

Curriculum Vitae

A. Lawrence Bryan, Jr.

Research Professional III

Savannah River Ecology Laboratory 41 Longwood Drive

P.O. Drawer E Aiken, SC 29803

Aiken, SC 29802

803-725-2907 (Voice) -3309 (Fax) 803-649-1245 (Voice)

lbryan@srel.edu (e-mail) 803-646-3616 (cell)

Education: B.S., Wildlife Biology/North Carolina State University. *May, 1979*

M.S., Wildlife Biology/Clemson University. *December, 1981*

Experience summary

From 1984-2000, I managed a research program concerning the foraging ecology and breeding biology of Wood Storks in east-central Georgia, as well as newer studies addressing the population genetics of the species in the southeastern United States, their habitat use and behavioral ecology in coastal environments, and assessing contaminant (primarily mercury) threats to the species. Specifically, the program documented stork foraging habitats and their fauna, foraging behaviors and strategies, breeding success and activities within colonies, and movement patterns (via radio telemetry, satellite telemetry, and/or simply following storks). From 1985 through 2000, this program also oversaw the management of artificial foraging impoundments designed for storks as part of a mitigation process and monitors habitat use on the U.S. Department of Energy's Savannah River Site (SRS). More recently, have initiated and cooperated in studies of mercury levels in storks in Georgia, South Carolina, and Florida, assessed core foraging areas of storks in multiple colonies, assisted in the deployment and analysis of movements of storks with satellite transmitters, as well as examined avian contaminant uptake associated with coal combustion waste impoundments. Also studying fish assemblage composition in Carolina bays, other isolated wetlands, and stream systems on the SRS and the contaminant levels (primarily mercury & other metals) within various trophic levels of these fish.

I coordinated (1997-1999) a project examining the foraging ecology of Bald Eagles on the U.S. DOE's Savannah River Site and contaminant risks to this species due to their foraging association with reservoirs on this site.

I present results of research findings at professional meetings, to state/federal agencies, and other funding agencies/groups and publish findings in peer-reviewed literature and/or technical reports. I am an invited member of the Wood Stork Monitoring and Research Group, a technical advisory group to the U.S. Fish & Wildlife Service concerning the recovery of this endangered species.

Professional organizations

Waterbird Society (Life Member)

Association of Field Ornithologists

The Wildlife Society

Peer-reviewed Publications

- Bryan, A.L. Jr., W.B. Brooks, J.D. Taylor, D.M. Richardson, C.W. Jeske, and I.L. Brisbin, Jr. 2008. Satellite tracking large-scale movements of Wood Storks captured in the Gulf Coast region. *Waterbirds* 31 {Special Publication 1}: 35-41.
- Bryan, A.L. Jr., and J.R. Robinette. 2008. Breeding success of Wood Storks in Georgia and South Carolina. *Waterbirds* 31 {Special Publication 1}: 19-24.
- Bryan, A.L. Jr. 2008. The 2005 Wood Stork Symposium: An Introduction. *Waterbirds* 31 {Special Publication 1}: 1-2.
- Borkhataria, R.R., P.C. Frederick, R. Hylton, A.L. Bryan, Jr., and J.A. Rodgers, Jr. 2008. A preliminary model of Wood Stork population dynamics in the southeastern United States. *Waterbirds* 31 {Special Publication 1}: 42-49.
- Zabransky, C.J., S.L. Webb, A.M. Fedynich, and A.L. Bryan, Jr. 2008. Blood parasites in Wood Storks (*Mycteria americana*) from the southeastern United States. *Journal of Parasitology* 94:1178-1179.
- Bryan, A.L. Jr. 2005. Wood Stork. Pp. 289-294 in Ecology and Management of a Forested Landscape: Fifty Years on the Savannah River Site (Kilgo, J., and J. Blake, eds.). Island Press, Washington.
- Bryan, A.L. Jr., L.B. Hopkins, C.S. Eldridge, I.L. Brisbin, Jr., and C.H. Jagoe. 2005. Behavior and food habits of breeding Bald Eagles in inland South Carolina. *Southeastern Naturalist* 4:459-468.
- Bryan, A.L. Jr., and W. L. Jarvis. 2005. Bald Eagle. Pp. 295-301 in Ecology and Management of a Forested Landscape: Fifty Years on the Savannah River Site (Kilgo, J., and J. Blake, eds.). Island Press, Washington.
- Bryan, A.L. Jr., J.W. Snodgrass, J.R. Robinette, and L.B. Hopkins. 2005. Parental activities of nesting Wood Storks relative to time-of-day, tide level, and breeding stage. *Waterbirds* 28:138-144.
- Kilgo, J., and A.L. Bryan, Jr. 2005. Nongame Birds. Pp. 223-252 in Ecology and Management of a Forested Landscape: Fifty Years on the Savannah River Site (Kilgo, J., and J. Blake, eds.). Island Press, Washington.
- Shaw-Allen, P., C.S. Romanek, A.L. Bryan, Jr., H.A. Brant, and C.H. Jagoe. 2005. Shifts in relative tissue $\delta^{15}\text{N}$ values in snowy egret nestlings with dietary mercury exposure: A marker for increased protein degradation. *Environmental Science and Technology* 39:4226-4233.
- Depkin, F.C., L.K. Estep, A.L. Bryan, Jr., C.S. Eldridge, and I.L. Brisbin, Jr. 2005. Comparison of Wood Stork foraging success and behavior in selected tidal and non-tidal habitats. *Wilson Bulletin* 117:386-389.
- Bryan, A.L. Jr., W.B. Brooks, and I.L. Brisbin, Jr. 2003. Satellite telemetry and recovery of the endangered Wood Stork: How can zoos participate? Pp. 139-142 in *AZA Regional Conference Proceedings* (Doherty, E., & K. Girton, eds.) Silver Spring, MD, American Zoo & Aquarium Association.
- Bryan, A.L. Jr., W.H. Hopkins, J. Bianno and B. Jackson. 2003. Exposure of nesting Common Grackles to metals associated with coal combustion impoundments: Maternal transfer to eggs. *Archives of Environmental Contamination and Toxicology* 45:273-277.

