Biogeosciences (BG) Division meeting

Lisa Wingate

#EGU23 General Assembly 25th April 2023



Meetings | Publications | Outreach | www.egu.eu





- 1. EGU23
- 2. BG Division structure
- 3. BG Awards
 - Outstanding Student Poster and PICO (vOSPP) Award
 - Division Outstanding Early Career Scientists Award
 - Vladimir Ivanovich Vernadsky Award Division Medal
 - Nominations open
- 4. BG Publications
- 5. AOB

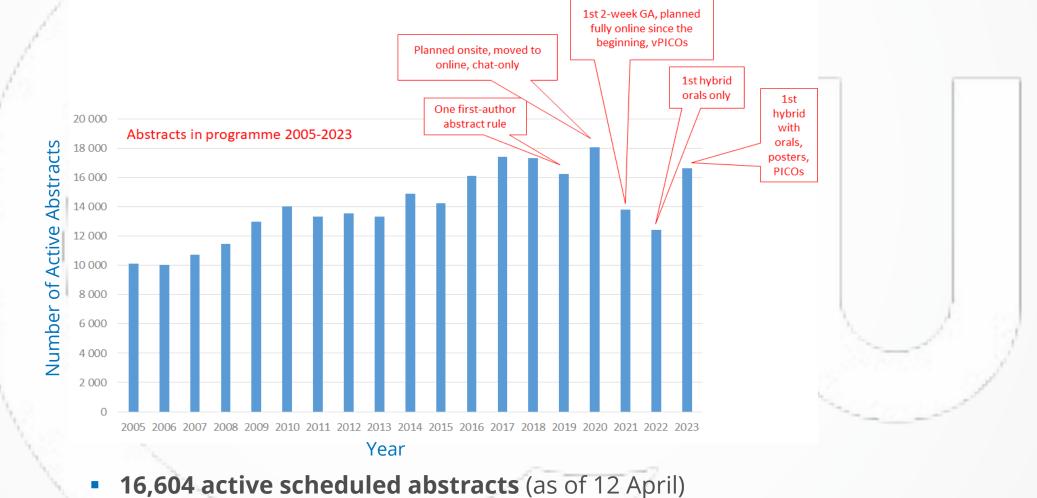




- 16,604 active abstracts in programme
- 15,319 total registrations | 13,287 on-site/ 2,032 virtual (13%) as of 17 Apr
- 925 active sessions | 629 division-led sessions | 51 Short Courses | 39 Medal and Award Lectures
- 114 Townhall and Splinter Meetings | 5 Union Symposia and 6 Great Debates
- ECS Networking, Science for Policy and EDI Committee Events
- 2 Artists in Residence and an EDI Art Project



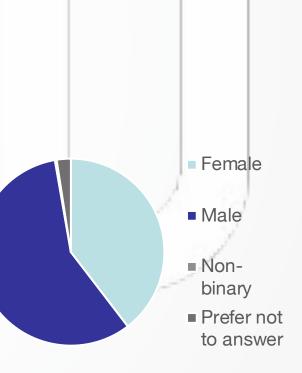
Number of Active Abstracts 2005-2023





EGU23 Registration Statistics (as of 17 Apr)

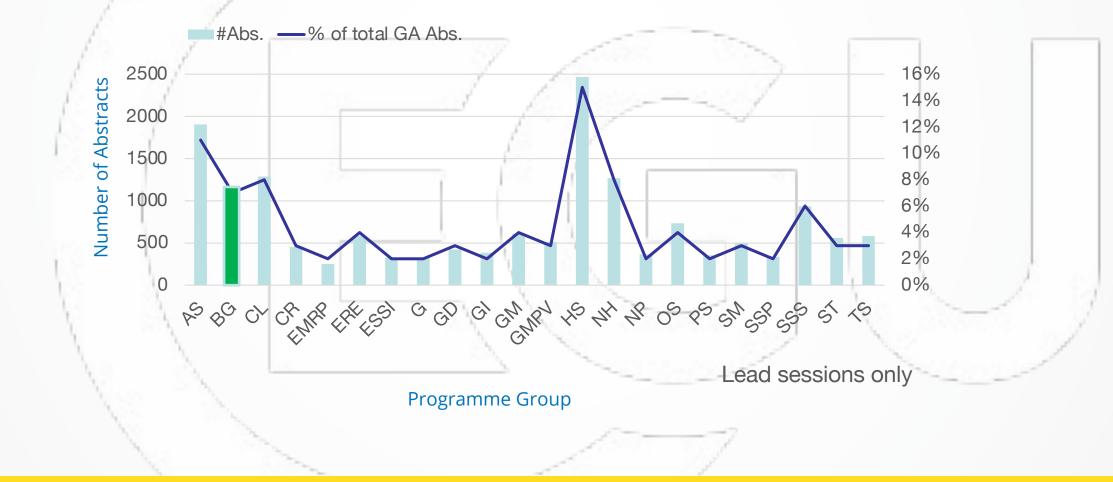
- 16,604 active scheduled abstracts
- 15,319 total registrations (13,287 on-site / 2,032 virtual)
- ~13% of total participants registered for virtual participation
- ~ 40% of total participants are PhD candidates, Master or Undergraduate students (~ 25% participating virtually)
- ~ 5% of registered participants from low-& lower-middle income countries (approx. equally distributed onsite & virtual participation)
- Gender: male (~ 57 %) and female (~ 39 %), with less difference between percentages for virtual participation





EGU23 Abstracts per Programme Group

(as of 12 Apr)





BG Abstract Statistics 2023

Lead sessions:

Number of abstracts **1133** (738 in 2022) (~6% of the program) **62%** ECS (70% in 2022) Number of sessions **41** (37 in 2022)

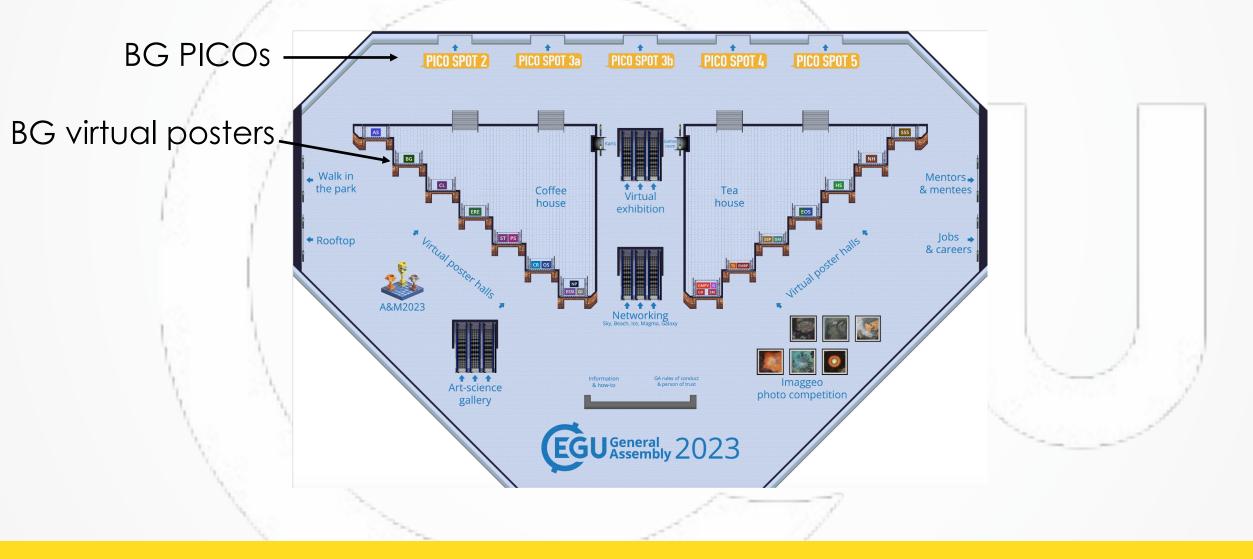
Co-org. sessions:

