

SSP Division Meeting 2021

Marc De Batist and the SSP Division Officers
20 April 2021 || 13:30–14:30 || Zoom meeting



AGENDA

- **Welcome**
- vEGU21 Gather Online
- Information on EGU – Activities, Programs, Publications
- SSP Structure and Team 2021-2022: changes
- Early Career Scientists: Report from the ECS Rep
- SSP Awards
- vEGU21: SSP Sessions and co-organized sessions
- Information and News from the SSP Community

SSP – Stratigraphy, Sedimentology & Palaeontology

- [SSP1 – General Sessions](#)
- [SSP2 – Stratigraphy, Earth Systems History and Climate Geology](#)
- [SSP3 – Sedimentology: processes, products, diagenesis](#)
- [SSP4 – Palaeontology, Palaeoecology and Evolution of Life](#)
- [SSP5 – Short Courses](#)

DM19

[Division meeting for Stratigraphy, Sedimentology and Palaeontology \(SSP\)](#)

Convener: [Marc De Batist](#) 

★ Tue, 20 Apr, 13:30–14:30 (CEST) 

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vEGU21 Gather Online: statistics

(as of 17 April 2021)

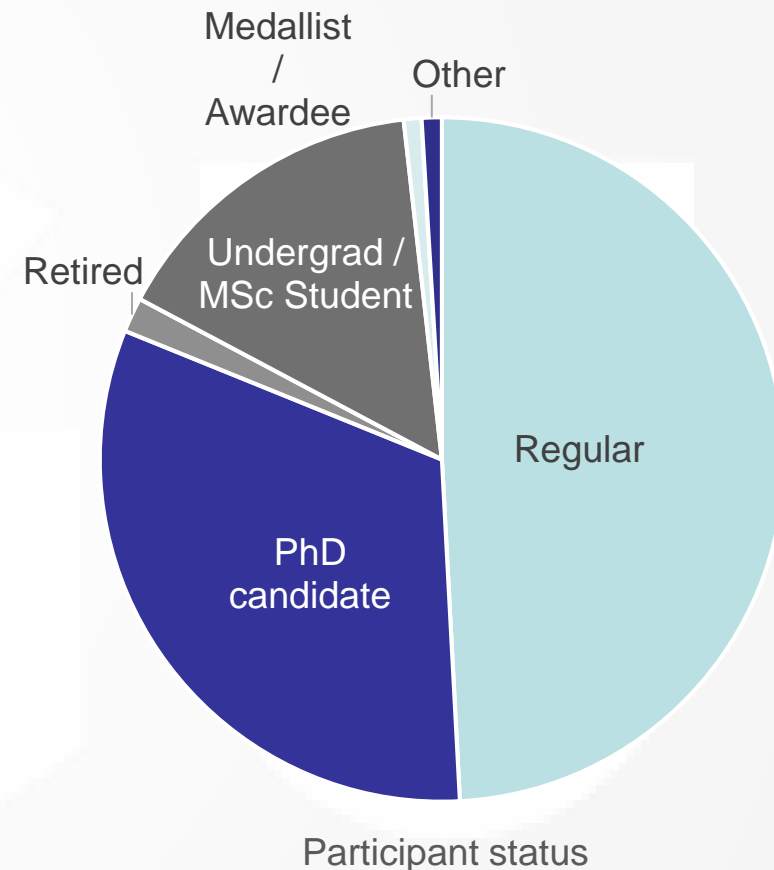
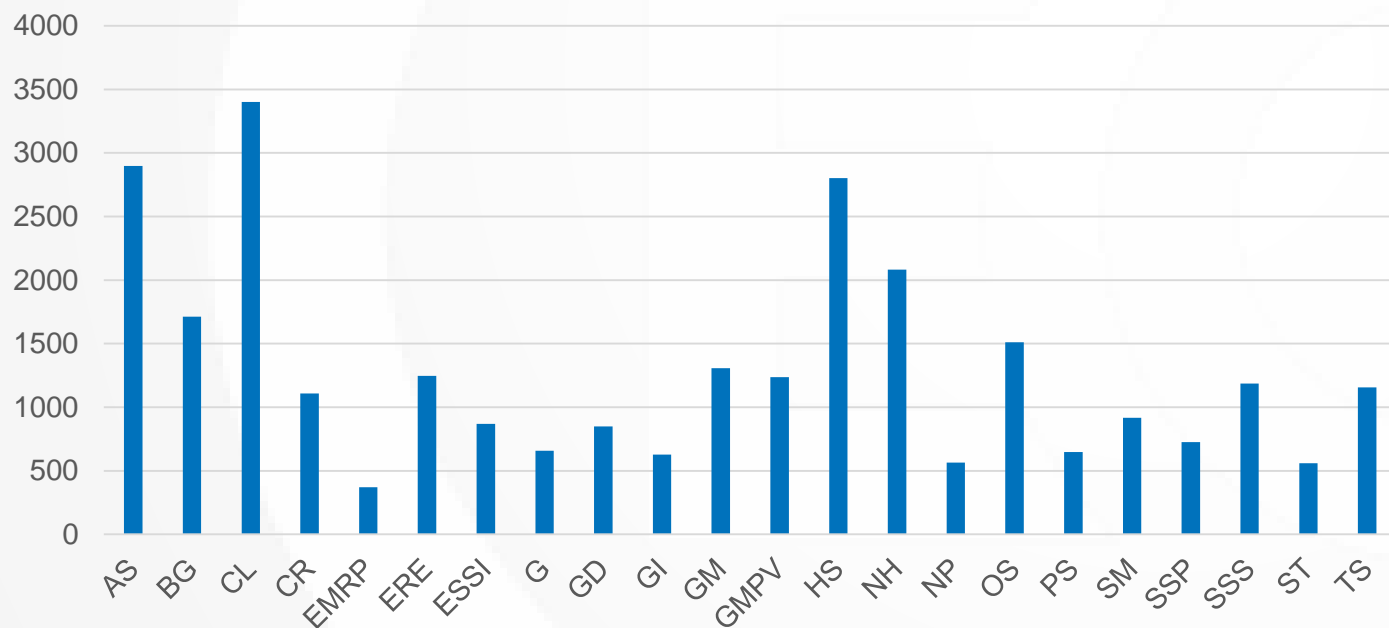
- 13,801 abstracts in program
 - -24% relative to 2020 (but that was 11% up compared to 2019)
- all presentations (in scientific sessions) in vPICO format
- 843 active sessions || 636 vPICO sessions || 56 Short Courses || 32 Medal and Award Lectures
- Week 1 (19-23 April): Union Symposia || Great Debates (Except GDB1) || most Medal and Award Lectures || most Division Meetings || 2 Short Courses per day
- Week 2 (26-30 April): 38/39 parallel vPICO sessions || 4 Short Courses per day
- Networking Events (including pop-ups) || Townhall Meetings || Side Events during both weeks
- EGU Plenary 19 April || Medal & Award Celebration 22 April || Closing party 30 April

