

## **Dr. Catherine A. Langtimm**

### ***Wildlife Biologist***

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### **EDUCATION**

1992 Ph.D. Zoology, University of Florida, Gainesville, FL.  
1984 MS Biology, George Mason University, Fairfax, VA  
1974 BS Biology, St. Ambrose College, Davenport, IA

### **AREAS OF SPECIALIZATION**

Vertebrate population ecology with a special emphasis on the application of mark-recapture statistical models to assess population trends, estimate life-history parameters, and test hypotheses concerning factors affecting reproduction, survival and population growth rates.

### **PROFESSIONAL EXPERIENCE**

**1998-present** Research Wildlife Biologist, Florida Integrated Science Center, (formerly the Florida Caribbean Science Center), USGS, Gainesville, FL  
**1993-1998** Wildlife Biologist, Piedras Blancas Research Station, California Science Center, USGS (formerly National Biological Service), San Simeon, CA  
**1992-1993** Wildlife Biologist, U.S. Fish & Wildlife Service, National Ecology Research Center, Gainesville, FL  
**1991-1992** Museum Specialist, USFWS, National Ecology Research Center, Gainesville, FL  
**1985-1990** Graduate Assistant, University of Florida, Gainesville, FL  
**1974-1984** Museum Specialist, USFWS, National Fish and Wildlife Laboratory, National Museum of Natural History, Division of Mammals and Division of Amphibians & Reptiles, Washington, D.C

### **PROFESSIONAL MEMBERSHIPS**

The Wildlife Society, Ecological Society of America, The Animal Behavior Society, Society for Marine Mammalogy, The American Society of Mammalogists, The George Wright Society

### **HONORS AND AWARDS**

USGS Star Awards – 2000 and 2001  
USFWS Special Achievement Awards - 1975, 1982, 1983, 1993

## **ACADEMIC AFFILIATIONS**

LTER Associate, Harvard Forest, Harvard University, Petersham, MA;  
Research Associate, Biology Department, College of the Holy Cross, Worcester, MA

## **SELECTED PUBLICATIONS**

Kendall, W.L., **C.A. Langtimm**, C.A. Beck, and M.C. Runge. 2004. Capture-recapture analysis for estimating manatee reproductive rates. *Marine Mammal Science* 20:424-437. [[pdf file available](#)]

**Langtimm, C.A.**, C.A. Beck, H.H. Edwards, K.J. Fick-Child, B.B. Ackerman, S.L. Barton, and W.C. Hartley. 2004. Survival estimates for Florida manatees from the photo-identification of individuals. *Marine Mammal Science* 20:438-463. [[pdf file available](#)]

Runge, M.C., **C.A. Langtimm**, and W.L. Kendall. 2004. A stage-based model of manatee population dynamics. *Marine Mammal Science* 20:361-385. [[pdf file available](#)]

**Langtimm, C.A.**, and C. A. Beck. 2003. Lower survival probabilities for adult Florida manatees in years with intense coastal storms. *Ecological Applications* 13:257-268 [[pdf file available](#)]

Mackenzie, D. I., J. D. Nichols, G. Lachman, S. Droege, J. A. Royal, and **C. A. Langtimm**. 2002. Estimating site occupancy rates when detection probabilities are less than one. *Ecology* 83:2248-2255. [[pdf file available](#)]

Hall, R. J., and **C. A. Langtimm**. 2001. The U.S. National Amphibian Research and Monitoring Initiative and the Role of Protected Areas. *The George Wright Forum* 18(2):14-25. [[pdf file available](#)]

**Langtimm, C. A.**, T. J. O'Shea, R. Pradel, and C. A. Beck. 1998. Estimates of annual survival probabilities for adult Florida manatees (*Trichechus manatus latirostris*). *Ecology* 79:981-997. [[pdf file available](#)]

**Langtimm, C. A.**, C. K. Dodd, Jr., and R. Franz. 1996. Estimates of abundance of box turtles (*Terrapene carolina bauri*) on a Florida Island. *Herpetologica* 52:496-504.

O'Shea, T. J. and **C. A. Langtimm**. 1995. Estimation of survival of adult Florida manatees in the Crystal River, at Blue Spring, and on the Atlantic coast. Pp. 194-222 in O'Shea, T. J., B. B. Ackerman, and H. F. Percival (editors). *Population Biology of the Florida Manatee*. U. S. Department of the Interior, National Biological Service, Information and Technology Report 1. [[pdf was available for entire volume on the Sirenia web page, access no longer there](#)]

**Langtimm, C. A.** and D. A. Dewsbury. 1991. Phylogeny and evolution of rodent copulatory behavior. *Animal Behavior* 41:217-225.