Number of abstracts 1,030 (1011 in 2022)

Orals: 1109 (51%) Posters on site: 861 (40%) Posters virtual: 126 (6%) PICO: 67 (3%)



Meet with Virtual Attendees in Gathertown





Science for Policy Sessions/Events





EGU General Assembly 2023

- SC3.14 How to create spaces for science-policy interaction and dialogue, Tue, 25 Apr, 10:45–12:30 (CEST) Room -2.85/86
- SC3.13 What are Science4Policy competences and why are they crucial for researchers to achieve policy impact, Wed, 26 Apr, 16:15–18:00 (CEST) Room -2.61/62
- EGU Science for Policy Help Desk, 12:00 13:00 everyday at the EGU Booth

EGU would like us to create and appoint a BG Division Policy Officer For more information contact <u>bg@egu.eu</u> or policy@egu.eu

More on: <u>https://www.egu23.eu/</u>



EGU's Policy Priority Area 2022-2024:

Biodiversity







Written by: The EGU Biodiversity Task Force August 2022 BG Division has already created the sub-division:

Biogeosciences, Policy and Society Scientific Officer: Bikem Ekberzade

We would now like to create an official policy-related volunteer position

BG Division Policy Officer

For more information contact <u>bg@egu.eu</u> or policy@egu.eu



GDB3

The Science activist: should science get Political? Tue, 25 Apr, 10:45–12:30 (CEST) Room E1

SC3.10

<u>Researchers as informed citizens: taking part in the</u> <u>public discourse without risking our scientific integrity</u> Tue, 25 Apr, 14:00–15:45 (CEST) Room -2.61/62

TM12 Science and Climate activism (part 1): Community debate Tue, 25 Apr, 19:00–20:00 (CEST) Room L2

Geoscientists and Climate Activism







Juggling Caring Responsibilities with a geoscience career

SC2.7 <u>Surviving in Academia as a Parent</u> Mon, 24 Apr, 14:00–15:45 (CEST) Room -2.61/62

US4

Juggling parenting and caring responsibilities with a career in the geosciences: barriers and opportunities to increasing accessibility and inclusion

Tue, 25 Apr, 14:00-18:00 (CEST) Room E1

- Mobility
- Funding
- Support Networks
- Conference Childcare

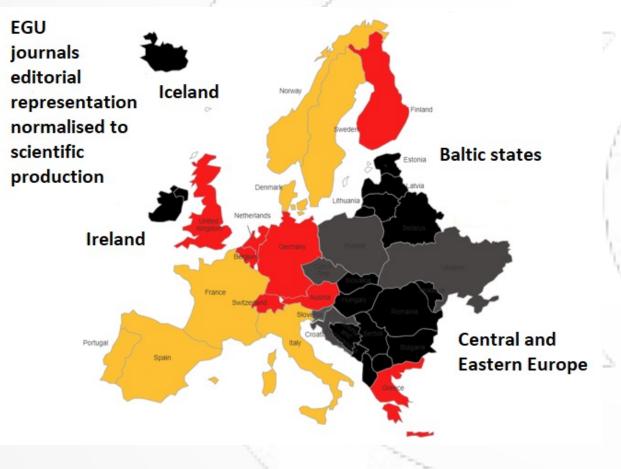
Pop-up Event

Visit the playground for scientists with kids Location: Sparefrohspielplatz in Donaupark Wed, 26 Apr, 16:00–17:00 CEST



US3 European diversity and the EGU: Who is missing?

Friday 28th April 8:30 -12:30 Location: E1



Dark zone:

30% of Europe's population
16% authors in the
Earth and Planetary sciences
12% of scientific production in
Earth and Planetary sciences
9% of EGU presenters
2% of EGU awards
1% of European editors in EGU
journals
< 1% EGU leadership (1 division president)





EGU Position Statement on the inclusion of global research in the geosciences

"EGU's vísíon ís to share, publísh, promote and collaborate on the latest geoscience research. This extends to raising awareness of potentially exploitative practices that are often referred to as 'helicopter research' or 'parachute science'.

These take place when researchers from (often higher-income or more privileged) settings perform research in resource-poor settings with limited to no involvement of local communities or researchers. Such practices may be considered 'scientific neocolonialism' as they take advantage of local infrastructures but do not contribute to the inclusion and equal acknowledgement of local researchers. They also lead to the lack of recognition of the value of local knowledge and expertise for enhancing geoscience research.

EGU strives to raise awareness of such imbalances in global research through our diverse activities such as: •organizing spotlight sessions, debates and symposium dedicated to these issues during the EGU General Assembly and other geoscience conferences.

•encouraging the inclusiveness of authors and their contributions in presentations, publications, policy reports and data products to give due and full credit for all contributions, and appropriately documenting such participation"



GDB4 Scientific Neocolonialism in geoscience research

Thursday 27th April 10:45 -12:30 Location: E1

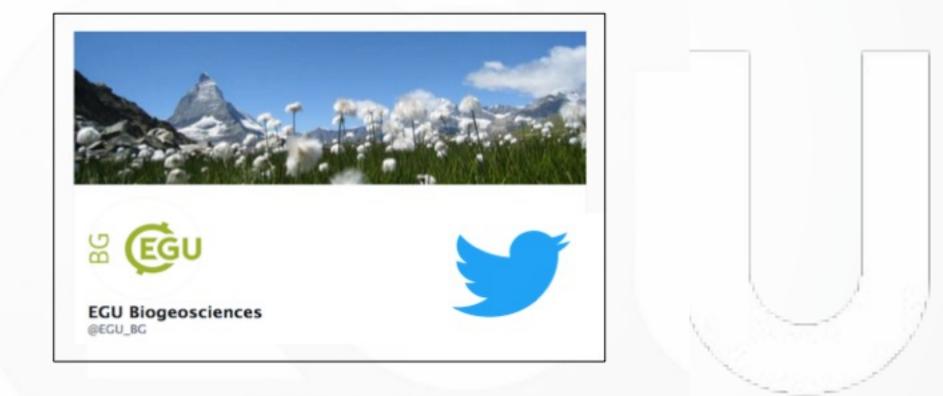






2. Biogeosciences Division Structure

Get in touch and involved











EGU Blogs » Divisions » Biogeosciences » Guest post: Pal(a)eoPERCS

Guest post: Pal(a)eoPERCS

Rehemat Bhatia (Pal(a)eoPERCS Funding Officer), Jana Burke (Pal(a)eoPERCS social media and advertising officer), Pedro Godoy (Pal(a)eoPERCS video editor), Chrissy Hall (Pal(a)eoPERCS scheduler), Natasha Sekhon (Pal(a)eoPERCS website manager) and Elizabeth Sibert (Pal(a)eoPERCS Email list manager and general "catch-all") · March 28, 2023 · Uncategorized · No Comments

