

# BEAUPLET Gwénaël

D.V.M., Ph.D.

Nationality : French

Date and place of birth : 30 April 1972, Le Mans (72)

Marital status: Single

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## Academic qualifications

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- **Ph.D in Ecology**, University of La Rochelle, France. **2001- 2005.**

*“Variations of foraging and demographic performances of female subantarctic fur seals (Arctocephalus tropicalis) breeding in Amsterdam Island: Influence of individual quality and environmental performances.”* supervised by Dr. C. Guinet. Centre d’Etudes Biologiques de Chizé, Centre National de la Recherche Scientifique, Villiers en Bois, France.

- **Doctorate in Veterinary Medecine**, Ecole Nationale Vétérinaire de Nantes, France. **1996-1998.**

*“Study of the distribution features of five pelagic dolphin species in the eastern tropical Pacific. Example of the offshore bottlenose dolphin distribution around Isla del Coco, Costa Rica.”* (obtention of a DVM Award 1998) supervised by :

- Dr. B. Würsig. Marine Mammal Research Program, Texas A&M University, Galveston, USA. 1996-1997.

- Dr. M. Gogny. Ecole Nationale Vétérinaire de Nantes, France. 1997-1998.

- **Veterinary Médecine**, Ecole Nationale Vétérinaire de Nantes, France. **1992-1996.**

Complete theoretical and practical knowledge of all aspects regarding the veterinary medicine

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## Research experience

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### **Jan - Mar 2002** *Amsterdam Island (French Southern and Antarctic Lands)*

Additional fieldwork on subantarctic fur seals in Amsterdam Island (southern Indian Ocean) to complete the dataset for my Ph.D. and for the CEBC/TAAF research programs (see below).

**Nov 1998 - Feb 2000 Amsterdam Island (French Southern and Antarctic Lands)**

“Wintering” fieldworker in charge of ecological and demographic long-term studies in seabirds and fur seals in Amsterdam Island (southern Indian Ocean) for the CEBC/TAAF research programs. This has involved monitoring productivity and breeding phenology for most species inhabiting Amsterdam Island, and censusing using standardised protocols: measuring chick/pup growth parameters; color-ringing for longitudinal analyses of breeding and survival (subantarctic fur seal, amsterdam albatros, sooty albatros, yellownosed albatros, rockhopper penguin, skua); management of satellite-tracking and time-depth recorders (subantarctic fur seal females); trapping and measuring of breeding adults (fur seals, albatrosses, rockhopper penguins and skuas); characterisation of diet using opportunistically collected regurgitates and/or scats (albatrosses, fur seals); tritium injection and blood sampling (subantarctic fur seal females and pups) for body composition analysis; anaesthesia and tooth extraction (subantarctic fur seal females) for age determination.

**Sep 1996 - Jun 1997 Marine Mammal Research Program, Texas A&M University, Galveston, USA.** Supervised by Dr. Bernd Würsig

**Field assistant :** Photoidentification of coastal bottlenose dolphins in the Gulf of Mexico (boat sailing, environmental records, group size, organization and behaviour assessments, photoidentification).

**Laboratory analyses :** Photo development, data processing (environmental and behavioural data), dorsal fins identification, dolphin necropsies.

**Other analyses :** Processing and analysing of data used during my D.V.M., related to seasonal variation of offshore *Tursiops truncatus* distribution around Isla del Coco, Costa Rica.

**Jul 1994 Oceanopolis – Marine Mammal Laboratory.** Supervised by Dr. Vincent Ridoux

**Field assistant :** Study of behavioural ecology of bottlenose dolphins resident at Sein Island, Brittany (boat sailing, environmental records, group number, organisation and behaviour assessments, photoidentification).

**Dec 1993 Oceanopolis – Marine Mammal Laboratory.** Supervised by Dr. Vincent Ridoux

**Grey seal pup clinic :** Rehabilitation and medical care (feeding, forced-feeding, weighing, drug injections, etc..) of the grey seal pups stranded (from starvation and exhaustion) on the Brittany coasts.

## **Research interests**

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I am very interested in functional and behavioural ecology of marine mammals in an evolutive perspective, at the individual level as well as at the population level. During my latest research, I have focused on links between the physiological ecology, the foraging ecology and the demographic features of females and pups in order to assess the life-history traits and evolutionary ecology of the population. I intend to continue doing active research in those fields on a marine mammal species (i.e. pinnipeds or odontocetes), as these topics have already been studied mainly on birds and terrestrial mammals. Because population dynamics is an area of investigation between the fields of population biology and population modelling, I would like to improve my skills on statistical analysis and population modelling. I am particularly excited by long-term capture-recapture approaches in conjunction with individual characteristics (i.e. morphology, physiology, foraging tactics, behaviour) to study the impact of phenotypic traits on population dynamics. I would also like to further investigate the determinants of reproductive efforts, costs of reproduction, and individual quality of female populations, from an evolutive perspective.