vEGU21 Gather Online

Registration numbers and breakdown

- 13,982 registrations
- Participants from 126 countries

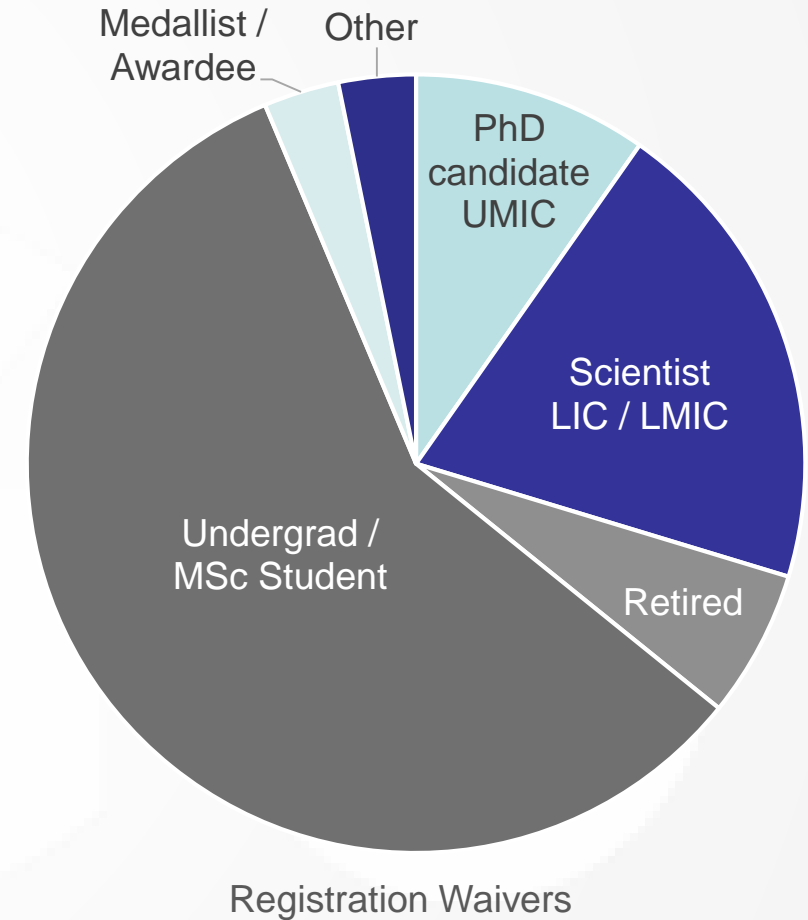
Participants division affiliation



vEGU21 Gather Online

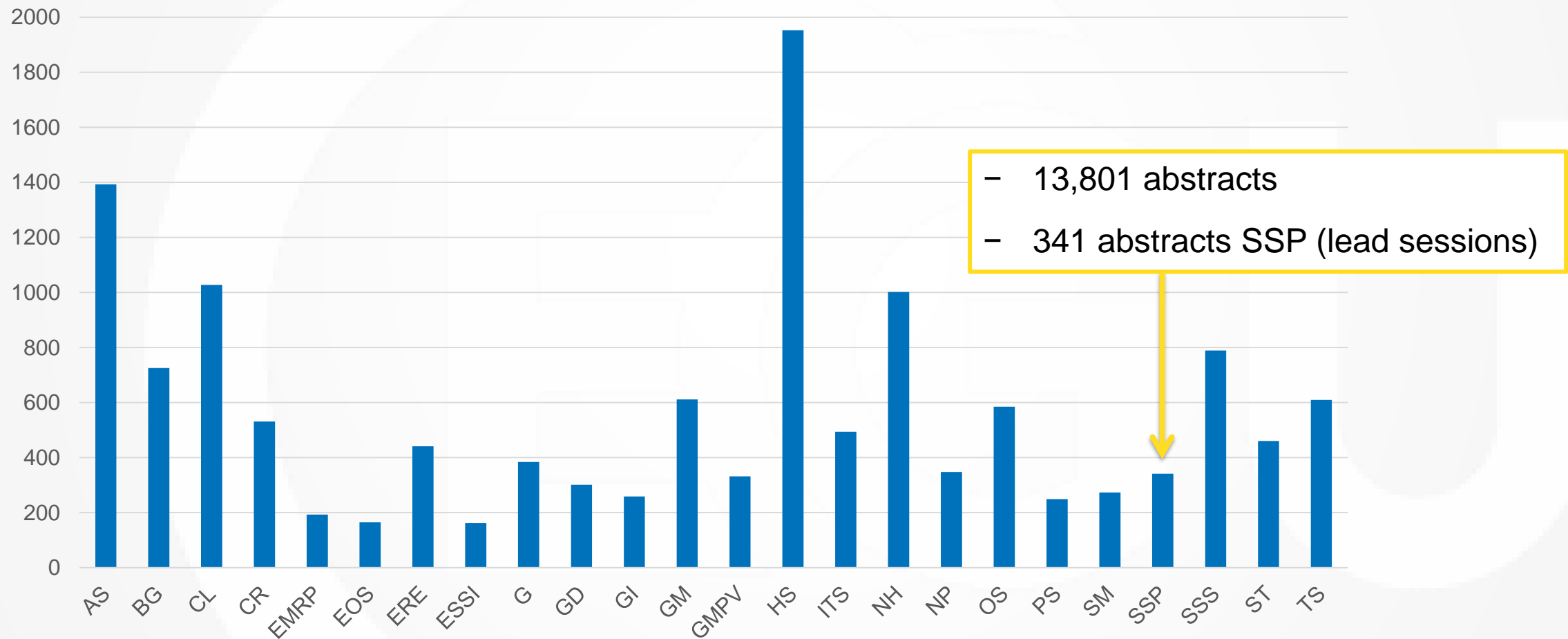
Registration numbers and breakdown

- 3,675 registration fee waivers granted:
 - All scientists from Low / Lower-Middle Income Countries*
 - PhD candidates from Upper-Middle Income Countries*
 - Undergraduate and Master Students
 - Retired members of EGU
 - Medallists
 - Others (Teachers, Journalists, ...)



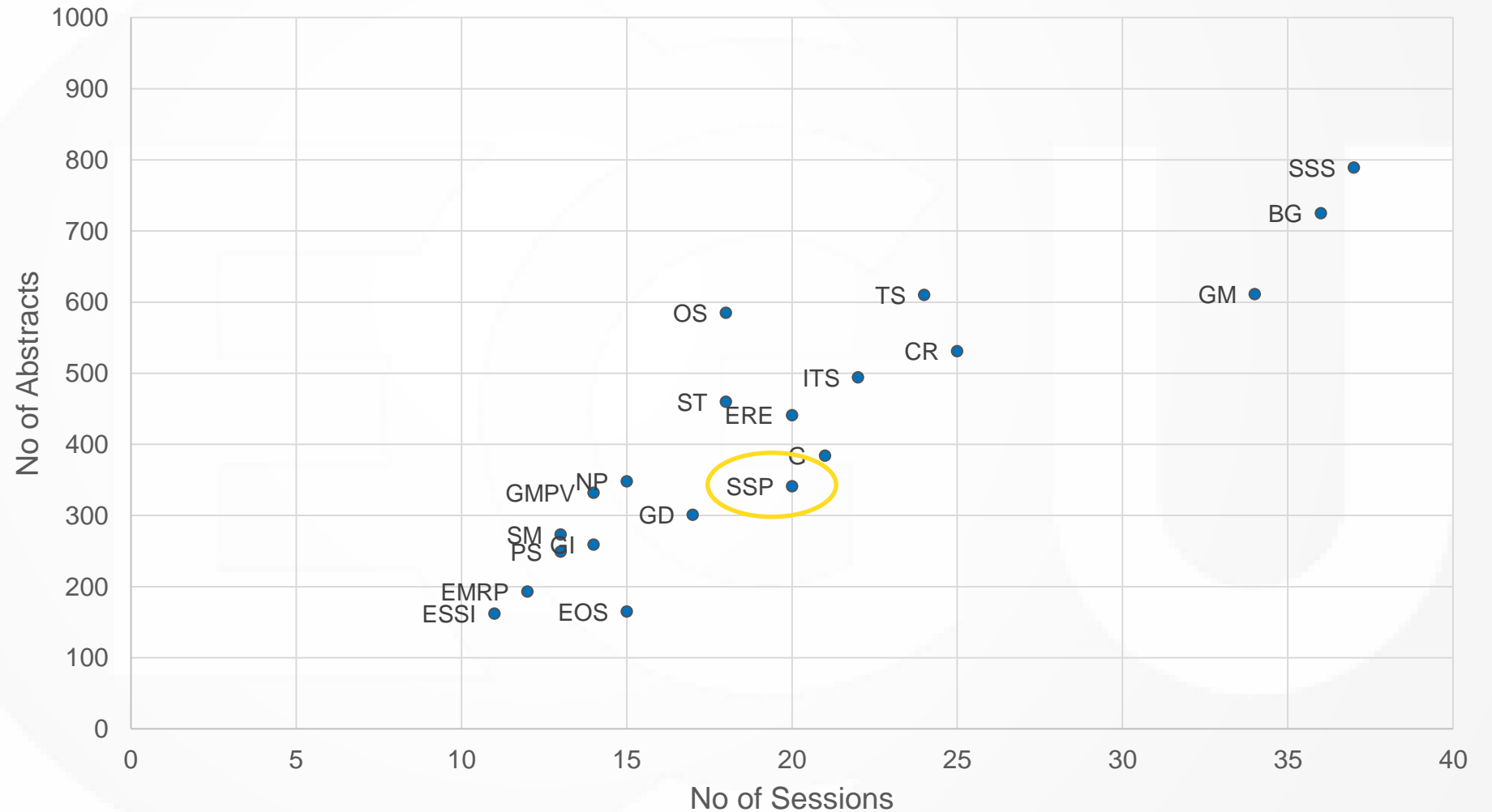
* World Bank Definition

vEGU21 Gather Online Abstracts per Program Group



vEGU21 Gather Online Abstracts/Sessions per Program Group

All Program Groups except AS, CL, HS, NH



vEGU21 Gather Online Union Symposia

- 5 interactive webinars discuss overarching and interdisciplinary topics of EGU-wide interest
 - US1 - Integrating geoscience into the European Green Deal
 - US2 - Post-Covid Geosciences
 - US3 - A Climate and Ecological Emergency: Can a pandemic help save us...?
 - US4 - Towards evolvable physics-based plants and landscape processes in terrestrial biosphere models
 - US5 - Faults, Rivers and Topography: in memory of Patience A. Cowie