Publications – continued

- Bryan, A.L. Jr., and C.H. Jagoe. 2003. Dietary exposure of piscivorous birds to mercury. Pp. 104-107 in Fundamentals of Ecotoxicology, 2nd Edition. Newman, M.C. and M.A. Unger, eds., CRC/Lewis Publications, Boca Raton.
- Tomasulo-Seccomandi, A.M., N.A. Schable, A.L. Bryan, Jr., I.L. Brisbin, Jr., S. N. Del Lama, and T.C. Glenn. 2003. Development of microsatellite DNA loci from the wood stork (*Mycteria americana*). *Molecular Ecology Notes* 3:563-566.
- Bryan, A.L. Jr., K.F. Gaines, and C.S. Eldridge. 2002. Coastal habitat use by Wood Storks in the non-breeding season. *Waterbirds* 25:429-435.
- Jagoe, C.H., A.L. Bryan, Jr., H.A. Brant, T.M. Murphy, and I.L. Brisbin, Jr. 2002. Mercury in Bald Eagle nestlings from South Carolina, USA. *Journal of Wildlife Diseases* 38:706-712.
- Brant, H.A., C.H. Jagoe, J.W. Snodgrass, A.L. Bryan, Jr., and J.C. Gariboldi. 2002. Potential risk to Wood Storks (*Mycteria americana*) from mercury in Carolina bay fish. *Environmental Pollution* 120:405-413.
- Bryan, A.L. Jr., J.W. Snodgrass, J.R. Robinette, I.L. Brisbin, Jr., and J.L. Daly. 2001. Nocturnal activities of Wood Storks during the post-breeding season. *Auk* 118:508-513.
- Bryan, A.L. Jr., C.H. Jagoe, H.A. Brant, J.C. Gariboldi, and G.M. Masson. 2001. Mercury concentrations in post-fledging Wood Storks (*Mycteria americana*). *Waterbirds* 24:277-281.
- Gariboldi, J.G., A.L. Bryan, Jr., and C.H. Jagoe. 2001. Annual and regional variation in mercury concentrations in Wood Stork nestlings. *Environmental Toxicology and Chemistry* 20:1551-1556.
- Burger, J., K.F. Gaines, J.D. Peles, W.L. Stephens, Jr., C.S. Boring, I.L. Brisbin, Jr., J. Snodgrass, A.L. Bryan, Jr., M.H. Smith, and M. Gochfeld. 2001. Radiocesium in fish from the Savannah River and Steel Creek: Potential food chain exposure to the public. *Risk Analysis* 21:545-559.
- Bryan, A.L., Jr., M.C. Coulter, and I.L. Brisbin, Jr. 2000. Mitigation for the endangered Wood Stork (*Mycteria americana*) on the Savannah River Site. *Studies in Avian Biology* 21:50-56.
- Gaines, K.F., A.L. Bryan, Jr., and P.M. Dixon. 2000. The effects of drought on foraging habitat selection of breeding Wood Storks in coastal Georgia. *Waterbirds* 23:64-73.
- Peles, J.D., A.L. Bryan, Jr., C.T. Garten, Jr., D.O. Ribble, and M.H. Smith. 2000. Ecological half-life of ¹³⁷Cs in fish from a stream contaminated by nuclear reactor effluents. *Science of the Total Environment* 263:255-262.
- Snodgrass, J.W., A.L. Bryan, Jr., and J. Burger. 2000. Development of expectations of larval amphibian assemblage structure in southeastern depression wetlands. *Ecological Applications* 10:1219-1229.
- Romanek, C.S., K.F. Gaines, A.L. Bryan, Jr., and I.L. Brisbin, Jr. 2000. Foraging ecology of the endangered Wood Stork recorded in the stable isotopes signature of feathers. *Oecologia* 125:584-594.
- Snodgrass, J.W., M.J. Komoroski, A.L. Bryan, Jr., and J. Burger. 2000. Relationships among isolated wetland size, hydroperiod and amphibian species richness: Implications for wetland regulation. *Conservation Biology* 14:414-419.

