, Vol. 21, no. 5: 1052-1059.

Story, J. M., **K. W. Boggs**, W. R. Good, P. Harris, and R. M. Nowierski. 1991. *Metzneria paucipunctella* Zeller (Lepidoptera: Gelechiidae), A moth introduced against spotted knapweed: its feeding strategy and impact on two introduced *Urophora* spp. (Diptera: Tephritidae). Canadian Entomologist, 123: 1001-1007.

Story, J. M., **K. W. Boggs** and W. R. Good. 1991. First report of the establishment of *Agapeta zoegana* (Lepidoptera: Cochylidae) on spotted knapweed, *Centaurea maculosa* Lamarck, in the United States. Canadian Entomologist, March/April: 411-412.

Story, J. M., **K. W. Boggs**, W. R. Good and R. M. Nowierski. 1989. 2,4-D and mowing effects on seed-head flies used for spotted knapweed control. Montana AgResearch. Fall 1989.

Story, J. M. and **K. W. Boggs**. 1989. Effects of nitrogen fertilization on spotted knapweed and competing vegetation in Western Montana. Journal of Range Management, vol. 42, No. 3, May.

Story, J. M. and **K. W. Boggs**. 1988. Effect of two introduced seed head flies on spotted knapweed. Montana AgResearch. March-April 1989.

Story, J. M., **K. W. Boggs**, and W. R. Good. 1988. Optimal timing of 2,4-D applications for compatibility with *Urophora affinis* and *U. quadrifasciata* (Diptera: Tephritidae) for control of Spotted Knapweed. Environmental Entomology. 17(5): 911-914.

Boggs, K. W. and J. M. Story. 1986. The population age structure of spotted knapweed (*Centaurea maculosa*) in Montana. Weed Science. vol 35:194-198.

Story, J. M., R. M. Nowierski, and **K. W. Boggs**. 1986. Distribution in Montana of *Urophora affinis* and *U. quadrifasciata* (Diptera: Tephritidae), two flies introduced for biological control of spotted knapweed (*Centaurea maculosa*). Weed Science. vol 35.

Miscellaneous

Boggs, K., E. Major, S. Wilbur, S. Flensburg, and R. Anderson. 1999. Development of environmental indicators for the Nushagak/Mulchatna river watershed. Alaska Natural Heritage Program, Environment and Natural Resources Institute, University of Alaska Anchorage, Anchorage, Alaska, and Bristol Bay Native Association, Dillingham, Alaska. 14 pp.

Boggs, K., S. Klein, G. Tande, J. Michaelson and J. Lenz. 1998. Wetland information for southern Alaska: wetland environmental indicators, bibliography, and wetland communities. Environmental Protection Agency, Region 10, Alaska Operations Office, Anchorage, Alaska. 119 pp.

Boggs, K., C. Libbey and J. Michaelson. 1997. Information management for use in watershed planning for Alaska. Environmental Protection Agency, Region 10, Alaska Operations Office, Anchorage, Alaska. 119 pp.

Boggs, K., J.C. Davis, and A.M. Milner. 1997. Aquatic and terrestrial resources of the Kenai River watershed: a synthesis of publications. Environmental Protection Agency, Region 10, Alaska Operations Office, Anchorage, Alaska; EPA 910/R-97-001. 227 p.

NATIONAL AWARDS

First place in the category “Best Data Integration” at the 2000 ESRI user conference for development of the Gates of the Arctic National Park and Preserve Landcover Map. T. Helt, **K. Boggs**, A. Garibaldi, J. Stevens

First place National 1996 Taking Wing award in the category “Investigations” given by the USDA Forest Service for publication of the Classification of community types, successional sequences, and landscapes of the Copper River Delta, Alaska.

GRADUATE COMMITTEE MEMBER

Mike Booz, applying for admission to UAF Biology Department, 2004
Lindsey Flagstad, Biology Department, UAA, 2004
Susan Klein, Alaska Pacific University, 1998 to 2000

SUPERVISED FACULTY AND RESEARCH ASSOCIATES

Gerald Tande, Ecologist, AKNHP, 1997-2004 (*Currently with USFWS, NWI*)
Susan Klein, Ecologist/ Webmaster, AKNHP, 2000-2004
Matt Carlson, Assistant Professor /Program Botanist, AKNHP, 2001-2004
Rob Lipkin, Botanist, AKNHP, 1997-2004
Tracey Gotthardt, Program Zoologist, AKNHP, 1999-2004
Julie Michaelson, Program Data Manager, AKNHP, 1997-2004
Julia Lenz, Assistant Data Manager, AKNHP, 1997-2004
Scott Wilbur, Zoologist, AKNHP, 1997-1998

PROFESSIONAL SERVICE AND MEETINGS

Reviewer for Professional Journals

Natural History-1
Journal of Wetland Scientists-1
River Research and Applications-1

Scientific Workshops and Meetings

NatureServe/The Nature Conservancy Leadership Conferences (*chaired sessions and gave presentations at most conferences*): Arlington VA, Baltimore MD, Michigan, Steamboat CO, 1997-2004
Conservation Biology: Missoula MT 2000, Canterbury UK, 2002
Bonanza Creek LTER (*Panelist*): Fairbanks AK 2002
Society of Wetland Scientists: Anchorage 1999 (*chaired session, presentation*); Portland OR. 1997
UAF School of Natural Resources and Agricultural Sciences (*Reviewer*): Anchorage AK 1999
Riparian-wetland workshops (*Instructor and presenter*): Glendive, Miles City, Missoula, Kalispell MT 1990-1993
Ecology and Management of Riparian Shrub Communities (*Presentation*): Sun Valley ID. 1991

PROFESSIONAL SOCIETIES

Society of Wetland Scientists
Conservation Biology