

Curriculum Vitae
ROBERT ALAN KENNAMER

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The University of Georgia,
Savannah River Ecology Laboratory
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Employment

July 1, 2005–Present
Research Professional I
The University of Georgia
Savannah River Ecology Laboratory

December 1, 1997–July 1, 2005
Research Coordinator I
The University of Georgia
Savannah River Ecology Laboratory

February 1, 1993–November 30, 1997
Research Technician III
The University of Georgia
Savannah River Ecology Laboratory

November 28, 1985–January 31, 1993
Research Technician II
The University of Georgia
Savannah River Ecology Laboratory

Research

Interests

Studies in avian ecology, population ecology,
climate change biological effects, environmental
contaminants

Current Research

Projects

Ecology of breeding Wood Ducks, including factors
affecting individual fitness / fecundity and

offspring quality.

Temporal and spatial patterns of bird populations in relation to bird / aircraft collisions.

Population studies of wintering Ring-necked ducks as related to fitness / survival, migration patterns, and hunter harvest.

Long-term trends in wintering waterfowl use of Savannah River Site reservoirs as related to site operational activities.

Contaminant uptake by U.S. Dept. of Energy Savannah River Site waterfowl and Mourning Doves, and risk to human consumers.

Research Grants

R.A. KENNAMER, AND I.L. BRISBIN, JR. 2010. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—funded \$90,905 (12 months/extension; present study total: \$1,059,887)

R.A. KENNAMER, AND I.L. BRISBIN, JR. 2009. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—\$98,573.00 (12 months/extension)

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2009. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—\$75,039.00 (9 months/extension)

KENNAMER, R.A. 2008. Waterfowl Aerial Surveys of Lake Murray, South Carolina. Sponsored by Kleinschmidt Associates—\$2,323.00 (6 months/extension; final study total: \$6,790)

KENNAMER, R.A. 2007. Waterfowl Aerial Surveys of Lake Murray, South Carolina. Sponsored by Kleinschmidt Associates—\$2,374.00 (6 months/extension)

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2007. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—\$99,308.00 (12 months/extension)

KENNAMER, R.A. 2006. Waterfowl Aerial Surveys of Lake Murray, South Carolina. Sponsored by Kleinschmidt Associates—\$2,093.00 (6 months)

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2006. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—\$96,065.00 (12 months/extension)

HEPP, G.R., AND W.A. HOPKINS. 2006. Costs of Incubation: Linking Incubation-Induced Alterations in Phenotype to Changes in Fitness. Sponsored by The National Science Foundation—\$722,000 (5 yrs). Subaward of \$83,832 directly to **R.A. Kennamer.**

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2005. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The Augusta - Richmond County, Georgia, Consolidated Government—\$95,834.00 (12 months/extension)

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2004. Ecological Study of Birds in the Vicinity of Bush Field Airport and the Augusta Wastewater Treatment Plant. Sponsored by The

Augusta - Richmond County, Georgia, Consolidated
Government—\$81,588.00 (12 months/extension)

BRISBIN, I.L., JR. AND **R.A. KENNAMER**. 2003. Ecological Study
of Birds in the Vicinity of Bush Field Airport and the
Augusta Wastewater Treatment Plant. Sponsored by The
Augusta - Richmond County, Georgia, Consolidated
Government—\$73,327.00 (12 months/extension)

BRISBIN, I.L., JR. AND **R.A. KENNAMER**. 2002. Ecological Study
of Birds in the Vicinity of Bush Field Airport and the
Augusta Wastewater Treatment Plant. Sponsored by The
Augusta - Richmond County, Georgia, Consolidated
Government—\$68,246.00 (12 months/extension)

BRISBIN, I.L., JR. AND **R.A. KENNAMER**. 2001. Ecological Study
of Birds in the Vicinity of Bush Field Airport and the
Augusta Wastewater Treatment Plant. Sponsored by The
Augusta - Richmond County, Georgia, Consolidated
Government—\$64,763.00 (14 months/extension)

BRISBIN, I.L., JR., **R.A. KENNAMER**, AND K.F. GAINES. 2000. Aiken,
South Carolina Municipal Airport Bird Study. Sponsored by
Southeastern Environmental Solutions, Inc.—\$21,518 (12 months)

