

Cyclostratigraphy Newsletter, Dec 2022

Hello and welcome to Cyclostratigraphy Newsletter number 7.

This newsletter includes an invitation to complete a questionnaire for Cyclostratigraphy Intercomparison Project 2.0, news on workshops and conferences, including a cyclostratigraphy field school, job opportunities, resources 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

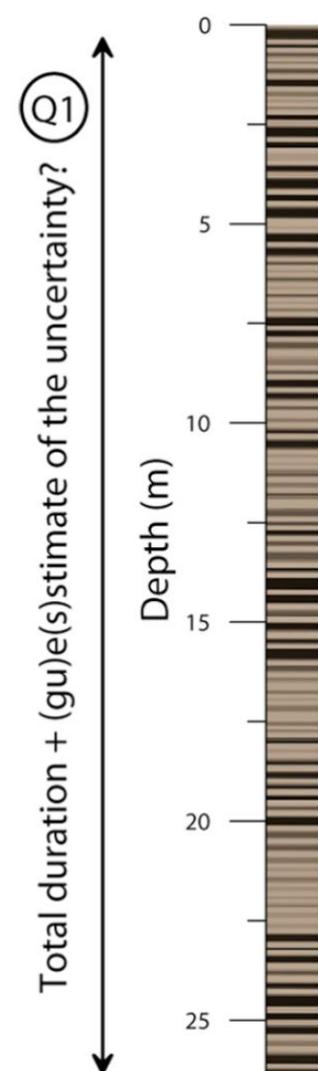
1. Cyclostratigraphy Intercomparison Project 2.0 [Questionnaire](#)

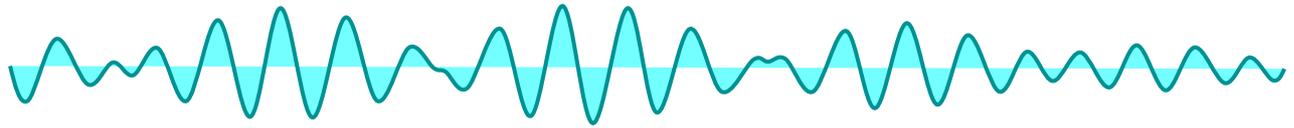
The 2018 Cyclostratigraphy Intercomparison Project ([CIP1.0](#)) assessed the robustness of cyclostratigraphic methods using an experimental design of three artificial cyclostratigraphic case studies with known input parameters. The experiment [revealed](#) that cyclostratigraphy is a powerful tool and a trainable skill.

Community interest in a follow-up CIP2.0 is growing and the organisers need your help! You are invited to complete a [questionnaire](#) to get a better idea on the potential interest and ideas related to a CIP2.0. Given the success of CIP1.0, the organisers would like to maintain some ingredients like the open-discussion format and the obligation of analysing a case study before the workshop to be able to join. This time, however, they consider working with real data sets (also during the workshop), and giving additional attention to some of the hot topics within the community like the reconstruction of eccentricity, detection of chaos and reconstruction of the Earth-Moon system.

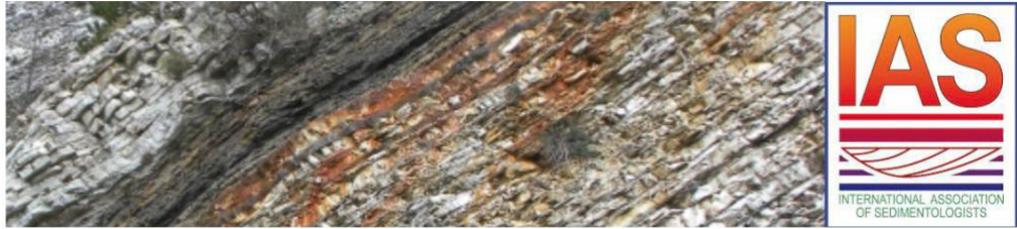
The [Cyclocafé](#) on Friday January 13th 2023 at 15:00 UTC will be dedicated to the discussion on the guidelines produced by CIP1.0 and will provide an open platform to brainstorm on the organization of a CIP2.0.

Please help bring the cyclostratigraphy community together in CIP 2.0, by completing the [questionnaire](#) and/or attending the [Cyclocafé](#).





2. Conferences and workshops



Applications are open for a one-week [Field school in Cyclostratigraphy](#), where students will visit famous cyclic successions in the Italian Apennines, and will get hands-on experience in measuring and analysing stratigraphic data. The field school is organised within the context of the Cyclostratigraphy Intercomparison Project and the CycloNet project funded by the Research Foundation Flanders (FWO), and student travel grants are available through the International Association of Sedimentologists ([IAS](#)). Click [here](#) for the circular.

A [Workshop on the future of Scientific Ocean Drilling](#), with Mission-Specific Platforms and Chikyu is organised by ESSAC and J-DESC and is open for registration.

This workshop, which will take place over three-days (January 17, 19, and 26, 2023; Online), will serve to review the status of planning of post-2024

Scientific Ocean Drilling, communicate the intention of the new ECORD-Japan program and collect new ideas for the development of new MSP and Chikyu drilling proposals based on identified knowledge gaps and novel scientific questions to be addressed in the next 5-10 years. It is open to everyone in the international geoscience community, and the abstract submission deadline is 19 December 2022. Click [here](#) for the circular.



