

Timothée Bourgeois

Dalhousie University
Department of Oceanography
1355 Oxford Street, HALIFAX, NS B3H 4R2, CANADA
timothee.bourgeois@dal.ca — (+1) 902 225-6744

Education

2017-today **Postdoctoral fellow**

Dalhousie University, Department of Oceanography, Halifax, Canada

Topic: Biogeochemical impacts of the Arctic connectivity with the adjacent oceans with emphasis on nitrogen cycling

Supervisor: Katja Fennel

→ Implementation of a coupled physical-biogeochemical model in a “3Oceans” regional configuration (North Pacific, Arctic and North-Atlantic)

2013-2017 **Ph.D in Oceanography**

Paris-Saclay University, Laboratoire des Sciences du Climat et de l'Environnement, France

Topic: Impact of anthropogenic perturbations on the biogeochemistry of the global coastal ocean

Supervisors: Laurent Bopp and James Orr. CEA/DGA co-funding

→ High-resolution modelling with NEMO-PISCES

→ Bourgeois et al. (2016). Coastal-ocean uptake of anthropogenic carbon, *Biogeosciences* (13), 4167–4185, doi:10.5194/bg-13-4167-2016

→ Bourgeois et al. Biogeochemical impacts of recent changes in riverine nutrient inputs on the global coastal ocean (*in prep.*)

→ Contributing author of Chap. 16 of the 2nd State of the Ocean Carbon Cycle Report (*in review*)

→ Communications: EGU 2014 (Vienna, Austria), MyOcean Sciences Days 2014 (Toulouse, only attended), DRAKKAR 2014 (Grenoble), Goldschmidt 2015 (Prague), DRAKKAR 2015 (Grenoble), SOLAS 2015 (Kiel), GMMC 2017 (Brest).

→ Ph.D student representative at the laboratory council

2011-2013 **MASTER's degree in physical and biogeochemical oceanography**

Aix-Marseille University, Mediterranean Institute of Oceanography, France

→ Modelling in physics/biogeochemical/coupled (ROMS, ECO3M)

→ Plankton dynamics and metabolisms

→ Inverse method, Data assimilation, Dispersion, Sampling, Marine optics

2010-2011 **LICENCE in sea environment science** (French equivalent of a BSc)

Aix-Marseille University, Mediterranean Institute of Oceanography, France

→ General, physical & biological oceanography, Ecological modelling

→ Climatology, Currentology, Sedimentology, Population genetics

2008-2010 **Two-year biological/Environment degree**

Institut Universitaire de Technologie, La Roche-sur-Yon, France

→ Biogeochemistry, Biology, Ecology

2008 **French Baccalauréat**

Major in Biology – Passed with Distinction

Skills

French Mother tongue
English Professional
Spanish Notions
IT Linux, OSX, Windows
Word processing (LaTeX, Microsoft Office, HTML)
Programming (Shell, Ferret, Matlab, Python, FORTRAN)

Experience

- 2016** **Invitation and participation to peer-review**
→ Estuarine, Coastal and Shelf Science (Elsevier)
- 2014** **Oceanographic campaign** - 2 weeks during MOOSE-GE campaign
North-West Mediterranean sea, R/V Le Suroît (IFREMER)
→ Biogeochemical sampling and measures in on-board laboratory
- 2013** **Scientific internship** - 6 months
Laboratoire des Sciences du Climat et de l'Environnement, Gif-sur-Yvette
→ Modelling study at global scale of the seasonal variability of air-sea CO₂ fluxes in the coastal ocean
- 2012** **Scientific internship** - 2 months
Mediterranean Institute of Oceanography, Marseille
→ Implementation of a coupled model (ROMS-NPZD) intended to investigate impacts of physical processes on biological production linked to island mass effect in the marquesas archipelagos
- 2010** **Scientific internship** - 3 months
Machrihanish Marine Environmental Research Laboratory, Scotland
→ Comparative study between an open-water and a recirculation system based on growth efficiency and water quality criteria for farming of atlantic cod larvae, enhancement of rotifera production for larval feeding

Hobbies

Guitar, open-water swimming, scuba-diving, freediving, underwater photography

References

Dr. Laurent Bopp
CNRS Research director
bopp@lmd.ens.fr
(+33) 1 44 32 22 30

Dr. James Orr
CEA Research director
james.orr@lsce.ipsl.fr
(+33) 1 69 08 39 73

Dr. Marion Gehlen
CEA Research director
marion.gehlen@lsce.ipsl.fr
(+33) 1 69 08 86 72

ENS/LMD
24 rue Lhomond
75231 Paris Cedex 05
FRANCE

LSCE
CEA - Orme des merisiers
Bât. 712
F-91191 GIF-SUR-YVETTE Cedex
FRANCE