# EGU 2022 Solar-Terrestrial Sciences (ST) Division Meeting Olga E. Malandraki

26 May 2022, 12:00-13:00



# European Geosciences Union

#### **AGENDA**

- 1. Approval of the 2021 minutes
- 2. Awards and Medals 2021
- 3. Medal Committees
- 4. vOSPP 2021
- 5. ST Division Organisation and Officers
- 6. ST Early Career Scientist Activities (Maxime Grandin)
- 7. ST Education and Public Outreach Update
- 8. ANGEO Update
- 9. 2022 GA/ST Scientific Programme
- 10. EGU 2023 and the Future
- 11. Any Other Business



# 1. Acceptance of the minutes of the ST Division Meeting 2021

https://www.egu.eu/st/reports/

and this year's Meeting Agenda



## 2. Awards and Medals 2022



#### 2022 Hannes Alfvén Medal

#### David J. McComas

The 2022 Hannes Alfvén Medal is awarded to David J. McComas for pioneering scientific contributions and technical achievements in solar-terrestrial sciences and in our understanding of the heliosphere and its interaction with the interstellar medium.

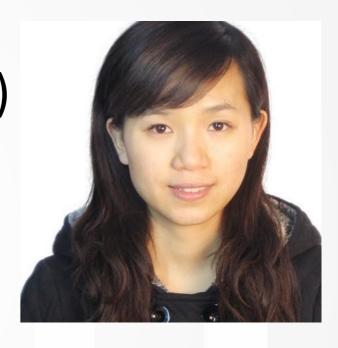


'Our Heliosphere and its Interstellar Interaction: A Solar Cycle of Global Observations and Discoveries'

# 2022 Arne Richter Awards for Outstanding Early Career Scientists (ST)

#### Chao Yue

The 2022 ST Arne Richter Award for Outstanding Early Career Scientists (ST) is awarded to Chao Yue for innovative contributions to magnetospheric physics, in particular, ring current dynamics and associated wave-particle interactions.



'Ion dynamics in the inner magnetosphere during Van Allen Probe Era'

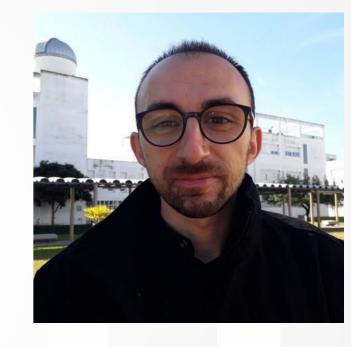
Friday, 27 May 2022, 13:55 - 14:05, Room D2



# 2022 ST Division Outstanding Early Career Scientist (ECS) Award

#### Victor M. S. Carrasco

The 2022 ST Division Outstanding Early Career Scientist Award is awarded to Víctor M. S. Carrasco for outstanding research in the field of space climate and solar physics.



"A Revised Collection of Sunspot Group Numbers: Context and Future Improvements"

Tuesday, 23 May 2022, 19:00-19:20, Room L1



# Invitation for Nominations for Awards and Medals

The community is urged to send in suggestions of strong candidates!

**Next Deadline for nominations: June 15** 

#### **Division level:**

- The Division Outstanding Early Career Scientists Awards
- The best nomination can be recommended for the Arne Richter Outstanding ECS Award
- The Division medals for mid-career scientists (mid career: before retirement) Hannes Alfven/Julius Bartels Medals
- Based on the size of the ST Programme Group compared to others, the decision was taken on EGU
  Council level to keep the two division medals for ST, but with one medal every year in an alternating
  fashion. This strategy already applied to other similar divisions e.g. PS, and EMRP divisions.
- 'Julius Bartels Medal' for 2023

#### **Union level:**

- Arne Richter Outstanding Early Career Scientists Awards
- Union Medals for senior scientists
  - ST Division (Planetary and space sciences): Jean Dominique Cassini Medal