vEGU21 Gather Online Great Debates

- 5 interactive webinars on current discussion topics in the geosciences
 - GDB1 - Challenging discrimination in the geosciences: amplifying unheard voices
 - GDB2 - The role of scientific information in an emerging environmental crisis
 - GDB3 - Improving Research Software in the Geosciences
 - GDB4 - Slow science vs fast science
 - GDB5 - Bullying in Academia: towards creating a healthy and safe working environment

vEGU21 Gather Online Early-Career Scientist Events

- 56 Short Courses
 - 34 Short Courses with ECS as main convenor
- 21 Networking Events led by and aimed at ECS
- 3 Great Debates led by ECS
- Jobs and Career Center initiatives
 - Meet the exhibitors
 - Meet the Talents
 - Blog on CV writing
 - Online CV-sticker
- Outreach
 - Introducing ECS Reps via EGU Blog
 - Blogs and Social Media blurbs about ECS-events



vEGU21 Gather Online Science & Policy

Meet experts working at the interface of science & policy at a networking session!

- **Science for Policy Meet and Greet:**
26 April, 16:00
- **Science-policy pairing scheme:
a panel discussion:** 27 April, 16:00
- **Practice pitching your policy
ask to a policymaker:** 28 April, 17:00



vEGU21 Gather Online Science & Policy

How can scientists effectively engage with policy? Find out during these Short Courses!

- **Your Handbook to Science for Policy:**
27 April, 10:00
- **How to influence policy through engaging
with Parliaments:** 28 April, 16:00



vEGU21 Gather Online

Equality, Diversity and Inclusion (EDI)

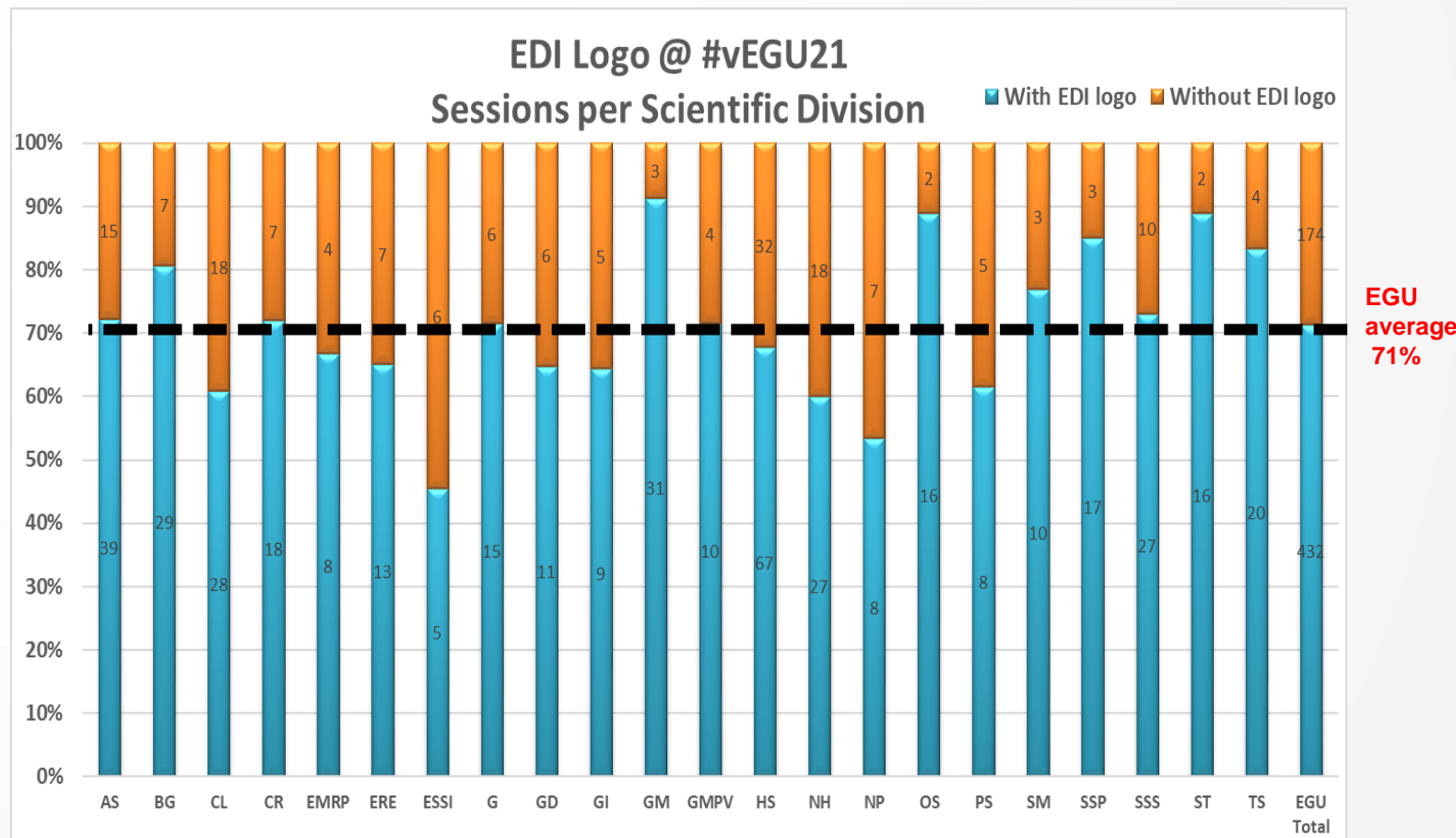
- SC2.8 Promoting Diversity in Geosciences: 19 April, 10:00-11:00
- SC2.9 Practical Recommendations on how to combat discriminatory work environments in the Geosciences: 19 April, 14:30-15:30
- EOS5.1 Promoting and supporting equality, diversity and inclusion in the geosciences: 26 April, 11:00-14:15
- GDB5 Bullying in Academia: towards creating a healthy and safe working environment (ECS Great Debate): 22 April, 09:00-10:30
- GDB1 Challenging discrimination in the geosciences: Amplifying unheard voices: 26 April, 15:00-16:30
- NET0 Picture a Scientist Film Screening, 24-26 April
- EDI Networking Event: 26 April, 17:00-17:30
- EGU Pride: 19 April, 17:30-19:00
- EGU EDI Colouring Book

vEGU21 Gather Online Equality, Diversity and Inclusion (EDI)

EDI Logo

Session conveners fulfill all three criteria:

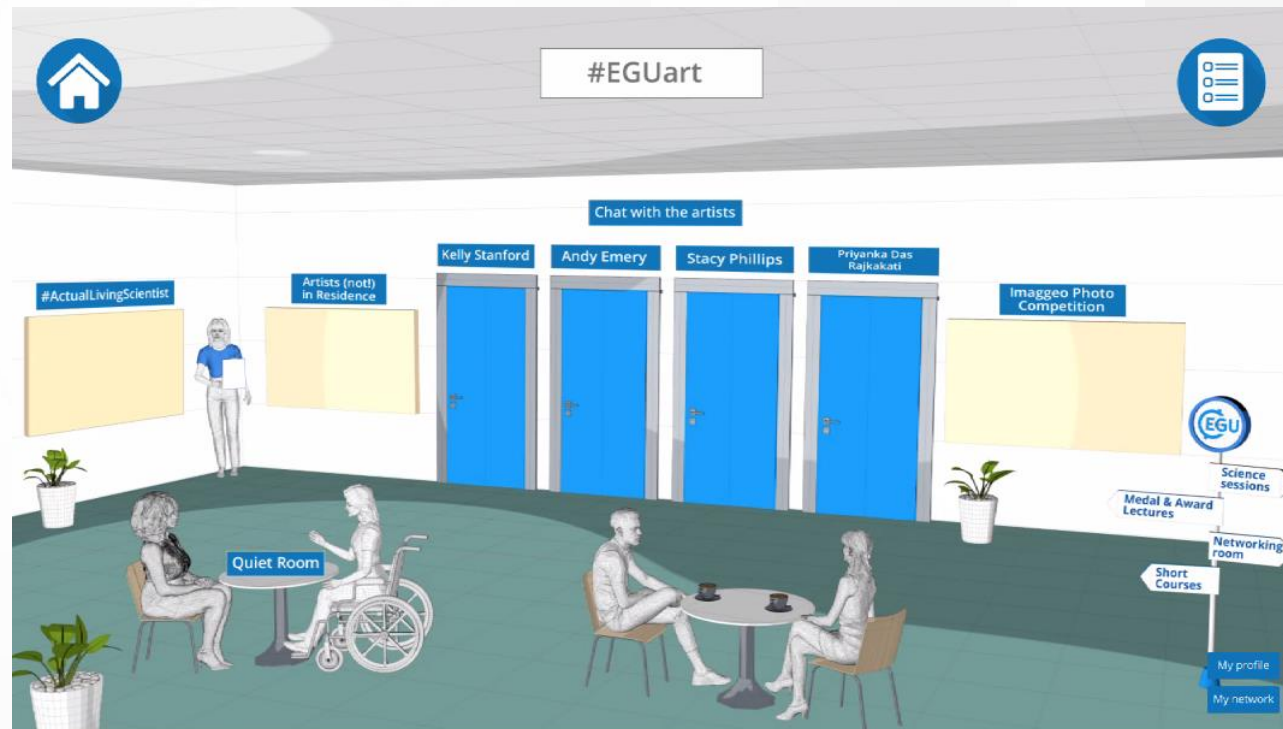
- Include conveners from **multiple countries and institutes**
- Have conveners from **different career stages**, including at least one ECS
- Include conveners that represent **more than one form of gender identity**