ABOUT

Welcome to the European Geosciences Union (EGU) Biogeosciences (BG) Division blog. We publish blog posts from Biogoescientists on a

- » 7 posts since the last EGU from 12 authors
- » 5 by the BG team and 2 guest posts (Pal(a)eoPERCS and Amazon Flux project)
- » Approx 35 unique visitors a week, higher after a new post.
- » An international readership, our largest audience is currently the USA (37% of visitors).
- » Anyone can write for the BG blog, get in touch with Ben (<u>ben.fisher@ed.ac.uk</u>) or visit <u>https://blogs.egu.eu/divisions/bg/2021/10/29/write-for-the-bg-blog/</u>



BG President (2021-2023) (2023-2025)



Lisa Wingate

ECS Deputy (2021-2023)

Elisabet Martínez-Sancho Swiss Federal Research Institute (WSL) ECS Rep (2021-2023)



Ben Fisher University of Edinburgh ECS Rep (2022-2024)



Gerbrand Koren University of Utrecht

EGU BLOGS BG Biogeosciences



@EGU BioGeo

Networking, Short courses, and much more...

Liaison between ECSs and EGU

2. Biogeosciences Division Structure

BG President (2021-2023) (2023-2025)

European Geosciences



Lisa Wingate

<section-header>

Elisabet Martínez-Sancho Swiss Federal Research Institute (WSL) ECS Rep (2021-2023)



Ben Fisher University of Edinburgh

ECS Rep

(2022-2024)

Gerbrand Koren University of Utrecht

Elections for the next BG Division President 2026 will be held this year

Call now open for the next BG Division ECS Representatives

If you are interested in either position please send an email or speak to us this week



BG ECS Networking Event tonight!

Early Career Biogeoscientists social event - Biogeosciences Division ► Organized by Elisabet Martinez-Sancho Location: biergarten Zattl Schottengasse 2, 1010 Wien Tue, 25 Apr, 19:30–Wed, 26 Apr, 00:00 CEST 🛱 Tags: Early Career Scientist (ECS), Networking





2. Biogeosciences Division Structure



https://blogs.egu.eu/divisions/bg/2022/09/21/meet-your-bg-team-2022-23/

EGU European 2. Incoming Terrestrial Biogeosciences

Dr. Robyn Pickering (she/her)

University of Cape Town, since 2016 Senior Lecturer, Department of Geological Sciences Group leader, Quaternary Terrestrial Ecosystems group Co-Director, Human Evolution Research Institute

University of Melbourne, Australia, 2009-2015, Post doc, School of Earth Sciences

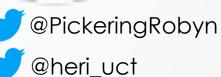
University of Bern, Switzerland, PhD, 2009

Research interests

- Terrestrial carbonates associated with early human occupation sites in southern Africa
- element Uranium series chronology, trace 0 geochemistry, carbonate petrology, diagenesis, speleothems, palaeolimnology, southern hemisphere palaeoclimates, landscape evolution
- Decolonisation, decentering whiteness and active 0 redress for African scholars



UNIVERSITY OF CAPE TOWN KAPA • UNIVERSITEIT VAN KAAPSTAD













EGU European Geosciences 2. Incoming Terrestrial Biogeosciences

Lucia S. Layritz (she/her)

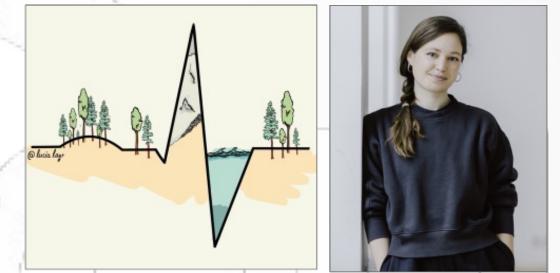
- PhD student at Technical University Munich
- Msc from King's College London (Appl. Math) & TU Berlin (Environmental Engineering)

Land Surface -

Atmosphere

Interactions

- BSc from LMU Munich
- Amateur Scientific Illustrator



Research interests

- Disturbance regimes of boreal forests
- Ecoteleconnections, especially of high latitudes
- Dynamic vegetation modeling
- Dynamical, stochastic and complex systems







Dr Carolyn Monika Gorres Hochschule Geisenheim University Dr Albin Hammerle University of Innsbruck