Publications –continued

- Snodgrass, J.W., C.H. Jagoe, A.L. Bryan, Jr., H.A. Brant, and J. Burger. 2000. Effects of trophic status, and wetland morphology, hydroperiod, and water chemistry on mercury concentrations in fish. *Canadian Journal of Fisheries and Aquatic Sciences* 57:171-180.
- Snodgrass, J.W., J.W. Ackerman, A.L. Bryan, Jr., and J. Burger. 1999. Influence of hydroperiod, isolation and heterospecifics on the distribution of aquatic salamanders (*Siren* and *Amphiuma*) among depression wetlands. *Copia* 1999:107-113.
- Van Den Bussche, R., S.A. Harlan, R.J. Baker, A.L. Bryan, Jr., J.A. Rodgers, Jr., M.J. Harris, and I.L. Brisbin, Jr. 1999. Low levels of genetic variability in North American populations of the Wood Stork (*Mycteria americana*). *Auk* 116:1083-1092.
- Savage, A., E.F. Stevens, F.W. Koontz, C. Koontz, L. Brisbin, A.L. Bryan, Jr., and J. Robinette. 1999. Satellite tracking of Wood Storks (*Mycteria americana*) in the southeastern United States. *Endangered Species Update* 16:64-66.
- Bryan, A.L., Jr. and J.C. Gariboldi. 1998. Food of Wood stork nestlings from coastal Georgia. *Colonial Waterbirds* 21:152-158.
- Gaines, K.F., A.L. Bryan, Jr., P.M. Dixon, and M.J. Harris. 1998. Foraging habitat use by Wood Storks nesting in the coastal zone of Georgia, USA. *Colonial Waterbirds* 21:43-52.
- Fedynich, A.M., A.L. Bryan, Jr., and M.J. Harris. 1998. Hematzoa in the endangered Wood Stork from Georgia. *Journal of Wildlife Diseases* 34:165-167.
- Gariboldi, J.G., C.H. Jagoe, and A.L. Bryan, Jr. 1998. Dietary exposure to mercury in nestling Wood Storks (*Mycteria americana*) in Georgia. *Archives of Environmental Contamination and Toxicology* 34:398-405.
- Bryan, A.L., Jr., T.M. Murphy, K.L. Bildstein, I.L. Brisbin, Jr., and J.J. Mayer. 1996. Use of reservoirs and other artificial impoundments by Bald Eagles in South Carolina. Pp. 285-297 in Raptor Adaptions in Human Landscapes: Adaptations to Built and Cultivated Environments (Byrd, D.M., D.E. Varland, and J. Jose-Negro, eds.), Academic Press, London.
- Snodgrass, J.W., A.L. Bryan, Jr., R.F. Lide, and G.M. Smith. 1996. Factors affecting the occurrence and structure of fish assemblages in isolated wetlands of the Upper Coastal Plain, U.S.A. *Canadian Journal of Fisheries and Aquatic Sciences* 53:443-454.
- Coulter, M.C., and A.L. Bryan, Jr. 1995[1996]. Factors affecting the reproductive success of Wood Storks (*Mycteria americana*) in east-central Georgia. *Auk* 112:237-243.
- Bryan, A.L., Jr., M.C. Coulter, and C.J. Pennycuik. 1995. Strategies and energetic costs of foraging travel by breeding Wood Storks. *Condor* 97:133-140.
- Bryan, A.L., Jr., and M.C. Coulter. 1994. Wood Stork use of the Kathwood foraging ponds: 1986-1993. Pp. 53-56 in Proceedings of the Wood Stork Symposium. The Georgia Conservancy, Savannah, GA.
- Coulter, M.C., and A.L. Bryan, Jr. 1994. The design and management of the Kathwood Ponds: Artificial foraging ponds for Wood Storks in east-central Georgia. Pp. 47-52 in Proceedings of the Wood Stork Symposium. The Georgia Conservancy. Savannah, GA.
- Coulter, M.C., and A.L. Bryan, Jr. 1993. Foraging ecology of Wood Storks in east-central Georgia. 1. Characteristics of foraging sites. *Colonial Waterbirds* 16:59-70.

Publications –continued

- Depkin, F.C., M.C. Coulter, and A.L. Bryan, Jr. 1992. Food of nestling Wood Storks in east-central Georgia. *Colonial Waterbirds* 15:219-225.
- Bryan, A.L., Jr., and M.C. Coulter. 1991. Conspecific aggression in a Wood Stork colony in Georgia. *Wilson Bulletin* 103:693-697.
- Stangel, P.W., J.R. Rodgers, Jr., and A.L. Bryan, Jr. 1991. Low genetic differentiation between two disjunct White Ibis colonies. *Colonial Waterbirds* 14:13-16.
- Coulter, M.C., A.L. Bryan, Jr., Wang Q., Hu X., and C. Gu. 1991. Observations on Oriental White Storks and other waterbirds at Shengjin Lake, 11-21 January, 1989. Pp. 115-128 in Coulter, M.C., Wang, Q., and C.S. Luthin (eds.) *Biology and Conservations of the Oriental White Stork Ciconia boyciana*. Savannah River Ecology Laboratory, Aiken, SC 29802 USA. 244 pp.
- Stangel, P.W., J.R. Rodgers, Jr., and A.L. Bryan, Jr. 1990. Genetic variation and population structure of the Florida Wood Stork. *Auk* 107:614-619.
- Bryan, A.L., Jr., and M.C. Coulter. 1987. Foraging flight characteristics of Wood Storks in east-central Georgia, USA. *Colonial Waterbirds* 10:157-161.
- Coulter, M.C., A.L. Bryan, Jr., H.E. Mackey, J.R. Jensen, and M.H. Hodgson. 1987. Mapping of Wood Stork foraging habitat data with satellite data. *Colonial Waterbirds* 10:178-180.
- Comer, J.A., M.C. Coulter, and A.L. Bryan, Jr. 1987. Overwintering locations of Wood Storks captured in Georgia. *Colonial Waterbirds* 10:162-166.
- Coulter, M.C., W.D. McCort, and A.L. Bryan, Jr. 1987. Creation of artificial foraging habitat for Wood Storks. *Colonial Waterbirds* 10:203-210.
- Coulter, M.C., L. Bryan, A. Comer, L. Huff, W. Lee, and L. McAllister. 1986. Notes on Wood Storks in east-central Georgia. *Oriole* 50:69-70.
- Bryan, A.L., Jr., L.G. Webb, and H.S. Hill. 1982. Quail food plot recommendations on regenerated sites in South Carolina. *Proceedings of the Conference of the Southeastern Association of Fish and Wildlife Agencies* 36:594-602.

Manuscripts in Review

Manuscript in Preparation (drafts available)

- Tomasulo-Seccomandi, A.M., C.I. Mino, A.L. Bryan, Jr., I.L. Brisbin, Jr., S.N. Del Lama, and T.C. Glenn. Genetic structure among transcontinental breeding populations of a threatened species with low intraspecific variation: Wood Stork (Aves, Ciconiidae, *Mycteria americana*). *Conservation Genetics*.

Technical Reports

- Bryan, A.L. Jr., and F.C. Depkin. 2009. Wood stork use of the Kings Bay Submarine Base in 2008 and 2009. Final Project Report to the U.S. Fish and Wildlife Service, N. Florida Ecological Services, Jacksonville, Florida.
- Depkin, F.C., A.L. Bryan, Jr., and S.H. Schweitzer. 2009. Avian monitoring and vegetation cover assessment on the Crab Island dredge impoundment, Kings Bay Navy Base. Final Project Report to the U.S. Fish and Wildlife Service, N. Florida Ecological Services, Jacksonville, Florida.