Further details: https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/



## 3. Medal Committees



#### Julius Bartels Committee 2023

#### Julius Bartels (current committee):

Norma Crosby (Chair)

Georgia Tsiropoula

Masatoshi Yamauchi

Volker Bothmer

Yuri Shprits

#### **Proposed 2023 committee:**

Norma Crosby [CHAIR]

Georgia Tsiropoula

Masatoshi Yamauchi

Volker Bothmer

Yuri Shprits [OUT]

Quigong Zong [IN]



# 4. Outstanding Student Poster and PICO (OSPP) Award

Number of Participants in 2019: 39

2020: has been canceled

2021 : 55 (abstracts)



# ST 2021 Outstanding OSPP Award

Division	Abstracts	>=2 votes	>=3 votes	Awarded
ST	55	2	1	No award



#### 4. OSPP Award

#### **Specific Regulations for OSPP Contest 2022**

Since there are **only oral presentations** this year, all participants are eligible for the contest:

- > as the first and presenting author of the oral presentation
- ▶ either currently a BSc or MSc student or PhD candidate, or obtained their degree after the 1 January 2022.

[PC Overview]

#### vOSPP coordinator tool

The vOSPP coordinator tool is available from 23 April 2021. Thank you very much for your understanding.



# 4. OSPP Participation

Registered Posters

2016: 45

2017: 28

2018: 49

2019: 39

2020: canceled

2021 : 55 (abstracts)

2022: 97 (abstracts)

We need more judges!

And thanks to the conveners and judges for making this possible!



# 5. ST Division Organisation and Officers



# Solar-Terrestrial (ST) Division President

Olga Malandraki
For the period **2019-2023** 



ST Division Deputy President Emilia Kilpua (incoming ST Division President)





#### ST Structure and EGU principles

Division Officers are appointed by the Division
 President and approved in the Division Meetings

Programme Group Chair (Division President)
 Olga Malandraki until 2023



#### ST Scientific Officers

ST1 The Sun and Heliosphere

'Solar Physics': Manuela Temmer: confirmed for 2023

'Heliosphere': Olga Malandraki: confirmed for 2023



Yulia Bogdanova: confirmed for 2023

**ST3 Ionosphere and Thermosphere:** 

Dalia Buresova: confirmed for 2023









Thank you all for your active involvement in shaping the EGU Programme!



#### **ST Liaison Officers**

Publications:

Manuela Temmer: confirmed for 2023

OSPP Coordinator:

Chao Xiong [OUT]

Tarique Siddiqui [IN]: confirmed for 2023

Early Career Scientist (ECS) Representative
 Maxime Gardin: confirmed for 2023









#### ST Liaison Officers cont.

 News, Media, Education and Public Outreach, Webmaster Luke Barnard [OUT]
 Eleanna Asvestari [IN]: confirmed for 2023



Scientific Affairs, Foreign Affairs, Division Liaison
 Olga Malandraki: confirmed for 2023



# 6. ST Early Career Scientist (ECS) Activities

Maxime Grandin ST-ECS Representative (2021–2023)

Slides presented by E. Liliana Macotela

http://www.egu.eu/ecs/



## **ST-ECS Team**



**Maxime Grandin** University of Helsinki Postdoctoral researcher

ST-ECS Representative (2021-2023)ecs-st@egu.eu



E. Liliana Macotela

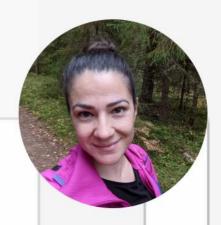
Postdoctoral researcher

University of Rostock

**Theresa Rexer** University of Tromsø Postdoctoral researcher



Florine Enengl University of Oslo PhD student



Eleanna Asvestari University of Helsinki Postdoctoral researcher



## **Mission and Activities**

The ECS Team organises events and activities with and for early-career scientists from the Division, both during the EGU General Assembly (GA) and throughout the year. Its aim is to increase the visibility of ECSs and provide them with opportunities for networking.