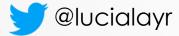


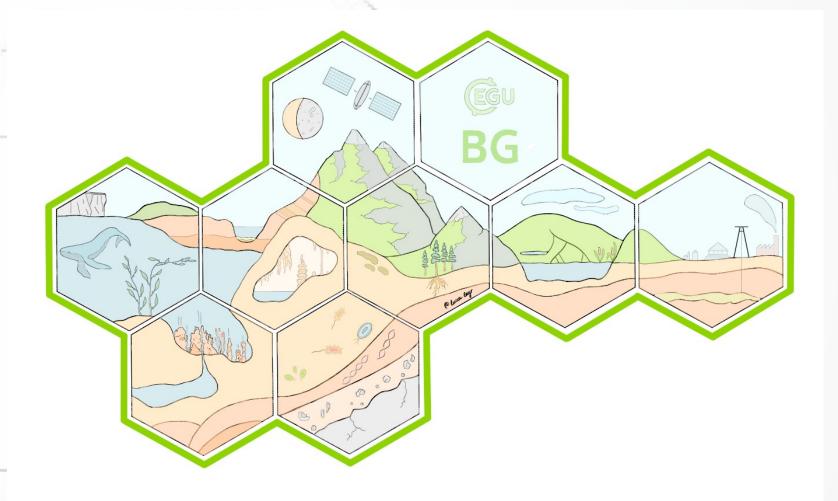


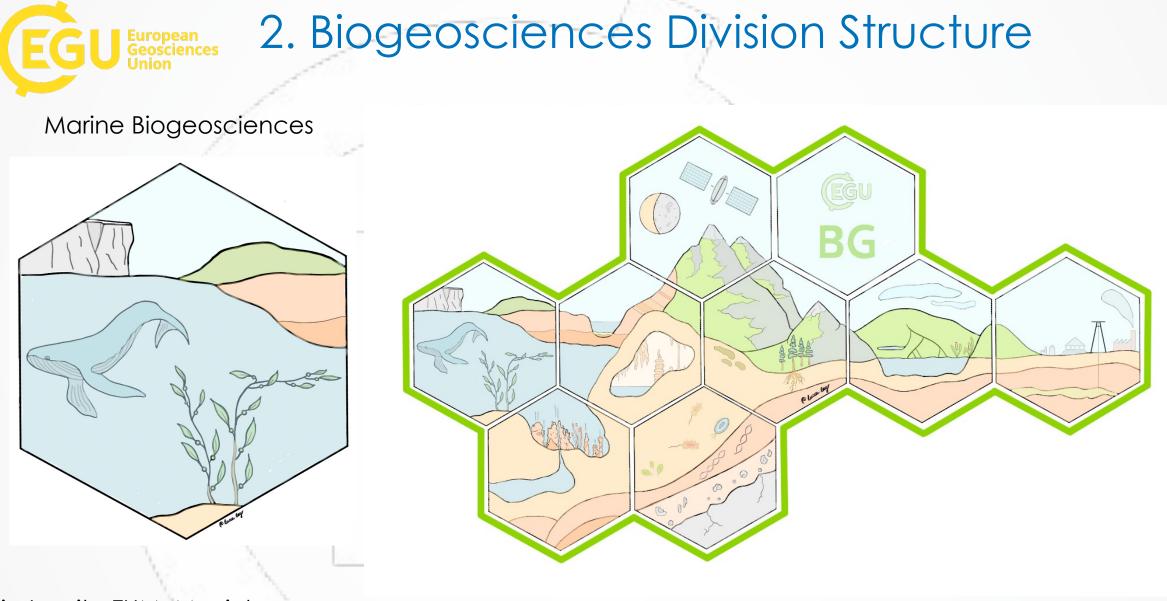
2. Biogeosciences Division Structure



Lucia Layritz, TUM, Munich

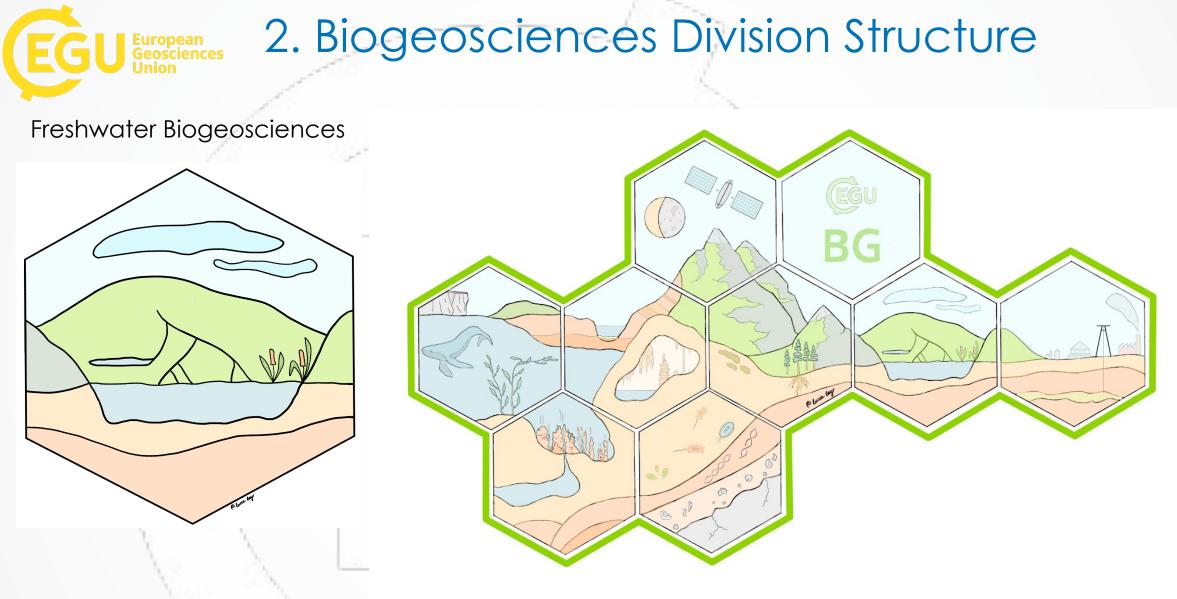






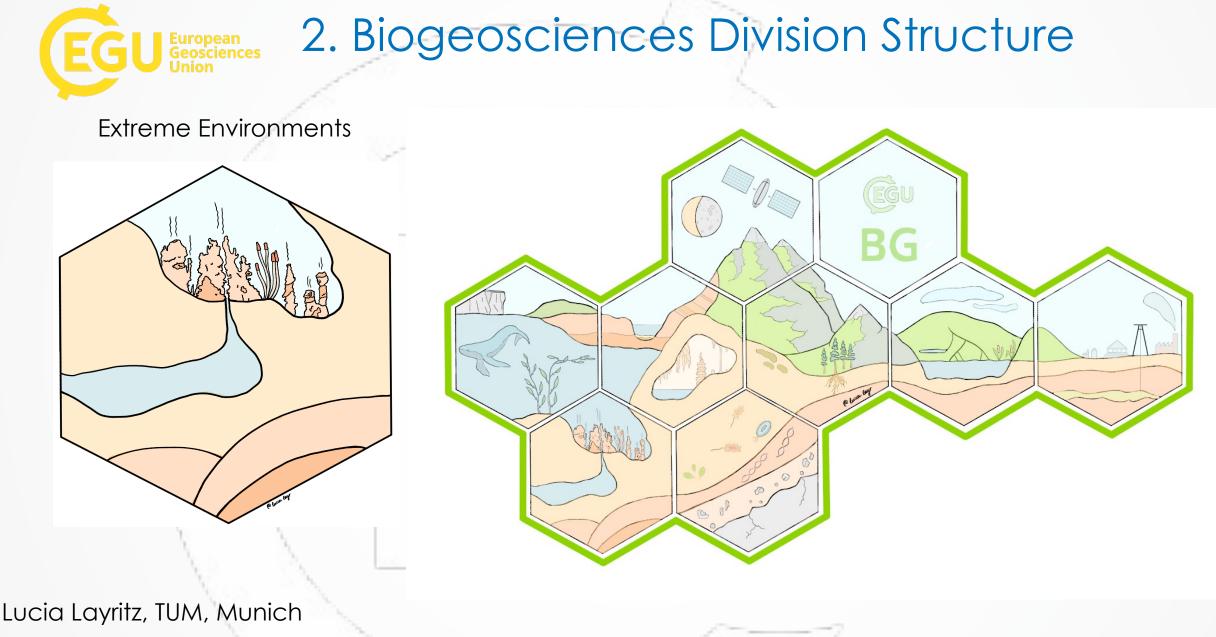
Lucia Layritz, TUM, Munich

🔰 @lucialayr

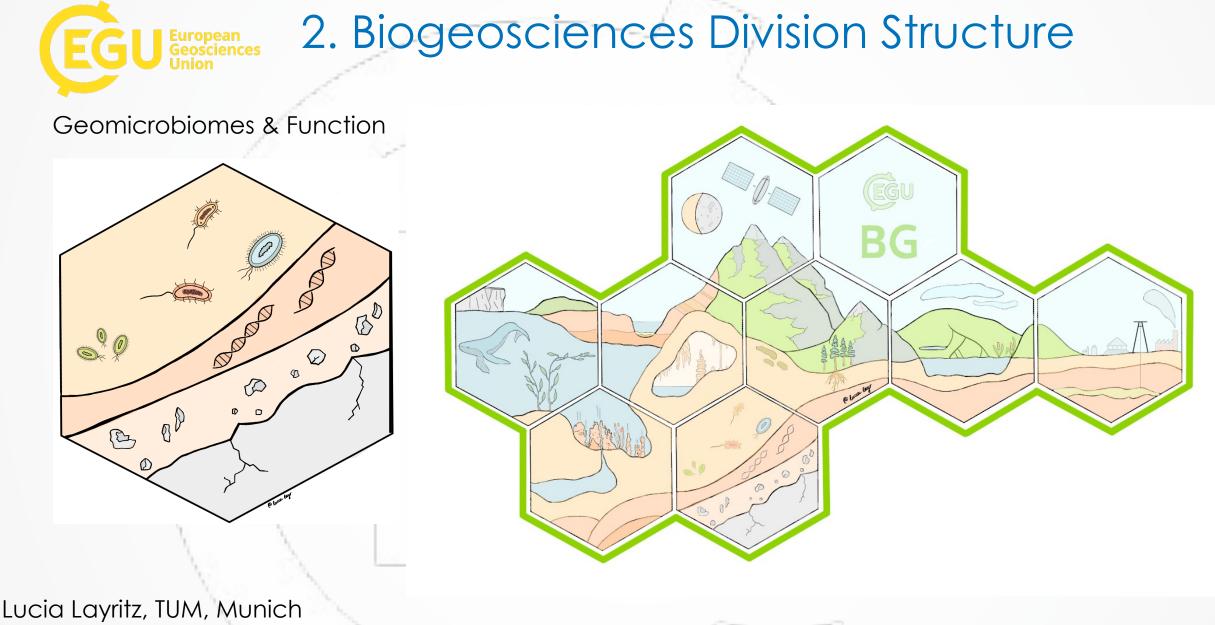


Lucia Layritz, TUM, Munich

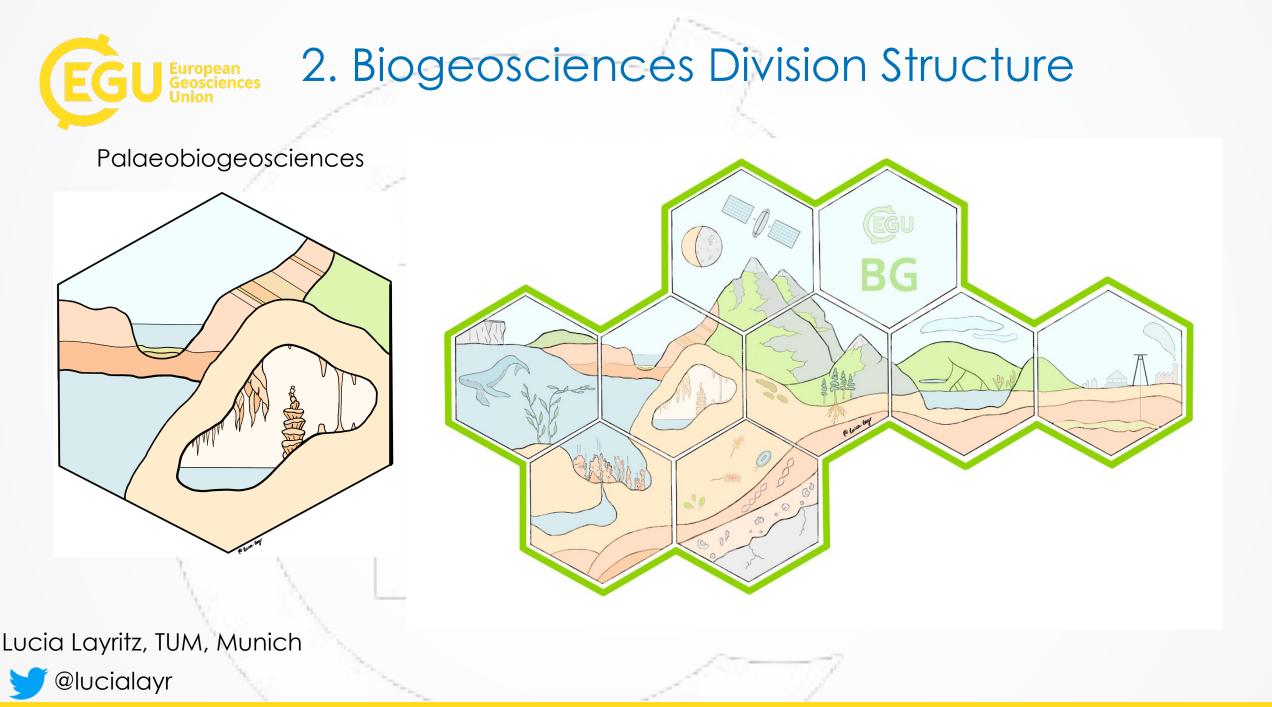
🔰 @lucialayr

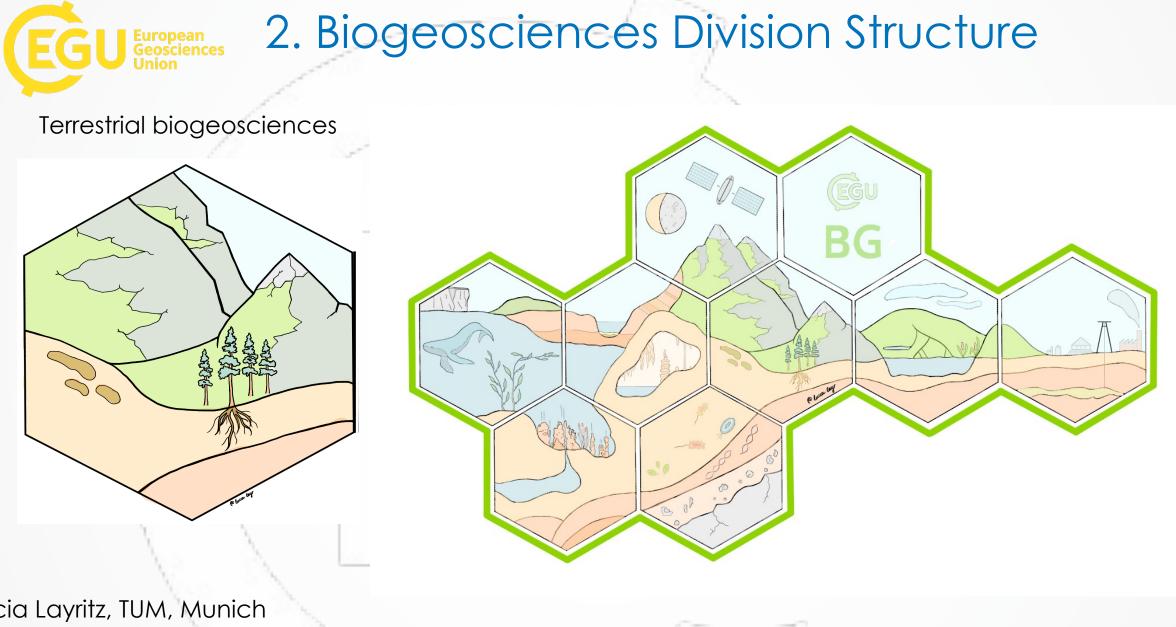


🥣 @lucialayr



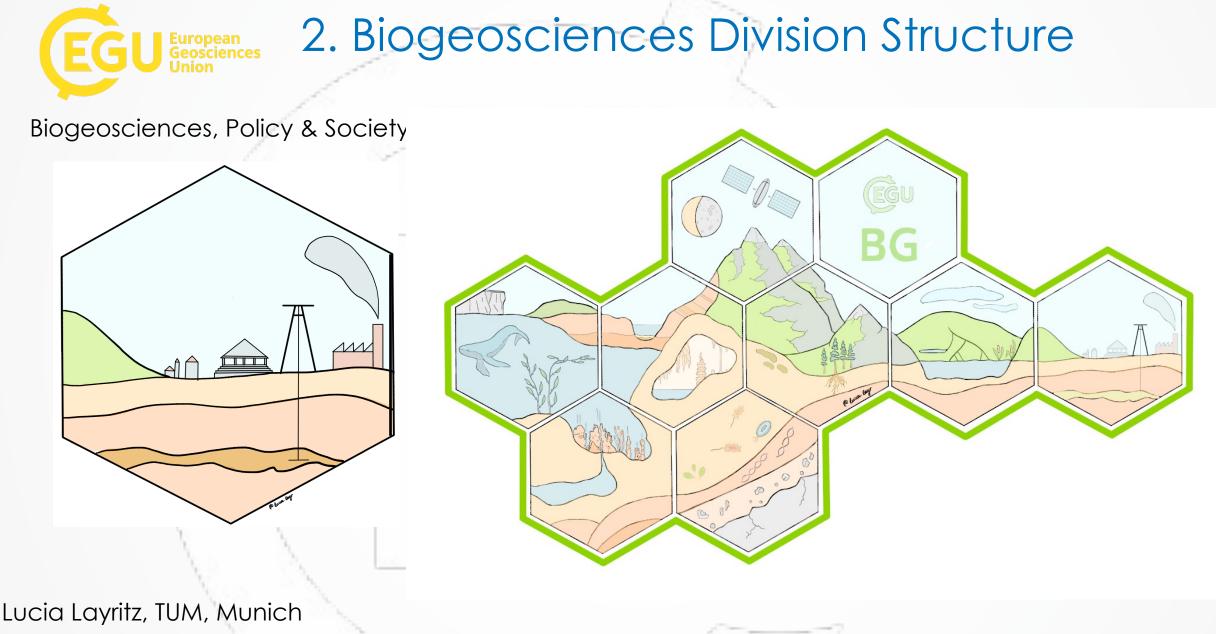
🤟 @lucialayr





Lucia Layritz, TUM, Munich

@lucialayr



🤟 @lucialayr



2. Biogeosciences Division Structure

Approval of the new BG Division Team members





3. BG Division Awards



Outstanding Early Career Scientist Awards

- Virtual Outstanding Student and PhD Candidate Presentation (vOSPP) Award
- BG Division Outstanding Early Career Scientists Award
- Arne Richter Union Award for Outstanding Early Career Scientist

BG Division Medal

Vladimir Ivanovich Vernadsky Medal





3. BG Division Awards

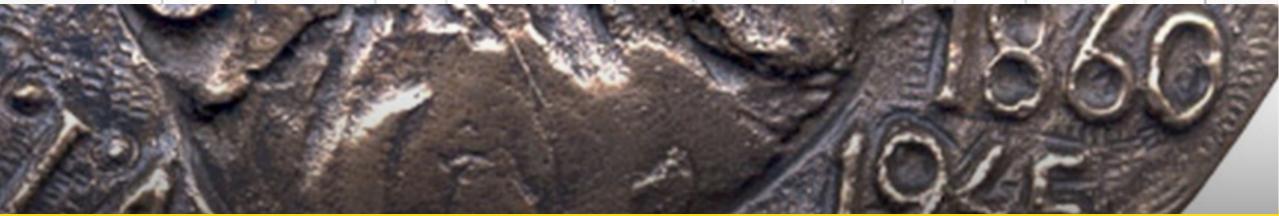


BG Medals and Awards Committee

- Prof Susan Trumbore (Vernadsky Medallist 2021) Committee Chair
- Prof Pierre Friedlingstein (Vernadsky Medallist 2020)
- Dr Adina Paytan (Vernadsky Medallist 2022)
- Prof Rich Pancost (University of Bristol, UK)