Technical Reports – continued

- Tuberville, T., S. Schweitzer, and L. Bryan. 2009. Gopher tortoise survey of Kings Bay Submarine Base, Georgia. Final Project Report to the Navy, NAVFACENGCOS SE, North Charleston, SC.
- Bryan, A.L. Jr., and W.L. Stephens, Jr. 2007. Core foraging areas of wood storks nesting in northern Florida. Final project report submitted to the U.S. Fish and Wildlife Service – Jacksonville, FL.
- Bryan, A.L. Jr., and W.L. Stephens, Jr. 2006. Wood stork use of roadside foraging habitat in Georgia. Final project report submitted to the Georgia Department of Transportation, project GDOT-SRS 0503.
- Bryan, A.L. Jr., H.A. Brant, C.S. Romanek, C.H. Jagoe, I.L. Brisbin, Jr., and K.F. Gaines. 2005. The barn swallow as an indicator species on the SRS. Final project report submitted to WSRC-SGCP. SREL-79/UC-66e. Savannah River Ecology Laboratory, Aiken, SC 29803.
- Bryan, A.L. Jr., H.A. Brant, C.H. Jagoe, and K.F. Gaines. 2005. Distribution of contaminants in fish from SRS streams draining cooling reservoirs. Final project report submitted to WSRC-SGCP. SREL-77/UC-66e. Savannah River Ecology Laboratory, Aiken, SC 29803.
- Bryan, A.L. Jr., C.H. Jagoe, and H.A. Brant. 2004. Contaminant risks to piscivorous birds from Savannah River swamp fish. Final project report submitted to WSRC-SGCP. SREL-71/UC-66e. Savannah River Ecology Laboratory, Aiken, SC 29803.
- Bryan, A.L. Jr., W. Stephens, and I.L. Brisbin, Jr. 2004. Wood Stork breeding success in selected colonies in Georgia and South Carolina in 2004. Final project report submitted to the U.S. Fish and Wildlife Service – Jacksonville, FL.
- Bryan, A.L. Jr., W. Stephens, and I.L. Brisbin, Jr. 2004. Surveys of known wading bird colonies in Georgia in 2004 for Wood Storks. Final project report submitted to Georgia Department of Natural Resources, Social Circle, GA.
- Bryan, A.L. Jr., H.A. Brant, and C.H. Jagoe. 2003. Mercury concentrations of Wood Stork nestlings in coastal Georgia in 2003: St. Simons Island and Harris neck colonies. Final project report submitted to U.S. Fish and Wildlife Service – Athens, GA.
- Bryan, A.L. Jr., C.H. Jagoe, I.L. Brisbin, Jr., and M.C. Newman. 2002. Bald Eagle research on the Savannah River Site from 1997-1999: Parental behavior, food habits and assessment of potential contaminant risks. Final project report. SREL-61/UC-66e. Savannah River Ecology Laboratory, Aiken, SC 29802.
- Bryan, A.L. Jr., and W.L. Stephens, Jr. 2002. Winter surveys of the Thurmond Reservoir for Bald Eagles in 2001-2002. Final project report to the U.S. Fish and Wildlife Service, Charleston Field Office, Charleston, SC.
- Gaines, K.F., and A.L. Bryan, Jr. 2002. Spatial modeling of wading birds (Ciconiiformes) for ecological risk assessment activities at the SRS. Final report to Westinghouse Savannah River Company – Environmental Restoration Division.
- Bryan, A.L. Jr., and W.L. Stephens, Jr. 2001. Winter eagle surveys of the Thurmond Reservoir in 2001. Final project report to the U.S. Fish and Wildlife Service, Charleston Field Office, Charleston, SC.

Technical reports- continued.

- Bryan, A.L. Jr., F.C. Depkin, and C.S. Eldridge. 2000. Activity patterns, feeding rates and estimated contaminant uptake of Wood Storks foraging in the LCP salt marsh: 1999. Final Project Report submitted to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA.
- Bryan, A.L. Jr. and K.F. Gaines. 1999. Foraging habitat utilization by breeding Wood Storks in south-central Georgia. Report to the Georgia DNR, Nongame-Endangered Species Program, Forsyth, GA (U.S. Fish & Wildlife Service Section 6 funds) .
- Bryan, A.L. Jr. and C.S. Eldridge. 1999. Wood Stork use of contaminated and uncontaminated salt marsh systems in coastal Georgia. Final project report to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA.
- Gariboldi, J.G., A.L. Bryan, Jr., and C.H. Jagoe. 1999. Mercury concentrations in blood, down and feathers of Wood Stork nestlings in coastal Georgia in 1998. Final project report to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA.
- Bryan, A.L. Jr. and K.F. Gaines. 1998. Wood Stork movement and roost utilization patterns in the coastal zone of Georgia in 1997 and 1998. Report to the U.S. Fish and Wildlife Service, Savannah Coastal Refuges, Savannah, GA.
- Bryan, A.L., Jr., and K.F. Gaines. 1997. Foraging habitat use by breeding storks in the coastal zone of Georgia in 1997. Report to the Georgia DNR, Nongame-Endangered Species Program, Brunswick, GA(U.S. Fish & Wildlife Service Section 6 funds) .
- Gariboldi, J.G., C.H. Jagoe, and A.L. Bryan, Jr. 1997. Mercury concentrations in blood and down of Georgia Wood Stork nestlings. Report to the Georgia Department of Natural Resources, Nongame/Endangered Wildlife Program, Brunswick, GA (U.S. Fish & Wildlife Service Section 6 funds).
- Bryan, A.L., Jr., and K.F. Gaines. 1996. Inventory of wading bird colonies in Georgia's coastal plain. Report to the Georgia DNR, Nongame-Endangered Species Program, Brunswick, GA.
- Bryan, A.L., Jr. 1996. The foraging ecology of Wood Storks nesting in the coastal zone of Georgia and South Carolina in 1995. Report to the Georgia DNR, Nongame-Endangered Species Program, Brunswick, GA (U.S. Fish & Wildlife Service Section 6 funds).
- Bryan, A.L., Jr. 1995. The foraging ecology of Wood Storks nesting in Woody Pond, Harris Neck National Wildlife Refuge, in 1995. Report to the U.S. Fish and Wildlife Service, Savannah Coastal Refuges. Savannah, GA. 21 pp.
- Bryan, A.L., Jr. 1995. Utilization patterns of the Priest Landing roost by Wood Storks in 1994. Report to the U.S. Fish & Wildlife Service, Savannah Coastal Refuges. Savannah, GA. 14 pp.
- Bryan, A.L., Jr. 1994. Wood Stork roost sites in the coastal zone of Georgia and South Carolina. Report to the U.S. Fish & Wildlife Service, Savannah Coastal Refuges. Savannah, GA. 30 pp.

