

Cyclostratigraphy Newsletter, Dec 2023

Hello and welcome to Cyclostratigraphy Newsletter number 9.

This newsletter includes news on the Cyclostratigraphy Intercomparison Project, podcasts, 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. Cyclostratigraphy Intercomparison Project workshop CIP 2.0

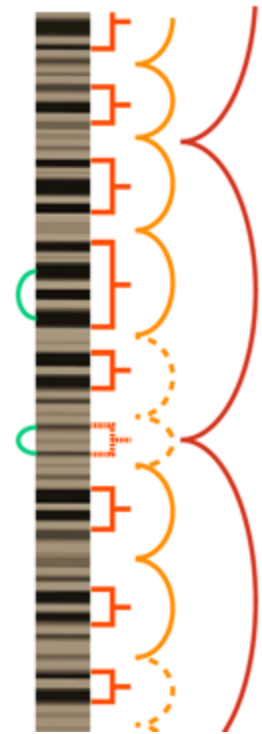
The Cyclostratigraphy Intercomparison Project tested the reproducibility and robustness of cyclostratigraphic methods in 2018. The project will now have a 2nd workshop, CIP 2.0 from **8 to 10 July 2024 in Brussels**, Belgium. A message from the organisers:

CIP 2024 WORKSHOP IN BRUSSELS – SAVE THE DATE!

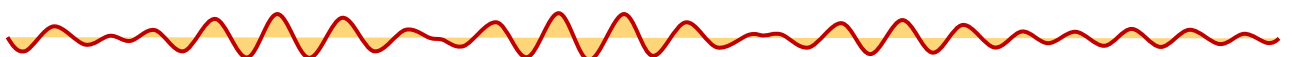
CycloNet is a European Cyclostratigraphy Network between a number of European research groups receiving a limited amount of funding (2022-2026) by the Flemisch Science Foundation (FWO) for supporting interdisciplinary collaboration in the field of cyclostratigraphy.

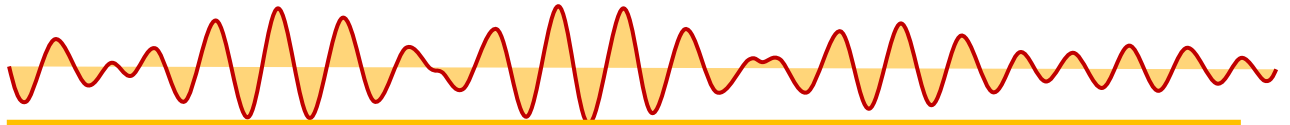
In 2024, CycloNet wants to build on the successful first CIP workshop in 2018 in Brussels by organizing a second in-person workshop from Monday July 08th till Wednesday July 10th 2024 in Brussels. This second CIP workshop is open to the cyclostratigraphy community at large: everybody is invited to participate.

The set-up of this workshop will be somewhat different than the first workshop in that the general aim is not necessarily focused on testing the reproducibility of cyclostratigraphy as a field. However, by using some of the successful ingredients of the first workshop we would like to bring interested people together to discuss actual topics within the field. We believe some of these key ingredients were the creation of an informal and open environment fostering discussions on how we do things, and how we can evolve as a community towards the future. Another crucial aspect was the assignment done by the participants before coming to the workshop. We therefore decided to keep these as crucial ingredients for this workshop. Differences with the 2018 workshop are the decision to work with real data, and to analyze a case study during the workshop.



A cyclic signal analyzed for CIP 1.0





Pre-workshop:

Participants analyze one case study, and prepare for the workshop by submitting a one-page essay (both obliged).

During the workshop:

There will be another case study analyzed during the workshop.

2) A debate on the topic of uncertainty, and spectral significance testing in cyclostratigraphy. Several keynote lectures and community updates.

3) Discussion on further community building and –interactions.

After the workshop:

It is planned to communicate the key findings from the workshop to the wider geoscientific community. Which exact format this will be can be discussed.

More detailed information on the case studies, programme and registration is to follow via www.cyclostratigraphy.org. For questions and expressions of interest, please contact Matthias.sinnesael@obspm.fr.

2. Cyclopod

New podcasts by young scientists are available on the cyclostratigraphy.org website.