- "Campfire" event organised on 18 March 2022 via Zoom
  - First-ever such event organised in our Division
  - Main aim is to enable networking
  - Breakout rooms on mental health and funding opportunities
  - Networking time by research topics
  - About 35 participants, positive feedback
- Participation in brainstorming on the design of a training programme to involve ECSs in peer-reviewing
  - Lead: Sam Illingworth and Mathew Reeve
  - Aim to involve Copernicus journal Editors
  - Ongoing project in its early stages





# Mission and Activities (cont.)

#### Activities during EGU22:

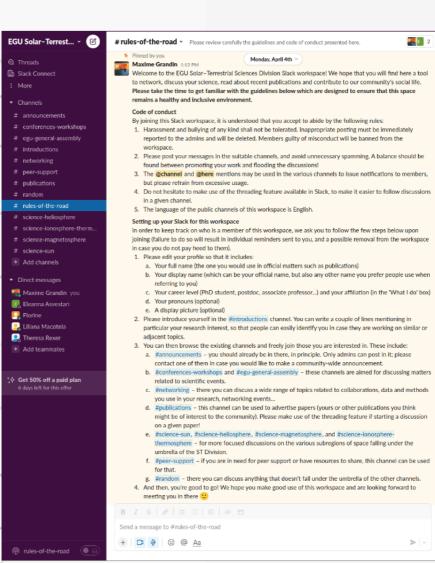
- Tuesday 24 May, 11:00–12:00 CEST: Networking event for online participants, on Gathertown
- Tuesday 24 May, 12:00–13:30 CEST: Networking lunch/picnic for onsite participants
- Thursday 26 May, 17:00–18:30 CEST: "Meet the Experts: The Future of Solar–Terrestrial Sciences" short course (SC4.12, hybrid format: room -2.61/62 and online)





# Plans for the Upcoming Year

- Organisation of two Campfire events (one in the autumn, one in spring)
- Strengthening of cooperation with the Blog and Outreach
   Team
  - Suggestions of blog posts and content for social media
  - Occasional joint meetings to brainstorm ideas
- Launch of a new Slack workspace for Division members (ECSs, but not only: "intergenerational" communication is crucial!) to network, advertise publications and scientific events, discuss science, seek peer support...
  - egu-st-networking.slack.com
  - Welcome to join!
- Proposal for a "Meet the Experts" short course at EGU23 and organisation of networking events during the GA
- Selection of the next ST-ECS Representative by EGU23





# SC4.12 – MEET THE EXPERTS: THE FUTURE OF SOLAR-TERRESTRIAL SCIENCES

# Thursday 26 May 2022 17:00–18:30 CEST (UTC+2) Room -2.61/62 in Vienna and Online

#### Assoc. Prof. Manuela Temmer



University of Graz
Expert in solar and
heliospheric physics

#### Prof. Xochitl Blanco-Cano



Universidad Nacional
Autónoma de México
Expert in solar wind
perturbations and
interactions with Earth's
magnetosphere

#### Prof. Ondrej Santolik



Institute of Atmospheric
Physics of the Czech
Academy of Sciences
Expert in waves in space
plasmas

Picture credits: ESA/NASA-T. Pesquet



## 7. ST Education and Public Outreach



#### **Our Mission**

Advocate community matters

Disseminate the latest science results

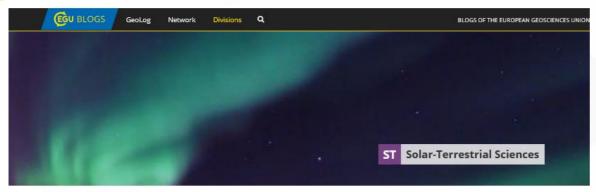
Promote ECS activities

Support professional development



## **Our primary media**

#### https://blogs.egu.eu/divisions/st/

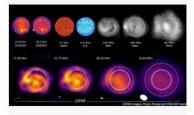


EGU Blogs » Divisions » Solar-Terrestrial Sciences

#### Solar-Terrestrial Sciences

## Resolving the very fine details of the Sun in low frequency radio

Peijin Zhang - May 24, 2022



The Sun is an active radio emitter, it produces radio emissions in a wide frequency range from kHz to THz. The solar atmosphere has a complex distribution of magnetic field, plasma density, and temperature. These different properties of the solar atmosphere will result in different radio emission features at

