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Date of Birth: April 29, 1967

Place of Birth: Guérande, France

Nationality: France

Education

Ph.D. in Biological

Oceanography Centre Oceanology Marseilles, University of Aix-Marseilles II, France 1994

MSc Centre Oceanology Marseilles, University of Aix-Marseilles II, France 1990

B.A. Université de Bretagne Occidentale, France 1988

Professional experiences:

June 2005- now Associate Professor

Laboratoire d'Océanographie et de Biogéochimique
Centre d'Océanologie de Marseille, Marseilles, France

March 2004- June 2005: Assistant Professor

Laboratoire d'Océanographie et de Biogéochimique
Centre d'Océanologie de Marseille, Marseilles, France

March 2003 – now: Affiliate faculty, Hawaii Institute of Marine Biology

University of Hawaii at Manoa, Hawaii, USA

August, 2001- March 2004: Assistant Researcher, Hawaii Institute of Marine Biology

University of Hawaii at Manoa, Hawaii, USA

June 1999-August 2001: Post-Doctoral Investigator, Zoology Department

University of the Western Cape, South Africa

June-October 1998: Post-Doctoral Research Associate

Oregon State University, Oregon, USA.

August 1995- March 1998: Post-Doctoral Fellow

INRS-Oceanology, CANADA

June 1994- March 1995: Post-Doctoral Research assistant

Oregon State University and Bedford Institute of Oceanography, Canada.

Research Cruises

Since **2004** *N.O. Armandia*, Time series Program “**SOMLIT**” in the Bay of Marseilles

2002 July-August RV *Wecoma*, **GLOBEC – North East Pacific**

D. Thibault-Botha

2002 May-June RV *Wecoma*, **GLOBEC – North East Pacific**

2000 February-March SA *Agulhas*, Pre-recruit program, Benguela upwelling, West coast

of South Africa

1999 May-June CCGS *Hudson* Program Northern Oceans Dimethylsulphide (DMS) Emissions Model program (**NODEM II**) in the North Atlantic Ocean

1998 June-October NGCC *Des Groseilliers*, Program **SHEBA-JOIS**, ice camp in the Arctic Ocean

1996-1997 December-January N.O. *L'Atalante*, Program **ALMOFRONT II** (JGOFSFrance), in the region of the Almeria Oran geostrophic front, Mediterranean Sea

1996 May and August CCGS *John P. Tully*, Program **JGOFS-Canada** North-East Pacific Ocean

1995 August-September CCGS *John P. Tully*, Program **JGOFS-Canada** North-East Pacific Ocean

1994 July-August UCGC *Polar Sea*, Program **AOS'94** (Arctic Ocean Section) in the Arctic Ocean

1992 September-october CCGS *Hudson*, Program **JGOFS – Canada** in the North Atlantique Ocean

1991 Mai-June N.O. *L'Atalante*, Program **ALMOFRONT I** (JGOFS-France) in the region of the Almeria Oran geostrophic front, Mediterranean Sea

1991-1993 N.O. *Armandia* and N.O. *Antedon*, bi-monthly and monthly sampling in the Bay of Marseilles and in the Rhone River plume.

Teaching experiences

2006 August-September lecturer during the Arctic Expedition for K-12 Teachers, Summer School aboard the i/b *Kapitan Dranitsyn*

2004-now Bachelor in Marine Sciences - Master in Oceanography University of the Mediterranean Sea, Centre Oceanology Marseilles, Marseilles, France

2003-2004 Bachelor in Biology of marine organisms and Master in Sciences of the Environment University of the Mediterranean Sea, Centre Oceanology Marseilles, Marseilles, France

1999 Undergraduate Marine Biology II Cape Technicon, Cape Town, South Africa

1991 Master in Biological Oceanography, University of Aix-Marseilles II, Centre Oceanology Marseilles, Marseilles, France.

Students Supervision

a) Undergraduate students :

2006 Delphine Barraco (B.Sc in Sciences of the Environment and the Sea, Centre Oceanology Marseilles, Marseilles France). *Study of the zooplankton of the Bay of Marseilles (SOMLIT-Time series); analysis of zooplankton using an OPC*

Sebastien Sollberger (B.Sc in Sciences of the Environment and the Sea, Centre Oceanology Marseilles, Marseilles France). *Study of the zooplankton of the Berre Lagoon; Impact of freshwater input.*

Mathieu Petit (B.Sc in Sciences of the Environment and the Sea, Centre Oceanology Marseilles, Marseilles France). *Impact of UV and temperature increases on the structure of a lagoon ecosystem (UVTEMP)*. Mini-Thesis, 15pp.

