

RYAN CAMERON MEANS
Curriculum Vitae

1313 N. Milton St.
Tallahassee, FL 32303
(850) 681-6208
Email: rcmeans1@yahoo.com

EDUCATION:

Master of Science - Wildlife Ecology and Conservation
University of Florida, Gainesville, FL 32611
Awarded December 2001
Advisor: L. Richard Franz
Thesis title: "Herpetofauna of impacted wetlands in east Florida: a pre-augmentation assessment."

Bachelor of Science - Zoology
University of Florida, Gainesville, FL 32611
Awarded May 1996

High School Diploma - College Preparatory Curriculum
Leon High School, Tallahassee, FL 32303
Awarded June 1990
Graduated 24th in class of 397

PROFESSIONAL WORK EXPERIENCE:

Wildlife Ecologist

Coastal Plains Institute and Land Conservancy (CPI)

1313 Milton St.

Tallahassee, FL 32303

Dates: December 2002-present

Employment 8 consecutive days per month.

Duties: 1) Co-principal investigator on a contract funded by the St. Johns River Water Management District entitled "Assessment of Amphibian Response to Wetland Augmentations in St. Johns, Volusia, and Brevard Counties. Field work for 8 consecutive days per month utilizing a variety of capture and analytical techniques; 2) provide guided ecological adventure trips into North Florida wilderness and natural history interpretation.

OPS Biological Scientist

Florida Geological Survey (FGS)

903 W. Tennessee St., Tallahassee 32304

Dates: September 2001--Present

Employment 3 weeks per month.

Supervisor: Dr. Thomas M. Scott (phone: 850-488-9380)

Current employment by FGS to investigate all Florida springs as part of the Florida Springs Initiative funded by the Florida Legislature. Duties: 1) water quality sampling of over 100 Florida springs; 2) preparation of physical descriptions of up to 700 springs and their surroundings; 3) preparation of technical reports, ultimately leading to the revision of the 1977 FGS publication "Springs of Florida" (Bulletin 31 revised); 4) measurement of spring discharges; 5) planning extended field excursions to springs; 6) public outreach (e.g. science fair judging).

Herpetologist

Florida Museum of Natural History

University of Florida, Gainesville 32611

Dates: August 1998--May 2001

Half time

Supervisor: L. Richard (Dick) Franz (phone: 352-392-4959)

Master's research. Employment by museum under a contract from the St. Johns River Water Management District. Amphibian and reptile monitoring at eight impacted wetlands on municipal well fields in St. Johns, Volusia, and Brevard Counties (FL) to determine the impacts of groundwater pumping and wetland augmentation on herpetofaunal communities. Duties: 1) experimental design, construction, and operation of drift fencing associated with eight study wetlands; 2) identified and processed captured animals; 3) amphibian mark-recapture; 4) dipnetted and seined for larval amphibians; 5) conducted frog call surveys; 6) trapped turtles; 7) identified southeastern US vertebrates with emphasis on amphibians and reptiles 8) conducted vegetative sampling and habitat analysis; 9) coordinated research activities with state and city land managers in St. Johns, Volusia, and Brevard Counties including City of Port Orange Well Field, St. Johns River Water Management District, Tiger Bay State Forest, City of Titusville Well Field, and Daytona Beach Well Field and; 10) compiled technical project reports.

Wildlife Biologist

Coastal Plains Institute and Land Conservancy (CPI), Tallahassee, Florida 32303

Dates: November 1996 through August 1998

Additional work dates: January through April 2001

Supervisor: Dr. D. Bruce Means (phone: 850-681-6208 or 850-681-0603)

Employment under three research contracts to inventory and monitor amphibians, reptiles, and birds of the longleaf pine ecosystem and associated isolated wetlands in the Woodville Karst Plain of the Apalachicola National Forest and Tallahassee Red Hills in north Florida and south Georgia. Duties: 1) identified target wetlands and conducted dipnet and seine surveys of nearly 300 isolated wetlands throughout the Woodville Karst Plain with emphasis on rare herpetofauna such as the striped newt and gopher frog in a study comparing pond-breeding amphibians of native longleaf pine vs. planted sand pine