#### Initiation and Heliospheric Evolution of a stealthy solar eruption

Sanchita Pal + May 23, 2022

In the early 1970s, when Coronal mass ejections (CMEs), massive eruptions of magnetized solar plasma into interplanetary space, were first discovered, they were assumed to be always associated with the energetic solar phenomenon like solar flares, prominences, etc. With improved coronagraphic and multi-wavelength observational instruments, a class of CMEs emerging from the streamers was found and ... [Read More]

Events organised by the ST ECS Team during EGU22

#### ABOUT

Welcome to the blog of the Solar-Terrestrial Sciences (ST) Division of the European

Geosciences Union (EGU). This blog serves as a platform for the solar-terrestrial community to share news, events, and activities, as well as updates on the latest research. It is especially aimed at the EGU early career scientists and the general public. The blog is run by Luke Barnard who welcomes guest contributions. To submit a post, simply drop him an email.



#### SUBSCRIBE TO BLOG

Your email:

Subscribe

#### https://twitter.com/egu\_st





# Last year's activities

- > We kept the twitter account active
- > The above increased our following on twitter
- > Updated the blog page with several blog posts
- > Built a communication line with the ECS team



#### **Latest Science Results**

Our goal is to highlight recently published science from across the division.

EGU Blogs » Divisions » Solar-Terrestrial Sciences » Initiation and Heliospheric Evolution of a stealthy solar eruption

Initiation and Heliospheric Evolution of a stealthy solar eruption

by Dr. Sanchita Pal

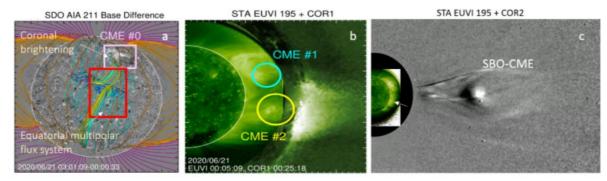


Figure 1: Solar counterparts of the SBO-CME and its preceding sequential eruptions. a) The coronal signature of CME #0 and the multipolar flux system originating CME #1 and #2. b) Coronal regions related to CME #1 and #2. c) The classic SBO-CME observed by off-limb coronagraph. The arrow denotes the coronal region related to the SBO-CME.

One example is a blogpost we featured on the paper recently accepted for publishing in Frontiers in Astronomy and Space Sciences. Pal et al. (2022) studied the evolution of a streamer blow out CME.

The results were also presented at EGU22, session ST1.10

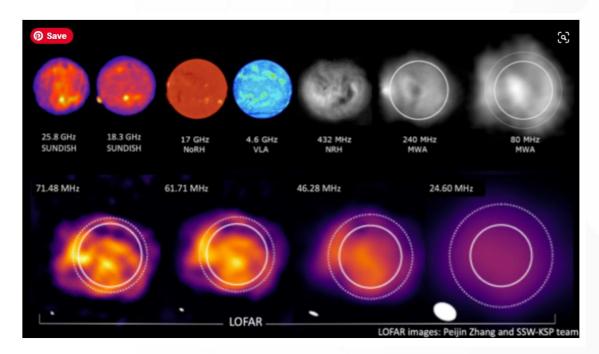


#### **Latest Science Results**

EGU Blogs » Divisions » Solar-Terrestrial Sciences » Resolving the very fine details of the Sun in low frequency radio

Resolving the very fine details of the Sun in low frequency radio

by Dr. PeiJin Zhang



Another recently accepted work for publishing in ApJ was highlighted on our division blog.