vEGU21 Gather Online

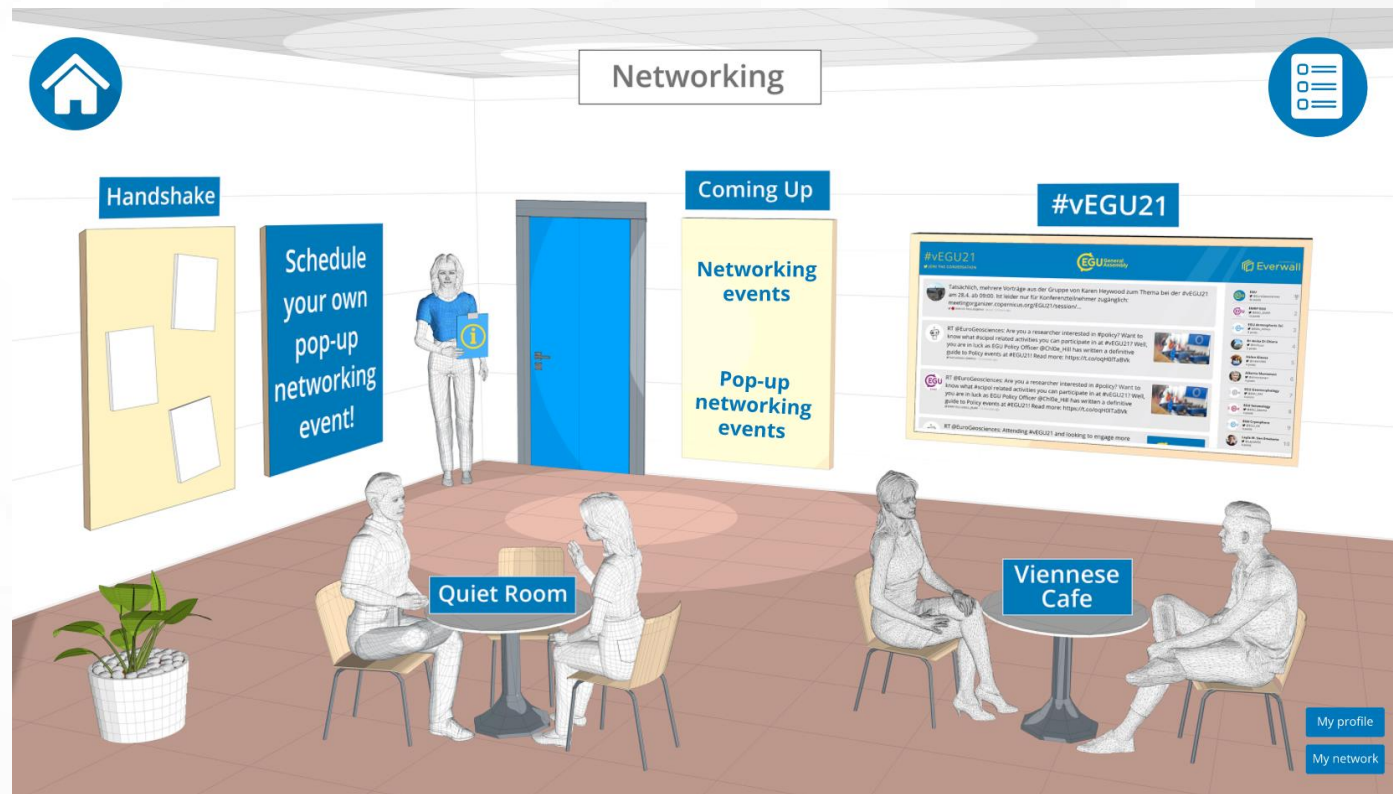
#EGUart

- 4 artists (not!) in residence
- #EGUart room in Virtual Conference Centre
- #ActualLivingScientist (EDI initiative)
- Colouring book (EDI initiative)
- Imageo photo competition
- Kids Art



vEGU21 Gather Online Networking

- Scheduled networking events (Division, ECS, etc.), including on Gather.town
- Pop-up networking events
- EGU committee meet & greets
- Viennese settings (café, art exhibits, cooking)
- Quiet room (Spotify playlist)
- vEGU21 platform built-in networking capabilities (networker, handshake)

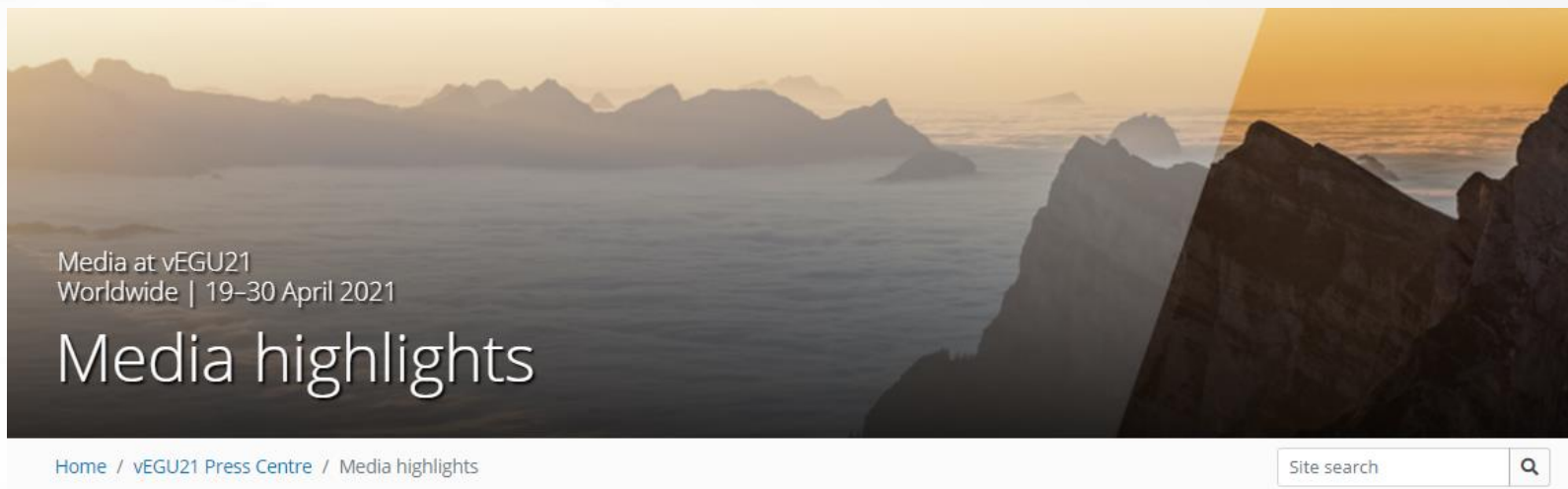


vEGU21 Gather Online Outreach Activities

- EGU Public Lecture: Werden Hochwässer in Europa größer?
Günter Blöschl (Vienna University of Technology and previous EGU President)
21 April, 18:00.
The lecture is hosted and organised by the Austrian Academy of Sciences.
- EGU Mentoring: 130 mentees successfully paired with 83 mentors.
- Croome & Krafft award presentations 20 April, 18:00
- Teaching/scientist pairing scheme pilot project

vEGU21 Gather Online Media Activities

- 6 press conferences
- New: media highlights page
- New: 5 press releases
- New: 5 media tip sheets
- Every PG represented in these materials!



