

GD Division Meeting 2020

Paul Tackley

7 May 2020

gd@egu.eu



Meetings | Publications | Outreach | www.egu.eu



GEODYNAMICS DIVISION MEETING 2020

Agenda:

1. Medals and Awards
2. Early Career Scientists & GD Blog
3. Structure of the division
4. Governance review
5. Meeting statistics, feedback & ideas for the future
6. EGU Conferences
7. EGU Publications
8. Any other business



Election News

EGU President (current): **Alberto Montanari**



EGU President (elected): **Helen Glaves**

- vice-Pres for 1 year, president @EGU 2021



GD Division President (1 more year): **Paul Tackley**

GD Division President (elected): **Jeroen van Hunen**

Continue as deputy president

Start as president - EGU 2021

Congratulations (and thank you) Jeroen!





Medals and Awards



The EGU Awards & Medals:

At Union level:

- The Union Medals for senior scientists including the most prestigious awards made by the Union that are associated with an EGU Honorary Membership. **Arthur Holmes Medal** (J-P. Brun, T. Torsvik, C. Laj, K. Burke, S. Cloetingh, V. Courtillot, ...)
- The Union **Arne Richter Outstanding Early Career Scientists Awards**

At Division level:

- The Division **Outstanding Early Career Scientists Award** (1)
- The **Division Augustus Love Medal** for a distinguished scientist (1).

In relation with its General Assemblies, EGU presents the **Outstanding Student Poster/PICO (OSPP) Award** to further improve the overall quality of poster/PICO presentations and, most importantly, to foster the excitement of younger colleagues in presenting their work in poster or PICO form.



EGU Medals: **Please nominate your colleagues !!!**

- Any person is eligible to receive one EGU Medal.
- Any EGU member can submit nomination for a colleague for an EGU medal and awards.
- Nominations for all the medals and awards are to be sent by e-mail by **15 June of each year (absolute deadline)**.
- Candidates for the Union and Division medals are evaluated by the respective Medal Committees and finally approved by the Council.
- Medal committees consist of previous recipients

All details are on EGU web-site



**The Augustus Love Medal
is awarded to a distinguished scientist
in the field of geodynamics,
comprising mantle and core convection,
tectonophysics,
post-glacial rebound and
earth rotation.**



The medal has been exclusively designed for the EGU by József Kótai.

AUGUSTUS LOVE MEDAL 2020

Harro Schmeling

[Home](#) / [Awards & medals](#) / [Augustus Love Medal](#) / 2020 / Harro Schmeling

The 2020 Augustus Love Medal is awarded to Harro Schmeling for his outstanding contributions to understanding the dynamics of the mantle, lithosphere and two-phase flow.

Harro Schmeling has made many outstanding contributions to a large range of topics in geodynamics. These range from developing the first computer models for understanding lithospheric dynamics, addressing coupling between mantle and lithospheric deformation, understanding the physics of melt migration and developing upscaling techniques, to technical developments that helped to advance the numerical geodynamics community.



Harro Schmeling

See <https://www.egu.eu/awards-medals/augustus-love/2020/harro-schmeling/>

Medal Lecture – Next year!



GD Medal Committee

Composition of the Division Medal committees:

- **Chair:** Term is one year and can be renewed 3 times.
- **Minimum three additional members**, preferentially past medalists. Term is one year and can be renewed three times. At least one member of the committee is replaced every year. The role of the past medalists is, among other things, to maintain the quality of the medal by judging the candidates' achievements.
- Division president as ex-officio member.
- Chair of the Union Awards Committee as ex-officio member.



GD Medal Committee

2020

Committee Chair	Committee Members without Ex-Officio Members	Term #	Medal (year)
Jeroen van Hunen	Harro Schmeling	1	2020
	Anne Davaille	2	2019
	E. Marc Parmentier	3	2018
	Barry Parsons	4	2017



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

Early career scientist:

<7 years from highest degree (normally PhD)
(no age limitation)

Selection procedure:

by votes of the Division Officers

The “winner” of the Division OECSA competes for the Arne Richter EGU OECSA with other divisions OECSA winners

Tobias Keller

[Home](#) / [Awards & medals](#) / [Division Outstanding Early Career Scientist Awards](#) / 2020

/ Tobias Keller

GD Geodynamics

The 2020 Division Outstanding Early Career Scientist Award is awarded to Tobias Keller for outstanding scientific contributions related to understanding magma dynamics and igneous systems in the mantle and lithosphere, including the roles of volatiles and reactive flow.



