

## Thibault de GARIDEL-THORON

Research scientist at Centre National de la Recherche Scientifique (CNRS)

CEREGE, UMR 7330 CNRS, Aix-Marseille Université

Europôle de l'Arbois, BP80

13545 AIX-EN-PROVENCE CEDEX 4

<http://www.garidel.fr/>

Ph: +33-442-971-579

Cell: +33-685-02-71-43

### RESEARCH INTERESTS :

Paleoceanography, micropaleontology, ecology and evolution of calcareous plankton, trace metal and stable isotope geochemistry of calcareous plankton.

### PROFESSIONAL EXPERIENCE:

Since 2009. Research Scientist [Chargé de Recherches (CR1)] CNRS-CEREGE, France  
2005-2009. Junior Scientist [Chargé de Recherches (CR2)] CNRS-CEREGE, France  
2002-2005. Post-doctoral associate, Institute of Marine and Coastal Sciences, Rutgers Univ., NJ, USA  
2001-2002. Teaching and Research Associate, CEREGE, Université d'Aix-Marseille III.  
1998-2001. Research Associate, CEREGE, Université d'Aix-Marseille III.  
1996-1997. Geologist in the Forensic Laboratory of Police, Lyons, France

### EDUCATION :

2002 **PhD.** CEREGE-Université d'Aix Marseille III.

1998 **DEA** Environnements et Paléoenvironnements Océaniques – Université Bordeaux I, equivalent to a M.Sc Earth Sciences.

1996 **Maîtrise de Sciences de la Terre** – Université Claude Bernard - Lyon I – equivalent to a degree in Geology.

### SELECTION OF PUBLICATIONS :

- Beaufort, L., T. de Garidel-Thoron, A.C. Mix, and N.G. Pisias, ENSO-like Forcing on Oceanic Primary Production During the Late Pleistocene, *Science*, 293 (5539), 2440-2444, 2001.
- de Garidel-Thoron, T., L. Beaufort, F. Bassinot, and P. Henry, Evidence for large methane releases to the atmosphere from deep-sea gas-hydrate dissociation during the last glacial episode, *Proceeding of the National Academy of Sciences*, 101 (25), 9187-9192, doi/10.1073 /pnas0402909101, 2004.
- de Garidel-Thoron, T., Y. Rosenthal, F. Bassinot, and L. Beaufort, Stable sea surface temperatures in the western Pacific warm pool over the past 1.75 million years, *Nature*, 433, p294-298, doi:10.1038/nature03189, 2005.
- de Garidel-Thoron, T., L. Beaufort, Y. Rosenthal, E. Bard, C. Sonzogni, and A.C. Mix, A multi-proxy assessment of the equatorial Pacific hydrography during the last 30 ky, *Paleoceanography*, 2007.
- Beaufort, L., I. Probert, T. de Garidel-Thoron et al. (2011), Sensitivity of coccolithophores to carbonate chemistry and ocean acidification, *Nature*, 476(7358), 80–83, doi:10.1038/nature10295
- Regoli, F\*, T. de Garidel-Thoron, K. Tachikawa, Z. Jian, L. Ye, A. W. Droxler, G. Lenoir, M. Crucifix, N. Barbarin, and L. Beaufort (2015), Progressive shoaling of the equatorial Pacific thermocline over the last eight glacial periods, *Paleoceanography*, 30(5), 439–455, doi:10.1002/2014PA002696.

### GRANTS AND AWARDS:

- PI Project Agence Nationale Recherche FIRST (Automatic recognition of foraminifera – ANR 2015-

2019) PRCE. 313 k€.

- PI Project Agence Nationale Recherche PALEO-CTD : Exploiting oceanic Cryptic Taxonomic Diversity of planktonic foraminifera (ANR 2006-2010). 130 k€.
- Project Agence Nationale Recherche CALHIS (2012-2016) – WP1 leader.
- Project Agence Nationale Recherche Monsoon Dynamics MONOPOL (2012-2016) –local PI MONOPOL
- Post-doctoral Fellowship, Institute of Marine and Coastal Sciences, Rutgers Univ. USA (2002-2005).

### **SEAGOING EXPERIENCE :**

- N/O Atalante [2015], cruise CaraCalHis, Caraïbes : hydrology, coring and nets.
- R/V Bic Olaya [2014], cruise CALHIS, Pérou : hydrology, coring and nets.
- Coastal cruise off Baja California [2014], hydrology and nets.
- NO Antédon [2012-2017], coastal cruise off Marseille, bimestrial sampling.
- N/O Marion Dufresne [june 2012], MONOPOL cruise, hydrology, coring and nets.
- Coastal cruise off Papua New Guinea [2012] – hydrology and nets.
- R/V Sonne [april 2010], cruise PACENPAL, Tahiti-Tahiti. coring.
- N/O Alis [june 2008], plankton nets, *Chief scientist*.
- N/O Marion-Dufresne [july-august 2007], plankton nets, *Chief scientist*.
- R/V Tansei-Marui [may 2006], plankton tows and sediment.
- R/V Knorr [may 2004], coring and plankton tows.
- R/V Baruna Jaya [ july 2003], coring, water sampling and plankton tows.
- N/O Marion Dufresne [august to september 1999], coring and water column sampling.
- N/O Marion Dufresne [may to july 1997], coring.

### **SYNERGISTIC ACTIVITIES**

- Reviewer for *Science, Nature, Nature Geoscience, Paleoceanography, Geology, Climate Dynamics, Earth and Planetary Science Letters, CRAS...*
- Referee for projects INSU-LEFE (CYBER, IMAGO), ANR, NSF, NSERC, Polish NSC French Ship Cruises Panel.
- Head of the Group “Climatic variability and impact on ecosystems” at CEREGE since 2012.
- Member of different panels : French Ship Cruises Panel (2015-2019), oceanography in Marseille (2011-énding), International high school Luynes (2016-2018).
- Board member for AFEQ-CNF INQUA (French INQUA)
- Organizer of the yearly Science Festival “Fête de la Science de l’Arbois” – 1000 people attendance.

### **PhD SUPERVISIONS :**

- Aurore André [2013], coll. with Frédéric Quillévéré et Gilles Escarguel (Université Claude Bernard Lyon 1). (lecturer at Univ. de Reims)
- Fabienne Régoli, coll. with Luc Beaufort [2014]. (now at Museum d’Histoire Naturelle de Marseille)

### **TEACHING :**

- Head of Master 2 Earth System: Environment, tectonic, geomorphology and paleoclimate, since 2015, Aix-Marseille Univ.
- Responsible of field trips for the Master Earth System (1&2) : paleoclimatology in continental (Alps) and marine (Mediterranean Sea environments).