The evolution of feathers

Birds are covered in feathers, but they are not the only animal to sport a colorful coat. Dinosaurs once did too, according to recent scientific findings. Researchers have uncovered fossils that show feathers existed 100 million years ago and were likely on all dinosaur groups.

[Michael Benton](#), paleontologist at the University of Bristol, UK, [presents](#) research on **Tuesday, 20 April at 15:05 CEST** covering the evolution of feathers, including how paleontologists are detecting colours and patterns of dinosaur feathers. He will also discuss new frontiers of research in paleobiology.



Dinosaurs that are 100 million years old show evidence of feathers. Scientists have discovered that *Sinosauropteryx* had ginger and white rings of feathers down its tail. Image credit: Sam / Olai Ose / Skjaervoy, CC 2.0, Flickr.

vEGU21 Gather Online

EGU Today

vEGU21: Gather Online

Tuesday, 20 April 2021



Highlights at a glance

- 09:00 – GDB4: Slow science vs. fast science
- 09:00 – SC3.1 The scientific poster needs attention! Approaching the design process as a scientist
- 10:00 – SC1.2 How to get involved in EGU?
- 12:30 – NET14: GD – ECS event
- 12:30 – NET20: SSP & OS – ECS event
- 14:30 – SC2.3 European Research Council Future and Emerging Frontiers
- 15:00 – US3: A climate and ecological emergency
- 16:00 – SC1.4 Mind your head: your mental health
- 17:00 – NET39: SSP – all division members (CL)
- 18:00 – NET40: SSSS – all division members (CL)
- 19:00 – NET22: TS – ECS event

Award Lectures:

Climate: Past, Present & Future

- 15:05 – MAL4b Hans Oeschger Medal Lecture 2020: Kim M. Cobb
- 15:55 – MAL4b Hans Oeschger Medal Lecture 2021: Sonia Seneviratne
- 16:45 – MAL4b CL Division Outstanding ECS Award Lecture 2021: Franziska Lechleitner

MAL4b: 15:00 –17:00

Hydrological Sciences

- 15:00 – MAL14a Henry Darcy Medal Lecture 2020: Xavier Sanchez-Vila
- 15:45 – MAL14a Henry Darcy Medal Lecture 2021: Berit Arheimer
- 16:30 – MAL14a Arne Richter Award for Outstanding ECS Lecture 2020: Andreas Hartmann

MAL14a: 15:00 –17:00

Stratigraphy, Sedimentology and Palaeontology

- 15:00 – MAL20 Jean Baptiste Lamarck Medal Lecture 2020: Michael Benton
- 15:45 – MAL20 SSP Division Outstanding ECS Award Lecture 2020: Anna Joy Drury
- 16:00 – MAL20 Jean Baptiste Lamarck Medal Lecture 2021: André Strasser
- 16:45 – MAL20 SSP Division Outstanding ECS Award Lecture 2021: Niels de Winter

MAL20: 15:00 –17:00

Award Lectures: Journalism and engagement awards

- 17:00 – MAL0 Angela Croome Award

More Short Courses

- 09:00 – SC3.1 The scientific poster needs attention! Approaching the design process as a scientist

Division meetings

- 13:30 – DM3 Climate: Past, Present & Future (CL)

AGENDA

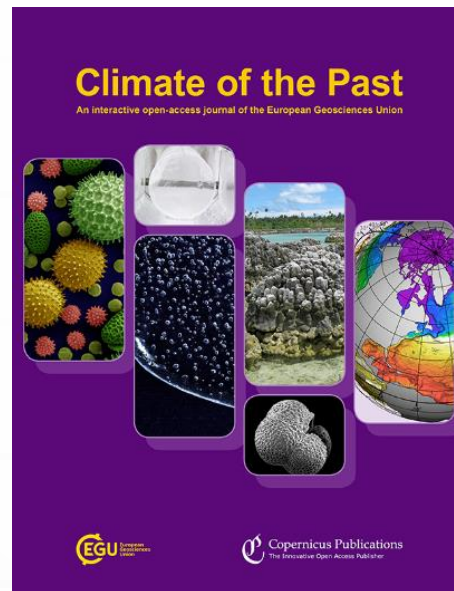
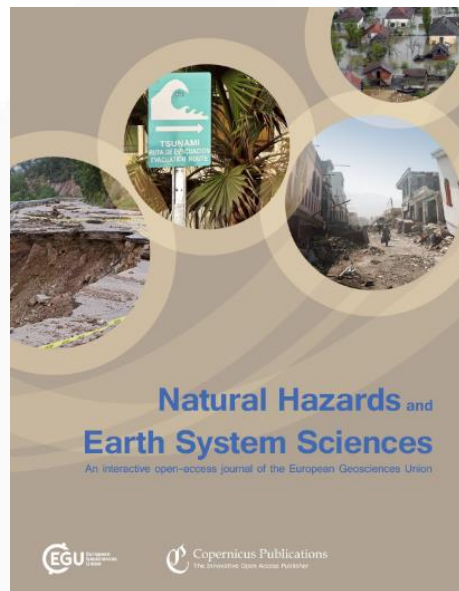
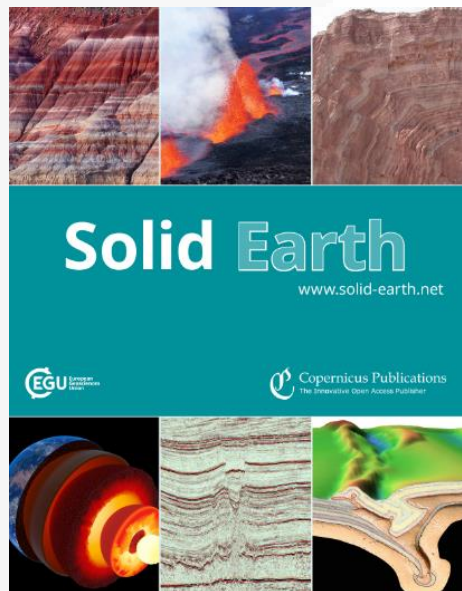
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EGU Treasurer 2021–2023

Patric Jacobs was elected as the EGU Treasurer for the term 2021–2023.

He will be inaugurated during the EGU Plenary Meeting on 19 April 2021.





open access as basic principle
interactive discussion papers




Executive editors: CharLotte Krawczyk (chief executive editor), Susanne Buiter, Joachim Gottsmann, Federico Rossetti & Arjen Stroeven

Solid Earth (SE) is a not-for-profit journal that publishes multidisciplinary research on the composition, structure, and dynamics of the Earth from the surface to the deep interior at all spatial and temporal scales.

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Executive editors

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CharLotte Krawczyk

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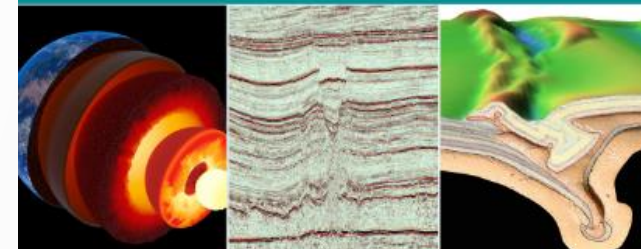
Arjen Stroeven

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Department of Physical Geography
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Solid Earth

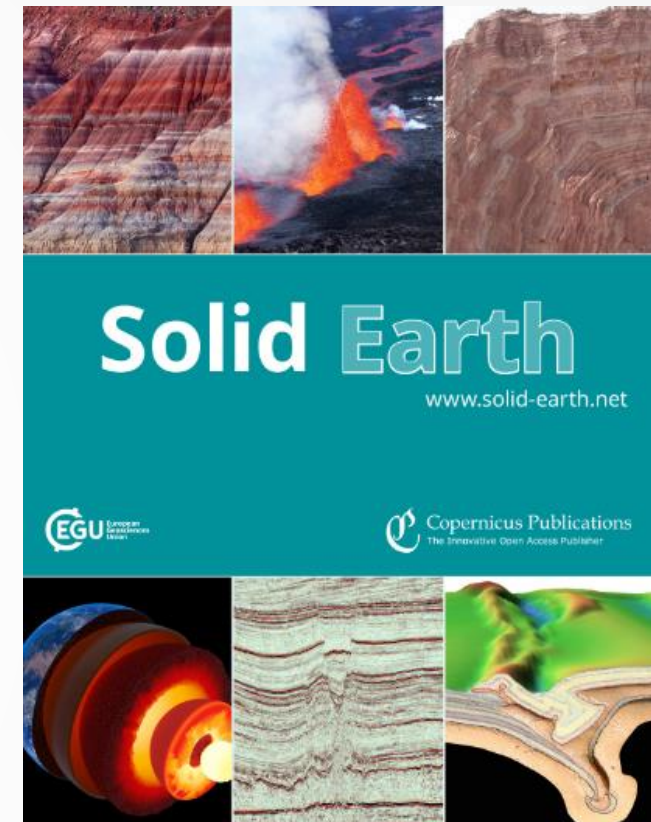
www.solid-earth.net



Solid Earth is doing well, with increasing numbers of manuscript submissions, except in the field of Paleontology

