

Biogeosciences (BG) Division meeting

Lisa Wingate

#EGU22 General Assembly

25th May 2022



Meetings | Publications | Outreach | www.egu.eu

Agenda

1. EGU22
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

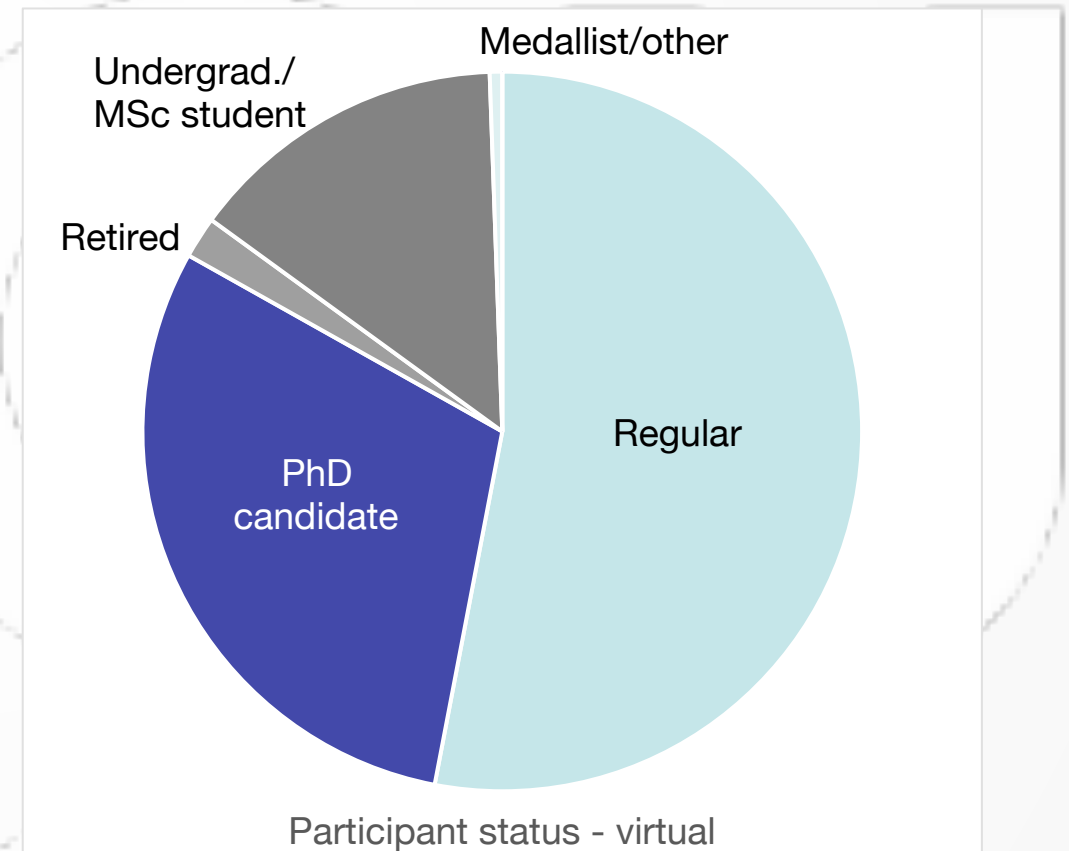
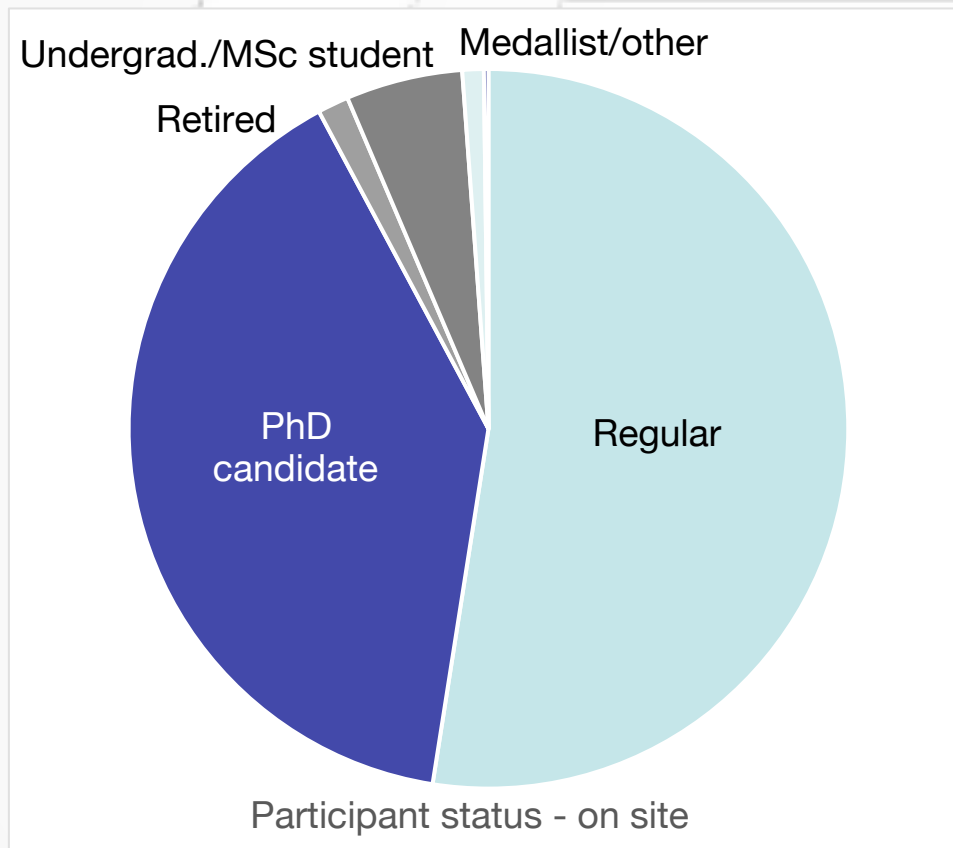
1. EGU22 Data

- 12,423 active abstracts in programme | -9% relative to 2021
- 777 active sessions | 614 short-oral sessions | 54 Short Courses | 35 Medal and Award Lectures
- 65 Networking and Community Events (excluding pop-ups), Townhall Meetings, Side Events, Splinter Meetings
- Medal & Award celebration 25 May 17:30 CEST (Room E1)

