

Carole THOMAS

Muséum National d'Histoire Naturelle
UMR BOREA
43, rue Cuvier, CP 26
75231 Paris Cedex 05, France

Phone: 33-6-95 12 24 00
Email: cthomas@mnhn.fr

PhD at the Research Unit BOREA (3rd year)

“Biology of Aquatic Organisms and Ecosystems”
National Museum of Natural History (MNHN)

Studying the “*bichique*” on Reunion Island: from the recruitment of an amphidromous species to the socio-ecological system

Professional skills

- Marine biologist and ecologist experience on spatial and temporal variability of larval recruitment and the sustainability of traditional fisheries in insular tropical areas
- Extensive field experience including resource monitoring in protected areas
- Socio economic evaluation of coastal fisheries

Education

Master's degree of Science with Honors (M2) - **Oceanography and Marine Environments, specialization Anthropisation, management and conservation of the marine environment**

University of Pierre and Marie Curie, Paris VI, September 2012 - June 2013

Master's degree professional with Honors (M1 & M2) - **Biodiversity and Sustainable Development**

University of Perpignan, September 2010 - June 2012

Bachelor's degree - Biology of organisms, specialization Ecology

University of Science and Technology Bordeaux 1 - September 2006 - June 2009

Scientific Baccalauréat

High school Jean-Moulin, Langon, July 2006

Work Experience

Civilian Service

Observatoire du Milieu Marin Martiniquais, Martinique, April 2014 - August 2014

- Study on the impact of an invasive species, the Lion fish, on marine biodiversity.
- Experimental study of fish behaviour; Communication addressed to public and fishermen.

Assistant engineer

CEFREM, Perpignan, July 2013 - August 2013

- Logistic and human support for NAPPEX and SUBLIMO Projects.
- Underwater visual census of fish in the marine protected area of Banyuls sur mer, Mediterranean.
- Participation to IFREMER field campaign: use of rotating video for underwater visual census.
- Underwater mapping of *Posidonia* meadows in the harbour of Banyuls sur mer.

Research Internship

CEFREM, Perpignan, January - June 2013

Report: *Supply dynamic of fish post-larvae in relation to environmental processes, Western Mediterranean*. Supervisor: Philippe LENFANT.

- Sorting, identification and postmortem conditioning of fish post-larvae collected in the project SUBLIMO.
- Statistical analysis: generalized linear mixed model, factorial correspondence analysis, specific and functional diversity indices.

Internship

CRIOBE, Moorea, French Polynesia, January - July 2012

Title: *Characterization of an insular fishery*. Supervisor: René GALZIN

- Monitoring of lagoon fish catch around Moorea: surveys photo, size estimation under Visilog.
- Participation to other projects: Sampling of clown fish in scuba diving; Tagging-recapture of sharks; Capture of reef fish post-larvae using a crest net ; Fish census; Coral nursery maintaining; Parasite trap laying near fish farms.

Assistant engineer

CEFREM - Perpignan, July - August 2011

Census of fish in Banyuls Integral Reserve and monitoring on artificial reefs ; Social investigation of recreational fishing ; Creation of a photo library.

Internship

Research consultancy Paretoecoconsult, Sainte Clothilde, Reunion, January - April 2011

Report: *Study of the abundance, species composition and distribution of mesozooplankton in La Possession Bay*. Supervisor: Mathieu PINAULT.

Establishment of a sampling protocol and microscopic identification of zooplankton ; Participation to a fish census campaign on artificial reefs.

Volunteer Internship

Oceanographic Association Scaph PRO, Arcachon, June 2009

Report: *Monitoring the density of wild mussel beds in the Arcachon Basin*. Supervisor: Jean François MARAILHAC. Scientific Diving.

Special Skills

Computer skills: Software: R, Excel, PRIMER, Visilog, Adobe Bridge CS5, SPSS, Sphinx

Data analysis: Univariate and multivariate statistics

Languages: French (native), English (scientific competence), Spanish (basic knowledge)

Communications

THOMAS Carole, *Cooperation of actors willing to manage the traditional goby fry fishery in Reunion Island*. YUMARES, Oral communication, Hamburg, 2016

THOMAS Carole. *Variabilité spatiale du recrutement larvaire de *Sicyopterus lagocephalus* (Pallas 1770) sur l'île de La Réunion*. Scientific Days of UMR BOREA, Oral communication, Caen, July 2016

THOMAS Carole, Scientific Day of the doctoral program “Interfaces Pour le Vivant”, Oral communication, Paris, 2016

THOMAS Carole. *Etude du "bichique" à La Réunion: du recrutement d'une espèce amphidrome à l'éco-socio-système*. Scientific Days of UMR BOREA, Oral communication, Caen, July 2015

THOMAS Carole, Scientific Day of the doctoral program “Interfaces Pour le Vivant”, Poster, Paris, March 2015

THOMAS Carole, ELLIEN Céline & SIMON Thierry. *Une pêche à l'origine traditionnelle*. Sixth Meetings of Ichthyology in France, Poster, Paris, 24-27 March 2015

Co-author of an abstract : Garsi, Lh. ; **Thomas, C.** ; Crec'hriou, R. ; Agostini, S. ; Lecaillon, G. ; Ternengo, S. ; Garcia-Charton, J; Felix, F. ; Murenu, M. ; Muntoni, Mr. Lenfant, P. *Spatial variability of fish post-larvae around French Mediterranean coasts: first knowledge To Understand the functioning of fish biodiversity*. 37th Annual Larval Fish Conference, Miami, USA. (2013)

Publications

Article submitted for publication : Carole Thomas, Enora Becheler, Anne-Marie Trinh and Céline Ellien. *Spatial variability in post-larval recruitment of *Sicyopterus lagocephalus* (Pallas 1770) around Reunion Island*.

Miscellaneous

Teaching activities:

“Tropical marine environments”, Primary and high school, Martinique 2014

“The lagoon fisheries of Moorea”, Agricultural college, Moorea 2012

Popularizing science:

Implement a stand on the post- baccalauréat orientations, Perpignan, Science Festival 2012

Public awareness: The lion fish day, 2014

Eco-volunteering:

Woofing and Road trip, National parks, New Zealand, September 2009 - April 2010

Naturalist:

French Ichthyological Society (SFI) Member

Scientific Diving Certification (CAH 1B)

Boat Licence

Freediving

Underwater photography essay