Tobias Keller

Tobias Keller conducts multidisciplinary frontier research on

See <https://www.egu.eu/awards-medals/division-outstanding-ecs-award/2020/tobias-keller/>

Award Lecture – Next year!



Outstanding Student Poster/PICO (OSPP) Award

Eligible for the **OSPP Award** are students that:

- are first author and personally present the poster at the conference;
- satisfy one of the following criteria:
 - are a current BSc, MSc, or PhD student;
 - are a recent undergraduate or postgraduate student (conferral of degree after 1 January of the year preceding the conference) who are presenting her/his thesis work.

OSPP coordinator: Maëlis Arnould

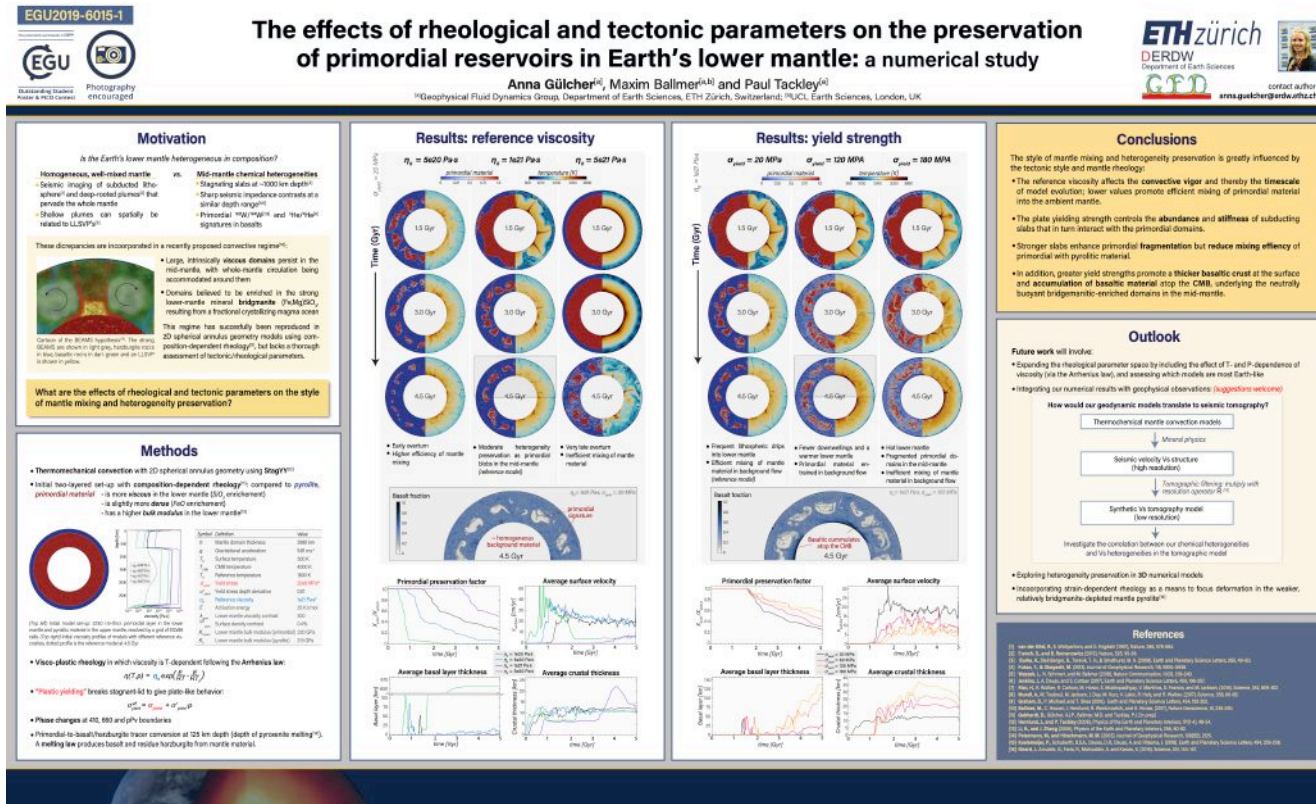


Outstanding Student Poster/PICO Awards EGU-2019 contest: 2 winners

Anna Gülcher



*The effects of
rheological and tectonic
parameters on the
preservation of
primordial reservoirs in
Earth's lower mantle: a
numerical study*





Outstanding Student Poster/PICO Awards EGU-2019 contest: 2 winners

Paul Beguelin



Cerium-Hf-Nd-Sr-Pb isotope constraints on the Azores source composition and plume-rift interaction (PICO)

Cerium -Hf-Nd-Sr-Pb isotope constraints on the Azores source composition and plume-rift interaction.