- Big thank you to Stephanie Henson for her valued committee service (2020-2022)

Nomination call now open deadline for submission 15th June 2023

https://www.egu.eu/awards





3. BG Division Awards

Outstanding Student and PhD candidate Presentation (OSPP) Awards 2022







Outstanding Student and PhD candidate Presentation (OSPP) Awards 2023

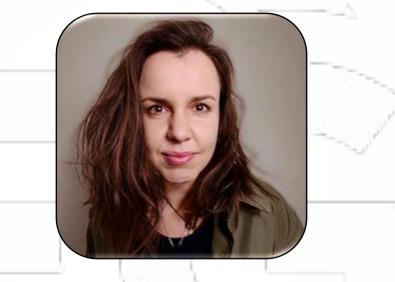
- 136 OSPP applications in 42 sessions (2022: 193 applications in 38 sessions)
- Started EGU with enough judge nominations!
- Agree/decline judge nominations as soon as possible
- Anybody can be a judge (if PhD and no conflict of interest)
- Interaction with students/PhD candidates!





Biogeosciences Division Early Career Scientist Award 2023

Hana Jurikova (University of St. Andrews, Scotland)



"...for exceptional scientific contribution to the biogeosciences, improving our understanding of the causes and consequences of historic perturbations in the marine carbon cycle"





Vladimir Ivanovich Vernadsky Medal 2023

Tom Iain Battin (EPFL, Switzerland)



".... for fundamental contributions to the biogeosciences through studies linking biology, ecology, chemistry and hydrology to the functioning of inland waters across scales"





EGU Medal and Award Celebration

Join the EGU President at the Medal & Award Celebration MAL48 Wednesday 26th April at 17:30-19:00 Room E1





New at EGU23! EGU Champions for Equality Award