Grants/Proposals

- Romanek, C.S., H.A. Brant, and L. Bryan. A comprehensive risk assessment model for the Tim's Branch- Steed's Pond system. Submitted to SRS ACP, Aiken, SC. Requested \$312,000 [Submitted 2008, FUNDED 2009].
- Romanek, C.S., H.A. Brant, and L. Bryan. Support for the SRS trophic modeling effort, Phase II. Submitted to SRS ACP, Aiken, SC. Requested \$115,000 [Submitted 2007, FUNDED 2009].

Grants/Proposals – Continued

- Romanek, C.S., H.A. Brant, and L. Bryan. Support for the SRS trophic modeling effort, Phase I. Submitted to SRS ACP, Aiken, SC. Requested \$85,000 [Submitted 2007, FUNDED].
- Lauritsen, J., and A. L. Bryan, Jr. Wood Stork foraging habitat assessment for southwest Florida. Submitted to USDI-CESI, Vero Beach, Florida. Requested \$225,570 [Submitted August, 2005/Funded for 2007...on-going].
- Bryan, A.L. Jr., C.S. Romanek, and H.A. Brant. Foraging habitat use by coastal-nesting Wood Storks in Florida as determined by stable isotope analysis. Submitted to Florida Nongame Wildlife Grants Program. Requested \$27,500 [Submitted November, 2005/Not funded].
- Bryan, A.L. Jr. Satellite telemetry of adult Wood Storks (*Mycteria Americana*) to develop baseline adult survival rates throughout its nesting range. Submitted to U.S. Fish and Wildlife Service, Jacksonville Field Office. Requested \$15,000 [Submitted May, 2005/Funded for 2006].
- Bryan, A.L. Jr. Determination of Wood Stork colony breeding success on Kings Bay Naval Submarine Base. Submitted to U.S. Fish and Wildlife Service, Jacksonville Field Office. Requested \$8,400 [Submitted July, 2005/Funded for 2006].
- Brisbin, I.L. Jr., A.L. Bryan Jr., C.S. Romanek, C.H. Jagoe, and H.A. Brant. Foraging habitat use, trophic relationships and mercury concentration levels of White Ibis breeding along the Georgia coast. Submitted to the Savannah Presbytery M. K. Pentecost Ecology Fund, Savannah, GA. Requested \$6,950 [Submitted January, 2005/Funded for 2005 season].
- Bryan, L., C. Jagoe, H. Brant, J. Seaman, & K. Gaines. Determination of contaminant concentrations within aquatic biota from Fourmile Creek near H and F areas and potential risks to piscivorous wildlife and humans. Submitted to SRS WSRC-SGCP, Aiken, SC. Requested \$79,030 [Submitted August, 2005/FUNDED].
- Bryan, L., H. Brant, and C. Romanek. Factors affecting metal concentration variation in fish species along the Tim's Branch gradient. Submitted to SRS WSRC-SGCP, Aiken, SC. Requested \$83,000 [Submitted August, 2005/FUNDED].
- Bryan, A.L. Jr., W.S. Stephens, and I.L. Brisbin, Jr. Determination of use of aquatic roadside habitats for foraging by endangered Wood Storks (*Mycteria americana*). Submitted to the Georgia Department of Transportation, Requested \$24,964. [Submitted December, 2004. Proposal funded in 2005].
- Bryan, A.L. Jr., and I.L. Brisbin, Jr. Updating the habitat management guidelines for the endangered Wood Stork (*Mycteria americana*). Submitted to the U.S. Fish and Wildlife Service – Jacksonville Field Office, FL. Requested \$14, 140. [Submitted August, 2002 – Proposal funded in 2005].
- Bryan, A.L. Jr., K. Gaines, C. Jagoe, H. Brant, C. Romanek, and I.L. Brisbin, Jr. Use of the barn swallow (*Hirundo rustica*) as an avian receptor species on the SRS. Submitted to SRS WSRC- Environmental Restoration, Aiken, SC. Requested \$79,968. [Submitted July, 2003. Proposal funded for 2004].
- Jagoe, C., L. Bryan, H. Brant, and K. Gaines. Distribution of contaminants in fish from SRS streams draining cooling reservoirs. Submitted to SRS WSRC- Environmental Restoration, Aiken, SC. Requested \$83,160. [Submitted July, 2003. Proposal funded for 2004].
- Brant, H., C. Jagoe, L. Bryan, and K. Gaines. Determination of site-specific bioaccumulation factors for metals in the Tim's Branch system using crayfish. Submitted to SRS WSRC- Environmental Restoration, Aiken, SC. Requested \$83,160. [Submitted July, 2003. Proposal not funded].