Paul Beguelin¹, Michael Bizimis¹, Michael Willig², Andreas Stracke², Christoph Beier³, Simon Turner⁴

¹University of South Carolina (USA), ²WWU Münster (Germany), ³University of Helsinki (Finland), ⁴Macquarie University - Sydney (Australia)



Written summary

We present $^{138}\text{Ce}/^{136}\text{Ce}$ and $^{176}\text{Hf}/^{177}\text{Hf}$ isotope ratios on respectively 14 and 41 previously well characterized (Nd-Sr-Pb isotopes, chemistry) subaerial and submarine samples from Eastern and Central Azores islands, situated along the Terceira Rift.

São Miguel and the João de Castro Seamount (JdC) show twin steep arrays extending to isotopically enriched compositions in $\epsilon_{\text{Nd}}-\epsilon_{\text{Hf}}$ and depleted ϵ_{Ce} for JdC. We use correlations with Pb isotopes to constrain possible age/composition values for this extreme source component and identify a very good match with compositionally heterogeneous Archean recycled oceanic crust. In contrast, central Azores lavas (Terceira, São Jorge) require the recycling of young (<700 Ma) altered/dehydrated oceanic crust.

Isotope data reveal a limited lateral expression of mantle endmembers along the Terceira Rift, which is consistent with westward asthenospheric flow of hybrid peridotite along a tilted lithosphere/asthenosphere boundary and melt extraction at eruptive centers along the Rift. This suggests short-scale (70 km) oriented migration of mantle endmembers is a feature of melts erupting along rifts perpendicular to ridges.

Cerium isotope data show a concave mixing trend in $\epsilon_{\text{Ce}}-\epsilon_{\text{Nd}}$ and $\epsilon_{\text{Ce}}-\epsilon_{\text{Hf}}$ for central Azores islands which cannot be solely explained by the sampling of isotopically depleted young recycled oceanic crust with high Ce/Nd and Ce/Hf trace element ratios. Rather, these data suggest a strong gradient in melting degree between two mixing endmembers: $F < 1\%$ for the isotopically depleted source and $F > 5\%$ for the isotopically enriched.

See *Béguelin et al. (2017, GCA)* for more on this project

2 Minutes
summary

Results

Archean
oceanic crust
in the source
of Eastern
Azores

Young oceanic
crust in the
source of
Central Azores

Spatial
expression of
plume sources
along the
Terceira Rift

New
constraints
from cerium
isotopes



This project was funded by a SPARC research grant from the University of South Carolina (to P.B.) and by the US National Science Foundation, grant OCE-1624315 (to M.B.)

School of the
**Earth, Ocean
and Environment**



(slide 1 of 13)

<https://www.egu.eu/awards-medals/ospp-award/2019/paul-beguelin/>



GD ECS Report

Nicholas Schliffke



GD ECS activities since EGU 2019

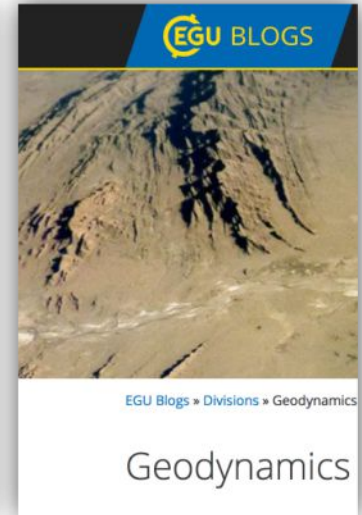
- Setup of GD Twitter ([@EGU_GD](https://twitter.com/EGU_GD))
- Active GD [blog](#)
- GD ECS [online Networking and Feedback](#) event (~25 attendees)
- Participation in EGU Working-Group: 'ECS role in GA and EGU'
- Induction of incoming ECS representative





Planned GD ECS activities

- Relaunch social events and workshops at EGU 2021
- Introduce regular online networking events, similar to the event during #shareEGU20
- Co-operation with blog/social media team to strengthen online presence
- Find new volunteers to enlarge ECS team

