

**Thibaut CALEY** (21/01/1985)  
CNRS researcher – EPOC Laboratory- France



## Education and Training

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Since 2015: CNRS researcher (EPOC, Bordeaux)  
2014/2015: Post-Doc: Revealing South-East African past climate, its link to sedimentary fluxes and Hominid evolution (UBO/Ifremer Brest).  
2012/2014: Post-Doc: Understanding the oceanic  $\delta^{18}\text{O}$  record and its link to land records using data-model comparisons (Faculty of Earth and Life Sciences, VU Amsterdam).  
2008/2011: Phd thesis: Importance of the Indian Ocean for Quaternary paleoclimate: the Monsoon and the Agulhas current (Bordeaux University).

## Scientific Skills

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- Paleoceanography/Paleoclimatology
- Geochemistry of fossil organisms
- Bio/Geochemistry of organic matter
- Automated morphometric analysis and transfer functions on planktonic foraminifera
- XRF core scanner
- Numerical climate modeling including water stable isotopes (iLOVECLIM model)

## Research interests

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- Past hydroclimate dynamic (Indo-Asian and African monsoons, Indian Ocean)
- Past ocean dynamic (Agulhas current, AMOC)
- Data-climate model comparison/integration
- Tools for quantitative ocean paleotemperature and paleosalinity reconstructions
- Climate changes and Human evolution

## Publications and Research highlights

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### Scientific journals:

#### **44 Publications since 2009**

### Scientific communications:

#### **83 communications in national and international conferences since 2009.**

##### *Popular Science:*

- 2 communications “Pour la Science”.
- 3 Communications CNRS INSU
- Emission La Tête au carré par Mathieu Vidard - France Inter du 27/11/2017 La fin du Sahara vert.

## Research projects

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**Since 2016, 6 PI research projects and 8 as collaborator.**

**Examples of on-going projects** (\* denotes interdisciplinary projects):

(2021-2026) **ANR: JCJC HYDRATE (PI)** (evaluate the low latitude HYDrological cycle in numeRicAl climate models by consTraining past ocean salinity changEs).

\*(2022-2026) **Réseaux de Recherche Impulsion / ORIGINS** : De l'origine de la matière et des systèmes planétaires à l'évolution du climat. Leader Challenge III: Towards a comparative (exo)-planetary climatology.

\*(2024-2029) **ERC PLIODIS** (Pliocene Hominin Dispersal to southern Africa: Choice or Chance? Investigate the population dynamics of early hominins in Africa.). **Work packages manager « paleoclimate » and “ecological modelling” 70%.**

## Awards

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- CNRS Bronze medal (2019)
- INTIMATE Congress Support (November 2013, Paris)
- AGU Chapman Conference Grant Award (October 2012, Stellenbosch)
- INQUA Congress Support (July 2011, Bern)
- IMAGES Grant for ICP 10 (Sept 2010, San Diego)

## Oceanographic cruises

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2016 (2 month) South Africa margin, IODP Safari project

2012 (21 days) Bay of Bengal, MONOPOL project

2010 (15 days) Bay of Biscay, SARGASS project

## Teachings and trainings

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- Supervisor of a Phd Thesis (2022-2025) and Co-supervisor of 2 PhD Thesis (2023-2026)
- Co-supervisor of 2 Post-Doc (2022-2025) and (2024-2026).
- Supervisor of 9 Master thesis
- Experience of Teaching: Master degree (Master 2 Paléoclim STEE (Université Bordeaux), mention océanographie). 3 hours per year.

## Scientific and administrative responsibilities

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- Development and co-head of a trace element chemistry laboratory and an organic geochemistry laboratory at EPOC.
- In charge of the animation of Axe 1 “Dynamique des enveloppes fluides externes et climat” of Paleoclimate team (2022-2027)
- Membre suppléant du jury d'admission des CR de l'INSU du CNRS au titre de l'année 2023
- 3 Conferences/workshops organizer