1. EGU22 Data

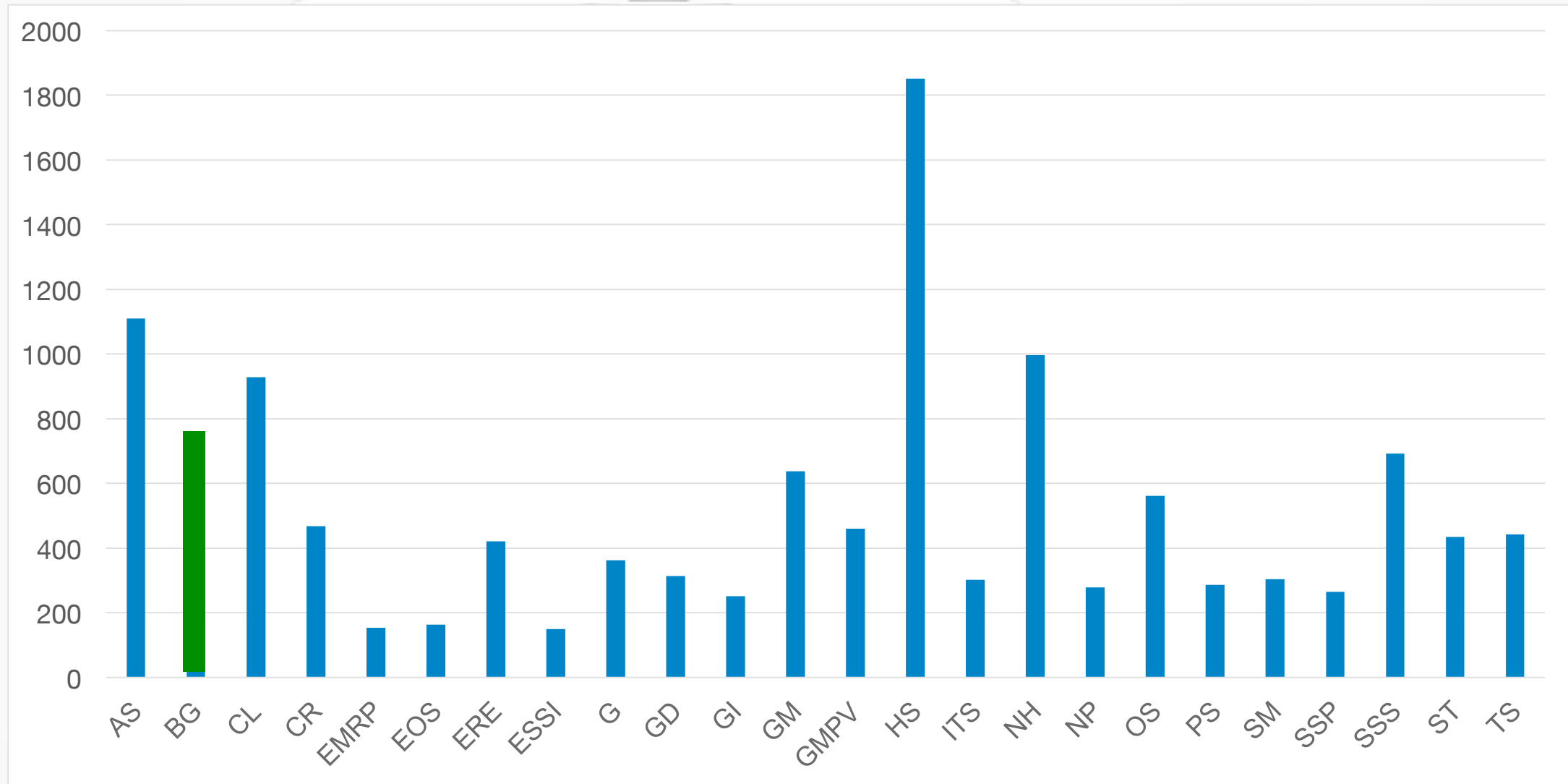
Registration numbers and breakdown

- 7307 on-site registrations
- On-site participants: 88 countries
- 5904 virtual registrations (22/05 15:00)
- Virtual participants: 113 countries



1. EGU22 Data

Abstracts per Programme Group



BG Abstract Statistics 2022

Lead sessions:

Number of abstracts 738 (~6% of the program) 70% ECS

Number of sessions 37

Co-org. sessions:

Number of abstracts 1,011

Number of sessions 59

Total Number of BG abstracts 1,749

Total Number of BG sessions 96

Very impressive
All thanks to you!

Early-Career Scientist Events at EGU22

- 42 Short courses
 - 30 Short courses ECS as lead-convener
- 3 Networking and pop-up events led by and aimed at ECS
- 32 Great Debates led by ECS
- Jobs and Career Center initiatives
 - Blogs
 - Short courses
 - Networking events
 - Pop-up events
- Outreach
 - Introducing ECS Reps via EGU Blog
 - Blogs and Social Media blurbs about ECS-events

Equality, Diversity & Inclusivity Committee

<https://www.egu.eu/structure/committees-and-working-groups/edi/>

Co-Chair

Daniel Conley



Co-Chair

Lisa Wingate



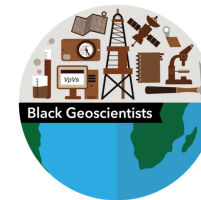
edi@egu.eu



native
scientist



Geoscience is for everyone



To suggest a logo to add to this slide, please email: communications@egu.eu

NET1 Film Screening Event

Thursday 26th May 13:20 -14:40

Location: E1

Or virtual screening all week.

<https://theleadershipfilm.org>

THE LEADERSHIP

A FILM BY ILI BARÉ



US1 Changing the Faces of Leadership within the Geosciences and beyond

Thursday 26th May 15:10 -16:40
Location: E1



EGU Pride Events @EGU22

Hybrid Networking Event

Thursday 26th May 18:00 -19:00

Location: Networking Room Red Level



DTRH in residence @EGU22 to draw your stories

Monday 23rd May 17:00-18:00
Wednesday 25th May 13:30-17:30
Thursday 26th May 10:30 -12:00
Thursday 26th May 17:00 -18:00
Friday 27th May 11:30 -16:00

Location: EDI Booth



DID THIS REALLY HAPPEN ?!

Women+ Geospatial in residence @EGU22

Friday 27th May

10:00 – 12:00

Location: EDI Booth



Forging a geospatial
community where all
genders
can thrive



Inspire.



Unite.



Empower.

www.womeningeospatial.org

1. Information on EGU Mary Anning Conference

Scope: Biogeochemical Processes in the Earth System
When: to be held every two years

Aim: to promote novel and innovative research related to biogeochemical cycles in the Earth system and bring together experienced and early career scientists for an interdisciplinary discussion.



2. Biogeosciences Division Structure

Get in touch and involved



bg@egu.eu

2. Biogeosciences Division Structure

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



Lisa Wingate
INRAE

**ECS Rep
(2021-2023)**



Elisabet Martínez-Sancho
*Swiss Federal Research Institute
(WSL)*

**Deputy
(2021-2023)**



Ben Fisher
University of Edinburgh

**ECS Rep
(2022-2024)**



Gerbrand Koren
University of Utrecht



**Networking,
Short courses,
and much more...**

**Liaison between ECSs
and EGU**

2. Biogeosciences ECS Representatives

Ben Fisher (he/him)

PhD Student- University of Edinburgh (2020-24)

Previously at the University of Leeds

Polar Marine Biogeochemist

Research interests

- Marine organic carbon cycling from surface to sediment.
- The response of biogeochemical cycles to climate change, particularly at the ice-ocean interface.
- Seasonal influences on phytoplankton community composition.



ECS Rep Plans

- Hoping to increase the amount of blog content, more guest contributors and greater variety.
- An increased social media presence, producing more visual content.
- We want to become a year round support for ECS
- We need to know what you want! Online events, short courses etc.

2: Biogeosciences ECS Representatives

Dr. Elisabet Martínez-Sancho (she/her)

Since 2019 - Postdoctoral researcher

Swiss Federal Research Institute for Forest, Snow and Landscape Research WSL



Research interests

- Short- and long-term plant responses to environmental changes
- Vegetation feedbacks to global carbon and water cycles
- Stable isotope ratios along the soil-plant-atmosphere continuum



Stay Tuned for Upcoming Events!!