forest; 2) experimental design, construction, and operation of drift fences associated with study wetland along US HWY 319 to determine the impacts of a major highway on pond-breeding amphibians; 3) designed and conducted 117 point counts in a comparative study investigating breeding bird use of native longleaf pine vs. planted sand pine forest; 4) designed and conducted hydrological monitoring study investigating the effects of hydroperiod and rainfall on pond-breeding amphibians associated with 22 wetlands in the Munson Sandhills of the Apalachicola NF; 5) participated in 10 prescribed burns of the Sumatra, FL and Crown Pointe Preserve, Escambia Co., FL properties owned by CPI; 6) sampled plant transects to collect before and after data on the effects of fire at different seasons on hardwood-encroached wetlands on the CPI Crown Pointe Preserve, Escambia Co, FL; 7) identified and conducted dipnet and seine surveys of 57 isolated wetlands in Tallahassee Red Hills of north Florida and Tifton Uplands of south Georgia searching for breeding habitat of the flatwoods salamander, striped newt, and gopher frog; 8) designed, constructed, and operated three drift fences on Eglin Air Force Base sampling for rare amphibians; 9) conducted aural surveys for calling frogs; 10) identified southeastern US plants and vertebrates, with emphasis on larval amphibians; 11) coordinated research activities with federal and private land managers including Apalachicola NF, Eglin AFB, The Nature Conservancy's Apalachicola Bluffs and Ravines Preserve, and Tall Timbers Research Station; 12) organized and analyzed data using Microsoft Excel and; 13) compiled technical project reports.

Biological Technician

U. S. Fish and Wildlife Service

Tetlin National Wildlife Refuge, Tok, Alaska 99780

Dates: May through November 1996

Full time seasonal

Supervisor: Hank K. Timm (phone: 907-883-5312)

Studied and monitored the landbird fauna of the Tetlin NWR. Duties: 1) mistnetted and banded neotropical migratory songbirds during spring and fall migration; 2) mistnetted and banded songbirds during summer brooding season in remote backcountry; 3) conducted daily bird census concurrent with the banding operations; 4) trained others to mistnet and band; 5) assisted with breeding bird point counts in remote backcountry; 6) conducted aerial trumpeter swan survey; 7) taught summer camp for local school children about Alaskan natural history; 8) entered banding data on Lotus spreadsheet.

Volunteer Biological Technician

U. S. Fish and Wildlife Service

Tetlin National Wildlife Refuge, Tok, Alaska 99780

Dates: May through August 1994

Full time seasonal

Supervisor: Hank K. Timm (phone: 907-883-5312)

Studied and monitored the landbird fauna of the Tetlin NWR. Duties: 1) mistnetted and banded neotropical migratory songbirds during spring and fall migration; 2) mistnetted and banded songbirds during summer brooding season in remote backcountry; 3) conducted daily bird census concurrent with the banding operations; 4) conducted duck brood surveys; 5) assisted with breeding bird point counts in remote backcountry; 6)

taught summer camp for local school children about Alaskan natural history; 7) entered banding data on Lotus spreadsheet.

Student Conservation Association (SCA) Volunteer Park Ranger

U. S. Fish and Wildlife Service

Tetlin National Wildlife Refuge, Tok, Alaska 99780

Dates: May through August 1993

Full time seasonal

Supervisor: David Dapkus (retired, unreachable)

Duties: 1) served as staff member in the Tetlin NWR Visitor Center and the Alaska Public Lands Information Center advising visitors about travel and recreation in Alaska; 2) gave interpretive nature walks and presentations on Alaskan natural history; 3) biological field work: assisted with duck brood surveys and neotropical migratory bird banding. 4) taught summer camp for local school children about Alaskan natural history.

Student Conservation Association (SCA) Volunteer Park Ranger

U. S. Fish and Wildlife Service

Tetlin National Wildlife Refuge, Tok, Alaska 99780

Dates: June through August 1991

Full time seasonal

Supervisor: David Dapkus (retired, unreachable)

Duties: 1) served as staff member in the Tetlin NWR Visitor Center and the Alaska Public Lands Information Center advising visitors about travel and recreation in Alaska; 2) gave interpretive nature walks and presentations on Alaskan natural history; 3) biological field work: assisted with duck brood surveys.