https://www.egu.eu/awards-medals/edi/

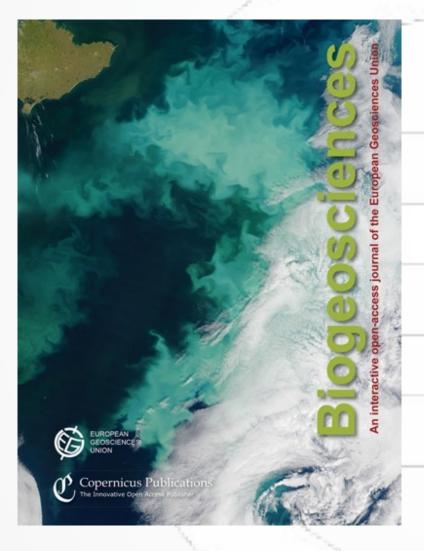


An individual or team that have put into practice the principles of Equality, Diversity and Inclusion (EDI), resulting in a positive change in the experience of the geoscience community.

The recipient(s) should be role models who have built respectful and inclusive workplaces for the geoscience community, and/or have implemented innovative actions that advance the diversity of the geoscience community.

Nomination deadline 31st August 2023





Biogeosciences (BG)

www.biogeosciences.net

Co-Editors-in-Chief:

Steven Bouillon, Anja Rammig, Tina Treude, Sara Vicca

Associate Editors: 73

Publisher: Copernicus GmbH on behalf of the European Geosciences Union (EGU)



Aims & Scope

Biogeosciences (BG) is an international scientific journal dedicated to the publication and discussion of research articles, short communications, and review papers on **all aspects of the interactions between the biological**, **chemical**, **and physical processes** in terrestrial or extraterrestrial life with the **geosphere**, **hydrosphere**, **and atmosphere**.

The objective of the journal is to cut across the boundaries of established sciences and achieve an interdisciplinary view of these interactions. **Experimental**, **conceptual**, **and modelling approaches** are welcome.