Solid Earth is encouraging Special Issues (from “EGU21 Gather Online”)

Contact: arjen.stroeven@natgeo.su.se



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Division SSP 2020-2021

President

Marc De Batist

Deputy President

Stéphane Bodin

Program Group/Science Officers

Stratigraphy

Jorijntje Henderiks

Ian Jarvis

Sedimentology

Guilhem Amin Douillet

Stephen Lokier

Paleontology

Cinzia Bottini

Thijs Vandenbroucke

SSP Structure and Team

Division SSP 2020-2021 (continued)

ECS Representative

Madeleine Vickers

Alicia Fantasia (alternate) **main and alternate Rep will swop**

SSP-Blog editor

Alena Ebinghaus

Journals Representative

Elias Samankassou

has stepped down

Division SSP 2020-2021 (continued)

Jean-Baptiste Lamarck Medal Committee

Chair

Helmut Weissert

Member; former medalist

Michael Benton

Member; former medalist

Isabel P. Montañez

Member; former medalist

Jim Best

ECS Member

Guilhem Douillet

will be rotating off

will be rotating off

Outstanding ECS Award Committee

None

Division SSP 2021-2022

President

Marc De Batist

Deputy President

Stéphane Bodin

Program Group/Science Officers

Stratigraphy

Jorijntje Henderiks

Ian Jarvis

Sedimentology

Guilhem Amin Douillet

Stephen Lokier

Paleontology

Cinzia Bottini

Thijs Vandenbroucke

SSP Structure and Team

Division SSP 2021-2022 (continued)

ECS Representative

Alicia Fantasia

swop does not require approval

Madeleine Vickers (alternate)

SSP-Blog editor

Alena Ebinghaus

Journals Representative

Arjen Stroeven

does not require approval

Division SSP 2021-2022 (continued)

Jean-Baptiste Lamarck Committee

Chair	Helmut Weissert	
Member; former medalist	André Strasser	to be approved by Division
Member; former medalist	Michael Benton	
Member; former medalist	Isabel P. Montañez	
Member; non-medalist	Jorijntje Henderiks	to be approved by Division
Member; ECS	Madeleine Vickers	to be approved by Division

Outstanding ECS Award Committee

Chair	Marc De Batist	does not require approval
Members	All Science Officers	to be approved by Division

SSP Structure and Team

Changes in the SSP Team: to be confirmed at the SSP Division Meeting

Jean-Baptiste Lamarck Medal Committee

André Strasser

in conformity with Division rules (new medalists comes in and stays on the committee for 3 years, then rotates off non-medalist member, in conformity with best practices
ECS member, in conformity with best practices

Jorijntje Henderiks

Madeleine Vickers

Outstanding ECS Award Committee

All Science Officers

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Early Career Scientists: Report from the ECS



EGU

SSP ECS report



Madeleine Vickers, outgoing ECS rep



Alicia Fantasia, co-rep; incoming ECS rep



This year Madeleine will step down as main ECS rep and Alicia will become the main rep, if this is agreed.

Last GA we ran a very successful virtual networking event

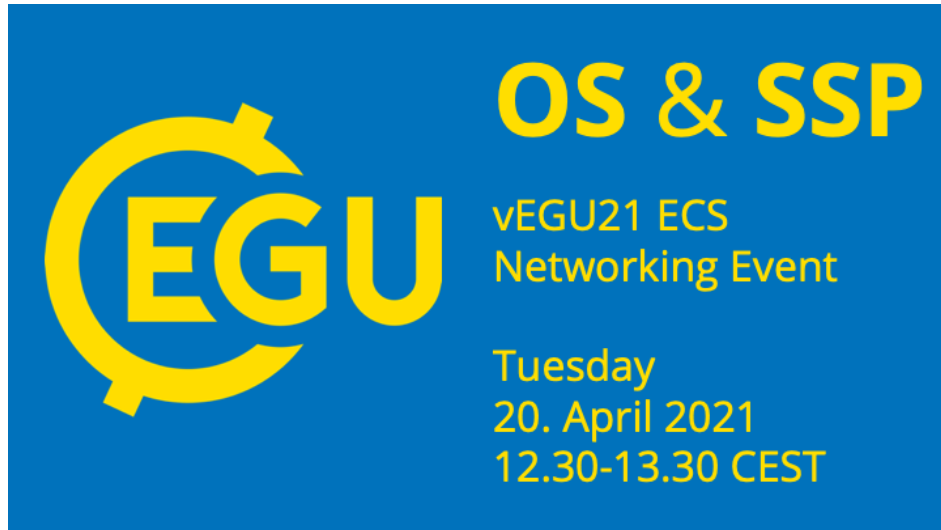
Throughout the year we update Twitter and Facebook, and Alena Ebinghaus ran blog posts

We are still looking for a (social) **media manager – volunteers welcome**

EGU2020 Virtual Networking Event (run in conjunction with OS)

vEGU2021

ECS Virtual Networking Event: Just happened!



OS & SSP

EGU

vEGU21 ECS
Networking Event

Tuesday
20. April 2021
12.30-13.30 CEST



**Join the SSP – networking event
for all division members**

Tuesday, 20 April 2021, 17:00–18:00

Conveners: Madeleine Vickers^{ECS} and Alicia Fantasia^{ECS}

Bring a drink & snack typical of your country
and join us in the virtual spaces in
Gather.town (<https://gather.town>)
to discuss, gather around, and share a great time!

Credit image: Antonio Girona-García – And the sea became mountain, imaggeo.egu.eu

SSP Division Networking Event 17 – 18 THIS EVENING on Gathertown

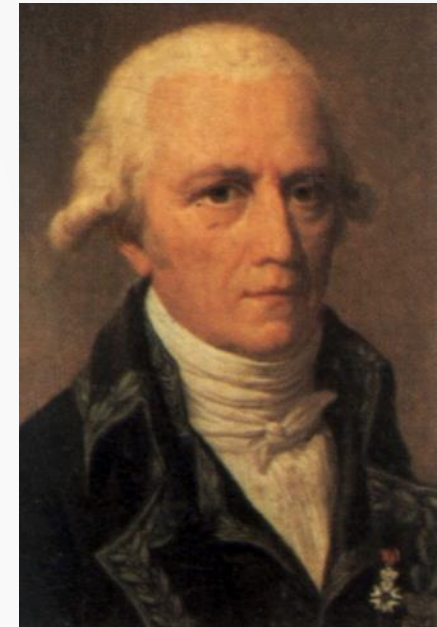
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Jean-Baptiste Lamarck Medal

Established by the SSP Division in recognition of the scientific achievements of Jean-Baptiste Lamarck

Awarded for exceptional contributions to (alternately) stratigraphy, sedimentology or palaeontology



Jean-Baptiste Lamarck Medal

Jean-Baptiste Lamarck Medal 2021

André Strasser

Department of Geosciences

Université de Fribourg, Switzerland



...” in recognition of his contributions to the study of shallow-water carbonates and for his success at merging carbonate sedimentology with cyclo- and sequence stratigraphy”

The Jean-Baptiste Lamarck Medal Lecture 2021 (and 2020 !) will be given today at 15:00-17:00

Outstanding ECS Award

The Division Outstanding Early Career Scientists (ECS) Award recognizes scientific achievements in the field covered by the related division, made by an early career scientist.



Outstanding ECS Award 2021

Niels de Winter

Department of Earth Sciences
Utrecht University, The Netherlands



...”for his outstanding research on the application of μ XRF analyses on biominerals to reconstruct palaeo-seasonality during past greenhouse climates”

The Outstanding ECS Award Lecture 2021 (and 2020 !) will be given today at 15:00-17:00

OSPP Award

In relation with its GAs, EGU presents the Outstanding Student and PhD candidate Presentation (OSPP) Awards:

- to further improve the overall quality of poster and PICO presentations, and
- to foster the excitement of younger colleagues in presenting their work in the form of a poster or a PICO (Presenting Interactive COntent).