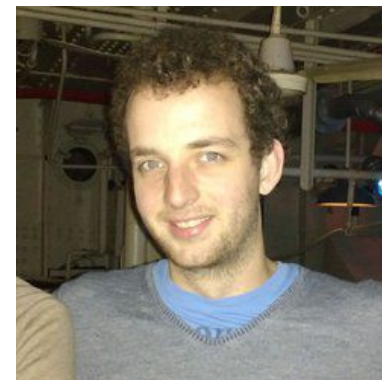




Election of new ECS representative

Nico Schliffke (outgoing ECS representative)

- Elected 2018-2020
- PhD graduate from Durham, working with Jeroen van Hunen
- Contact: ecs-gd@egu.eu



Anna Gülcher (incoming ECS representative)

- PhD student from ETH Zurich, working with Paul Tackley
- Term 2020-2022
- Co-editor of the EGU GD blog
- Responded to call-for-candidates (10th March 2020)
- Has been shadowing Nico
- To be confirmed here at the division meeting
- Contact: anna.guelcher@erdw.ethz.ch (or soon ecs-gd@egu.eu)





GD Blog Report

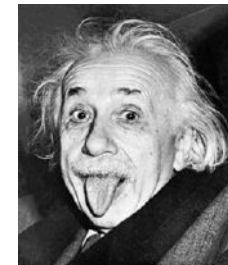
Iris van Zelst

<https://blogs.egu.eu/divisions/gd/>



Editors 2019-2020

- Iris van Zelst
- Grace Shephard
- Antoine Rozel
- Tobias Meier
- Diogo Lourenço
- Anna Gülcher
- Anne Glerum
- Luca Dal Zilio
- The Sassy Scientist



Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Guest authors 2019-2020

- Marzieh Baes
- Marie Bocher
- Irene Bonati
- Daniel Bowden
- Dan Bower
- Eva Bredow
- Gael Choblet
- Lorenzo Colli
- Nicholas Coltice
- Juliane Dannberg
- Caroline Dorn
- Brad Foley
- Kaustubh Hakim
- Colin Hardy
- Emilia Hernandez
- Charitra Jain
- Maria Koroni
- John Naliboff
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- Andrea Piccolo
- Adina Pusok
- Tobias Rolf
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- Nicholas Schliffke
- Stephan Sobolev
- Dave Stegman
- Bernhard Steinberger
- Paul Tackley
- Marcel Thielmann
- Martina Ulvrova
- Jamie Ward
- Jolanthe van Wijk
- Thilo Wrona

Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Some “statistics” of blog year 2019-2020

- 89 blog posts
- > 30,000 unique pageviews
- on average 200 unique pageviews per blog post
- worldwide readership

More blog statistics?

#SciComm via the European Geoscience Union Divisions’ blogs:
experiences from the editorial teams

<https://meetingorganizer.copernicus.org/EGU2020/EGU2020-10775.html>

Interested in contributing? Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Contribute to the blog!

- Submit a question to the Sassy Scientist by e-mailing thesassyscientist4real@gmail.com
- Write a guest blog post
- Become an editor!
- Become a Sassy Scientist columnist!

**I want *you*
in the blog
team!**



Interested in contributing?