BRISBIN, I.L., JR., **R.A. KENNAMER**, AND K.F. GAINES. 2000.
Ecological Study of Birds in the Vicinity of Bush Field
Airport and the Augusta Wastewater Treatment Plant.
Sponsored by The Augusta - Richmond County, Georgia,
Consolidated Government—\$75,748.00 (15
months/extension)

GAINES, K.F., H. WIGGINS-BROWN, D.J. KARAPATAKIS, **R.A.
KENNAMER**, A.L. BRYAN, JR., J. PELES, G. WEIN, AND I. L.
BRISBIN, JR. 2000. Spatial Modeling of Receptor Species for
Ecological Risk Assessment Activities at the SRS. Sponsored by
Bechtel/Westinghouse Savannah River Corp.-Environmental
Remediation—\$61,077 (FY 00)

BRISBIN, I.L., JR., **R.A. KENNAMER**, AND K.F. GAINES. 1999.
 Ecological Study of Birds in the Vicinity of Bush Field
 Airport and the Augusta Wastewater Treatment Plant.
 Sponsored by The Augusta - Richmond County, Georgia,
 Consolidated Government—\$75,748.00 (15
 months/extension)

BRISBIN, I.L., JR., **R.A. KENNAMER**, AND K.F. GAINES. 1998.
 Ecological Study of Birds in the Vicinity of Bush Field
 Airport and the Augusta Wastewater Treatment Plant.
 Sponsored by The Augusta - Richmond County, Georgia,
 Consolidated Government—\$64,743.00 (12 months)

Peer-Reviewed
Scientific
Publications

HEPP, G.R., AND **R.A. KENNAMER**. In press. Date of nest initiation
 mediates incubation costs of wood ducks (*Aix sponsa*). *The Auk*.

BRISBIN, I.L., JR., **R.A. KENNAMER**, E.L. PETERS, AND D.J.
 KARAPATAKIS. 2008. A long-term study of eastern box turtles
 (*Terrapene c. carolina*) in a suburban neighborhood: survival
 characteristics and interactions with humans and conspecifics. In
 R.E. Jung and J.C. Mitchell, eds. *Urban Herpetology: Ecology,
 Conservation and Management of Amphibians and Reptiles in Urban and
 Suburban Environments*. *Herpetological Conservation* 3:373–385.

BRISBIN, I.L., JR., **R.A. KENNAMER**, AND W.L. STEPHENS, JR. 2008.
 Long-term population trends of American alligators (*Alligator
 mississippiensis*) in a man-made reservoir: responses to
 environmental perturbations arising from management activities.
 In R.E. Jung and J.C. Mitchell, eds. *Urban Herpetology: Ecology,
 Conservation and Management of Amphibians and Reptiles in Urban and
 Suburban Environments* *Herpetological Conservation* 3:519–527.

HEPP, G.R., **R.A. KENNAMER**, AND M.H. JOHNSON. 2006. Maternal
 effects in wood ducks: incubation temperature influences

incubation period and neonate phenotype. *Functional Ecology* 20:307–314.

KENNAMER, R.A. 2005. Waterfowl. Pages 347–359 in J.C. Kilgo and J.I. Blake, eds. *Ecology and Management of a Forested Landscape: Fifty Years on the Savannah River Site*. Island Press, Covelo, CA.

KENNAMER, R.A., J.R. STOUT, B.P. JACKSON, S.V. COLWELL, J. BURGER AND I.L. BRISBIN, JR. 2005. Mercury patterns in wood duck eggs from a contaminated reservoir in South Carolina, USA. *Environmental Toxicology and Chemistry* 24:1793–1800.

OLI, M.K., G.R. HEPP, AND R.A. KENNAMER. 2002. Fitness consequences of delayed maturity in female wood ducks. *Evolutionary Ecology Research* 4:563–576.

KENNAMER, R.A. 2001. Relating climatological patterns to wetland conditions and wood duck production in the Southeastern Atlantic Coastal Plain. *Wildlife Society Bulletin* 29:1193–1205.

KENNAMER, R.A., AND G.R. HEPP. 2000. Integration of research with long-term monitoring: breeding wood ducks on the Savannah River Site. *Studies in Avian Biology* 21:39–49.