Open access & Open peer review

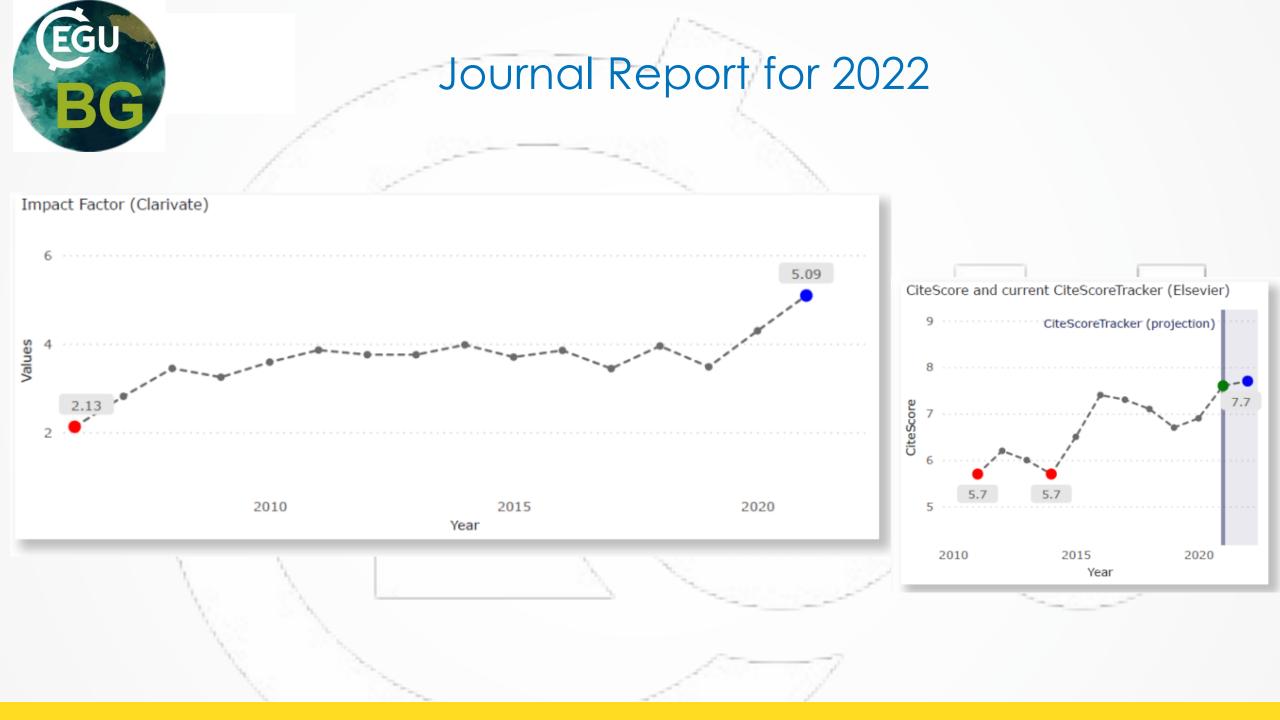
The review process, referee comments, open comments and authors answers are public, archived and citable as well.

Reviewed manuscripts and published papers are archived and fully citable - Ideas and rights of authors are fully protected from the beginning.

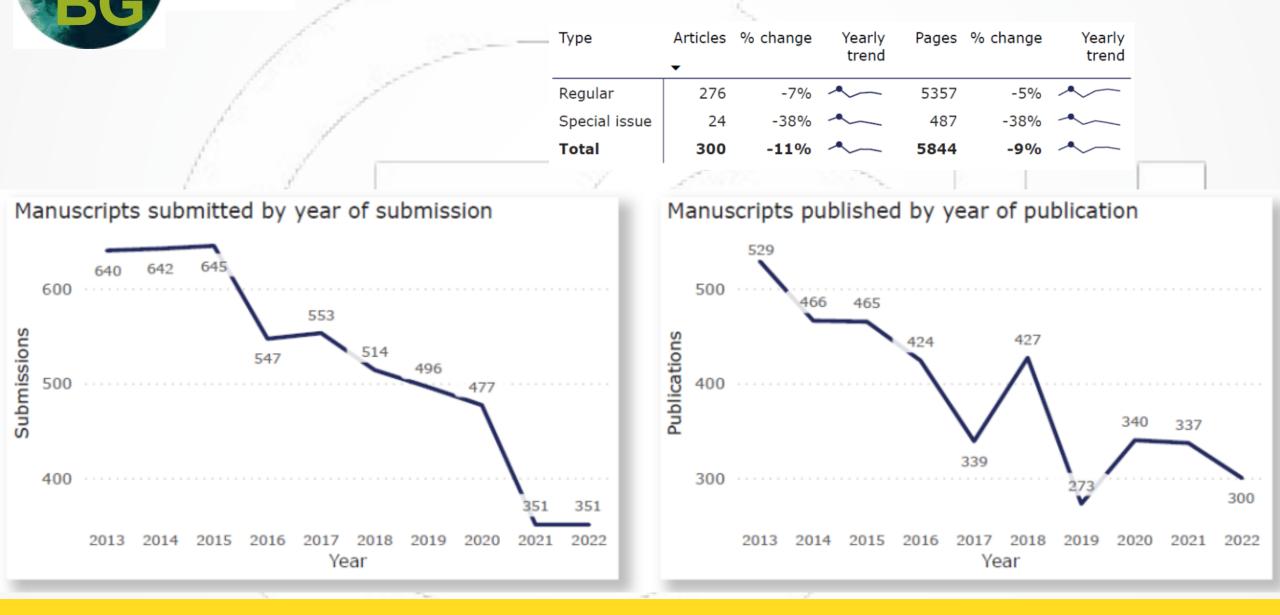
Open Access - coverage of costs by authors. There is no other income for the publisher, surplus from (moderate) Article Processing Charges funds EGU and its activities.

Copyright stays with the authors.





Journal Report for 2022





Journal Report for 2022

Manuscript submissions and review

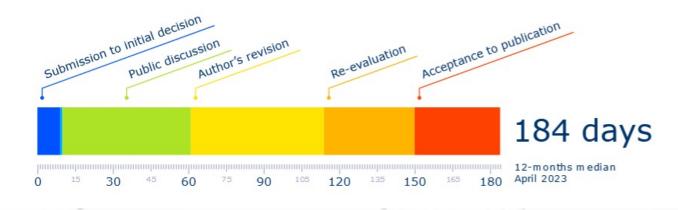
Manuscript submissions in 2022: 351

Manuscript acceptance rate in 2022:

89 % accepted for review, of which 86 % accepted for final publication

Time from submission to publication:

~6 months from submission to final acceptance





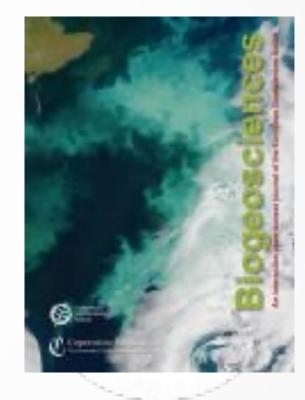
We encourage submissions to Biogeosciences

Manuscript types:

- Research articles
- BG Letters
- Reviews and syntheses
- Ideas and perspectives
- Technical notes
- Peer-reviewed comments and replies

Proposals for **Special Issues** are very welcome!

https://www.biogeosciences.net/articles_and_preprints/how_to_apply_for_an_si.html







Scheduled special issues

Land surface-atmosphere interactions – from the microbial to the global scale

11 Apr 2023–15 Sep 2023 | Ben Poulter, Garry Hayman, Semeena Valiyaveetil Shamsudheen, Elizabeth Keller, David Campbell, Sebastian Leuzinger, Anja Rammig, and Sara Vicca | Information