The work is by Zhang et al. (2022) and they performed quiet Sun observations in the frequency range of 20-80 MHz with the Low-Frequency Array at a higher spatial resolution than before. The aim is to study the fine details of the Sun.



### **Promoting the ECS**

EGU Blogs » Divisions » Solar-Terrestrial Sciences » ST-ECS networking campfire event

#### ST-ECS networking campfire event

Maxime Grandin · March 1, 2022 · Uncategorized · No Comments



Our community's future is on the hands of our early career scientists (ECS) and thus we built a communication link with the ECS team to help promoting their activities further through our blog.

EGU Blogs » Divisions » Solar-Terrestrial Sciences » Events organised by the ST ECS Team during EGU22

Events organised by the ST ECS Team during EGU22

Eleanna Asvestari, Maxime Grandin · May 18, 2022 · Uncategorized · No Comments



## **Moving forward**

- > We are growing the team to further promote the blog activity
- > We are bringing in more people from across the ST division
- > Thus, we are hoping to be more inclusive of the community and
  - spread the load of curating content.



#### The Team for 2022-2023



Eleanna Asvestari University of Helsinki Postdoctoral researcher

Head officer (2022-2023)



**Luke Barnard**University of Reading
Postdoctoral researcher



Pietro Zucca
ASTRON
Telescope Astronomer



Jia Jia
Norwegian University
of Science and
Technology
Postdoctoral
researcher



Theodosios
Chatzistergos
Max Planck Institute
for Solar system research
Postdoctoral researcher



Peijin Zhang
Rozhen National
Astronomical
Observatory
Postdoctoral
researcher



Jamey R. Szalay
Princeton University
Associate researcher



#### **Our Goals for 2022-2023**

- > Publish on average 1 blog post per month, 1000-1500 words.
- > Focus on topical ST science, but also provide space for community issues and professional development.
- Further improve the diversity of blog authors, to better represent our wide community.
- > Continue to directly solicit content.
- ➢ Be in a closer communication and collaboration with the ECS team of our division and promote their activities
- > We would also appreciate community suggestions of content they could provide, or authors we can approach.
- > Re-activate the facebook page



# Where to find us

Twitter: @egu\_st

Facebook: EGU Solar-Terrestrial Division

Blog: blogs.egu.eu/divisions/st



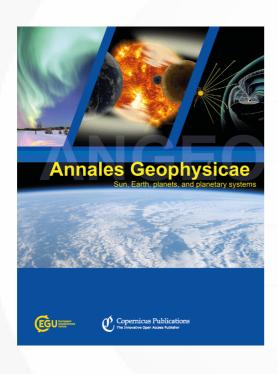
# 8. ANGEO Update

#### Annales Geophysicae

Sun, Earth, planets, and planetary systems An interactive open-access journal of the European Geosciences Union

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### Annales Geophysicae Editorial Board 2020 (newly invited editors in bold)

#### **Editors in Chief**

I. Daglis, C. Jacobi, I. Mann

#### **Sun and Heliosphere**

M. Haberreiter, M. Temmer, P. Wurz

#### Magnetosphere & Space Plasma Physics

- G. Balasis, I. Daglis, M. Gkioulidou, W. Li, V. Maget, A. Milillo, Y. Miyoshi,
- C. Mouikis, M. Palmroth, J. Rae, E. Roussos, N. Sergis, M. Usanova

#### Earth's lonosphere and Aeronomy

D. Buresova, A.G. Elias, K. Hosokawa, H. Liu, S. Milan, I. Paulino

#### Terrestrial atmosphere and its relation to the sun

- T. Giannaros, C. Jacobi, A. Kavanagh, V. Kotroni, P. Pisoft, M. Salzmann,
- G. Stober

#### **Terrestrial Planet Systems**

B. Foing, E. Palomba, S. C. Werner

#### Small bodies to dust

- D. Bockelee-Morvan, J. De Keyser, I. Mann, T. Mukai, K. Tsiganis, P. Wurz
- + 7 quest editors