BRISBIN, I.L., JR., AND R.A. KENNAMER. 2000. Long-term studies of radionuclide contamination of migratory waterfowl at the Savannah River Site: implications for habitat management and nuclear waste site remediation. *Studies in Avian Biology* 21:57–64.

BURGER, J., R.A. KENNAMER, I.L. BRISBIN, JR., AND M. GOCHFELD. 1998. A risk assessment for consumers of mourning doves. *Risk Analysis* 18:563–573.

KENNAMER, R.A., I.L. BRISBIN, JR., C.D. MCCREEDY, AND J. BURGER. 1998. Radiocesium in mourning doves: effects of a contaminated reservoir drawdown and risk to human consumers. *Journal of Wildlife Management* 62:497–508.

BURGER, J., R.A. KENNAMER, I.L. BRISBIN, JR., AND M. GOCHFELD. 1997. Metal levels in mourning doves from South Carolina:

potential hazards to doves and hunters. *Environmental Research* 75:173–186.

KENNAMER, R.A., S.K. ALSUM, AND S.V. COLWELL. 1997.

Composition of wood ducks eggs in relation to egg size, laying sequence, and skipped days of laying. *The Auk* 114:479–487.

COLWELL, S.V., R.A. KENNAMER, AND I.L. BRISBIN, JR. 1996.

Radiocesium patterns in wood duck eggs and nesting females in a contaminated reservoir. *Journal of Wildlife Management* 60:186–194.

KENNAMER, R.A., C.D. MCCREEDY, AND I.L. BRISBIN, JR. 1995.

Corrigendum to JWM 57: 716–724. *Journal of Wildlife Management* 59:895.

HEPP, G.R., AND R.A. KENNAMER. 1993. Effects of age and experience on reproductive performance of wood ducks. *Ecology* 74:2027–2036.

KENNAMER, R.A., C.D. MCCREEDY, AND I.L. BRISBIN, JR. 1993.

Patterns of radiocesium contamination in eggs of free-ranging wood ducks. *Journal of Wildlife Management* 57: 716–724.

HEPP, G.R., AND R.A. KENNAMER. 1992. Characteristics and

consequences of nest-site fidelity in wood ducks. *The Auk* 109:812–818.

HEPP, G.R., P. CONNOLLY, R.A. KENNAMER, AND W.F. HARVEY, IV.

1991. Wood duck hatch date: relationship to pairing chronology, plasma luteinizing hormone, and steroid hormones during autumn and winter. *Hormones and Behavior* 25:242–257.

HEPP, G.R., R.A. KENNAMER, AND W.F. HARVEY, IV. 1990. Incubation

as a reproductive cost in female wood ducks. *The Auk* 107:756–764.

KENNAMER, R.A., W.F. HARVEY, IV, AND G.R. HEPP. 1990.

Embryonic development and the nest attentiveness of wood ducks during egg laying. *Condor* 92:587–592.

- HARVEY, W.F., IV, G.R. HEPP, AND R.A. KENNAMER. 1989. Age determination of female wood ducks during the breeding season. *Wildlife Society Bulletin* 17:254–258.
- HARVEY, W.F., IV, G.R. HEPP, AND R.A. KENNAMER. 1989. Body mass dynamics of wood ducks during incubation: individual variation. *Canadian Journal of Zoology* 67: 570–574.
- HEPP, G.R., R.A. KENNAMER, AND W.F. HARVEY, IV. 1989. Recruitment and natal philopatry of female wood ducks. *Ecology* 70:897–903.
- KENNAMER, R.A., W.F. HARVEY IV, AND G.R. HEPP. 1988. Notes on hooded merganser nests in the coastal plain of South Carolina. *The Wilson Bulletin* 100:686–688.
- BRISBIN, I.L., JR., R.A. KENNAMER, G.C. WHITE, P.C. BUSH, AND L.A. MAYACK. 1987. Growth characteristics of wood ducks from two southeastern breeding locations. *The Wilson Bulletin* 99:91–94.
- HEPP, G.R., R.T. HOPPE, AND R.A. KENNAMER. 1987. Population parameters and philopatry of breeding female wood ducks. *Journal of Wildlife Management* 51:401–404.
- HEPP, G.R., D.J. STANGOHR, L.A. BAKER, AND R.A. KENNAMER. 1987. Factors affecting variation in the egg and duckling components of wood ducks. *The Auk* 104:435–443.
- KENNAMER, R.A., AND G.R. HEPP. 1987. Frequency and timing of second broods in wood ducks. *The Wilson Bulletin* 99:655–662.
- HOPPE, R.T. AND R.A. KENNAMER. 1986. Little blue herons nesting among cattails. *The Wilson Bulletin* 98:482–483.
- SMITH, L.M., L.D. VANGILDER, AND R.A. KENNAMER. 1985. Foods of wintering brant in eastern North America. *Journal of Field Ornithology* 56:286–289.