@eli_martinezs

@EGU_BG



2: Biogeosciences ECS Representatives

Dr Gerbrand Koren

Assistant professor: Utrecht University (since 2021)

Previously at Wageningen University

Carbon cycle scientist

Research interests

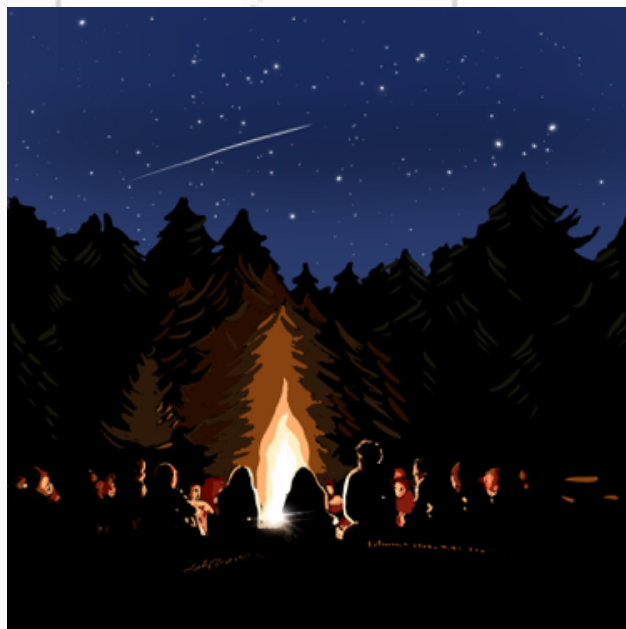
- Exchange of water and carbon between the atmosphere and biosphere
- Impacts of extreme events (e.g., droughts, heat waves) on ecosystems
- Using isotopes, satellites and models to quantify photosynthesis



BG Campfire Events

First BG campfire!

Together with SSS
13th May 2021
>30 participants



The clash of proxies

Together with CL
20th January 2022
>50 participants

A poster for the 1st Joint Campfire event. It features the EGU logo at the top, followed by the text "1st JOINT CAMPFIRE CLIMATE & BIOGEOSCIENCES DIVISION". Below this, it lists the event details: "WHAT: The clash of proxies", "WHEN: 20th January 2021, 3pm CET", "HOW: tinyurl.com/CLBGcampfire", and "WHO: Dr. Antonio García-Alix (University of Granada), Dr. Ola Kwiecien (Northumbria University), Dr. Nguyen Tan Thai Hung (Columbia University), Dr. Tamara Trofimova (Berkeley Centre for Climate Research)". The background is dark with a stylized tree and stars.

EGU
1st JOINT
CAMPFIRE
CLIMATE &
BIOGEOSCIENCES
DIVISION

WHAT: The clash of proxies
WHEN: 20th January 2021, 3pm CET
HOW: tinyurl.com/CLBGcampfire
WHO: Dr. Antonio García-Alix (University of Granada)
Dr. Ola Kwiecien (Northumbria University)
Dr. Nguyen Tan Thai Hung (Columbia University)
Dr. Tamara Trofimova (Berkeley Centre for Climate Research)

BG events not to miss

Short course

SC3.13

[Open science beyond open-access publications: how can we share our code and data?▶](#)

Convener: Elisabet Martinez-Sancho 🔍 | Co-convener: Layla Márquez San Emeterio ^{ECS} 🔍

★ Thu, 26 May, 13:20–14:50 (CEST) ■ Room -2.85/86

Networking

[Early Career Biogeoscientists social event - Biogeosciences Division▶](#)

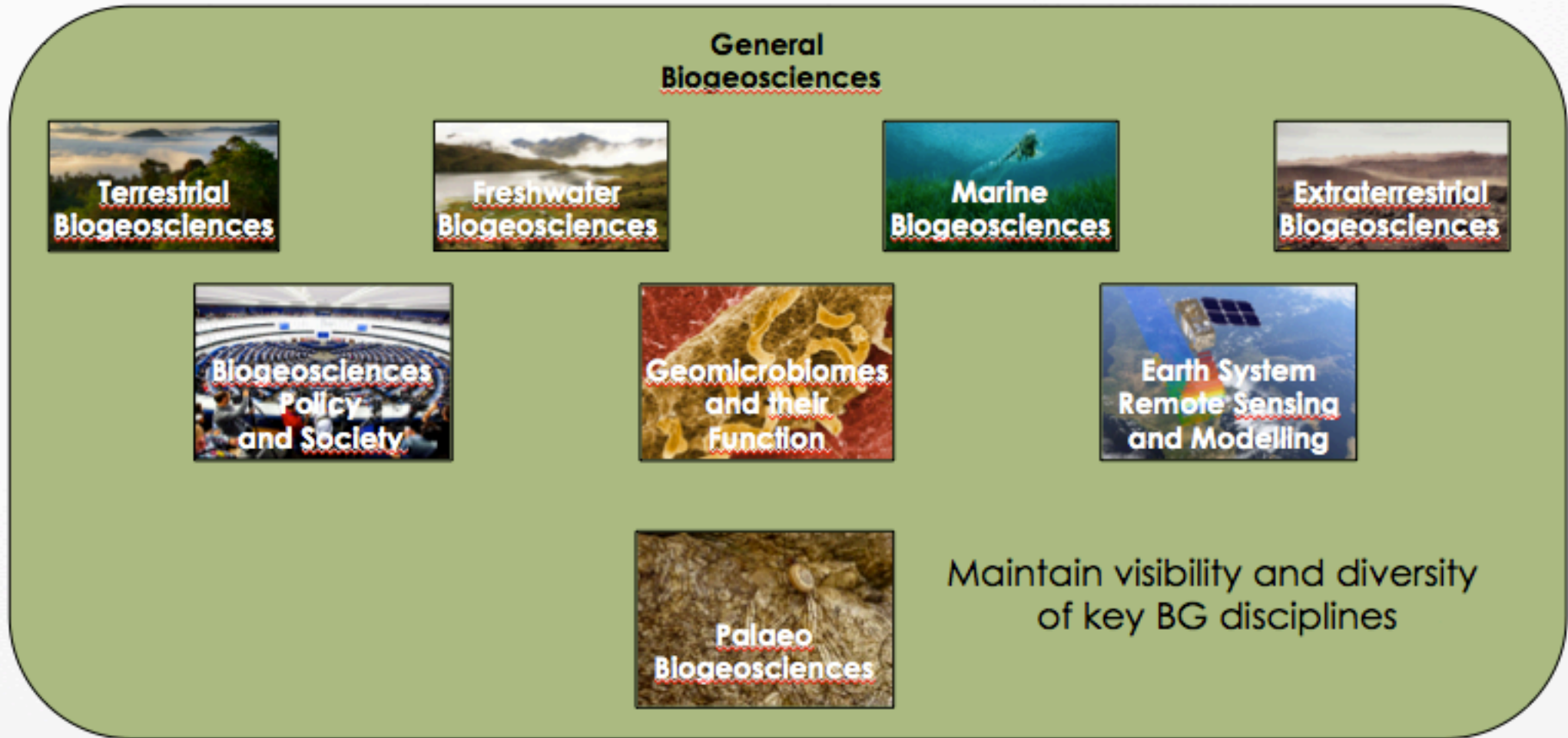
Organized by Elisabet Martinez-Sancho

Location: Zattl, Schottengasse 2, 1010 Vienna

Wed, 25 May, 19:00–21:30 CEST 📅

Tags: Social, Division event, Early Career Scientist (ECS), Networking

2. Biogeosciences Division Structure



2. Incoming Terrestrial Biogeosciences

Steffen Seitz

Assistant Professor

Soil Science and Geomorphology
University of Tübingen



Currently JSPS Research Fellow at FFPRI Forestry Institute
Department of Soil and Water Conservation, Japan