#### Annales Geophysicae

Sun, Earth, planets, and planetary systems
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#### Special Issues

#### 2021

► From the Sun to the Earth's magnetosphere-ionosphere-thermosphere, 2021 Eds. Paulo Batista, Lucilla Alfonsi, Luis Vieira, João Monico, and Christoph Jacobi

#### 2020

 Special Issue on the joint 19th International EISCAT Symposium and 46th Annual European Meeting on Atmospheric Studies by Optical Methods, 2020

Eds. Juha Vierinen, Noora Partamies, Daniel Whiter, and Andrew J. Kavanagh

#### 2019

- 7th Brazilian meeting on space geophysics and aeronomy, 2019
   Eds. Igo Paulino, Inez Batista, Fabiano Rodrigues, Marcos D. Silveira, and Christoph Jacobi
- Satellite observations for space weather and geo-hazard, 2019
   Eds. M. Piersanti, L. Conti, X. Shen, and G. Balasis
- Solar magnetism from interior to corona and beyond, 2019
   Eds. V. Fedun, S. Shelyag, E. Scullion, A.K. Srivastava, G. Verth, and M. Temmer
- Vertical coupling in the atmosphere-ionosphere system, 2019
   Eds. P. Koucka Knizova, E. Yiğit, C. Arras, K. Baumgarten, W. Ward, and C. Jacobi



#### Annales Geophysicae

Sun, Earth, planets, and planetary systems An interactive open-access journal of the European Geosciences Union





Papers in	2021	2020
Submissions to ANGEOD	69	96
Published in ANGEO	68	93
Regular	60	82
Special Issues	8	14

Impact factor: 2020: 1.88 (new method of estimation)

(2019: 1.490 / 2018: 1.585 / 2017: 1.621 / 2016: 1.610 / 2015: 1.731 / 2014: 1.709 / 2013: 1676 / 2012: 1.518 / 2011: 1.842 / 2010: 1.620 / 2009: 1.648 / 2008: 1.660 /

2007: 1.427)





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Papers submitted Some reasons for decreasing nu	Some reasons for decreasing numbers	
2021 69 Covid-19 2020 96 Reduced number of SIs 2019 160 Change to 2-stage in January 20 2018 133 Move to open access system, an 2017 226 ACPs? 2016 213 Competitors publish for free (JAS SoPh) Other growing scientific fields (e.	nd increasing STP, ASR,	



# 9. 2022 GA/ST Scientific Programme



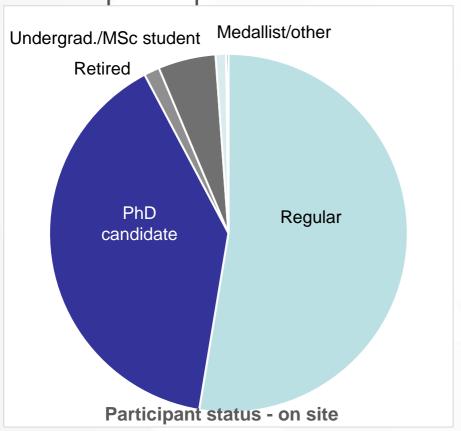
### **EGU22: Sessions and Abstracts, Schedule**

- 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
- 4 Union Symposia, 6 Great Debates
- 65 Networking and Community Events (excluding pop-ups), Townhall Meetings, Side Events, Splinter Meetings
- EGU Plenary 23 May 12:00 CEST (Room E1)
- Medal & Award celebration 25 May 17:30 CEST (Room E1)