Contact Iris van Zelst (Editor-in-Chief) – i.vanzelst@leeds.ac.uk



Division structure

No change
proposed except
for ECS
representative

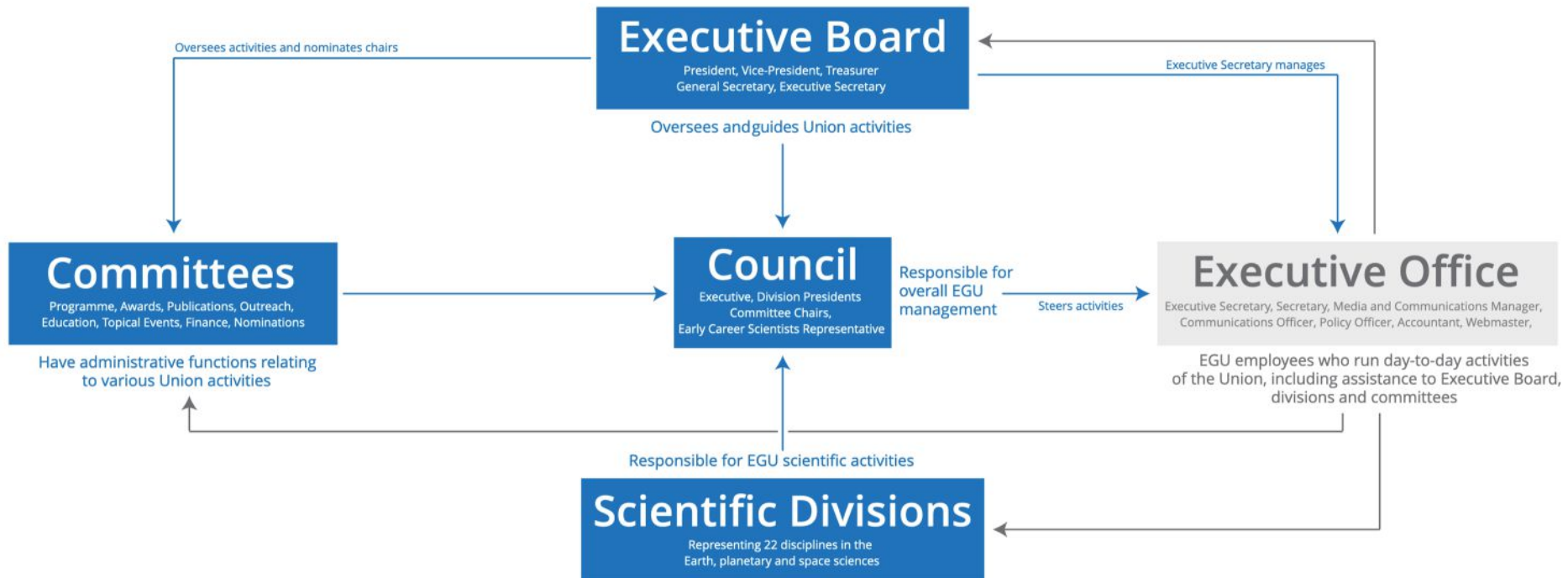
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	Hans-Peter Bunge Numerical geodynamics	bunge@lmu.de
	Paul Tackley Numerical geodynamics	gd@egu.eu
	Shun Ichiro Karato Observational geodynamics	shun-ichiro.karato@yale.edu
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Augustus Love Medal Chair	Jeroen van Hunen	jeroen.van-hunen@durham.ac.uk
OSPP Coordinator	Maelis Arnould	maelis.arnould@geo.uio.no
ECS Representative	Nicholas Schliffke	ecs-gd@egu.eu



Governance Review



Reminder: current EGU structure



2020/21 EGU Governance Review

Governance Review Panel:

Toby Rhodes (Independent Chair)

Ulrich Pöschl (Publications Committee Member, AS)

Raffaele Albano (outgoing ECS Representative, NH)

Susanne Buiter (outgoing Programme Committee Chair, TS)

Claudia Jesus Rydin (Chair, Equalities & Diversity Working Group)

Katja Fennel (Chair, Publications Committee, BG, OS)

Helen Graves (outgoing Division President, ESSI)

Dan Parsons (Division President, GM)

Giuliana Panieri (outgoing Division President, BG)

Chris King (Chair of Education Committee)

Philippe Courtial (EGU Executive Secretary)

Email: governancereview@egu.eu



EGU2020: Sharing Geoscience Online | May 2020

Meetings | Publications | Outreach | www.egu.eu

EGU Governance Review: *Objectives*

A governance review is an opportunity for the EGU to reflect on its governance arrangements in order to best serve the current and future needs of the organisation, the members, the scientific community and global concerns.

In particular, the governance review will:

- determine whether the governance processes and structures of the EGU are fit for purpose
- make recommendations for any changes to better serve the current and future needs of the EGU and its members

Objectives of the EGU Governance Review

To review the governance processes and structures of the EGU, and make recommendations for any changes to enable the organisation:

- to best deliver its [Mission and Vision](#)
- to best serve the current and future needs of the organisation and its members;
- to ensure EGU structures deliver appropriate scientific and professional diversity and representation amongst EGU committees and boards

Terms of Reference: The full EGU Governance Review Terms of Reference [is available to download here](#)

