

Raymond A. Saumure

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Education

McGill University
Montréal, Québec, Canada

Ph.D. Wildlife Biology (2004) - 28 October 2004
Advisors: Drs. Rodger D. Titman & Tom B. Herman
Dissertation: **Spatial ecology and conservation of the North American wood turtle (*Glyptemys insculpta*) in a fragmented agri-forest landscape.**

M.Sc. Wildlife Biology (1997)
Advisor: Dr. J. Roger Bider
Thesis: **Growth, mutilation, and age structure of two populations of wood turtles (*Clemmys insculpta*) in southern Québec.**

University of Guelph
Guelph, Ontario, Canada

B.Sc. Biology, Honours (1993)
Advisor: Dr. E. Don Stevens
Honours research: **A preliminary analysis of the morphology and physiology of shaker muscle in the rat snake *Elaphe obsoleta*.**

Publications (Peer-reviewed)

Saumure, R.A., B. Freiermuth, J. Jundt, L. Rowlett, and J. Jewell. 2002. A new technique for the safe capture and transport of crocodylians in captivity. *Herpetological Review* 33: 294-296.

Saumure, R.A. 2001. Kyphosis in a musk turtle (*Sternotherus odoratus*) from Ontario, Canada. *Chelonian Conservation and Biology* 4: 159.

Saumure, R.A. 2001. Limb mutilations in snapping turtles, *Chelydra serpentina*. *Canadian Field-Naturalist* 115: 182-184.

Saumure, R.A., and J.R. Bider. 1998. Impact of agricultural development on a population of wood turtles (*Clemmys insculpta*) in southern Québec, Canada. *Chelonian Conservation and Biology* 3: 37-45.

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Saumure, R.A., and D. Rodrigue. 1998. Albino snapping turtle (*Chelydra serpentina*). Canadian Field-Naturalist 112: 344.

Graham, T.E., **R.A. Saumure**, and B. Ericson. 1997. Map turtle winter leech loads. Journal of Parasitology 83: 1185-1186.

Colt, L.C. Jr., **R.A. Saumure**, and S. Baskinger. 1995. First record of the algal genus *Basycladia* (Chlorophyta, Cladophorales) in Canada. Canadian Field-Naturalist 109: 454-455.

Publications (Others)

Saumure, R.A., and J.C. Beane. 2001. *Clemmys muhlenbergii* (Bog Turtle). Ectoparasites. Herpetological Review 32: 38.

Saumure, R.A., and J.S. Doody. 2000. *Carettochelys insculpta* (Pig-nosed Turtle). Ectoparasites. Herpetological Review 31: 237-238.

Saumure, R.A., and J.S. Doody. 1998. *Amphiuma tridactylum* (Three-toed Amphiuma). Ectoparasites. Herpetological Review 29: 163.

Saumure, R.A., and S.L. Carter. 1998. *Clemmys muhlenbergii* (Bog Turtle). Parasites. Herpetological Review 29:98.

Saumure, R.A., and J.R. Bider. 1996. *Clemmys insculpta* (Wood Turtle). Ectoparasites. Herpetological Review 27: 197-198.

Saumure, R.A. 1996. Geographic distribution: *Chelydra serpentina serpentina* (Common Snapping Turtle). Herpetological Review 27: 150.

Saumure, R.A., and P.J. Livingston. 1994. *Graptemys geographica* (Common Map Turtle). Parasites. Herpetological Review 25: 121.

Saumure, R.A. 1993. *Rana clamitans* (Green Frog). Albinism. Herpetological Review 24: 31.

Saumure, R.A. 1993. *Rana catesbeiana* (Bullfrog). Predation. Herpetological Review 24: 30.

Saumure, R.A. 1992. *Clemmys insculpta* (Wood Turtle). Size. Herpetological Review 23: 116.

Saumure, R.A. 1990. *Emydoidea blandingi* (Blanding's Turtle). Parasites. Herpetological Review 21: 60.

Saumure, R.A. 1985. Wood turtle (*Clemmys insculpta*). CHORUS – Newsletter of the Ottawa Amphibian and Reptile Association 2: 3-4.

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Publications (In preparation)

Seburn, C.N.L., and C.A. Bishop (Eds.). 2004. *Clemmys marmorata* in Ecology, Conservation and Status of Reptiles in Canada. Herpetological Conservation 2. Society for the Study of Amphibians and Reptiles (**In Press**)

Saumure, R.A., R.D. Titman, and T.B. Herman. Beyond home ranges: Integral, statistical, and linear ranges as applied to the wood turtle, *Glyptemys insculpta*. Journal of Animal Ecology (**Submitted**)

Saumure, R.A., A.D. Walde, and T.A. Wheeler. Non-predatory fly larvae (*Delia platura*: Anthomyiidae) discovered in the nest of a common map turtle (*Graptemys geographica*). Chelonian Conservation and Biology (**Submitted**)

Walde, A.D., and **R.A. Saumure**. *Apalone ferox* (Florida Softshell Turtle). Predation. Herpetological Review (**Submitted**)