Scientific
Publications

- KENNAMER, R.A.** 2010. Ringneck Recoveries. *Waterfowl and Wetlands Magazine*: 89:28–29, 33.
- KENNAMER, R.A.** 2003. Recoveries of ring-necked ducks banded on the U.S. Department of Energy's Savannah River Site, South Carolina. *The Oriole* 68:8–14.
- KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, AND W.L. STEPHENS, JR.** 1999. Temporal and spatial patterns of avifauna on wetlands in the vicinity of Bush Field Airport, Augusta, Georgia, USA. Pages 269–300 in *Proceedings of the 1999 Joint Meetings of Birdstrike Committee USA / Birdstrike Committee Canada*, Pacific Northwest Planners, Richmond, British Columbia.
- KENNAMER, R.A.** 1997. Hooded mergansers breeding in the upper coastal plain of South Carolina. *The Chat* 61:117–119.
- PETERS, E.L., I.L. BRISBIN, JR., AND R.A. KENNAMER.** 1995. Alternative agriculture as a substitute for environmental remediation. Pages 523–537, in *Environmental Impact of Radioactive Releases*, IAEA-SM-339/85, International Atomic Energy Agency, Vienna, Austria.
- BRISBIN, I.L., JR., J.M. BENNER, L.A. BRANDT, R.A. KENNAMER, AND T.M. MURPHY.** 1992. Long-term population studies of American alligators inhabiting a reservoir: initial responses to water level drawdown. Pages 53–76, in *Crocodiles – Proceedings of the 11th Working Meeting of the Crocodile Specialist Group of the SSC of the IUCN – The World Conservation Union*, Vol. 1, IUCN, Victoria Falls, Zimbabwe.
- MAYER, J.J., R.A. KENNAMER, AND F.A. BROOKS.** 1988. First nesting record for the bald eagle on the Savannah River Plant. *The Chat* 52:29–32.

MAYER, J.J., R.T. HOPPE, AND R.A. KENNAMER. 1985. Bald and golden eagles of the Savannah River Plant, South Carolina. *The Oriole* 50:53–57.

Reports

KENNAMER, R.A., I.L. BRISBIN, JR., A.L. BRYAN, JR., AND C.S. ELDRIDGE. 2010. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2009–2010 Report. Savannah River Ecology Laboratory, Aiken, SC, 181pp.

KENNAMER, R.A., AND I.L. BRISBIN, JR. 2009. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2008–2009 Report. Savannah River Ecology Laboratory, Aiken, SC, 167pp.

KENNAMER, R.A. 2009. Waterfowl Aerial Surveys of Lake Murray, South Carolina: 2008–2009 Report. Savannah River Ecology Laboratory, Aiken, SC, 18pp.

KENNAMER, R.A., W.L. STEPHENS, JR., AND I.L. BRISBIN, JR. 2008. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2007–2008 Report. Savannah River Ecology Laboratory, Aiken, SC, 173pp.

KENNAMER, R.A. 2008. Waterfowl Aerial Surveys of Lake Murray, South Carolina: 2007–2008 Report. Savannah River Ecology Laboratory, Aiken, SC, 14pp.

KENNAMER, R.A., W.L. STEPHENS, JR., AND I.L. BRISBIN, JR. 2007. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2006–2007 Report. Savannah River Ecology Laboratory, Aiken, SC, 158pp.

KENNAMER, R.A., W.L. STEPHENS, JR., AND I.L. BRISBIN, JR. 2006. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2005–2006 Report. Savannah River Ecology Laboratory, Aiken, SC, 145pp.