Research interests - "***Vegetation and Soil Erosion***"

» Biogeomorphology and ecohydrology:

Bioprotective effects of plant traits on soil degradation in forestry and agriculture

» Ecosystem Functioning:

Reciprocal effects between biodiversity and sediment translocation

» Methodology in erosion research:

Advancement in field measurements using laser, disdrometer and tracing techniques



@seitz_steffen

2. Incoming Palaeobiogeosciences

Scientific Officer Palaeobiogeosciences

Eric Capo (he/him)

- Aquatic microbial ecologist specialized in (paleo)molecular ecology
- Postdoctoral researcher at ICM-CSIC (Barcelona, Spain)
- Guest Researcher at SLU (Uppsala, Sweden)
- Coordinator of the sedaDNA scientific society



Research interests

- Long-term dynamics of aquatic microbial communities
- Effects of deoxygenation of coastal systems on microbial processes and related ecosystem services
- Microbial transformation of Hg in aquatic environments



@ericcapo12



2. Incoming Marine Biogeosciences

Dr. Sinikka Lennartz (she/her)

Assistant professor for Biogeochemical Ocean Modelling
Institute for Chemistry and Biology of the Marine
Environment (ICBM)
University of Oldenburg, Germany

Research interests Marine Biogeochemistry



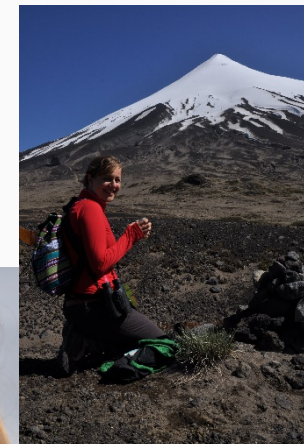
Marine dissolved organic matter and its microbial consumers



Interactions in diverse marine microbial communities
(and how to model them)



Marine emissions of climate relevant trace gases,
especially OCS and CS_2



2. Incoming Marine Biogeosciences

Dr Marie Arnaud (she/her)

Post-doctoral researcher at Ifremer, France (2020-22)

Associated researcher at the University of Birmingham, UK (2021-2025)

Post-doctoral researcher at the University of Birmingham, UK (2019-21)

PhD researcher at the University of Leeds, UK (2019-2020)

Research interests

- Coastal wetland and forest biogeochemistry and ecology
- Soil organic matter dynamics under global changes (stabilisation, priming, fluxes)
- Root traits and dynamics under global changes
- CO₂ fluxes using Eddy-covariance systems



Don't hesitate to contact me !



@M_ecohydro

m.arnaudd@gmail.com

2. Incoming Earth Modelling & Remote Sensing

Silvia Caldararu (she/her)

- Assistant professor of climate science Trinity College Dublin (June 2022 - onwards)
- Postdoctoral researcher MPI for Biogeochemistry (2015-2022)
- Postdoctoral researcher Microsoft Research Cambridge (2013 - 2015)
- PhD University of Edinburgh (2012)



Research interests

- Vegetation modelling, particularly fond of the QUINCY model
- Plant optimality and plasticity
- Ecosystem nutrient limitation



2. Incoming Freshwater Biogeosciences

Dr Magdalena Bieroza (she/her)

Senior Lecturer in Water Quality SLU Sweden

Marie Curie Research Fellow (2016-2017)

Previously Lancaster University (2011-2015)



Research interests

- Aquatic biogeochemical cycles and their interlinkages (N, P and C).
- High-frequency solute and sediment behaviour in temperate streams.
- Human-impacted catchments.

Rep Plans

- To share information about events on freshwater biogeosciences.
- To support ECS across Europe in networking and exchanging ideas.
- To provide contact for anyone interested in freshwater biogeosciences!

2. Incoming Terrestrial Biogeosciences

Bikem Ekberzade

PhD Student 2019-2024 – Istanbul Technical University, Eurasia Institute for Earth Sciences Climate and Marine Program

Radio Producer
Previously photojournalist/conflict reporter
BSc & MSc Boston University
EGU Biodiversity Task Force

Research interests

- Responses of ecosystems (both terrestrial and marine) to disturbances, come back, succession and changes in patterns and trends,
- Migration of Taxa, causes, results
- Issues related to changes in biodiversity/resilience
- Changes in frequency and severity of climate related disturbances with direct effect on ecosystems, geohazards (i.e. wildfires, landslides)
- Paleo distributions of woody taxa, modelling past vegetation distributions using proxy data



@Bikem71



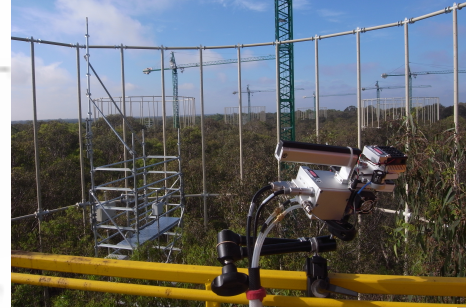
2. Incoming Terrestrial Biogeosciences

Dr. Teresa E. Gimeno (she/her)

Since 2022 – Senior researcher at CREAM (Centre for applied and ecological forest research), Barcelona & BC3 (Basque Centre for Climate Change), Spain

Research interests

- Plant ecology and ecophysiology
- Impacts of elevated CO₂ on plant and ecosystem functioning
- Using climate and global change manipulation experiments to inform terrestrial biosphere models



2. Incoming Geomicrobiomes & Function

About me

I study ecosystems—mostly peatlands—at different scales of resolution, from molecule to landscape, to understand the relationships between biodiversity, functions and climate change.



Experience

2017- Researcher at CNRS, LEFE, University of Toulouse, France

2012-2016 – Post-doc at ECOS laboratory, EPFL/WSL Lausanne, Switzerland

2011-2012- Post-doc at LSB, University of Neuchâtel, Switzerland



Education

2022 | Habilitation to lead research, University of Toulouse, France

2008-2011 | Ph.D in Life and environmental sciences, University of Franche Comté, France

