

Cyclostratigraphy Newsletter, March 2024

Hello and welcome to Cyclostratigraphy Newsletter number 10! 📧

This newsletter includes news on the Cyclostratigraphy Intercomparison Project, research opportunities, conferences and publications.

You are very much invited to get in touch if you have news, publications, job opportunities or events that you would like to see included in the next newsletter.

Best wishes,

Sietske Batenburg, sbatenburg@ub.edu

1. CIP 2.0

Would you like to participate in the second Cyclostratigraphy Intercomparison Project workshop? CIP 2.0 will take place from **8 to 10 July 2024 in Brussels**, Belgium. You can download the first circular with practical information [here](#), as well as the case studies.

You can contribute by analysing at least one and preferably both case studies, and by sending in your results before 24 May 2024. A third case study will be analysed during the workshop in Brussels. If you like to participate in person, you can help the cyclostratigraphic community to evolve by discussing current topics in an informal and open environment.

The success of this intercomparison depends on contributions from the whole cyclostratigraphy community, and everyone is invited to join. Fee waivers can be considered for participants from developing countries and students can apply for IAS travel grants. For more information, check the [webpage](#).

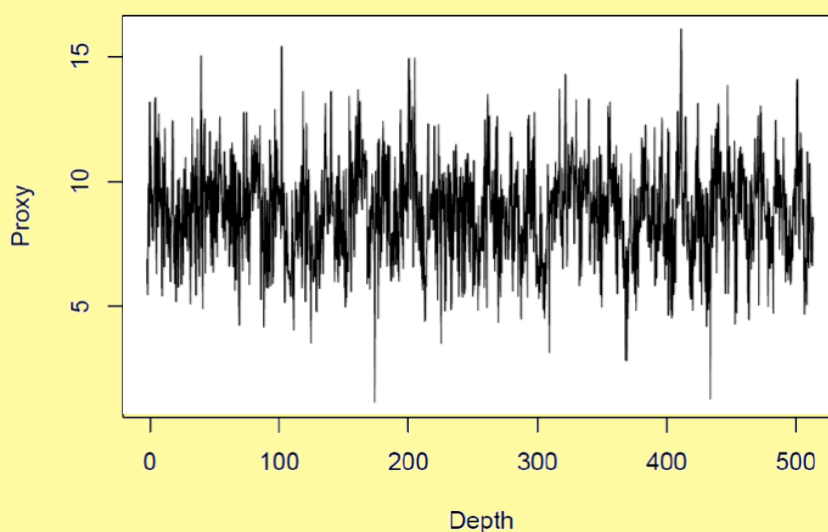
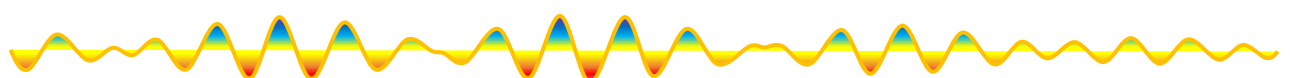
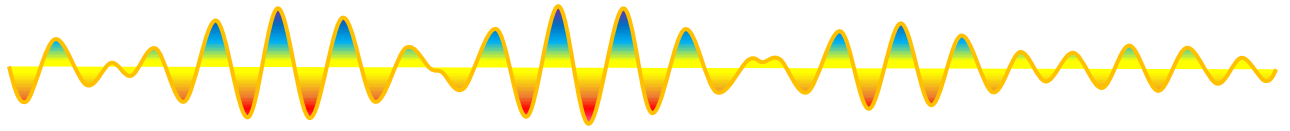


Fig 1. A sneak peek at case study 2, one of the signals to be analysed before CIP 2.0





2. Conferences and workshops

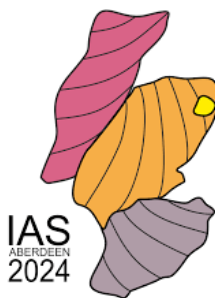


If you are interested in Stratigraphic correlation and Age modelling, the **StratoBayes workshop** is for you.