ADDITIONAL FIELD EXPERIENCE:

Rivers of Panhandle and North Central Florida: 1986-present. Explored and conducted systematic archeological and paleontological surveys of 16 river systems using SCUBA. Collected, identified, curated, and cataloged over 3500 vertebrate fossil and human artifact specimens into the Coastal Plains Institute's scientific collections. Over 300 dives logged and nearly 900 hours spent underwater. Donated important archeological and paleontological specimens to both the Florida Bureau of Archeological Research (reference: Jim Dunbar, state archeologist @ 850-487-2299) and the Florida Museum of Natural History (reference: Dr. S. David Webb, Curator of Vertebrate Paleontology @ 352-392-1721).

Western Nebraska-South Dakota: June 1-15, 2001. Paleontological field research of fossil tortoises in the White River Badlands of Sioux Co., Nebraska and adjacent South Dakota. Dick Franz and Ryan Means, Co-Principal Investigators. Prospected the Chadron and Brule formations, collected, prepared, and cataloged over 20 fossil tortoise specimens including *Styemys nebrascensis*. Collected, identified and curated fossil mammals of the White River Group.

North Florida: May 1999. Was research diver for the Aucilla River Prehistory Project, Principal Investigators S. David Webb and Jim S. Dunbar. Assisted with underwater excavation of Sloth Hole archeological/paleontological site in the Aucilla River and underwater excavation of the Ryan-Harley (8JE1004) archeological site in the Wacissa River.

North Florida: Spring 1996. Discovered an important underwater paleoindian archeological site in the Wacissa River. Later named the Ryan-Harley site (after brothers Ryan and Harley Means) by Jim S. Dunbar, state archeologist with Florida Bureau of Archeological Research.

Venezuela: March 21-April 5 1993. Investigated the natural history of the Guyana Shield region in Estado Amazonas, Estado Bolivar, and in rainforest at Estacion Biologia Rancho Grande.

Venezuelan Amazon: February 19-March 20. Trekked 30 days across Federal Territory of Amazonas to investigate an unexplored region of the Amazon rainforest, including 7 days up the Orinoco River in dugout canoe, 18 days on foot through unmapped rainforest, 5 days down Rio Ventuari in dugout canoe.

Ecuadorian Amazon: July 28-August 12 1989. Investigated primary rainforest along Rio Napo. Traveled by balsa raft and dugout canoe.

Galapagos Islands: June 25-July 24 1989. Participated in natural history tour of 29 sites on 14 different islands.

Peruvian Amazon: July 31-Aug 6 1988. Natural history tour to investigate Amazon varzea and terra firme primary forests up Rio Tambopata from Puerto Maldonado in southeastern Peru.

Peru: July 10-16 and July 24-30 1988. Investigated Andean Paramo habitat, 8,000-13,000 ft altitude along Urubamba River and vicinity of Cuzco and cloud forest in vicinity of Machu Picchu. Archeological tour of Macchu picchu in southern Peru.

Peruvian Amazon: July 2-9, 17-23 1988. Participated in natural history tour to investigate Amazonian varzea and terra firme primary forests on Amazon River in vicinity of Iquitos in northern Peru.

Costa Rica: July 1987. Participated in 23-day natural history tour in tropical ecology. Explored Poas Volcano, Santa Rosa National Park, Monteverde Cloud Forest, Corcovado National Park, Braulio National Park, Carillo National Park, La Selva Biological Station, and observed active Arenal volcano.

DOCCUMENTARY FILMING:

National Geographic: Snake Wranglers series—"Diamondback Survivors."

This is a film that features Bruce and Ryan Means doing what they do best...finding snakes and educating the public about their importance.

TEACHING EXPERIENCE:

Graduate Teaching Assistant--University of Florida, Gainesville, Spring semester 2000. Wildlife Techniques (WIS 4945), Department of Wildlife Ecology and Conservation. Instructed herpetological field techniques: drift-fencing, screen funnel traps, pitfall traps, dipnetting, seining, aural surveys for calling frogs, coverboards as terrestrial herp. refugia, PVC pipes as treefrog refugia, turtle trapping, larval amphibian identification, mark-recapture, general search techniques, and identification and natural history of Florida reptiles and amphibians.

PAPERS PRESENTED AT SCIENTIFIC MEETINGS:

Joint meeting of the American Society of Ichthyologists and Herpetologists, La Paz, B.C.S., Mexico. June 2000. Title: "Effects of sand pine silviculture on pond-breeding amphibians in north Florida."