The OSPP awards are presented at the level of the EGU Programme Groups.

No OSPP Awards were given in 2020.

During vEGU21 a virtual OSPP Contest (vOSPP) will be organized...

All eligible registered EGU participants are invited to vote. Also conveners are asked to vote on vOSPP presentations within their session and to invite session participants to do the same.

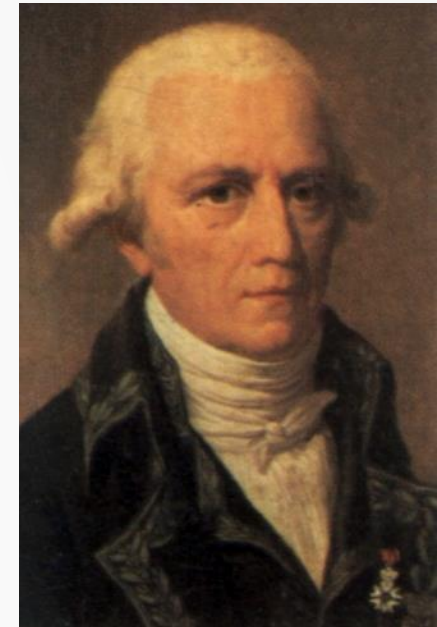
Jean-Baptiste Lamarck Medal

Jean-Baptiste Lamarck Medal 2022 || Call for nominations

2022: Stratigraphy

Nominations until **15 June 2021**

www.egu.eu/awards-medals/nominations/





Outstanding ECS Award

Outstanding ECS Award 2022 || **Call for nominations**

All SSP disciplines

Nominations until **15 June 2021**

Gender balance !

www.egu.eu/awards-medals/nominations/



How to nominate

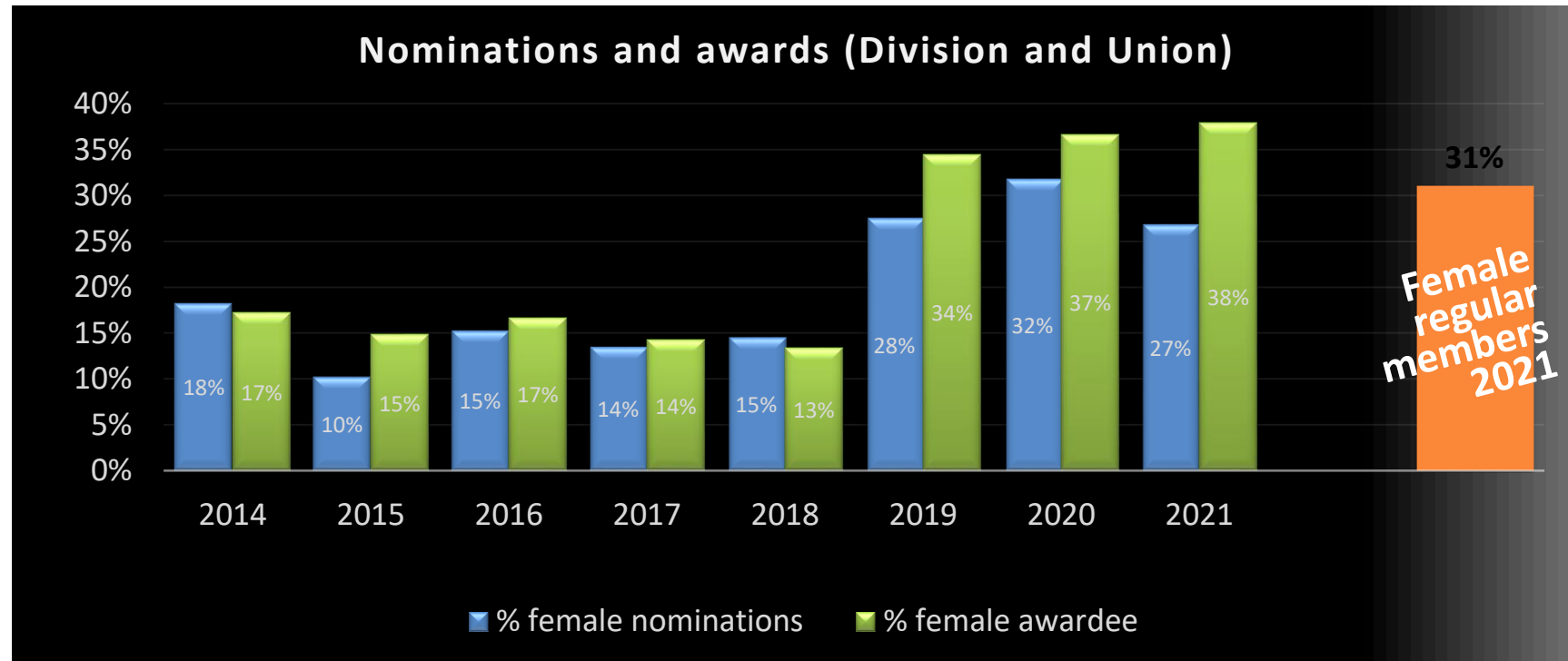
What is required:

	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)	-



All members are 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.

Over the past years the fraction of awards and medals obtained by women has increased. This is due to the increase in nominations.



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vEGU21: SSP Sessions and co-organized numbers and statistics

vEGU21

69 sessions submitted
48 sessions scheduled
20 SSP
28 co-organized

772 abstracts submitted
764 abstracts scheduled
341 SSP
423 co-organized

GA/SGO2020

69 sessions submitted
48 sessions scheduled
16 SSP
32 co-organized

1,182 abstracts submitted
1,139 abstracts scheduled
404 SSP
735 co-organized

-34,6% relative to 2020 (compared to -24% vEGU21-wide)

vEGU21: SSP Sessions and co-organized numbers and statistics

SSP1 - General Sessions

vEGU21

12 sessions scheduled

5 SSP

7 co-organized

235 abstracts scheduled

117 SSP

118 co-organized

GA/SGO2020

16 sessions scheduled

8 SSP

8 co-organized

372 abstracts scheduled

194 SSP

178 co-organized

vEGU21: SSP Sessions and co-organized numbers and statistics

SSP2 - Stratigraphy, Earth Systems History and Climate Geology

vEGU21

13 sessions scheduled
6 SSP
7 co-organized
215 abstracts scheduled
105 SSP
110 co-organized

GA/SGO2020

15 sessions scheduled
5 SSP
10 co-organized
352 abstracts scheduled
102 SSP
250 co-organized

4 out of 7 co-organized sessions have CL as lead organizer

vEGU21: SSP Sessions and co-organized numbers and statistics

SSP3 - Sedimentology: processes, products, diagenesis

vEGU21

15 sessions scheduled
6 SSP
9 co-organized
278 abstracts scheduled
83 SSP
195 co-organized

GA/SGO2020

15 sessions scheduled
4 SSP
11 co-organized
366 abstracts scheduled
72 SSP
294 co-organized

7 out of 9 co-organized sessions have GM as lead organizer

vEGU21: SSP Sessions and co-organized numbers and statistics

SSP4 - Palaeontology, Palaeoecology and Evolution of Life

vEGU21

3 sessions scheduled
 3 SSP
 0 co-organized
36 abstracts scheduled
 36 SSP
 0 co-organized

GA/SGO2020

2 sessions scheduled
 1 SSP
 1 co-organized
49 abstracts scheduled
 36 SSP
 13 co-organized

SSP4 is getting smaller and smaller every year...