Tropospheric Ozone Assessment Report Phase II (TOAR-II) Community Special Issue (ACP/AMT/BG/GMD inter-journal SI) 01 Mar 2023–30 Apr 2024 | Owen R. Cooper, Martin G. Schultz, and Paul Stoy | Information

Drought, society, and ecosystems (NHESS/BG/GC/HESS inter-journal SI)

14 Feb 2023–01 Dec 2023 | Anne Van Loon, Gemma Coxon, Camila Alvarez-Garreton, Elena Toth, Shreedhar Maskey, Khalid Hassaballah, Floris van Ogtrop, Noemi Vergopolan, Sina Khatami, and Anja Rammig | Information

Environmental impacts of ocean alkalinity enhancement

01 Dec 2022–30 Nov 2023 | Tyler Cyronak, Lydia Kapsenberg, Jaime Palter, Kai G. Schulz, and Patricia Grasse | Information

Monitoring coastal wetlands and the seashore with a multi-sensor approach

05 Oct 2022–30 Sep 2023 | Sonia Silvestri, Beatrice Maria Sole Giambastiani, Manudeo Singh, and Jack Middelburg | Information





2023

- Land surface-atmosphere interactions from the microbial to the global scale 11 Apr 2023–15 Sep 2023 | Ben Poulter, Garry Hayman, Semeena Valiyaveetil Shamsudheen, Elizabeth Keller, David Campbell, Sebastian Leuzinger, Anja Rammig, and Sara Vicca | Information
- Tropospheric Ozone Assessment Report Phase II (TOAR-II) Community Special Issue (ACP/AMT/BG/GMD inter-journal SI) 01 Mar 2023–30 Apr 2024 | Owen R. Cooper, Martin G. Schultz, and Paul Stoy | Information

Drought, society, and ecosystems (NHESS/BG/GC/HESS inter-journal SI)

14 Feb 2023–01 Dec 2023 | Anne Van Loon, Gemma Coxon, Camila Alvarez-Garreton, Elena Toth, Shreedhar Maskey, Khalid Hassaballah, Floris van Ogtrop, Noemi Vergopolan, Sina Khatami, and Anja Rammig | Information

2022

- Environmental impacts of ocean alkalinity enhancement
 01 Dec 2022–30 Nov 2023 | Tyler Cyronak, Lydia Kapsenberg, Jaime Palter, Kai G. Schulz, and Patricia Grasse | Information
- Monitoring coastal wetlands and the seashore with a multi-sensor approach 05 Oct 2022–30 Sep 2023 | Sonia Silvestri, Beatrice Maria Sole Giambastiani, Manudeo Singh, and Jack Middelburg | Information
- Earth surface shaping by biota (ESurf/BG/ESD/ESSD/SOIL inter-journal SI)
 01 Sep 2022–01 Sep 2023 | Frank Hagedorn, Todd A. Ehlers, Friedhelm von Blanckenburg, and Sara Vicca | Information
- **b** Low-oxygen environments and deoxygenation in open and coastal marine waters

01 Sep 2022–31 Aug 2023 | Marilaure Grégoire, Sean A. Crowe, Véronique Garçon, Lisa Levin, Andreas Oschlies, Michael Roman, Caroline P. Slomp, and Kenneth Rose | Information





Some highlight articles from 2022



BG Letter

Soil carbon loss in warmed subarctic grasslands is rapid and restricted to topsoil

Niel Verbrigghe, Niki I. W. Leblans, Bjarni D. Sigurdsson, Sara Vicca, Chao Fang, Lucia Fuchslueger, Jennifer L. Soong, James T. Weedon, Christopher Poeplau, Cristina Ariza-Carricondo, Michael Bahn, Bertrand Guenet, Per Gundersen, Gunnhildur E. Gunnarsdóttir, Thomas Kätterer, Zhanfeng Liu, Marja Maljanen, Sara Marañón-Jiménez, Kathiravan Meeran, Edda S. Oddsdóttir, Ivika Ostonen, Josep Peñuelas, Andreas Richter, Jordi Sardans, Páll Sigurðsson, Margaret S. Torn, Peter M. Van Bodegom, Erik Verbruggen, Tom W. N. Walker, Håkan Wallander, and Ivan A. Janssens

Observation-constrained estimates of the global ocean carbon sink from Earth system models Jens Terhaar, Thomas L. Frölicher, and Fortunat Joos

Representativeness assessment of the pan-Arctic eddy covariance site network and optimized future enhancements

Martijn M. T. A. Pallandt, Jitendra Kumar, Marguerite Mauritz, Edward A. G. Schuur, Anna-Maria Virkkala, Gerardo Celis, Forrest M. Hoffman, and Mathias Göckede

The onset of the spring phytoplankton bloom in the coastal North Sea supports the Disturbance Recovery Hypothesis Ricardo González-Gil, Neil S. Banas, Eileen Bresnan, and Michael R. Heath

Highest methane concentrations in an Arctic river linked to local terrestrial inputs

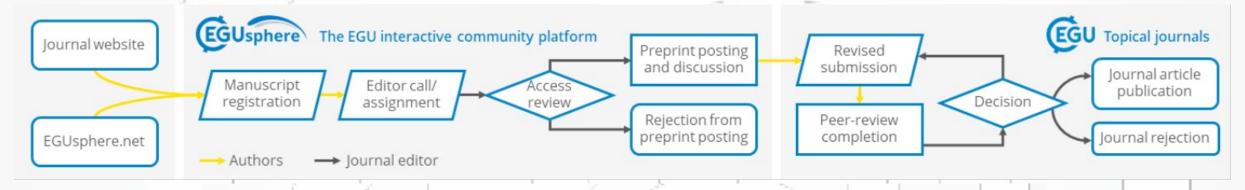
Karel Castro-Morales, Anna Canning, Sophie Arzberger, Will A. Overholt, Kirsten Küsel, Olaf Kolle, Mathias Göckede, Nikita Zimov, and Arne Körtzinger

https://www.biogeosciences.net/articles_and_preprints/highlight_articles.html





EGUsphere The preprint repository of the EGU



EGUsphere preprints	Journal (discussion) preprints
Accessible from EGUsphere and the discussion page of the journal	Only accessible on the journal website
doi: 10.5194/egusphere-year-number	doi: 10.5194/acp-year-number
In case of rejection: No trace of preprint on the journal page, only on EGUsphere	In case of rejection: journal discussion paper remains archived on journal page

https://www.egusphere.net/preprints/preprint_options_on_egusphere.html









Ben Bond-Lamberty (Pacific Northwest National Laboratory)

Previous Outstanding Editor Awards to

Carolin Loescher in 2021 Alexey V. Eliseev in 2020 Akihiko Ito in 2019 Tina Treude in 2018 Sönke Zähle in 2017 Jürgen Kesselmeier and Yakov Kuzyakov in 2016 Jack Middelburg and Paul Stoy in 2015 Gerhard Herndl in 2014





Outstanding Reviewer Awards 2022

Jim Christian (Canadian Centre for Climate Modelling and Analysis)

Mingkai Jiang (Zhejiang University)

Outstanding Reviewer Awards 2021

Thomas Browing, Silvia Caldararu, Damien Maher, Ralf Schiebel

Outstanding Reviewer Awards 2020

Olivia Clifton and Euan Nisbet



Thank You





5. Any Other Business?