EGU Governance Review Scope: *Timescales & Contact*

Timescales

- The Governance panel will convene in late May 2020, and conduct their review over the following 9-12 months.
- The Governance Review will produce an interim report to the EGU Council in October 2020, and a final report with recommendations in January 2021.
- The Governance Review will report to EGU members at the 2021 EGU General Assembly. If any changes to EGU governance require EGU Members to vote, this will take place at the EGU General Assembly.
- Implementation of any agreed governance changes will take place following the 2021 EGU general assembly

EGU Governance Review Scope: *EGU Member Input*

EGU members may input their views to the Governance Review via their divisional representatives on EGU Council

EGU members may also contact the Governance Review Panel directly via email at:

governancereview@egu.eu



Meeting statistics, feedback and
ideas for the future



GA2020 statistics (as of 27 April 2020, 08:30)

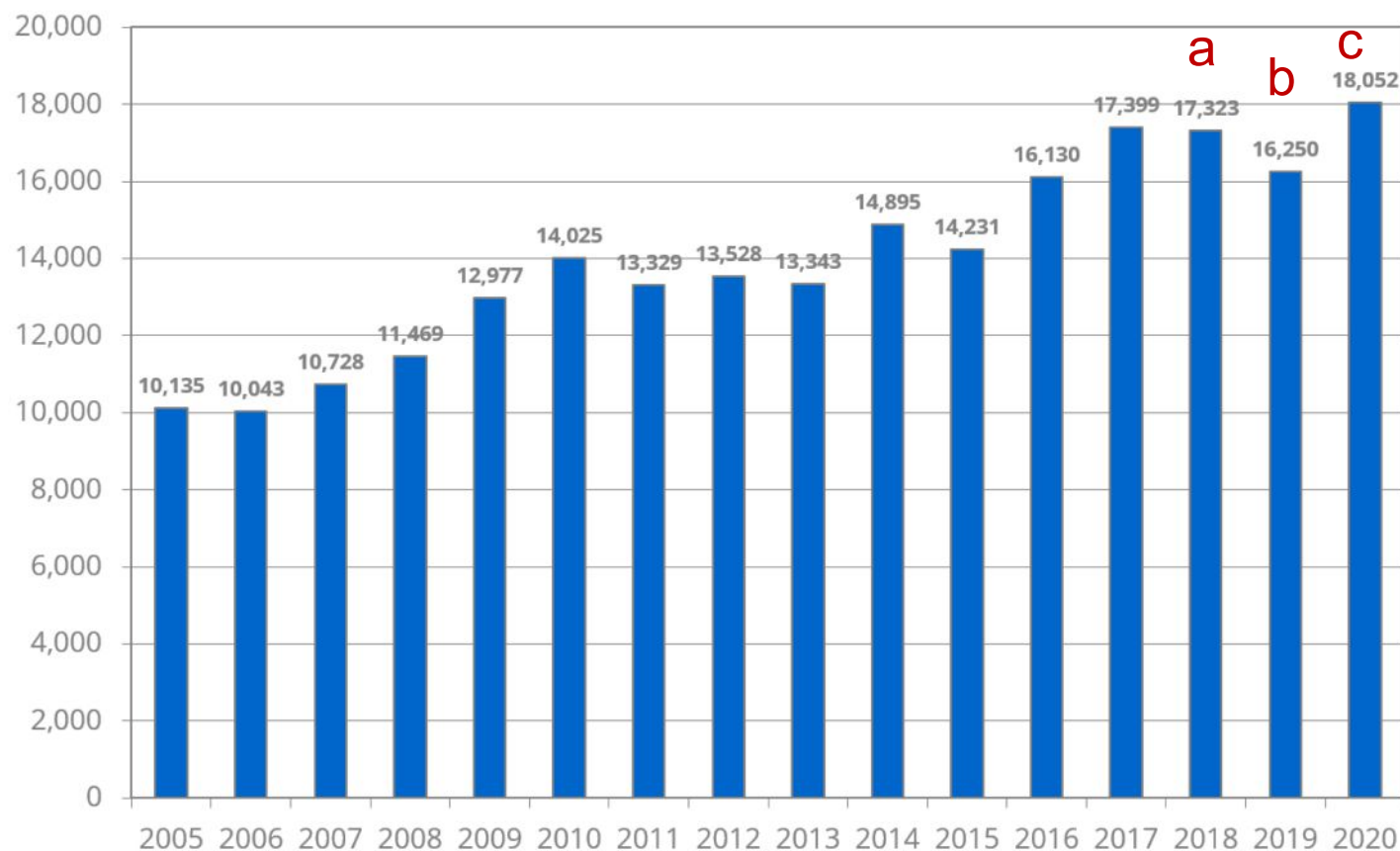
- 18,052 abstracts in programme | +11.1% relative to 2019
- 702 unique scientific sessions
- 440 out of 702 scientific sessions are co-organized (62.7%), thereof 37 ITS
- 6/88 short courses online