Contact

Vincent Jassey

vincent.jassey@univ-tlse3.fr

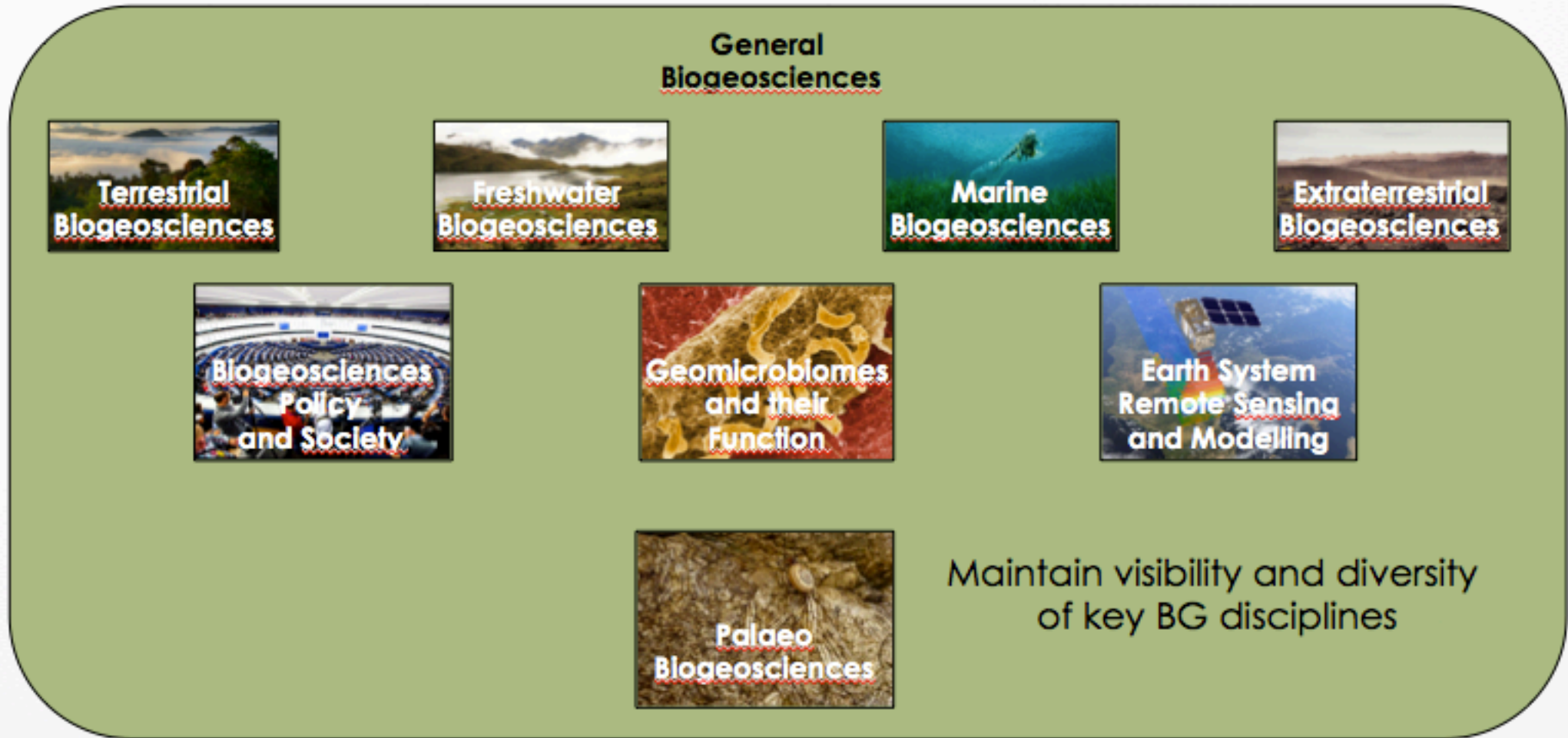


@vejjassey

2. Biogeosciences Division Structure

Approval of the new BG Division Team members

2. Biogeosciences Division Structure



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

<https://www.egu.eu/awards>



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)
- Prof Stephanie Henson (Arne Richter 2012)
- Dr Adina Paytan (Vernadsky Medallist 2022)
- Big thank you to Gerd Gleixner for Chairing the committee for the last 4 years

Nomination call now open deadline for submission 15th June 2022

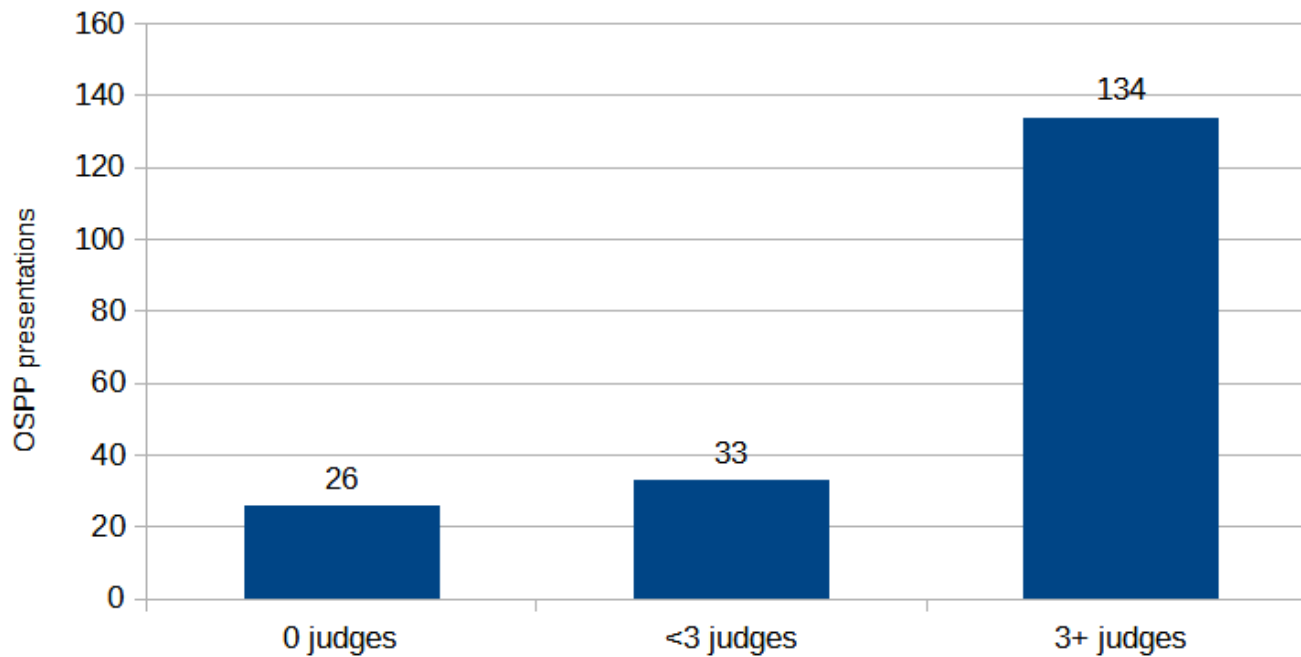
<https://www.egu.eu/awards>



3. BG Division Awards

Outstanding Student and PhD candidate Presentation (OSPP) Award contest

24.05.2022, 14:00 CET



Participants: 193 Sessions: 38

Help needed!

BG3.8 – Wed, 13:20

BG3.1 – Thu, 08:30

BG3.16 – Thu, 08:30

BG3.27 – Thu, 13:20

ITS5.1/BG8.5 – Fri 15:10

Second BG OSPP coordinator

3. BG Division Awards

Virtual Outstanding Student and PhD candidate Presentation (vOSPP) Awards



Elizabeth Flint

BG



Nick Van Horebeek

BG



Tobias Scholz

BG

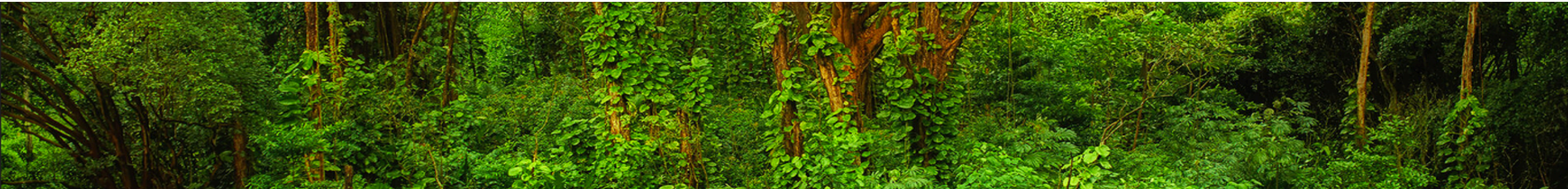
Presentations available at: www.egu.eu/awards-medals/ospp-award/2021/

Biogeosciences Division Early Career Scientist Award 2022

Ana Bastos (Max Planck Institute for Biogeochemistry)