The StratoBayes R package takes a Bayesian approach to correlating and dating geological data. It automatically aligns geochemical or geophysical signals measured in multiple outcrops or wells, and is able to integrate absolute age constraints such as radiometric dates, providing age-depth models with realistic uncertainty estimates.

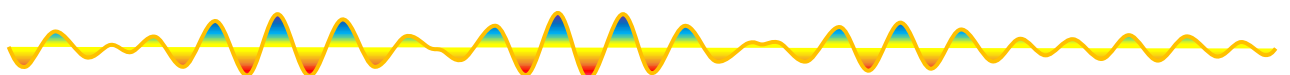
In this workshop, participants will learn the use of the StratoBayes R package, and are encouraged to build stratigraphic correlations or age models using their own data sets. The workshop will take place from 18 – 20 March 2024 in Durham, UK. Follow the links for more [info](#) or [signing up](#).

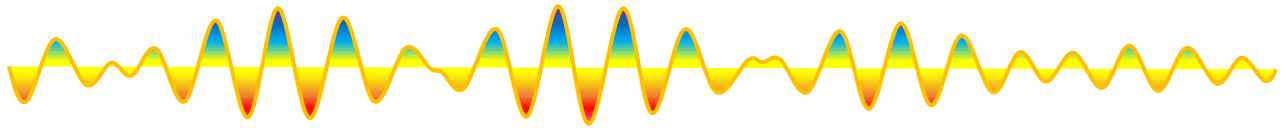
The [General Assembly 2024](#) of the European Geosciences Union will take place from 14–19 April in Vienna, Austria, and online. Early registration is available until 18 March. [Session CL1.1.2](#) is dedicated to the 'Climate response to orbital forcing', and [Session ITS5.5/SSP1.14](#) on 'Decoding the Geological Record: Accounting for the Incomplete and Distorted Record of Geological Events'.



The International Association of Sedimentologists [IAS Conference 2024](#) will take place in Aberdeen from 25 – 27 June 2024. Early Bird registration is open until 31 March.

The 37th International Geological Congress [IGC2024](#) will take place from 25 to 30 August 2024 in Busan, Republic of Korea. Abstract submission is open until 15 March.





3. Research opportunities



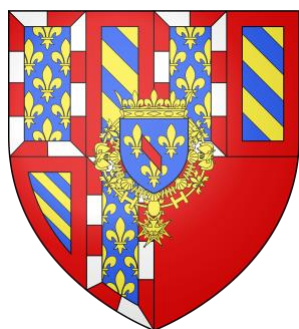
The Earth System Science Working Group at the University of Münster in Germany is currently seeking a postdoctoral researcher with a novel research proposal in the field of cyclostratigraphy and/or paleoclimate modelling. This position comes with full funding via a 2-year Alexander-von-Humboldt postdoctoral stipendium (2800 euros per month).

The starting date for this position is flexible, but candidates must have completed their PhD. Interested individuals are encouraged to contact David De Vleeschouwer (ddevlees@uni-muenster.de) with a brief outline of their research idea.

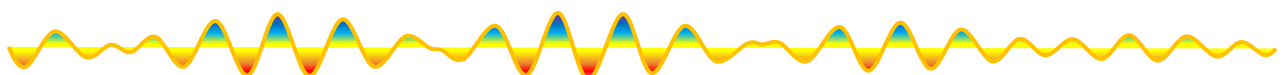


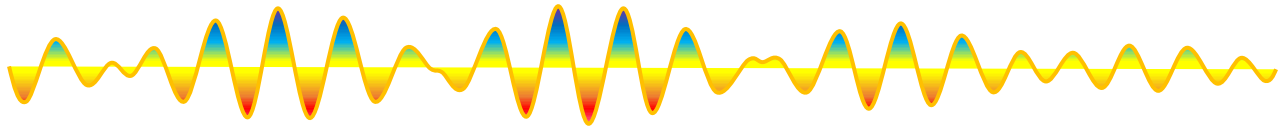
The University of Naples in Italy will hire an [associate professor in sedimentary geology](#). The position is open for those holding a habilitation in the Italian system or an equivalent position abroad. For more information, contact Mariano Parente, maparent@unina.it. The application deadline is 18 March.