Grants/Proposals – Continued

- Bryan, A.L. Jr. and C.H. Jagoe. Evaluating contaminant threats of Savannah River Swamp System fish to piscivorous birds. Submitted to SRS WSRC- Environmental Restoration, Aiken, SC. Requested \$76,000. [Submitted July, 2002. Proposal funded].
- Bryan, A.L. Jr., K.F. Gaines, and I.L. Brisbin, Jr. Winter surveys of the Strom Thurmond Reservoir for Bald Eagles in 2001/2001. Submitted to the U.S. Fish and Wildlife Service, Charleston, SC. Requested \$2,807. [Proposal funded, completed February, 2002]
- Bryan, A.L. Jr., K.F. Gaines and I.L. Brisbin, Jr. Foraging habitat use by breeding Wood Storks in the Lake Apopka area. Submitted to the U.S. Fish and Wildlife Service, North Florida Ecosystems Team, Jacksonville, FL. Requested \$27,729. [Submitted July 2001, proposal not funded]
- Bryan, A.L. Jr., and I.L. Brisbin, Jr. Census of Florida Wood Stork colonies in 2001. Submitted to the U.S. Fish and Wildlife Service, Jacksonville, FL. Requested \$18,676. [Submitted January 2001, proposal not funded]
- Bryan, A.L. Jr., K.F. Gaines, and I.L. Brisbin, Jr. Aerial surveys of the Strom Thurmond Reservoir for Bald Eagles in January. Submitted to the U.S. Fish and Wildlife Service, Charleston, SC. Requested \$1,300 [Proposal funded, completed April 20, 2001]
- Karen Gaines, Helen Wiggins-Brown, Deno Karapatakis, Robert Kennamer, Larry Bryan, John Peles, Gary Wein, I. Lehr Brisbin, Jr. Spatial modeling of receptor species for ecological risk assessment activities at the SRS. Submitted to Bechtel/WSRC-ER. Request for \$61,077. [Submitted in December 1999]
- Bryan, A.L. Jr., C.H. Jagoe, and I.L. Brisbin, Jr. Is Wood Stork nestling behavior altered by mercury in prey in coastal Georgia ecosystems? Submitted to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA. Request for \$49,100. [submitted in December, 1999, not funded]
- Bryan, A.L. Jr., L.L. Janecek, D.E. Scott, and I.L. Brisbin, Jr. A proposal to produce an educational brochure concerning Wood Stork ecology, behavior and conservation. Submitted to the U.S. Fish and Wildlife Service, Jacksonville Field Office, Jacksonville, FL. Funded for \$19,995. [completed in Sept., '02]
- Bryan, A.L. Jr., and I.L. Brisbin, Jr. 1999. Comparison of behaviors of Wood Storks and Great Egrets in contaminated and uncontaminated salt marsh systems. Submitted to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA. Funded for \$19,728. [completion in March, 2000]
- Bryan, A.L. Jr., K.F. Gaines, and I.L. Brisbin, Jr. 1998. Foraging habitat use by Wood Storks in south-central Georgia. Submitted to the Georgia Department of Natural Resources, Forsyth, GA (USFWS Section 6 funds). Funded for \$18,000. [completion in October, '99]
- Bryan, A.L. Jr., I.L. Brisbin, Jr., and C.H. Jagoe. 1998. Comparison of mercury uptake and saltmarsh use by two coastal Wood Stork colonies: St. Simons Island vs. Harris Neck. Submitted to the U.S. Fish and Wildlife Service, Brunswick Field Office, Brunswick, GA. Funded for \$28,935.
- Bryan, A.L. Jr., K.F. Gaines, and I.L. Brisbin, Jr. 1997. Movement patterns of Wood Storks in the Georgia coastal zone. Submitted to the U.S. Fish and Wildlife Service, Savannah Coastal Refuges, Savannah, GA. Funded for \$23,992.
- Bryan, A.L. Jr., and I.L. Brisbin, Jr. 1997. Description and use of Wood Stork roost sites in Georgia's coastal zone. Submitted to the U.S. Fish and Wildlife Service, Savannah Coastal Refuges,

Savannah, GA. Funded for \$7,965.

Grants/Proposals – Continued

Bryan, A.L. Jr., K.F. Gaines and I.L. Brisbin, Jr. 1997. Wood Stork foraging in coastal Georgia. Submitted to Georgia Department of Natural Resources, Brunswick, GA (USFWS Section 6 funds). Funded for \$20,000.

Bryan, A.L. Jr., C.H. Jagoe, and I.L. Brisbin, Jr. 1997. Mercury concentrations in Georgia Wood Stork nestlings. Submitted to Georgia Department of Natural Resources, Brunswick, GA (USFWS Section 6 funds). Funded for \$15,000.

Bryan, A.L. Jr., K.F. Gaines and I.L. Brisbin, Jr. 1996. Inventory of Wading Bird Colonies in Georgia's Coastal Plain in 1996. Submitted to Georgia Department of Natural Resources, Brunswick, GA. Funded for \$27,880.

Bryan, A.L. Jr., and I. Lehr Brisbin, Jr. 1996. Aerial Censuses of the "LCP" Coastal Marsh Site for Wading Birds. Submitted to PTI Environmental Services, Bellevue, WA. Funded for \$13,968.

Bryan, A.L. Jr., and I. Lehr Brisbin, Jr. 1995. Foraging ecology of Wood Storks in the coastal zone of Georgia. Submitted to Georgia Department of Natural Resources, Brunswick, GA (USFWS Section 6 funds). Funded for \$20,000.

Brisbin, I.L. Jr., and A.L. Bryan, Jr. 1994. Molecular Genetics of the Endangered Wood Stork (*Mycteria americana*). Submitted to the Georgia Department of Natural Resources, Brunswick, GA (USFWS Section 6 funds). Funded for \$18,000.

Bryan, A.L. Jr. 1994. A Proposal to Study Wood Stork Use of Coastal Roost Sites. Submitted to US Fish & Wildlife Service, Savannah Coastal Refuges, Savannah, GA. Funded for \$5,000.