As of 7 May 2020, 07:30

- 10,710 presentation materials uploaded (/18033 abstracts)
- 4,827 comments to uploaded presentation materials received
- Median chat participation: 96 (range: 5 to 493)
- In GD: 1656 chat accesses from 1200 individual nicknames, 259 (/475) presentations uploaded, 86 comments



Abstracts in programme 2005 – 2020



- a) 2018: withdrawal of no-show abstracts
- b) 2019: one first-author abstract rule
- c) 2020: Physical GA cancelled 19 March; part of the GA brought online



Sharing Geoscience Online: New concept

- Online? Yes! Because it is EGU's responsibility to help minimise the impact of COVID-19 on scientific research and collaboration
- Pilot experiment (we would like feedback!)
- Free registration
- Our considerations:
 - Science submitted to the General Assembly 2020 can be presented and shared
 - All authors and conveners can participate, across different time zones
 - Sharing Geoscience Online is accessible (in terms of bandwidth, for anyone with hearing or visual difficulties)
 - The concept works for all presentation types: oral, poster and PICO



Sharing Geoscience Online in a nutshell

Our concept of Sharing Geoscience allows:

- Authors to upload presentation materials and receive feedback on those from 1 April to 31 May 2020)
- Conveners, authors and attendees to discuss abstracts, presentation materials and open questions during a live, text-based chat (4 – 8 May)
- Everyone to participate in Union Symposia, Great Debates, Short Courses, Networking, Division Meetings, #shareEGUart, Photo Competition and more
- EGU to gather experience with online activities and use these in plans for reducing the environmental impact of the General Assembly



Sharing Geoscience Online: New concept in very short time

- 16 March: Start developing concept for online activities
- 19 March: Cancelled physical General Assembly
- 23 March: First Sharing Geoscience Online webpages
- 31 March: All presentations turned to displays, rescheduled sessions to blocks of 30 displays
- 1 April: Open for upload of presentation materials and commenting
- 1 April: First FAQ page live
- 6 April: Webinar
- 8 April: SC plan
- 16 April: Open for upload of session materials
- 16 April: Division Meetings scheduled
- 21 April: 'how-to-use-the chat' pages
- This week: Chat video and test chat channels per programme group



GD led sessions

All sessions

PG abstract statistics

Active scheduled	475
Granted supports	None: 475 (100%) ESTS: 1 (0%) ECSTS: 8 (2%)
Presentations	Displays: 475 (100%)
Author identification specifics	ECS: 227 (48%)

Meeting abstract statistics

Active scheduled	18,054
Granted supports	None: 17,753 (98%) ESTS: 18 (0%) ECSTS: 283 (2%)
Presentations	Displays: 18,008 (100%) Orals: 46 (0%)
Author identification specifics	ECS: 9,618 (53%)

475 GD abstracts; Last year 404



GA 2021 timeline (provisional)

1 – 19 Jun 2020	Sub-programme structure (call-for-skeleton)
24 Jun – 15 Aug 2020	Public call for GDB and US
24 Jun – 11 Sep 2020	Public call-for-sessions, incl SC
16 Sep – 14 Oct 2020	Session programme finalization
14 Oct 2020 - not fixed	PC Meeting (online)
1 Dec 2020	Support application deadline
13 Jan 2021	Abstract submission deadline

Please submit proposals for EGU 2021 sessions!



EGU-2020 Sharing Geoscience Online feedback and ideas for the future

What could be improved if we need to do a virtual meeting again?

What would be the ideal form of EGU-2021?

- Same as 2019? Or modified in some way?
- Partly physical, partly virtual? If so, how?
- Fully virtual?