All Florida Herpetology Conference, Gainesville, FL. April 2000.
Title: "Herpetofauna of impacted wetlands on municipal well fields in northeast Florida."

INVITED PRESENTATIONS:

Wakulla Springs Wildlife Festival ("Welcome back, songbirds"). April 2002. Title: "The snakes of Florida."

Wetlands Course in the Department of Wildlife Ecology and Conservation, University of Florida, Gainesville. April 1999. Guest lecturer. Title: "Isolated, ephemeral wetlands in north Florida."

Graduate Student Herpetology Group, Florida Museum of Natural History, University of Florida, Gainesville. September 1998. Title: "Effects of sand pine silviculture on pond-breeding amphibians in north Florida."

Florida Trail Association, Tallahassee, FL. November 1997.
Presented on Alaskan natural history.

Environmental Action Group, University of Florida, Gainesville. October 1994.
Presented on Alaskan natural history.

Wildlife Society, Student Chapter, University of Florida, Gainesville. April 1994.
Presented on natural history of Guyana shield region of Venezuela.

Upper Tanana Valley Natural History Association, Tok, AK. August 1993.
Presented on natural history of Guyana shield region of Venezuela.

Environmental Action Group, University of Florida, Gainesville. October 1993.
Presented on natural history of Guyana shield region of Venezuela.

Biology class, SAIL High School, Tallahassee, FL. April 1990.
Presented on Costa Rican natural history.

Gadsden County Public Library, Quincy, FL. April 1989.
Presented twice to youths and parents on snakes and lizards of Florida.

PEER-REVIEWED PUBLICATIONS:

Balsille, J.; Dunbar, J.S.; Means, G.H. and **Means R.C.** 2003. Geoarchaeological consideration of the Ryan-Harley Site (8JE1004) in the Wacissa River North Florida. Bulletin of the Florida Museum of Natural History, Gainesville, FL. (In press).

Means, R.C. and L.R. Franz. 2003. Herpetofauna of impacted wetlands in east Florida: a pre-augmentation assessment. In W. Meshaka and K. Babbitt (eds.) Status and Conservation of Florida Amphibians and Reptiles. University Press of Florida. (In press).

Means, D. B. and **R. C. Means.** 2003. Effects of sand pine silviculture on pond-breeding amphibians in the Woodville Karst Plain of north Florida. In W. Meshaka and K. Babbitt (eds.) Status and Conservation of Florida Amphibians and Reptiles. University Press of Florida. (In press).

Means, D. B. and **R. C. Means.** 2003. Effects of sand pine silviculture on breeding birds in the longleaf pine ecosystem of north Florida. (In preparation.)

Scott, T. M.; G. H. Means; **R. C. Means;** and R. P. Meegan. 2002. First Magnitude Springs of Florida: Open File Report No. 85, Florida Geological Survey, Tallahassee, FL.

Means, R. C. and D.B. Means. 2000. Effects of sand pine silviculture on pond-breeding amphibians in north Florida. Proceedings of the 2000 American Society of Ichthyologists and Herpetologists 80th annual meeting, La Paz, B.C.S., Mexico.

Johnson, S. A. and **R. C. Means**. 2000. Reproduction: *Hyla squirella* (Squirrel Tree Frog). Herpetological Review 31(2): 100.

Dunbar, J. S.; B. Stanton, M. Memory (Florida Bureau of Archeological Research), G. H. Means (Florida Geological Survey), **R. C. Means** (Coastal Plains Institute and Land Conservancy), C.A. Hemmings and M. Mhilibachler (Florida Museum of Natural History). 1999. The Ryan-Harley site 8JE1004: A Suwannee point site in the Wacissa River, North Florida. Proceedings of the 1999 Southeastern Archaeological Conference, Bulletin 42.

Krysko, K. L. and **R. C. Means**. 1999. Geographic distribution: *Farancia erytrogramma erytrogramma* (Rainbow Snake). Herpetological Review 30(4): 235.

Means, R. C. 1999. Geographic distribution: *Hemidactylus turcicus* (Mediterranean Gecko). Herpetological Review 30(1): 52.

TECHNICAL REPORTS:

Means, R. C. and L. R. Franz. 2001. Herpetofauna of impacted wetlands on municipal well fields in northeast Florida: a pre-augmentation assessment. Final report to the St. Johns River Water Management District, Palatka, FL.