“...for exceptional scientific contributions to the terrestrial biogeosciences, improving understanding of how extreme climate events and land use change affect carbon uptake in terrestrial ecosystems”

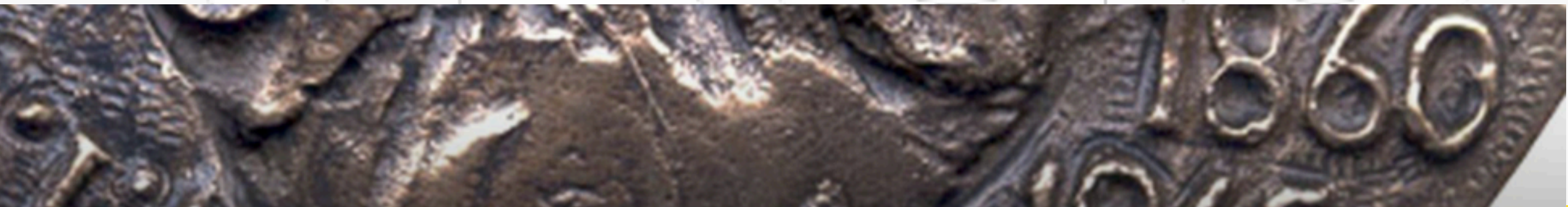


Vladimir Ivanovich Vernadsky Medal 2022

Adina Paytan (University of California, Santa Cruz)



“...for her outstanding scientific contributions and leadership in her pursuit to quantify the turnover of carbon in terrestrial ecosystems using radiocarbon.”



EGU Medal and Award Celebration

Join the EGU President at the Medal & Award Celebration
ECE1 Wednesday 25th May at 17:30-19:00 Room E1

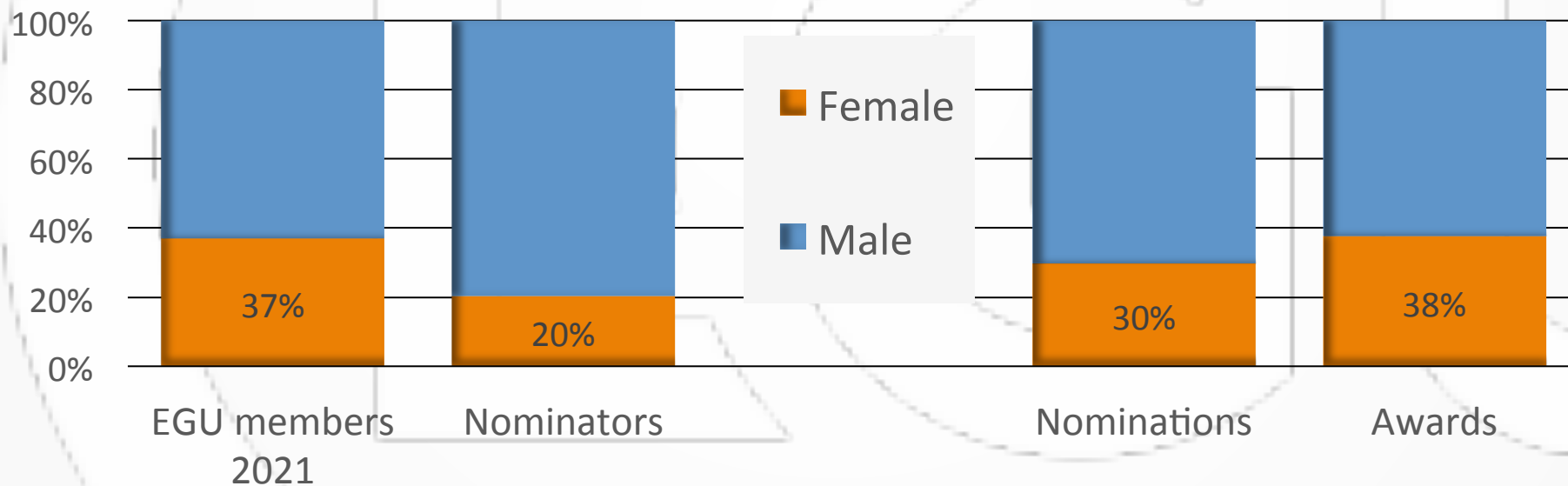




EGU awards & medals

- **All** members are strongly encouraged to contribute to the awards program by nominating suitable candidates.
- When nominating please think about people who may have been overlooked in your discipline.
- If you do not nominate nobody will.

Members, Nominators, Nominees, and Awardees



Nominators 2017-2022
Nominations and Awards 2018-2022



EGU awards & medals

How to nominate

Where: <https://www.egu.eu/awards-medals/nominations/>

When: Deadline is **June 15 every year**

What is required:

	Division and Union medals	Outstanding Early Career Scientists Awards
Nomination letter	1 page	½ page
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 (maximum 1 page each)	-

4. BG Publications



Biogeosciences (BG)

www.biogeosciences.net

Co-Editors-in-Chief:

Michael Bahn, Steven Bouillon, Anja Rammig,
Tina Treude, Sara Vicca

Associate Editors: 69

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

4. BG Publications

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.



4. BG Publications

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.**

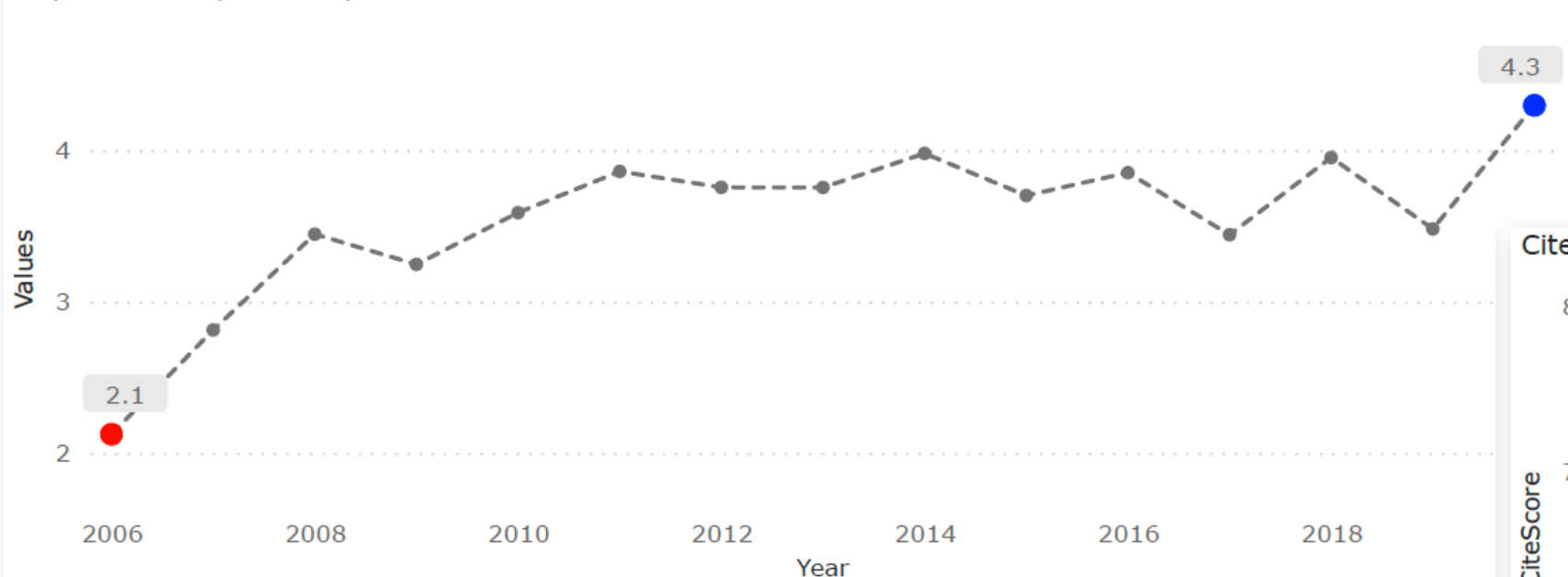
Copyright stays with the authors.