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- New online resources

EGU

A new open-science website for stratigraphy teachers and students

Inspiration & Materials for your teaching

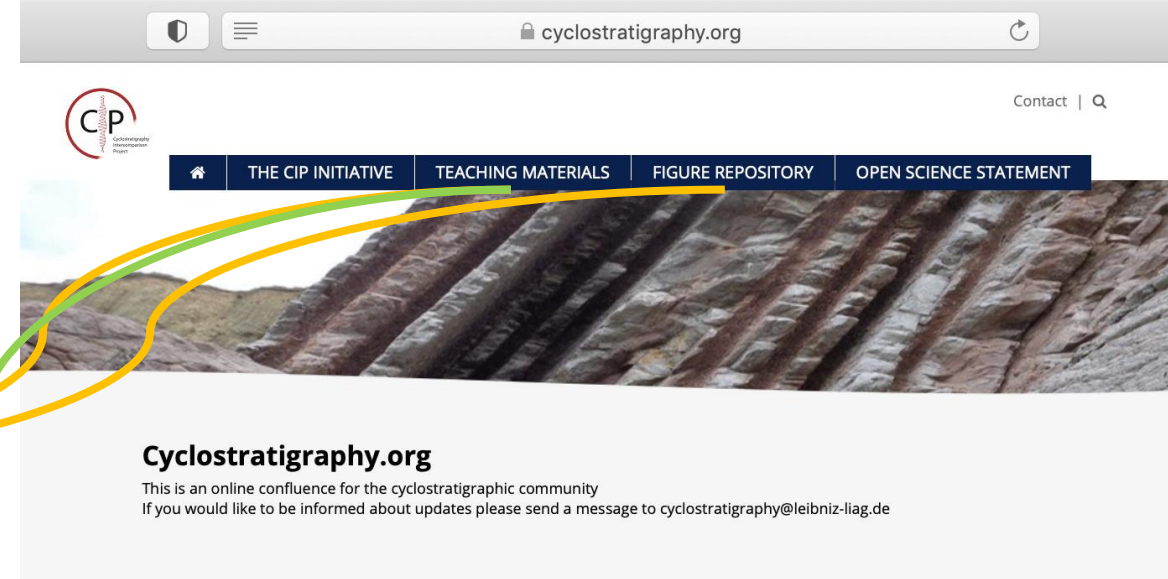
Self-learning

Community-building

Coming-up:
Cyclo-Podcast

Our mission:

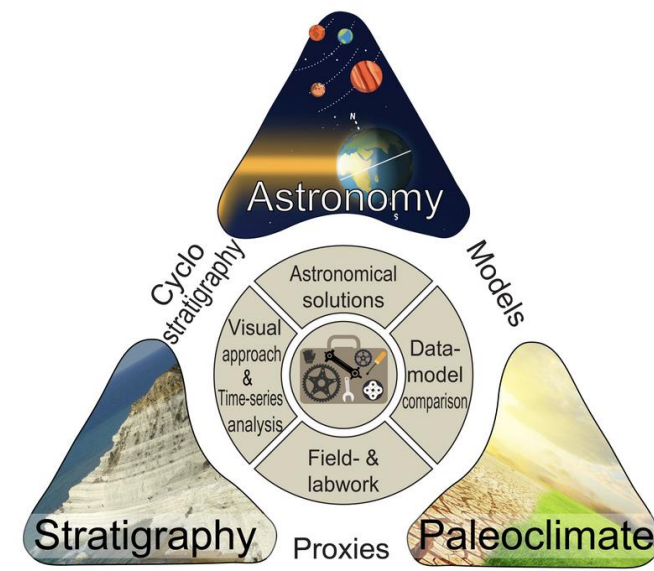
To improve the robustness and reproducibility in cyclostratigraphy by **high-quality learning** and **scientific discussion**.



What is cyclostratigraphy?

Cyclostratigraphy is an important concept for understanding astronomical climate forcing and reading geological time in sedimentary sequences, provided that an imprint of insolation variations caused by Earth's orbital eccentricity, obliquity and/or precession is preserved (Milankovitch forcing). However, this website is also open to cyclostratigraphers who study shorter or longer rhythms in System Earth.

In 2018, the Cyclostratigraphy Intercomparison Project (CIP) assessed the robustness of cyclostratigraphic methods using an experimental design of three artificial cyclostratigraphic case studies with known input parameters. This experiment demonstrated that cyclostratigraphy is a powerful tool for deciphering time in sedimentary successions and, importantly, that it is a trainable skill. This website is the concrete translation of the lessons learned from CIP. The main purpose of cyclostratigraphy.org is to **bring together and organize the cyclostratigraphic community**. We want to do achieve this by offering high-quality learning materials in cyclostratigraphy, while also providing a platform where scientific results can be announced and open questions can be discussed. On the basis of these action points, we want to actively champion the robustness of cyclostratigraphic applications in Earth sciences.





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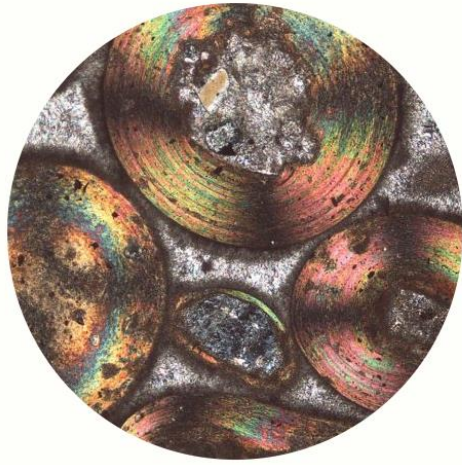
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Recent stromatolites growing in Hamelin Pool, Shark Bay, Western Australia



Seds Online provides an interactive and accessible online platform for anyone with an interest in the field of sedimentology.



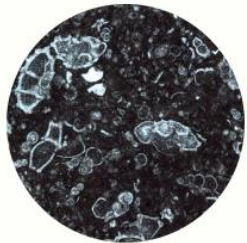
Carbonateworld A Web Tutorial for the Petrographic Analysis of Carbonate Rocks

START EXPLORING

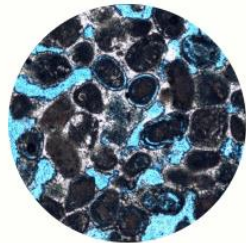


Carbonate Petrography Atlas

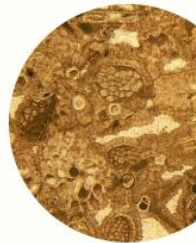
This online petrography atlas offers a wide range of explanatory diagrams and photomicrographs (currently more than 800 images) covering an extensive spectrum of carbonate textures, grain types, diagenetic features, depositional environments and case studies.



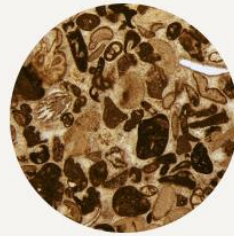
Exercise 1



Exercise 2

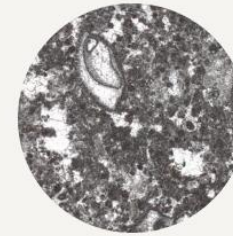


Exercise 3



Carbonate Rock Classification

This section introduces the components and classification diagram of carbonate rocks and displays sets of images for each carbonate texture type.



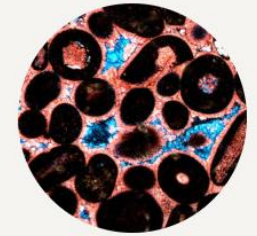
Non-Skeletal Grain types

This section presents a wide range of non-skeletal carbonate grain types.



Skeletal Grain types

This section presents a wide range of skeletal carbonate grain types.



Carbonate Rock Diagenesis

This section includes various examples of carbonate diagenesis products ranging from marine, meteoric, burial diagenesis to dolomitization and porosity types.



AntarcticGlaciers.org

Glaciers and Glaciation in Antarctica and beyond

<http://www.antarcticglaciers.org/>

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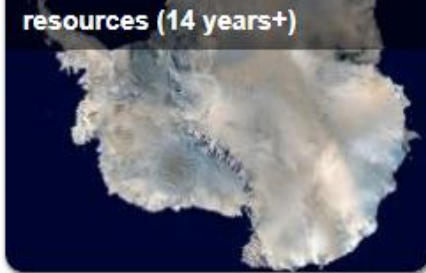
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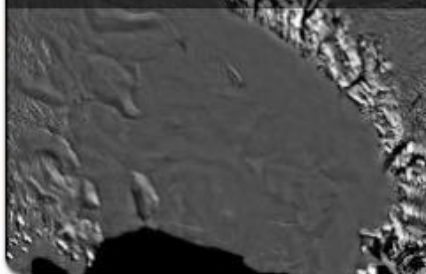
Global glacier recession



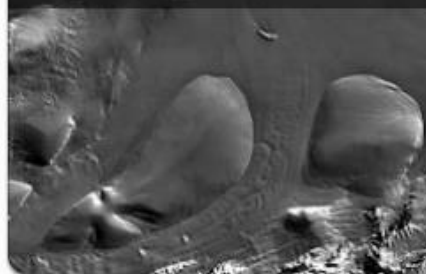
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Episode 124: Crocodylomorph Disparity

April 15th, 2021 | by David Marshall

We look at rates of evolutionary innovation in crocodiles through time with Dr Tom Stubbs



Episode 123: Soil

March 16th, 2021 | by Elsa Panciroli

Terrestrial life as we know it couldn't exist without soil. Soil is a layer of minerals, organic matter, liquids, gasses [⋮]

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