The University of Aarhus in Denmark is inviting applications for a [Tenure Track Assistant Professor in geochemistry](#), working in the field of palaeoceanography and palaeoclimatology. The application deadline is 15 March.



A 2-year [postdoctoral position in Earth system modelling](#) is available to work at the Biogeosciences research laboratory in Dijon, France. The post-doctoral project is part of the French national (ANR) project CYCLO-SED (2024–2028) investigating the physical mechanisms allowing astronomical forcing to be recorded in marine sediments during non-glacial, deep-time geological periods. The successful candidate will improve the representation of atmospheric dynamics (using an emulator) and continental weathering (based on existing models) in the Earth system model of intermediate complexity cGENIE, study the model behaviour and publish the code. The application deadline is 15 March.





4. Publications

A selection of papers in the field of cyclostratigraphy and orbital forcing:

- Bailey, R., 2023. Cyclostratigraphy at a tipping point. *Geology Today*, 39(3), pp.99-106.
- De Vleeschouwer, D., Percival, L.M., Wichern, N.M. and Batenburg, S.J., 2024. Pre-Cenozoic cyclostratigraphy and palaeoclimate responses to astronomical forcing. *Nature Reviews Earth & Environment*, pp.1-16.
- Kaboth-Bahr, S., Schmitt, C., Bauersachs, T., Zeeden, C., Wonik, T., Schandl, J., Lenz, O., Wedmann, S., Vasiliev, I., Mulch, A. and Lourens, L., 2024. Improved chronostratigraphy for the Messel Formation (Hesse, Germany) provides insight into early to middle Eocene climate variability. *Newsletters on Stratigraphy*.
- Kong, X., Jiang, Z., Wu, S. and Ge, T., 2024. Stepwise astronomical tuning of obliquity-driven evaporite cycles in an Eocene salt lake (Jiangnan Basin, Hubei Province, China): Implications for middle Eocene East Asian monsoon-like climate evolution. *Geological Society of America Bulletin*.
- Martínez-Rodríguez, R., Batenburg, S.J., Castro, J.M., de Gea, G.A., Nieto, L.M., Ruiz-Ortiz, P.A. and Robinson, S., 2024. Integrated cyclostratigraphy of the Cau core (SE Spain)-A timescale for climate change during the early Aptian Anoxic Event (OAE 1a) and the late Aptian. *Global and Planetary Change*, 233, p.104361.
- Sinnesael, M., Millard, A.R. and Smith, M.R., 2024. A Bayesian astrochronology for the Cambrian first occurrence of trilobites in West Gondwana (Morocco). *Geology*, 52-3, 205-209
- Sylvester, Z., Straub, K.M. and Covault, J.A., 2024. Stratigraphy in space and time: A reproducible approach to analysis and visualization. *Earth-Science Reviews*, p.104706.
- Xie, Y., Wu, F., Ning, W. and Jiang, Y., 2024. Orbitally-forced meridional shifts of the westerlies modulated the hydroclimate of northeast China during the late Eocene. *Palaeogeography, Palaeoclimatology, Palaeoecology*, 633, p.111908.

A selection of articles will be included in the next newsletter. If you would you like to see your work included in a future newsletter, or if you want to share other news, get in touch.

Feel free and encouraged to distribute this newsletter further. If you know of conferences, workshops, job opportunities, or if you would like to share other news related to cyclostratigraphy, please do not hesitate to email. Subscribe or unsubscribe from this newsletter by writing to sbatenburg@ub.edu. The newsletter will be available for download on www.cyclostratigraphy.org.