Feel free to email gd@egu.eu with additional feedback and
Fill in the survey:

<https://egu2020.eu/feedback>



Conferences



EGU Galileo conferences

- Address well-focused cutting-edge topics at the frontier of geosciences research.
- 3-5 days meeting for discussion and debate for about 100 participants.
- EGU provides comprehensive organizational support allowing organizing committees to focus on the scientific aspects.
- Aside from partly sponsoring the event, EGU is giving a deficit guarantee.
- **2 stage application process on-line.**



Topical meetings

EGU co-sponsors

- **conference series**,
 - Alexander von Humboldt Conferences
 - Ada Lovelace Workshops on Mantle and Lithosphere Dynamics
- **training schools**,

for the benefit of all scientists and with special attention to the needs of young scientists.

GD Meetings Calendar

<http://www.egu.eu/gd/meetings/>

2019 Ada Lovelace Workshop on Modelling Mantle and Lithosphere Dynamics

25-30 August
Certosa di Pontignano, Siena, Italy



Next Ada Lovelace Workshop : 2022



Publications



Publications

The EGU, through Copernicus Publications, publishes 19 peer-reviewed open access journals covering various topics of the Earth, planetary and space sciences.

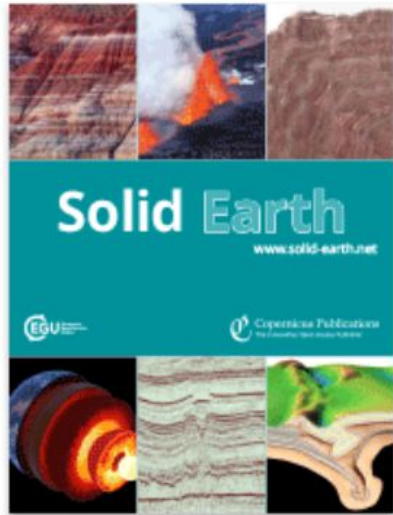
Solid Earth – EGU journal in geosciences,

Two-stage publications with public peer-review and interactive public discussions.

The discussion and peer-review of submitted papers are handled in the open access discussion forums (e.g., Solid Earth Discussions).

Final papers, upon acceptance, appear in the corresponding peer-review journals (e.g. Solid Earth).

Solid Earth is EGU's journal addressing topics of many divisions



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ARTICLE LEVEL
METRICS



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Advisory board: Sierd Cloetingh (chairman), Jean-Pierre Brun, Donald B. Dingwell, Bilal Haq, John Ludden, Hans Thybo & Trond H. Torsvik

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CWTS	SNIP 1.335
CWTS	IPP 2.81
SJR	SJR 0.779
SJR	Scimago H index 32
ISI	h5-Index 31

Definitions

Abstracted/indexed

- Science Citation Index Expanded

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- Tectonic plate interactions, magma genesis, and lithosphere deformation at all scales
- The evolving Earth surface: erosional, sedimentary, morphotectonic, and volcanic processes
- Core and mantle structure and dynamics
- Crustal structure and composition

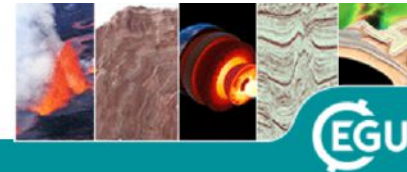
<https://www.solid-earth.net/>

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Crustal structure and composition

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- **Seismics, seismology, geoelectrics, and electromagnetics** | C. Krawczyk, U. Werban, M. Malinowski, T. Nissen-Meyer, and I. Bianchi
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- **Geodynamics, geodesy, gravity, and geomagnetism** | S. Buitert, J. Aubert, A. Davaille, T. Gerya, N. Gillet, M. Manda, and S. McClusky

Recent papers

27 Mar 2019

Actors, actions and uncertainties: Optimizing decision making based on 3-D structural geological models

Fabian Antonio Stamm, Miguel de la Varga, and Florian Wellmann

Solid Earth Discuss., <https://doi.org/10.5194/se-2019-57>, 2019

Manuscript under review for SE (discussion: open, 0 comments)

27 Mar 2019

The internal structure and composition of a plate boundary-scale serpentinite shear zone: The Livingstone Fault, New Zealand

Matthew S. Tarling, Steven A. F. Smith, James M. Scott, Jeremy S. Rooney, Cecilia Viti, and Keith C. Gordon

Solid Earth Discuss., <https://doi.org/10.5194/se-2019-62>, 2019

Manuscript under review for SE (discussion: open, 0 comments)

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Germany



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Norway



Joachim Gottsmann

Univ. of Bristol, Dep. of Earth Sciences
United Kingdom



Federico Rossetti


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CH-1205 Geneva
Switzerland







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Any other business?