Saumure, R.A., R.D. Titman, and T.B. Herman. Effects of haying and agricultural practices on an imperilled species: the North American wood turtle, *Glyptemys insculpta*. Ecological Applications (**Completed**)

Saumure, R.A., T.B. Herman, R.D. Titman. Effects of patch size and habitat structure on the movements of adult male wood turtles, *Glyptemys insculpta*. Landscape Ecology (**Completed**)

Walde, A.D., J.R. Bider, D. Masse, **R.A. Saumure**, and R.D. Titman. Nesting Ecology and Hatching Success of the Wood Turtle, *Glyptemys insculpta*, in Québec. Biological Conservation (**In preparation**)

Selected Research Reports

Saumure, R.A. 1997. The natural history of four species of turtles inhabiting the Big Creek National Wildlife Area. Progress report for the Canadian Wildlife Service. 35 pages.

Saumure, R.A. 1995. Turtle research in the Big Creek National Wildlife Area. Report to the Canadian Wildlife Service. 82 pages.

Saumure, R.A. 1994. A cross-referenced bibliography of the wood turtle, *Clemmys insculpta*. Version 3.2. McGill University. 41 pages.

Saumure, R.A. 1992. A report on the pilot year of a mark-recapture study on four species of turtles inhabiting the Big Creek National Wildlife Area, Long Point, Ontario. Report to the Canadian Wildlife Service. 21 pages.

Invited Symposia

Saumure, R.A., and J. Bonin. 2003. **Putting Humpty Dumpty back together again: A key to turtle eggshells?** New Frontiers in Freshwater Turtle Ecology (aka PowderMill V). Annual Meetings of the American Society of Ichthyologists and Herpetologists (ASIH), Herpetologists' League (HL), and Society for the Study of Amphibians and Reptile (SSAR). Manaus, Brazil.

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Saumure, R.A., and J.R. Bider. 1999. **Impact of agricultural development on a population of wood turtles (*Clemmys insculpta*) in southern Québec, Canada.** Forum on the Biology and Conservation of North American Turtles of the Genus *Clemmys*. Annual Meetings of the ASIH, HL, and SSAR. Pennsylvania State University.

Teaching Experience

Biodôme de Montréal

(Oct-93 to Aug-97)

Full time bilingual educator position requiring 8 hours of public speaking per day on the ecology and natural history of some 200 species within 5 mesocosms (Tropical Rainforest, Laurentian Forest, St. Lawrence Marine, Arctic, Antarctic). **Superior performance** in all presentation formats including: informal, classroom, guided talks, foreign dignitaries, press, research seminars, day camps, & help desk.

Ontario Ministry of Natural Resources

Carillon Provincial Park - Visitor Services Coordinator

(Apr-91 to Sept-91)

Daily bilingual public presentations on the history, geology, fauna, or flora of the park. Responsible for educational content, amphitheater presentations, guided hikes, in-park advertising, press releases, administration, and the supervision of two student employees.

Killarney Provincial Park - Assistant Visitor Services Coordinator

(Jun-90 to Sept-90)

Guided marsh hikes, amphitheater presentations, and day-hikes for guests at an internationally renowned wilderness park (The Group of Seven painted here). Occasional supervision of two employees.

Research Grants

2000	Shark Reef at Mandalay Bay	\$ 22,000.00
1998-2000	Fondation de la Faune du Québec	\$ 17,000.00
1998	Québec Ministère de l'Environnement et de la Faune du Québec	\$ 15,000.00
1998	Canadian Wildlife Service & Parks Canada	\$ 1,000.00
1998	Ministère de l'Environnement et de la Faune du Québec	\$ 15,000.00
1995	Ministère de l'Environnement et de la Faune du Québec	\$ 8,000.00
1994	Ministère de l'Environnement et de la Faune du Québec	\$ 8,000.00
1994	Biodôme de Montréal	\$ 1,000.00
1993	Ontario Ministry of Natural Resources	\$ 12,000.00
1993	World Wildlife Fund	\$ 3,000.00

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Contractual Research Experience

Québec Ministère de l'Environnement et de la Faune & Parks Canada

(May-98 to Jul-98)

Scientific advisor for a status report on the wood turtles of Québec. Provided access to comprehensive collection of literature on the species.

Ministère de l'Environnement et de la Faune & Biodôme de Montréal

(Jun-98 to Feb-99)

Produced the first dichotomous key for the identification of turtle eggs and eggshell fragments. Elegant in its simplicity.

Université du Québec à Montréal & Biodôme de Montréal

(May to Jun-97 & 99)

Investigated the population ecology of giant toads (*Bufo marinus*) inhabiting a tropical rainforest mesocosm. Determined population size, density, sex ratio, distribution, and morphometrics. Organized and administered the entire project, with the exception of funding.