Franz, L. Richard and **R. C. Means**. 2000. Wetlands augmentation and its impacts on amphibian and reptile use. Interim report to the St. Johns River Water Management District, Palatka, FL. 24 pages.

Means, D. B. and **R. C. Means**. 1998a. Distribution of the striped newt (*Notophthalmus perstriatus*) and gopher frog (*Rana capito*) in the Munson Sand Hills of the Florida panhandle. Final report to the U. S. Fish and Wildlife Service, Jackson, MS, for Order No. 43910-5-0077. 42 pages.

Means, D. B. and **R. C. Means**. 1998b. Red Hills Survey for breeding pond habitat of the flatwoods salamander (*Ambystoma cingulatum*), gopher frog (*Rana capito*), and striped newt (*Notophthalmus perstriatus*) in the Tallahassee Red Hills of Leon, Gadsden, and Jefferson counties, Florida, and the Tifton Uplands of Thomas and Grady counties, Georgia. Final report to the U. S. Fish and Wildlife Service, Jackson, MS, for Order No. 43910-5-0091. 23 pages.

Means, D. Bruce and **R. C. Means**. 1997a. Distribution of the striped newt (*Notophthalmus perstriatus*) and gopher frog (*Rana capito*) in the Munson Sandhills of the Florida panhandle. Report to the U. S. Fish and Wildlife Service, Jackson, MS. Order No. 43910-5-0077.

Means, D. Bruce and **R. C. Means**. 1997b. Use of a temporary pond by amphibians and reptiles in the Munson Sandhills of the Apalachicola

National Forest, with special emphasis on the striped newt (*Notophthalmus perstriatus*) and gopher frog (*Rana capito*). Year 1. Final Report to USDA Forest Service, Apalachicola National Forest, Bristol, FL.

PROFESSIONAL LICENSES:

NAUI certified SCUBA Diver (dive-certified since 1986)

Certified Research Diver with the University of Florida

Class D (chauffeur's) Driver License, State of Florida

JOB RELATED SKILLS:

Knowledge of natural history and identification of many vertebrate species of the southeastern U.S. (especially larval and adult amphibians, reptiles and birds). Extensive experience in numerous methods of sampling and monitoring vertebrates (especially amphibians, reptiles, and birds). Proficient in the use of personal computers: spreadsheet applications, word processing applications, graphics and presentation applications. Type 40+ words per minute. Heavily experienced in driving standard transmission and 4WD vehicles, ATV use, and operation of small motorboats. Experienced in towing and backing boat trailers. Heavily experienced with the use of firearms (rifles and handguns). Received numerous gun safety (1991, 1993, 1994, 1996) grizzly and black bear safety (1991, 1993, 1994, 1996), and hypothermia (1991, 1993, 1994, 1996) training courses while working for USFWS in Alaska. Trained canoeist on flat and whitewater. CPR and First Aid certified December 2001.

FOREIGN LANGUAGE:

Spanish

Speak and write fluently.

HONORS AND AWARDS:

Presidential Academic Fitness Award
Leon High School 1990

Best Speaker
Leon High School Speech Class 1989

PROFESSIONAL SOCIETY MEMBERSHIPS:

Society for the Study of Amphibians and Reptiles

REFERENCES:

L. Richard (Dick) Franz, Ecologist and Professor
Florida Museum of Natural History
University of Florida, Gainesville, FL 32611
Phone: 352-392-4959
Email: dfranz@flmnh.ufl.edu

Hank K. Timm, Wildlife Biologist
Tetlin National Wildlife Refuge
P.O. Box 779, Tok, AK 99780
Phone: 907-883-5312
Email: hank_timm@fws.gov

Dr. Steve A. Johnson, Herpetologist
USGS Biological Monitoring Station
Gainesville, FL
Home Phone: 352-692-0130

Jim S. Dunbar, Archeologist
Florida Bureau of Archeological Research
500 South Bronough St.
R. A. Gray Bldg., Rm. 312, Tallahassee, FL 32399-0250
Phone: 850-487-2299
Email: jsdunbar@mail.dos.state.fl.us

Dr. S. David Webb, Curator of Vertebrate Paleontology and Professor
Florida Museum of Natural History
University of Florida, Gainesville, FL 32611
Phone: 352-392-4959 Email: webb@flmnh.ufl.edu