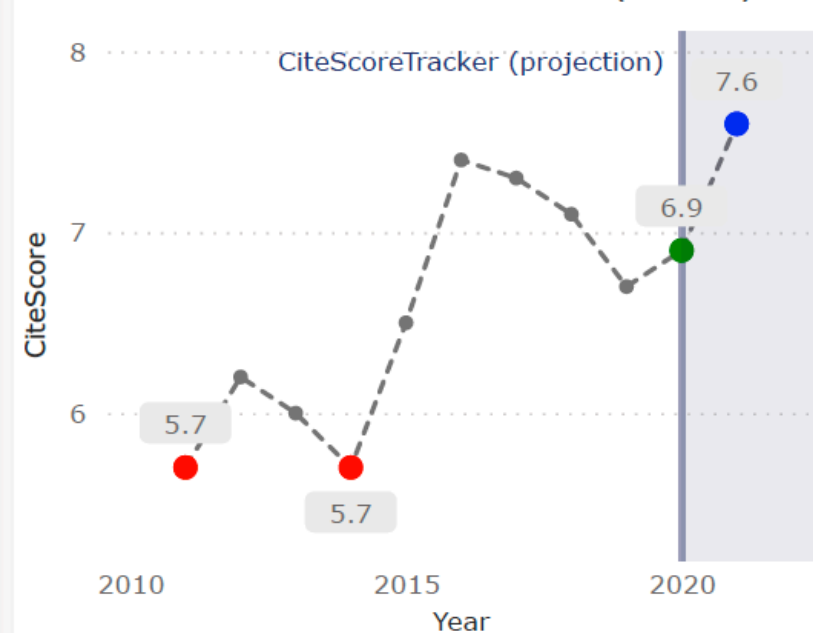
4. BG Publications



Impact Factor (Clarivate)






CiteScore and current CiteScoreTracker (Elsevier)

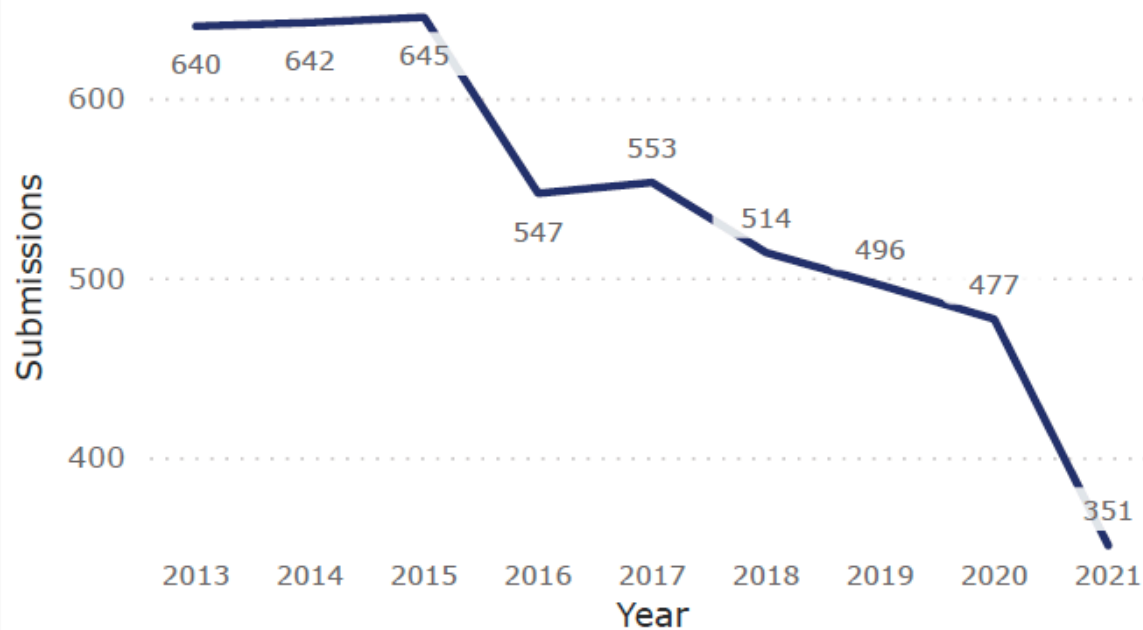


4. BG Publications

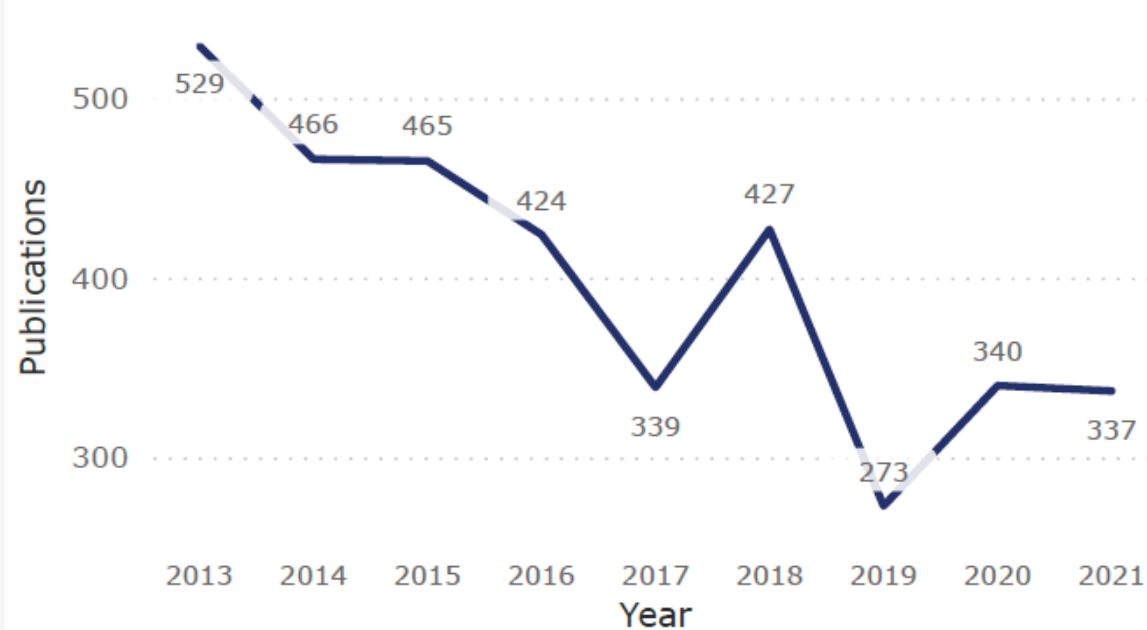


Type	Articles	% change	Yearly trend
Regular	299	3.5%	
Special issue	38	-25.5%	
Total	337	-0.9%	