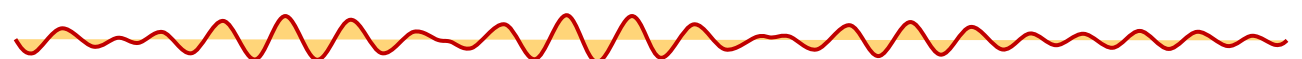


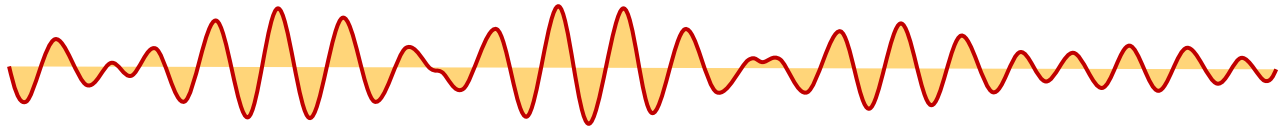
The first live episode of the [podcast](#) series features Udara Amarathunga from ANU (Canberra), who talks about the ‘mystery sapropel’ that extends through an insolation minimum, as [published](#) in Nature Geoscience.

In the thirteenth [podcast](#), Mohammad Farhat from IMCCE, Paris Observatory, talks about his work in the [Astrogeo](#) project, and in particular on his recent [paper](#) in Astronomy and Astrophysics on the tidal evolution of the Earth-Moon system.



The fourteenth [podcast](#) episode was recorded at EGU 2023 and contains contributions by five young scientists, Loic Sablon (Louvain, Belgium), Valentin Jamart (Lausanne, Switzerland), Peng Zhou (Beijing, China), Miho Ishizu (Pusan, South Korea), and Agnese Mannucci (Urbino, Italy).





In the fifteenth [podcast](#) episode, Anya Crocker from the University of Southampton talks about astronomically controlled aridity in the Sahara Desert, based on her recent [paper](#) in Nature Geoscience.

3. Conferences and workshops



The American Geophysical Union will hold [AGU23](#) in San Francisco and online from 11–15 December. There will be a sessions dedicated to Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System, with [posters](#) on Tuesday and [oral presentations](#) on Wednesday. The [invited lecture](#) in this session by Lorraine Lisiecki, as well as the [Emiliani lecture](#) by Peter Clark, will focus on benthic $\delta^{18}O$.

The [General Assembly 2024](#) of the European Geosciences Union will take place from 14–19 April in Vienna, Austria, and online. Abstract submission is open until 10 January 2024.

[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 Geological Society

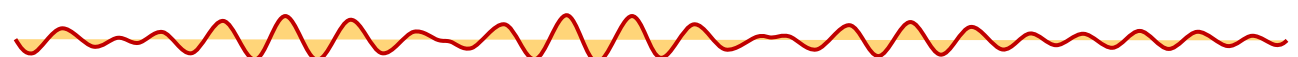
The Energy Group of the Geological Society of London will hold a [meeting](#) on 'Stratigraphy in Modern Geoscience: methodologies, application and future relevance' on 23–24 January in London, UK and online.

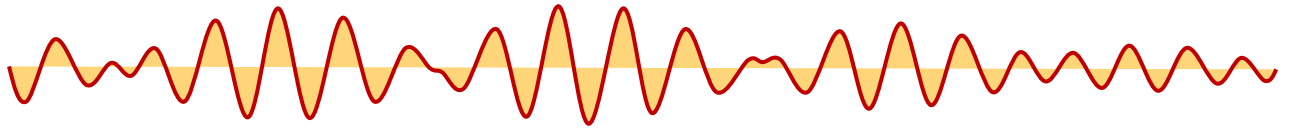
The International Association of Sedimentologists [IAS Conference 2024](#) will take place in Aberdeen from 25 – 27 June 2024. The extended abstract deadline is 8 January 2024, but abstracts received before 8 December will be reviewed before the winter break.



IGC 2024
The 37th International Geological Congress 2024

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





4. Research opportunities

The Department of Earth Sciences at SOEST, University of Hawai'i at Mānoa seeks to fill a faculty position at the level of [Assistant Professor](#) in the area of paleoclimatology. The application deadline is 26 December 2023.



The MacEwan University at Edmonton, Canada invites applications for a full-time tenure-track appointment in Earth and Planetary Sciences, with a focus on Climate, Paleoclimate Reconstruction or Environmental Earth Sciences. Review of applications begins 31 December 2023.

The International Ocean Discovery Program (IODP) team at Leicester, UK is looking for a [project manager](#) and a [technician](#), involving participation in ocean research expeditions. The application deadline is 2 January 2024.



The Department of Earth & Planetary Sciences at Yale University welcomes applications for the Richard Foster Flint [Postdoctoral Fellowship](#), for candidates with research interests in climatic processes, Cenozoic paleoclimate, historical climate records, and future climate predictions. The application deadline is 5 January 2024.