Presentations/Posters (1996 to present)

Brant H.A., C.S. Romanek, A.L. Bryan, Jr., J.C. Seaman and Warren L. Stephens, Jr. 2008. Spatial variation in nitrogen isotope values of low-order stream biota: Contaminant exposure of nitrate source? Annual North American Society of Environmental Toxicology and Chemistry Meeting, Tampa, FL, November.

Bryan, L., R. Borkhataria, B. Hylton, P. Frederick, and B. Brooks. Do Wood Stork populations from Mexico and the southeastern United States mix? Poster presentation at the North American Ornithological Conference, October 5, 2006, VeraCruz, Mexico.

Zabransky, C.D., S.L. Webb, A.M. Fedynich, and A. L. Bryan, Jr. Survey of Hematozoans in Wood Storks from the Southeastern United States. Poster presentation at the 2006 Southwestern Association of Parasitologists Annual Meeting.

Bryan, L., W. Brooks, J. Taylor, D. Richardson, C. Jeske, & I.L. Brisbin, Jr. Large-scale movements of Wood Storks captured in the Gulf Coast states. Oral presentation at the Annual Meeting of the Waterbird Society, October 15, 2005, Jekyll Island, GA.

Bryan, A.L. Jr., and J.R. Robinette. Breeding success of Wood storks in Georgia and South Carolina. Oral presentation at the Annual Meeting of the Waterbird Society, October 15, 2005, Jekyll Island, GA.

Wynne, A., L. Bryan, H. Brant, C. Jagoe, C. Romanek, and I.L. Brisbin, Jr. Mercury accumulation by nestling White Ibises relative to habitat and trophic position of prey. Poster presentation at the Annual Meeting of the Waterbird Society, October 13, 2005, Jekyll Island, GA.

Presentations/Posters – continued.

Brant, H.A., A.L. Bryan, Jr., E.L. Peters, C.H. Jagoe, N.T. Garvin, W.L. Stephens, Jr., and I.L. Brisbin, Jr. Non-lethal samples predict soft tissue mercury concentrations for two wading bird species.

Poster

presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 7, 2005, Baltimore, MD.

Bryan, A.L. Jr., H.A. Brant, C.S. Romanek, C.H. Jagoe, & I.L. Brisbin, Jr. Mercury concentrations in wading birds in relation to trophic position. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 17, 2004, Portland, OR.

Garvin, N.T., A.L. Bryan, Jr., C.H. Jagoe, C.S. Romanek, & H.A. Brant. Reservoir effects on downstream contaminant accumulation in biota. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 17, 2004, Portland, OR.

Brant, H.A., C.H. Jagoe, T.L. DeVault, C.S. Romanek, O.E. Thodes, Bryan, A.L. Jr., & I.L. Brisbin, Jr. Lead accumulation in free-ranging Black and Turkey Vultures from the southeastern region of the USA. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 17, 2004, Portland, OR.

Bryan, A.L. Jr., H.A. Brant, C.S. Romanek, C.H. Jagoe, J.C. Gariboldi, and J.W. Snodgrass. Annual patterns of mercury concentrations in nestling Wood Storks in Georgia, USA:1997-2003. Oral presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 9, 2003, Austin, TX.

Bryan, A.L. Jr., W.H. Hopkins, J. Baionno, and B.P. Jackson. Maternal transfer of contaminants to eggs in Common Grackles nesting on coal fly ash basins. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 14, 2002, Salt Lake City, UT.

Bryan, A.L. Jr., C.H. Jagoe, J.C. Gariboldi, H.A. Brant, and A.K. Walls. Mercury concentrations in southeastern Wood Storks. Poster presentation at the Symposium on Methylmercury Impacts on Wildlife and Human Health. April 9-10, 2001. Charleston, SC.

Jagoe, C., A. Bryan, H. Brant, and I. Brisbin. Mercury accumulation in juvenile Snowy Egrets fed diets with different mercury concentrations. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 12, 2001, Baltimore, MD.

Brant, H., C. Jagoe, A. Bryan, J. Lascola, I. Brisbin, B. Arnold, and T. Gross. Responses of juvenile Snowy Egrets to diets with different mercury concentrations. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 12, 2001, Baltimore, MD.

Shaw-Allen, P., C. Romanek, H. Brant, A. Bryan and C. Jagoe. Increased metabolic costs in mercury-exposed Snowy Egrets suggested by differential ¹⁵N enrichment. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry, November 12, 2001, Balt., MD.

Snodgrass, J.W., A.L. Bryan, Jr., and J. Burger. Viewing aquatic systems as landscapes. Department of Forestry and Wildlife, West Virginia University, Morgantown, WV. 23 March 2000.

Bryan, A.L. Jr., K.F. Gaines, C.E. Eldridge, and A.C. Vitale. Post-breeding ecology of wood storks in the Georgia coastal zone. Presented at the 6th Annual Conference of the Wildlife Society, Austin, TX. September 10, 1999. (ALB presented)

Gariboldi, J.G., A.L. Bryan, Jr., C.H. Jagoe, and H.A. Brant. Mercury in tissues of wood stork

nestlings from Georgia, 1996-1998. Presented at the 6th Annual Conference of The Wildlife Society, Austin, TX. September 10, 1999. (ALB presented)

Presentations/Posters – continued.

Snodgrass, J.W., C.H. Jagoe, A.L. Bryan, Jr., and J. Burger. Wetland morphology, hydrology and landscape position: Implications for constructed wetlands. Presented at Wetlands and Remediation: An International Conference, Salt Lake City, UT. November 16, 1999 (JWS presented)

Bryan, A.L. Jr., C.H. Jagoe, H.A. Brant, J.C. Gariboldi, and A. Kelsey. Mercury concentrations in the endangered Wood Stork (*Mycteria americana*). Invited poster at the Workshop on Effects Assessment for Mercury in Fish-eating Birds: Setting an Avian Criterion. River Ranch, FL. October 6, 1999.