## Publications

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- **Beauplet G.**, Barbraud C., Dabin W., Küssener C. and Guinet C. 2005. "Age-specific survival and reproductive performances in female subantarctic fur seals: evidence of senescence and individual quality." *Oikos* : in press.
- **Beauplet G.**, Barbraud C., Chambellant M. and Guinet C. 2005. "Interannual variation in the post-weaning and juvenile survival of subantarctic fur seals: influence of pup sex, growth rate, and oceanographic conditions". *Journal of Animal Ecology* : in press.
- **Beauplet G.**, Dubroca L., Guinet C., Cherel Y., Dabin W., Gagne C. and Hindell M. 2004. "Foraging ecology of subantarctic fur seals (*Arctocephalus tropicalis*) breeding on Amsterdam Island: seasonal changes in relation to maternal characteristics and pup growth." *Marine Ecology Progress Series* 273 : 211-225.
- **Beauplet G.**, Guinet C. and Arnould J.P.Y. 2003. "Body composition changes, metabolic fuel use and energy expenditure during extended fasting in subantarctic fur seal (*Arctocephalus tropicalis*) pups at Amsterdam Island". *Physiological and Biochemical Zoology* 76(2) : 262-270.
- Dabin W., **Beauplet G.**, Crespo E.A. and Guinet C. 2004. "Age structure, growth and demographic parameters in breeding-age subantarctic fur seal (*Arctocephalus tropicalis*) females". *Canadian Journal of Zoology* 82 : 1043-1050.
- Chambellant M., **Beauplet G.**, Guinet C. and Georges J-Y. 2003. "Long-term evaluation of pup growth and pre-weaning survival rates in subantarctic fur seals, *Arctocephalus tropicalis*, on Amsterdam Island". *Canadian Journal of Zoology* 81 : 1222-1232.
- Dabin W., **Beauplet G.** and Guinet C. 2002. "Response of wild subantarctic fur seal (*Arctocephalus tropicalis*) females to ketamine and tiletamine-zolazepam anesthesia". *Journal of Wildlife Diseases* 38(4) : 846-850.
- Ridoux V., Guinet C., Liret C., Creton P., Steenstrup R. and **Beauplet G.** 1997. "A video sonar as a new tool to study marine mammals in the wild. Measurements of dolphin swimming speed". *Marine Mammal Science* 13(2) : 196-206.
- Dubroca L., Guinet C., **Beauplet G.**, Luque S. and Arnould J.P.Y. "Exhaustive marine predator activity from a simple pressure recorder: method and validation". *Journal of Experimental Biology* : submitted.
- Guinet C., Servera N., Deville T. and **Beauplet G.** 2005. "Changes in subantarctic fur seal pups' activity budget, diving and foraging behaviours throughout their rearing period.". *Canadian Journal of Zoology* : in press.
- **Beauplet G.** and Guinet C. "Variations of maternal foraging strategies in subantarctic fur seal females (*Arctocephalus tropicalis*) breeding on Amsterdam Island: influence of individual quality, reproductive experience, morphometry and environmental conditions." in preparation.

## Presentation to congress

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- **Beauplet G.**, Barbraud C., Dabin W., Chambellant M. and Guinet C. 2005. "Age-specific survival in subantarctic fur seals born in Amsterdam Island: the filters generating within-cohort selection processes." – Talk presented at 19th Conference of the European Cetacean Society (La Rochelle, France).
- **Beauplet G.**, Dubroca L., Guinet C., Cherel Y., Dabin W. and Hindell M. 2003. "Seasonal changes in the foraging ecology of lactating subantarctic fur seals (*Arctocephalus tropicalis*) at Amsterdam Island, in relation to maternal characteristics and pup growth." – Talk presented at 15th World Marine Mammal Conference (Greensboro, USA).
- Dabin W., **Beauplet G.** and Guinet C. 2001. "Response to anesthesia of subantarctic fur seal females (*Arctocephalus tropicalis*): Comparative study of Ketamine and Tiletamine-Zolazepam mixture." – Poster presented at 14th World Marine Mammal Conference (Vancouver, Canada).

- **Beauplet G.** and Acevedo A. 1998. "*Relative abundance, distribution and habitat use of offshore bottlenose dolphins at Isla del Coco, Costa Rica*". – Poster presented at 12th World Marine Mammal Conference (Monaco, France).

## **Funding and distinction**

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- **Dec 2003** World Marine Mammal Conference 2003 (Greensboro, USA) was partly supported by the Society for Marine Mammalogy (400\$ member student fellowship) .
- **1998** Veterinary Thesis Award 1998 ("DVM medal")
- **1996-1997** D.V.M. Fellowship (2500 \$) from the French Minister of Education (1 year)

## **Other**

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- Computer-proficient in diverse softwares : text (WinWord), data editing (Excel, Sigmaplot, Textpad), statistical analysis (Systat), capture-recapture analysis (MARK), presentation and pictures (PowerPoint, Photoshop), geographic information system (Arcview GIS), database management (Access), and Argos/TDR softwares (Elsa, Wildlife Computer softwares).
- Read, write and speak fluent English.