A [professorship](#) in Arctic Climate Evolution is advertised at the Geological Survey of Denmark and Greenland (GEUS) in Copenhagen, Denmark. The application deadline is 10 January 2024.



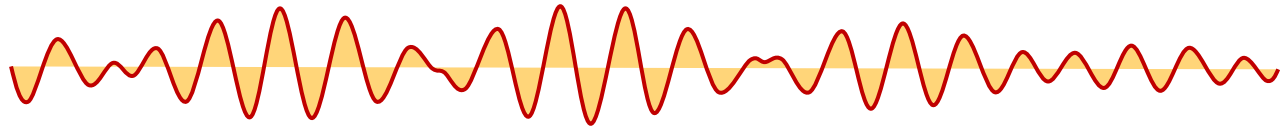
The Sedimentology Research Group at the Institute of Geosciences, Goethe-University Frankfurt, Germany, invites applications for a [Research Associate](#), to join their work on the dynamics of marine and terrestrial sedimentary systems and their response to climate change. Application deadline is 15 January 2024.

The department of Earth Sciences at Utrecht University, the Netherlands, is inviting applications for the role of [Assistant Professor](#) in the field of Integrated Stratigraphy. Application deadline is 29 January 2024.



Universiteit
Utrecht





5. Publications

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

- Baars, T.F., Huis, R., Zhang, L., Koopmans, M., McLean, D., Martinius, A.W. and Abels, H.A., 2023. A cyclostratigraphic framework of the Upper Carboniferous Westoe and Cleaver formations in the southern North Sea Basin as a methodology for stratigraphic reservoir characterisation. *Netherlands Journal of Geosciences*, 102, p.e9.
- Bao, R., Sheng, X., Meng, X., Li, T., Li, C., Shen, H., Da, J., Ji, J. and Chen, J., 2023. 100 ky pacing of the East Asian summer monsoon over the past five glacial cycles inferred from land snails. *Geology*, 51(2), pp.179-183.
- Charbonnier, G., Boulila, S., Spangenberg, J.E., Vermeulen, J. and Galbrun, B., 2023. Astrochronology of the Aptian stage and evidence for the chaotic orbital motion of Mercury. *Earth and Planetary Science Letters*, 610, p.118104.
- Jin, L., Ganopolski, A., Willeit, M., Lu, H., Chen, F. and Zhang, X., 2023. Decoupled orbital-scale variability of late Pleistocene-Holocene monsoonal circulation and rainfall in East Asia. *Science Bulletin*, 68(9), pp.897-901.
- Kodama, K.P. and Pazzaglia, F.J., 2023. New paleomagnetic and rock-magnetic cyclostratigraphy-determined age, deposition rates, and processes for a part of the Calvert Cliffs (Miocene) passive margin deposits. *Earth-Science Reviews*, 245, p.104570.
- Martinez, M., Aguirre-Urreta, B., Dera, G., Lescano, M., Omarini, J., Tunik, M., O'Dogherty, L., Aguado, R., Company, M. and Bodin, S., 2023. Synchrony of carbon cycle fluctuations, volcanism and orbital forcing during the Early Cretaceous. *Earth-Science Reviews*, p.104356.
- Sinnesael, M., 2023. Ordovician cyclostratigraphy and astrochronology. *Geological Society, London, Special Publications*, 532(1), pp.63-78.
- Spiering, B.R., Bissick, A., Darroch, S.A., Davies, J.H., Gibson, B.M., Halverson, G.P., Laflamme, M. and Hilgen, F.J., 2023. Initial cyclostratigraphy of the middle Nama Group (Schwarzrand Subgroup) in southern Namibia. *Precambrian Research*, 397, p.107200.
- Vallner, Z., Kovács, E.B., Haas, J., Mórnicz, F., Ruhl, M., Zajzon, N. and Pálffy, J., 2023. Preservation of orbital forcing in intraplatform carbonates and an astronomical time frame for a multiproxy record of end-Triassic global change from a western Tethyan section (Csővár, Hungary). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 617, p.111493.
- Qiu, R., Fang, L., Lu, Y., Chen, Y., Huang, R., Lei, W., Zhang, P. and Li, M., 2023. Cyclostratigraphy of the Lower Jurassic (Toarcian) terrestrial successions in the Sichuan Basin, southwestern C
- Zeeden, C., Ulfers, A., Pierdominici, S., Abadi, M.S., Vinneband, M., Grelle, T., Hesse, K., Leu, K. and Wonik, T., 2023. Downhole logging data for time series analysis and cyclostratigraphy. *Earth-Science Reviews*, p.104436.

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.