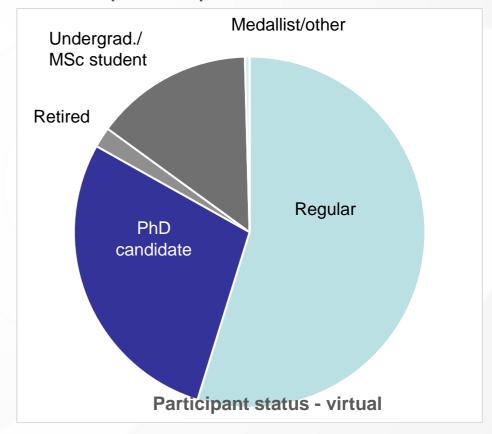


### **EGU22: Registration numbers and breakdown**

- 7307 on-site registrations
- On-site participants: 88 countries

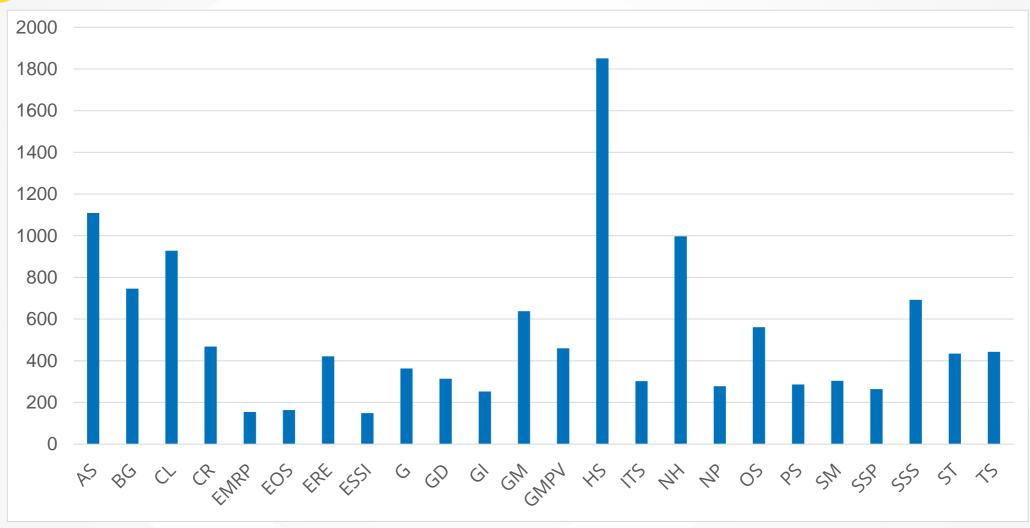


- 5904 virtual registrations (22/05 15:00)
- Virtual participants: 113 countries





### **EGU22: Abstracts per Programme Group**





### **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 and Inclusion (EDI) at EGU22**

- **NET1** "The Leadership" directed by Ili Baré film screening | 23 30 May
- US1 Changing the Faces of Leadership at the Geoscience Policy Interface | 26 May 15:10–16:40
   CEST
- **US3** The future of (geo)scientific conferences | 24 May 13:20–16:40 CEST
- **US4** Scientific neo-colonialism: what is it and why should you care? | 24 May 17:00–18:30 CEST
- GDB1 Towards an academic evaluation system that celebrates diversity of talent | 23 May, 10:20– 11:50 CEST
- **EOS3.1** Promoting and supporting equality, diversity and inclusion in the geosciences | 24 May 08:30–10:00 CEST
- SC2.5 ADVANCEGeo Workshop Strategies for Improving Workplace Climate in the Geosciences |
   24 May 13:20 14:50 CEST
- EDI Networking Event | 26 May, 19:00–20:00 CEST
- EGUpride icebreaker | 22 May, 19:00–21:00 CEST and EGUpride networking | 26 May, 18:00–19:00 CEST
- Did This Really Happen (DTRH) comics and EGU colouring book (part 2!)
- EDI Booth.... AND MORE!