World Wildlife Fund, Québec Ministère de l'Environnement et de la Faune

(Jun-93)

Surveyed upper Ottawa River for the presence of a threatened softshell turtle. Canvassed cottagers and tracked down original individuals who produced erroneous National Museum of Canada records.

World Wildlife Fund, Canadian Wildlife Service, & Ontario Ministry of Natural Resources

(May-93 to Aug-93)

Population ecology of four species of turtles inhabiting a Ducks Unlimited impoundment. Trained and supervised two student employees. Administered all aspects of project (i.e. proposals, budget, payroll, taxation, work schedules, etc.).

Ontario Ministry of Natural Resources

(Apr-92 to Aug-92)

Set up and surveyed prototype amphibian monitoring transects that were later used as the prototype system for North American amphibian monitoring initiatives. Coordinated project, including five students, during extended leave of supervisor.

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*Applied Experience***Senior Conservation Biologist**

(Apr-00 to Feb-03)

Shark Reef at Mandalay Bay
Las Vegas, Nevada, USA

Participated in the opening of a 50 million USD for-profit aquarium managed by the Vancouver Aquarium and Marine Science Center. Advised Director of facility on all animal related matters. Advised curatorial staff on the biology and husbandry of animal collection. Conceived and implemented all dangerous reptile security protocols, including weapon acquisition, storage, and training. Implemented PIT tagging program for all elasmobranches, moray eels, and reptiles. Compiled and submitted CITES applications for Appendix I animal species. Managed the production of a comprehensive facility Procedures & Protocols Manual. Designed and implemented computerized Animal Inventory & Daily Report databases. Implemented curatorial catalogue system for specimen and tissue collections. Produced a cost-benefit analysis for a potential lemon shark release into the wild. Created comprehensive research library containing over 400 volumes. Successfully managed, reviewed, and edited American Zoo & Aquarium Association (AZA) membership application.

Animal Health Technician

(Dec-97 to Apr-00)

Biodôme de Montréal

Husbandry and restraint of 30 species of native and exotic reptiles and amphibians, 13 species of mammals ranging from bats to lynx, and 40 species of birds including insectivorous species, all of which reside within 5 large mesocosms at arguably the most high-tech animal facility in the world.

*Peer Review***Journals**Journal of Herpetology
Herpetological ReviewNortheastern Naturalist
Chelonian Conservation and Biology**Books - Scientific advisor / reviewer**

Ashton, R.E., Jr., and P.S. Ashton. Gopher Tortoise (*Gopherus polyphemus*) Natural History and Management Methods. Krieger Press, Melbourne, Florida. **(In Press)**

Ashton, P.S., and R.E. Ashton, Jr. 2004. Gopher Tortoise. A Life History. Pineapple Press, Sarasota, Florida.

Desroches, J.-F., and D. Rodrigue. 2004. Amphibiens et Reptiles du Québec et des Maritimes. Editions Michel Quintin, Waterloo, Québec.

Sunset Books. 1997. Water Gardens. Sunset Publishing Corporation, Menlo Park, California.

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Professional Appointments

International Union for the Conservation of Nature

Species Survival Commissions: Crocodile Specialist Group
Re-Introduction Specialist Group
Tortoise and Freshwater Turtle Specialist Group

Society Memberships

The Wildlife Society
Herpetologists' League
Society for the Study of Amphibians and Reptiles
American Society of Ichthyologists and Herpetologists
Turtle Survival Alliance - IUCN Task Force

Volunteer Work Experience

National Museum of Canada

(1983-1987)

Volunteered at least a half-day per week in the Herpetology Department. In 1983 at the age of 15, I began collecting specimens for the National Museum. This included: (1) detailed notes (2) plotting locality, (3) euthanasia of specimens, (4) standard preservation techniques, and (5) servicing a large national collection. I also began a mark-recapture study on three species of Ontario turtles...all before I began my undergraduate degree.

Special Skills

NAUI Basic Open Water SCUBA certification
Intermediate MARK Workshop (5 days); Colorado State University
ArcView GIS and Spatial Analyst with Animal Movement extension
SAS and SPSS statistical software
Reference Manager; ~2,600 papers on file
Advanced radio-telemetry experience
Web design with Dreamweaver software
Bilingual; English and French, written and spoken

Also featured in

Television

- "Wild in Vegas" (2000) Nov & Dec.; Las Vegas TV show on wildlife at city facilities
- Zone X (1999) Episode # 36; Québec French TV show on my PhD research

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National Magazines

- L'Actualité (1996) April 15, pp. 66-68; French equivalent of Time Magazine
- Les Débrouillards (1996) Volume 154, pp. 40-41; French Children's Magazine
- Owl Magazine (1985) January, p. 30; Children's Magazine

City Newspapers

- Journal de Montréal (1998) April 16, p. 7
- La Presse (1995) July 2, p. A10
- The Ottawa Citizen (1984) July 23, p. 41

Local Newspapers

- Les 2 Rives (1997) Volume 19(46), p. 1
- Carillon (1991) May 22, p. A6
- Biome (1985) Volume 5(2), p. 1