AGU FALL MEETING

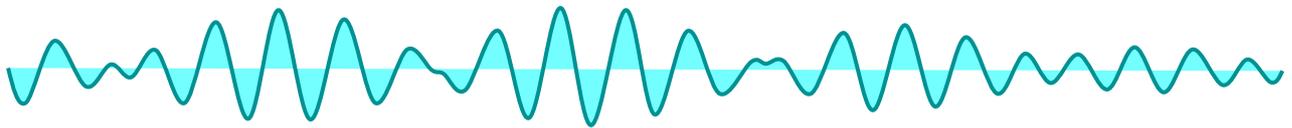
Chicago, IL & Online Everywhere
12- 16 December 2022

The [American Geophysical Union \(AGU\) Fall Meeting](#) is taking place soon in Chicago, USA, from 12–16 December. It will operate a hybrid model of in-person and online participation. Two sessions focus on chronostratigraphy:

Session PP25D - Cyclostratigraphy and Astronomical Forcing of Earth's Paleoclimate System, with [posters](#) and [oral](#) presentations, and an online-only [poster](#) discussion

Session GP42B - Magnetic Chronostratigraphy, with [posters](#) and [oral](#) presentations.





The [36th International Meeting of Sedimentology](#) of the International Association of Sedimentologists (IAS) will take place from 12–16 June, 2023 in Dubrovnik, Croatia. Pre- and post-conference [field-trips](#) are on offer and registration will open on 5 December.



The general assembly of the European Geosciences Union (EGU) will take place in Vienna, Austria, from 23 to 28 April 2023. Abstract submission is open until 10 January, and several sessions highlight cyclostratigraphy, orbital forcing and geochronology:

Session [EMRP3.3](#): Magnetostratigraphy and Cyclostratigraphy
Session [SC4.13](#): Application of age models in palaeoclimatology and geomorphology
Session [SSP2.1](#): Integrated Stratigraphy - Recent advances in stratigraphic systems and geochronology
Session [CL1.1.1](#): Climate response to orbital forcing

3. Research opportunities

A [PhD position](#) is advertised on the climatically controlled sedimentation dynamics and export productivity in the Scotia Sea (Southern Ocean) during the last four glacial cycles, in Kiel, Germany, with visits to Heidelberg, Germany, and Columbia University, USA. Deadline: 9 December

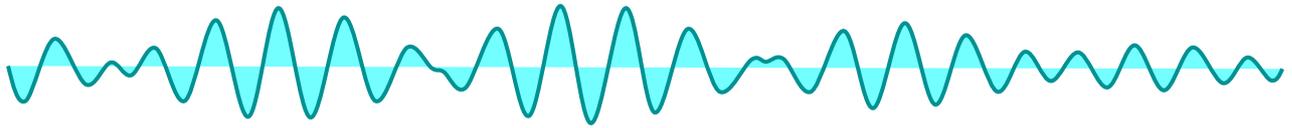


Utrecht University

Utrecht University, the Netherlands, offers a [postdoc position](#) on modelling the completeness of the stratigraphic record, combining stochastic sedimentation, astronomical forcing, and sedimentary and diagenetic self-organisation to create 3D models of carbonate platforms. The application deadline is 7 December.

A [research position](#) is open within the University of Bologna, to work on the Integrated stratigraphy and paleoclimate history of a late Quaternary succession of the central Po Plain, and the advert mentions orbital cycles. The application deadline is 13 December.





An [assistant professorship](#) is advertised in Geology and Geophysics at the Scripps Institution of Oceanography in San Diego, USA. The deadline for applications is 3 January 2023

A [tenure-track faculty position](#) in sedimentology, stratigraphy, and/or Earth-surface processes at the University of Minnesota is open for applications until 3 January.



4. Resources

The [Palinsol](#) R package developed by Michel Crucifix provides a tool to compute Incoming Solar Radiation (Insolation) for paleoclimate studies. It features three solutions: BER78, BER90 and LA04, and computes daily-mean, season-averaged and annual means for all latitudes.

5. Publications

Thank you to the following researchers for forwarding their latest publications:

Martínez-Braceras, N., Franceschetti, G., Payros, A. Monechi, S., and Dinarès-Turell, J. 2022. High-resolution cyclochronology of the lowermost Ypresian Arnakatxa section (Basque-Cantabrian basin, western Pyrenees). *Newsletters on Stratigraphy*, <https://doi.org/10.1127/nos/2022/0706>

Wang, M., Li, M., Kemp, D.B., Boulila, S. and Ogg, J.G., 2022. Sedimentary noise modeling of lake-level change in the Late Triassic Newark Basin of North America. *Global and Planetary Change*, 208, p.103706. <https://doi.org/10.1016/j.gloplacha.2021.103706>.

Weedon, G.P., 2022. Chapter 9 Cyclostratigraphy: regular cycles detected and counted to measure time. In: Coe, A.L., [Deciphering Earth's History: The Practice of Stratigraphy](#). Geological Society of London, London, UK, pp 161-179.

Weedon, G.P., 2022. Problems with the current practice of spectral analysis in cyclostratigraphy: avoiding false detection of regular cyclicity. *Earth-Science Reviews*, 235, 104261, <http://doi.org/10.1016/j.earscirev.2022.104261>

Wu, Y., Fang, X., Jiang, L., Song, B., Han, B., Li, M. and Ji, J., 2022. Very long-term periodicity of episodic zircon production and Earth system evolution. *Earth-Science Reviews*, p.104164. <https://doi.org/10.1016/j.earscirev.2022.104164>

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.