#### **EGU22 outreach activities**

- **EGU Public Lecture**: "Geothermie Energie aus der Tiefe" (Geothermy energy from the depths) by Maria-Theresia Apoloner | Zentralanst. f. Meteorologie und Geodynamik (ZAMG) 24 May 18:00 at the Austrian Academy of Sciences and online.
- **EGU Mentoring**: 48 mentees for 20 mentors applications.
- Croome award lecture by Robin George Andrews 24 May 19:00 CEST Room E1
- Teaching/scientist pairing scheme



### **EGU22 Survey**

- Distribution:
  - via email to participants and EGU members after EGU22
  - links on social media & blog
  - egu22.eu website
- Survey live during EGU22 and until end of June
  - https://www.egu22.eu/feedback





## **EGUsphere - The EGU interactive community platform**

- EGUsphere, the not-for-profit open access preprint repository of the European Geosciences Union (EGU).
- Inclusive | Transparent | Interactive
- Find out how to post your conference abstract, presentation, or journal preprint in the Earth, space, and planetary sciences!

VISIT: https://www.egusphere.net/





### Why did you change the date of EGU22 from early April to late May?

This decision was made in January at the beginning of the omicron wave. There was considerable anxiety within the community about attending an in-person event in these conditions. Moreover, Austria limited the maximum event size to 2000 seated people (and even less standing), with no indication of when that rule would be relaxed.

Under these conditions, when the ACV proposed an alternative date (due to the cancellation of another conference) we decided to do this, in order to maximise the chance of having an in-person component to EGU22



### Will the date of the General Assembly change again in future?

This was the first time in the history of the EGU General Assembly that we have had to change the date and we sincerely hope it will be the last!

We are currently not announcing the date of the the 2023 General Assembly because we are still discussing with the ACV. Originally it was planned for early April but we hope to find again a date in May so as to be more resilient with regards to possible new Covid infection waves.



#### Why are there no posters or PICOs this year?

We originally had to provide a hygiene plan to the Austrian authorities. Including posters and PICOs in the programme appeared as a major risk in getting the plan approved.

Large numbers of non-seated people mixing in closed spaces are viewed as too much of a risk to our attendee's health, safety and well-being in the current pandemic situation.



 Austria relaxed the Covid regulations. Why are you maintaining the 2G and mask requirements?

The Austrian authorities announced the relaxation of the regulations after our deadline for on-site registration. Due to the requirements of our conference hygiene plan, it was not possible to re-open the registration. We felt that participants had signed up for an in-person event under certain conditions and we did not want to modify this after participants had registered. The health and safety of all participants is our primary concern. In addition, we were advised to maintain a 2G conference given the unpredictable nature of regulation changes.



### Learn how to engage with policymakers at EGU22

- **Short Courses:** Practical tips on you can more effectively engage with the policymaking process & share your expertise.
  - The role of scientific institutions in policymaking (Wed 8:30-10:00)
  - How to influence policy through engaging with Parliaments (Wed 13:20-14:50)
- Union-wide sessions: Examples of how science has been used in the policymaking process
- **EGU's Science for Policy Help Desk** will be open everyday from 11:00-12:00 at the EGU Booth to answer your policy-related questions!

See the full list of #SciPol sessions: egu.eu/5VBLHI



# **Keeping up with science for policy after #EGU22**

If EGU22 sparks your interest in policy, it doesn't have to end there!

- Work inside the European Parliament for a week via the EGU's Science Policy Pairing Scheme
- Join EGU's Science for Policy Hangouts (monthly webinars starting July)
- Attend the EGU's Science for Policy
   Event focusing on biodiversity inside the
   EU Parliament in September 2022
- Subscribe to EGU's Science for Policy
   Newsletter



Find more details on <a href="https://www.egu.eu/policy">https://www.egu.eu/policy</a> or get in touch via <a href="policy@egu.eu">policy@egu.eu</a> & on Twitter via @Chl0e\_Hill



# 10. EGU 2023 and the Future



# ST Medal/Award Nominations

- Deadline 15. June, 2022!!
- Evaluation purely based on scientific excellence
- Particular invitation for the *nomination of female researchers* 
  - Julius Bartels Medal
  - Outstanding Early Career Scientist Awards



### **General Assembly 2023**

Probably in May 2023

- decided not to be officially announced yet



# **Any Other Business**

Suggestions

Questions

**Comments** 

www.egu2022.eu/feedback