Manuscripts submitted by year of submission



Manuscripts published by year of publication



4. BG Publications

Manuscript submissions and review



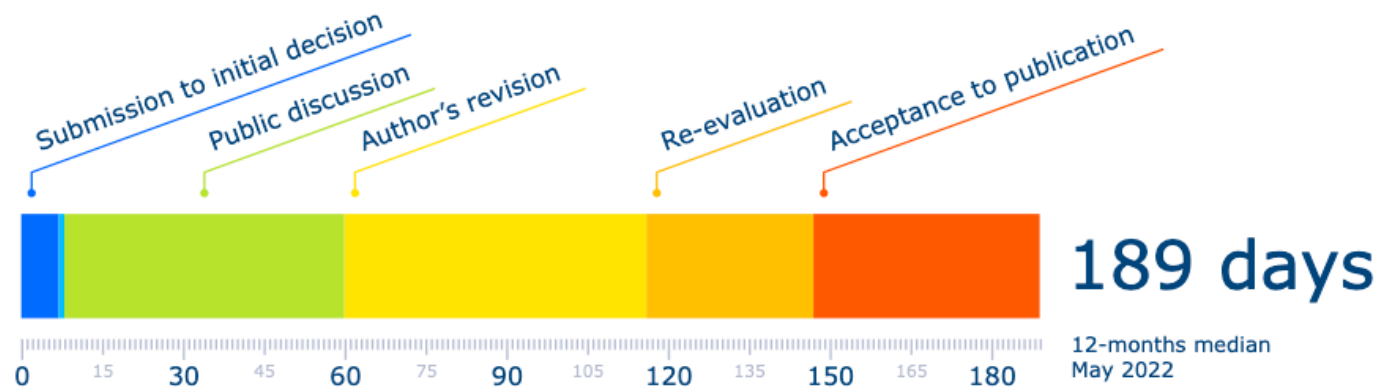
Manuscript submissions in 2021: 351

Manuscript acceptance rate in 2021:

92% accepted for review, of which 93 % accepted for final publication

Time from submission to publication:

Median of 4.5 months from submission to final acceptance



4. BG Publications

We encourage submissions to Biogeosciences

Manuscript types:

- Research articles
- BG Letters **New!**
- 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



4. BG Publications



Scheduled special issues

- ▶ **Ecosystem experiments as a window to future carbon, water, and nutrient cycling in terrestrial ecosystems**
22 Feb 2022–15 Dec 2022 | Karin Rebel, Teresa Gimeno, Sönke Zaehle, Silvia Caldararu, Richard Nair, Victor Rolo, Benjamin Stocker, and Michael Bahn | [Information](#)
- ▶ **Global change effects on terrestrial biogeochemistry at the plant-soil interface**
15 Oct 2021–31 Oct 2022 | Emily Solly, Lucia Fuchslueger, Alberto Canarini, Albert C. Brangarí, and Michael Bahn | [Information](#)
- ▶ **Concerted multidisciplinary and multi-platform eddy studies off West Africa: mesoscale and sub-mesoscale dynamics and physical-chemical-biological coupling (BG/ESSD/OS inter-journal SI)**
01 Oct 2021–31 Dec 2022 | Anthony Bosse, Jack Middelburg, Koji Suzuki, Tina Treude and Carolin Löscher | [Information](#)
- ▶ **The Weddell Sea and the ocean off Dronning Maud Land: unique oceanographic conditions shape circumpolar and global processes – a multi-disciplinary study (OS/BG/TC inter-journal SI)**
24 Mar 2021–31 Dec 2022 | Markus Janout, Laura de Steur, Sebastien Moreau, Mia Wege, Mario Hoppema, Christian Haas, and Carol Robinson | [Information](#)
- ▶ **The role of fire in the Earth system: understanding interactions with the land, atmosphere, and society (ESD/ACP/BG/GMD/NHESS inter-journal SI)**
11 Jun 2020–31 Dec 2022 | Fang Li, Sandy Harrison, Renata Libonati, Kirsten Thonicke, Nadine Unger, and Sander Veraverbeke | [Information](#)

4. BG Publications

Some highlight articles from 2021

BG Letter

Photosynthetic activity in Devonian Foraminifera

Zofia Dubicka, Maria Gajewska, Wojciech Kozłowski, Pamela Hallock, and Johann Hohenegger

Committed and projected future changes in global peatlands – continued transient model simulations since the Last Glacial Maximum

Jurek Müller and Fortunat Joos

Not all biodiversity rich spots are climate refugia

Ádám T. Kocsis, Qianshuo Zhao, Mark J. Costello, and Wolfgang Kiessling

Arctic Ocean acidification over the 21st century co-driven by anthropogenic carbon increases and freshening in the CMIP6 model ensemble

Jens Terhaar, Olivier Torres, Timothée Bourgeois, and Lester Kwiatkowski

Persistent impacts of the 2018 drought on forest disturbance regimes in Europe

Cornelius Senf and Rupert Seidl

BG Letter

Reviews and syntheses: Impacts of plant-silica-herbivore interactions on terrestrial biogeochemical cycling

Bernice C. Hwang and Daniel B. Metcalfe

Effects of Earth system feedbacks on the potential mitigation of large-scale tropical forest restoration

Alexander Koch, Chris Brierley, and Simon L. Lewis

Modeling the marine chromium cycle: new constraints on global-scale processes

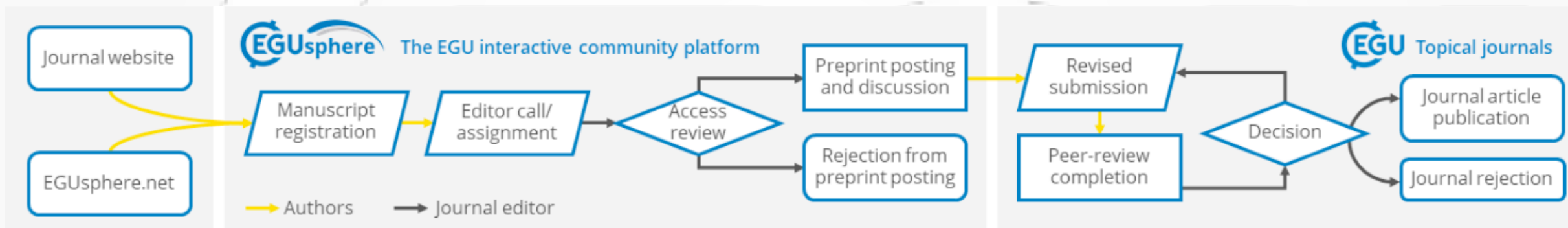
Frerk Pöppelmeier, David J. Janssen, Samuel L. Jaccard, and Thomas F. Stocker

4. BG Publications



New!

The preprint repository of the EGU



EGUsphere preprints	Journal (discussion) preprints
Accessible from EGU sphere 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 EGU sphere	In case of rejection: journal discussion paper remains archived on journal page



4. BG Publications

Outstanding Editor Award 2021

Carolin Loescher

(University of Southern Denmark)

Previous Outstanding Editor Awards to

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



4. BG Publications



Outstanding Reviewer Awards 2021



Thomas Browning

Silvia Caldararu

Damien Maher

Ralf Schiebel



Outstanding Reviewer Awards 2020

Olivia Clifton and Euan Nisbet

Outstanding Reviewer Awards 2019

Hinrich Grothe, Ben Bond-Lamberty, Ralf Schiebel

Outstanding Reviewer Awards 2018

Alberto Borges, Heike Wex, Thomas Wutzler



4. BG Publications

Thank You



5. Any Other Business?



Prof Dr. Werner Eugster (1964-2022)



Biosphere-Atmosphere Interactions