Jagoe, C.H., H.A. Brant, J.C. Gariboldi, A.L. Bryan, Jr., and J.W. Snodgrass. Mercury in Carolina Bays in the southeastern United States. Poster at the 5th Annual Meeting on Mercury as a Global Pollutant, Rio De Janeiro, Brazil. May, 1999.

Jagoe, C.H., B. Arnold, J.C. Gariboldi, H.A. Brant, A.L. Bryan, Jr., K. Rush, J. Ellis, R. Wentworth, I.L. Brisbin, Jr., and P.V. Winger. Mercury contamination in wildlife inhabiting wetlands in the southeastern United States. Poster at the 5th Annual Meeting on Mercury as a Global Pollutant, Rio de Janeiro, Brazil. May, 1999.

Jagoe, C.H., H.A. Brant, J.C. Gariboldi, A.L. Bryan, Jr., and J.W. Snodgrass. Factors affecting mercury accumulation in Carolina Bays in the southeastern United States. Poster at the annual conference of the Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November, 1999.

Jagoe, C.H., H.A. Brant, J.C. Gariboldi, I.L. Brisbin, Jr., A.L. Bryan, Jr., M.C. Newman and D.C. Powell. Risks due to contaminants to bald eagles (*Haliaeetus leucocephalus*) foraging in abandoned reactor cooling reservoirs. Poster at the annual conference of the Society of Environmental Toxicology and Chemistry, Philadelphia, PA. November, 1999.

Brisbin, I.L. Jr., K.F. Gaines, A.L. Bryan, Jr. F.W. Koontz, and E.F. Stevens. Determination of movements and migration of endangered Wood Storks using satellite telemetry: Blending research, education, and public outreach. 1998. North American Ornithological Conference, St. Louis, MO. April, 1998. (ALB presented)

Romanek, C.S., K.F. Gaines, A.L. Bryan, Jr., and I.L. Brisbin, Jr. Using stable isotopes to determine foraging strategies and natal origins of Wood Storks. 1998. North American Ornithological Conference, St. Louis, MO. April, 1998.

Romanek, C.S., K.F. Gaines, A.L. Bryan, Jr., I.L. Brisbin, Jr, J.C. Gariboldi, and C.H. Jagoe. Using GIS and stable isotopes to characterize foraging strategies for Wood Storks. Conference on the Applications of Stable Isotope Techniques to Ecological Studies, Saskatoon, SK. April, 1998.

Bryan, A.L. Jr., I.L. Brisbin, Jr., and C.H. Jagoe. SREL's Bald Eagle Program. Westinghouse Environmental Advisory Board. SRS. 12 November, 1998.

Bryan, A.L. Jr., K.F. Gaines, and J.R. Robinette. Wood Stork use of coastal roost sites in Georgia and South Carolina. Poster at the Colonial Waterbird Society annual meeting, Miami, FL, October 21-26, 1998.

Brant, H.A., C.H. Jagoe, A.L. Bryan, Jr., and J.C. Gariboldi. Risks to Wood Storks (*Mycteria americana*) associated with mercury in fish from Carolina bays. Poster at the Colonial Waterbird Society annual meeting, Miami, FL, October 21-26, 1998.

Presentations/Posters – continued.

Brant, H.A., C.H. Jagoe, A.L. Bryan, Jr., and J.C. Gariboldi. Potential risk to Wood Storks (*Mycteria americana*) from mercury in fish on the Savannah River Site. Poster at the Society of Environmental Toxicology and Chemistry annual meeting, Miami, FL, November, 1998.

Gaines, K.F., A.L. Bryan, Jr., P.M. Dixon, and M.J. Harris. Foraging habitat use by breeding Wood Storks in coastal Georgia. Poster at the Colonial Waterbird Society annual meeting, Lafayette, LA, October, 1997.

Gariboldi, J.C., A.L. Bryan, Jr., and C.H. Jagoe. Mercury concentrations in blood and feathers of Wood Storks in Georgia. Poster at the Colonial Waterbird Society annual meeting, Lafayette, LA, October, 1997.

Gaines, K.F., A.L. Bryan, Jr., P.M. Dixon, and M.J. Harris. Foraging habitat use by breeding Wood Storks in coastal Georgia. Poster at the Wildlife Society annual meeting, Denver, CO, September, 1997.

Bryan, A.L. Jr., J.R. Robinette, and J.L. Daly. Nocturnal foraging by Wood Storks. Presented at the 114th Stated Meeting of the American Ornithologists' Union, Boise, ID. 13-17 August 1996

Bryan, A.L. Jr. Wading bird surveys of the SRS: 1983-1996. Presented at the Savannah River Site Avian Workshop: Long-term population trends in birds of the SRS, South Carolina. 7-8 November 1996.

Bryan, A.L. Jr. SREL's Wood Stork Research: 1983-1996. Presented at the Savannah River Site Avian Workshop: Long-term population trends in birds of the SRS, South Carolina. 7-8 November 1996.

Gaines, K.F. and A.L. Bryan, Jr. The use of digital land cover data to determine important Wood Stork foraging habitat in coastal Georgia, USA. Poster at the 114th Stated Meeting of the American Ornithologists' Union, Boise, ID. 13-17 August 1996.

Gaines, K.F., A.L. Bryan, Jr, and M.H. Harris. The use of digital land cover data to determine important Wood Stork foraging habitat during the breeding season. Poster at the 20th Stated Meeting of the Colonial Waterbird Society, Charleston, SC. 16-19 October 1996.

Gariboldi, J., A.L. Bryan, and C.H. Jagoe. Concentrations of mercury in food of Wood Stork nestlings in four Georgia colonies. Poster at the 20th Stated Meeting of the Colonial Waterbird Society, Charleston, SC. 16-19 October 1996.

Pre-1996 presentations available on request.