2005 Remi Favier (B.Sc in Sciences of the Environment and the Sea, Centre Oceanology Marseilles, Marseilles France). *Study of the zooplankton of the Bay of Marseilles (SOMLIT-Time series). Set-up of automatic zooplankton recognition system and application to BIOSOPE* . Mini-thesis, 17pp

1999 S. Josias, L. Fanayo, L. Kasibe (University of the Western Cape, South Africa) and S. Peeha (University of Harare, South Africa). *Laboratory studies on metabolic rates of common West Coast jellyfishes*. Co-supervisor E. Buecher

b) Graduate students

1)- PhD. Students

2006- now Antoine Nowaczyk (PhD in Oceanography, Centre Oceanology Marseilles, Marseilles France). Zooplankton (copepods and ctenophores) functional response. Application to the Mediterranean Sea and the Arctic Ocean.

2)- M.Sc. Students

Supervisor:

2006 Antoine Nowaczyk (M Sc. in Oceanography, Centre Oceanology Marseilles, Marseilles France). *Study of the population dynamic of zooplankton during KEOPS from OPC measurements and taxonomic description. Impact of natural Iron Enrichment on the ecosystem functioning*. Co-Supervisor: F. Carlotti. Master thesis, 37pp.

Bruno Lopez (M Sc. in Oceanography, Centre Oceanology Marseilles, Marseilles France). *Size structure of the arctic zooplankton community from OPC measurements and taxonomic description. Vertical distribution through a transect across the Arctic Ocean*. Master thesis, 42pp.

Co-Supervisor:

2006 Anne-Laure Clément (M Sc. in Oceanography, Centre Oceanology Marseilles, Marseilles France). *Trophic ecology of jellyfish (*Catostylus mosaicus* and *Phyllorhiza punctata*) using stable isotopes technique*. Supervisor (Kylie Pitt Griffith University, Australia). Master thesis, 35pp.

2005 Frédéric Contino (M Sc. in Oceanography, Centre Oceanology Marseilles, Marseilles, France), *Dynamic of marine zooplankton based on the analysis of size spectrum obtained by OPC*. Master Thesis, 40pp. Supervisor: F. Carlotti

2)- Summer Internship

2006 Ivia Closset (M Sc., Centre Oceanology Marseilles, Marseilles, France), Distribution along a transect and with depth of small copepods species (*Oithona* sp. and *Oncea* sp.) in the Arctic Ocean in summer.

2005 Anne-Laure Clément (M Sc, Centre Oceanology Marseilles, Marseilles France), *Taxonomical study of the gelatinous zooplankton population during KEOPS*.

Antoine Nowaczyk (M Sc, Centre Oceanology Marseilles, Marseilles France), *Study of the population dynamic of zooplankton during KEOPS from OPC measurements*.

Elodie Maison (M Sc, Centre Oceanology Marseilles, Marseilles France), *Turtle behavior (diving, feeding) and humane leisure activities in the Aegean Sea*.

Research Projects

2002-2007: H. Claustre. *Biogeochemistry & Optics South Pacific Experiment (BIOCOPE)*.

2002-2007: S. Blain. *KErguelen : compared study of the Ocean and the Plateau in Surface water (KEOPS)*.

2004: D. Thibault-Botha. Project development grant, Sea Grant Hawaii, \$9 999.

*Preliminary study of the population of *Carybdea alata* in Hawaiian Waters*

2004-2006: F. Vidussi. *Changements globaux et répercussions sur les réseaux trophiques pélagiques marins côtiers UVTEMPS*

2006-2009: T. Moutin: *Biogeochemistry from the Oligotrophic to the Ultra oligotrophic Mediterranean sea (BOUM)*

2006-2008: D. Thibault-Botha (Partnership with the city of Marseilles)

Phytoplankton and zooplankton seasonal variation in the Arctic Ocean along the drift of the schooner Tara

2007-2008: D. Thibault-Botha (Partnership with EDF) Time-series of zooplankton in the Berre Lagoon

Scholarship-Fellowship

1999 Post-doctoral Fellowship from NRF (National Research Foundation) South Africa)

1995 Post-doctoral fellowship from INRS-Oceanology (National Institute of Scientific

D. Thibault-Botha

Research), Quebec, CANADA

1990 Ph.D. Scholarship from the Research and Technology Department, FRANCE

1989 Master fellowship from IRD (Institute in Research and development), SENEGAL

1989 Master scholarship from University Aix-Marseille II, FRANCE

Technical Knowledge

Zooplankton:

- sampling techniques (simple net i.e. WP2, Bongo, closing opening, Multiple nets i.e. MOCNESS, BIONESS),
- Stock and taxonomic composition assessment: dry weight, CN contents, lipids, dissecting microscope recognition, OPC (Optical Plankton Counter), PVA (Plankton Visual Analyzer), ZOOSCAN
- Processes analysis: gut fluorescence, grazing on phytoplankton (HPLC), microzooplankton, respiration, excretion and egg production rates, feces production, isotopic fractionation, based on different functional groups (small, medium, large size copepods, gelatinous zooplankton)

Phytoplankton :

- Sampling techniques (NISKIN, slurp gun, plankton net)
- Biomass, (fluorimeter, HPLC),
- Primary production (O₂ production, ¹⁴C, ¹³C, ¹⁵N).

Handling of CTD, fluorimeter, spectrophotometer, HPLC, gas chromatography