- KENNAMER, R.A., W.L. STEPHENS, JR., C. ELDRIDGE, AND I.L. BRISBIN, JR.** 2005. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2004–2005 Report. Savannah River Ecology Laboratory, Aiken, SC, 128pp.
- KENNAMER, R.A., W.L. STEPHENS, JR., C. ELDRIDGE, AND I.L. BRISBIN, JR.** 2004. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2003–2004 Report. Savannah River Ecology Laboratory, Aiken, SC, 108pp.
- KENNAMER, R.A., W.L. STEPHENS, JR., C. ELDRIDGE, AND I.L. BRISBIN, JR.** 2003. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2002–2003 Report. Savannah River Ecology Laboratory, Aiken, SC, 99pp.
- KENNAMER, R.A.** 2002. Natural Resources: Waterfowl. Pp. 564–588 in J.C. Kilgo, ed. *Natural Resources Assessment for the Savannah River Site*. U.S. Department of Energy, Savannah River Site Report.
- KENNAMER, R.A., W.L. STEPHENS, JR., C. ELDRIDGE, AND I.L. BRISBIN, JR.** 2002. Abundance, Distribution, and Movement Patterns of Avifauna in the Vicinity of Bush Field Airport: 2001–2002 Report. Savannah River Ecology Laboratory, Aiken, SC, 79pp.
- KENNAMER, R.A., AND I.L. BRISBIN, JR.** 2001. Bird Surveys at the Ventures Industrial Park, Aiken County, South Carolina. Final Report to Southeastern Environmental Solutions, Inc. Savannah River Ecology Laboratory, Aiken, SC, 31pp.
- KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, AND W.L. STEPHENS, JR.** 2001. Abundance and Distribution Patterns of Avifauna on Wetlands in the Vicinity of Bush Field Airport: 2000–2001 Report. Savannah River Ecology Laboratory, Aiken, SC, 54pp.
- KENNAMER, R.A., AND I.L. BRISBIN, JR.** 2001. Bird Surveys at the Ventures Industrial Park, Aiken County, South Carolina. Third

Quarterly Report to Southeastern Environmental Solutions, Inc.
Savannah River Ecology Laboratory, Aiken, SC, 12pp.

KENNAMER, R.A., AND I.L. BRISBIN, JR. 2001. Bird Surveys at the Ventures Industrial Park, Aiken County, South Carolina. Second Quarterly Report to Southeastern Environmental Solutions, Inc. Savannah River Ecology Laboratory, Aiken, SC, 12pp.

KENNAMER, R.A., AND I.L. BRISBIN, JR. 2001. Bird Surveys at the Ventures Industrial Park, Aiken County, South Carolina. First Quarterly Report to Southeastern Environmental Solutions, Inc. Savannah River Ecology Laboratory, Aiken, SC, 12pp.

KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, AND W.L. STEPHENS, JR. 2000. Abundance and Distribution Patterns of Avifauna on Wetlands in the Vicinity of Bush Field Airport: 1999–2000 Report. Savannah River Ecology Laboratory, Aiken, SC, 49pp.

KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, AND W.L. STEPHENS, JR. 1999. Aerial Bird Surveys in the Vicinity of Augusta Regional Airport at Bush Field: 1999 Interim Report. Savannah River Ecology Laboratory, Aiken, SC, 27pp.

KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, W.L. STEPHENS, JR., D.S. MIZRAHI, S.J. WAGNER, AND S.A. GAUTHREAUX, JR. 1999. Abundance and Distribution Patterns of Avifauna on Wetlands in the Vicinity of Bush Field Airport: 1998–99 Report. Savannah River Ecology Laboratory, Aiken, SC, 63pp.

KENNAMER, R.A., I.L. BRISBIN, JR., K.F. GAINES, AND W.L. STEPHENS, JR. 1998. Aerial Bird Surveys of Wetlands in the Vicinity of Bush Field Airport: Interim Report to the Augusta - Richmond County Utilities Department. Savannah River Ecology Laboratory, Aiken, SC, 20pp.

MAYER, J.J., R.A. KENNAMER, AND R.T. HOPPE. 1986. Waterfowl of the Savannah River Plant. SREL-22, UC-66e. Savannah River Ecology Laboratory, Aiken, SC, 189pp.

MAYER, J.J., R.T. HOPPE, AND **R.A. KENNAMER**. 1986. Bald and Golden Eagles of the SRP. SREL-21, UC-66e. Savannah River Ecology Laboratory, Aiken, SC, 18pp.