

EGU 2024

Solar-Terrestrial Sciences (ST)

Division Meeting

Emilia Kilpua

18 April 2024, 12:45–13:45 (Room N2)



Meetings | Publications | Outreach | www.egu.eu

AGENDA

1. Approval of the 2023 minutes
2. Awards and Medals 2024
3. Medal Committees
4. OSPP 2024
5. ST Division Organization and Officers
6. ST Early Career Scientist Activities
7. ST Education and Public Outreach Update
8. ANGIO Update
9. 2024 GA/ST Scientific Programme
10. EGU 2025 and the Future
11. Any Other Business

1. Acceptance of the minutes of the ST Division Meeting 2023

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

and this year's Meeting Agenda

2. Awards and Medals 2024

2024 Hannes Alfvén Medal

Sandra Chapman

The 2024 Hannes Alfvén Medal is awarded to Sandra Chapman for her for her pioneering work and leadership in advancing our understanding of space plasma physics in the solar system and beyond.

‘Multiscale matters: when coupling across multiple scales drives the dynamics of solar system plasmas’

Tuesday 16 April 14:35-15:05, Room E2



Sandra Chapman
Professor of Physics at
University of Warwick, UK



2024 Division Outstanding Early Career Scientist Award

Erika Palmerio

The 2024 Division Outstanding Early Career Scientist Award to Erika Palmerio for her outstanding research in analysing complex solar transients and their space weather effects.

‘Analysing CME observations and simulations with multi-spacecraft techniques’

Monday 15 April 16:45-17:00, Room L1



Erika Palmerio
Research Scientist
Predictive Science Inc.



Invitation for Nominations for Awards and Medals

The community is urged to send in suggestions!

Deadline **15 June 2024** - <https://www.egu.eu/awards-medals/nominations/>

Division level:

- **Early career scientists:** Division Outstanding Early Career Scientists (ECS) Awards
- **Mid-career scientists:** 1) **Julius Bartels Medals** (2025, 2027, ...), 2) Hannes Alfvén (2026, 2028, ...)

Union level:

- **Arne Richter Outstanding ECS award** (best nomination from the division award recommended here)
- **Jean Dominique Cassini Medal:** senior scientist

<https://www.egu.eu/awards-medals/proposal-and-selection-of-candidates/>

	Division & Union medals	ECS awards
Nomination letter	1 page	½ page
Curriculum vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letter	3-5 (max 1 page)	

early career: highest degree received since max 7 years*
 mid-career: before retirement
 senior: exceptional international standing in planetary and space sciences, before or after the retirement

Nominators must be EGU members, no self-nominations

*<https://www.egu.eu/awards-medals/ecs-definition/>

3. Medal Committees



Julius Bartels Medal Committee 2024

Current committee

- Norma Crosby (CHAIR)
- Volker Bothmer
- Masatoshi Yamnauch
- Georgia Tsiropoula
- Quigong Zong



Proposed 2024 committee

- Hermann Opgenoorth (CHAIR)
- Volker Bothmer
- Masatoshi Yamnauch
- Erika Palmerio
- Quigong Zong

APPROVAL

4. Outstanding Student Poster and PICO (OSPP) Award

OSPP rules & statistics

- Normally awarded for PICO or poster presentations
- Candidates must be
 - first and presenting authors of the presentation
 - currently a BSc or MSc student or PhD candidate, or obtained their degree after the 1 January 2024

We need more judges!

Thanks to the conveners and judges for making this possible!

OSPP 2023 winners



Artem Smirnov

Doctoral Candidate at GFZ German Research Centre
for Geosciences.

“Neural network model of Electron density in the
Topside ionosphere (NET)”

OSPP 2023 winners



Veera Juntunen

PhD Candidate at the University of Oulu, Finland

“Influence of geomagnetic activity on the wintertime electricity consumption in Finland via Northern Annular Mode”

5. ST Division Organisation and Officers



Solar-Terrestrial (ST) Division President

Emilia Kilpua
For the period 2023-2025



ST Division In-Coming President
Alexis Rouillard 2025-2027



Solar-Terrestrial (ST) Division President

Thanks Olga for your service!!
Olga Malandraki



ST Structure and EGU principles

- Division Officers are appointed by the Division President and approved in the Division Meetings
- Programme Group Chair (Division President) Emilia Kilpua until 2025

ST Scientific Officers

- **ST1 The Sun and Heliosphere**

‘Solar Physics’: Manuela Temmer: confirmed

‘Heliosphere’: Olga Malandraki: confirmed

- **ST2 Magnetosphere:**

Yulia Bogdanova: confirmed

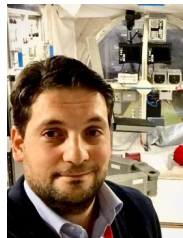
- **ST3 Ionosphere and Thermosphere:**

Dalia Buresova: confirmed

- **ST4 Space Weather:**

Guram Kervalishvili: confirmed

Emilia Kilpua: confirmed



APPROVAL

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

ST Liaison Officers

- **Publications**

Manuela Temmer: confirmed



- **OSPP Coordinator**

Veera Juntunen: confirmed



- **Early Career Scientist (ECS) Representative**

Liliana Macotela: confirmed



- **News, Media, Education & Public Outreach, Webmaster**

Eleanna Asvestari: confirmed



- **Scientific Affairs, Foreign Affairs, Division Liaison**

Emilia Kilpua: confirmed

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6. ST Early Career Scientist (ECS) Activities

Liliana Macotela
ST-ECS Representative

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

ST ECS Team: 2023 - 2025

ST ECS Rep



Liliana Macotela
Senior Researcher
Norwegian Research Centre
Norway



Juliana Jaen
PhD student
Leibniz-IAP
Germany



Andreas Wagner
PhD student
U. of Helsinki
Finland



Jia Jia
Scientist Researcher
NTNU
Norway

ST ECS Co-Rep

Veronika Haberle
Conrad Observatory
GeoSphere Austria
Austria



Chukwuma Anoruo
PhD student
U. do Vale do Paraiba
Brazil



Maxime Grandin
Postdoc
U. of Helsinki
Finland



Eleanna Asvestari
Liaison between the
ST ECS and blogging
team

Mission

- *The ST ECS Team organises events and activities with and for ECSs, both during the EGU GA and throughout the year. Its aim is to increase the **visibility** of ECSs and provide them with opportunities for **networking***
- *As part of the ECS Rep Team, we are keen on developing ECS **collaboration** opportunities not only within the division but also with other divisions*

Activities during the past year

Campfires: online events

Autumn 2023



A Campfire event organised by
the EGU Solar-Terrestrial Division ECS team

Time management strategies for research productivity

Invited Speaker Prof. Corwin Wright
University of Bath, UK

Friday 27 October 2023
14:00 CEST (UTC+2)

The event will conclude with a networking session

14 participants

Spring 2024

A Campfire event organized by the EGU Solar-Terrestrial Division ECS team

How to successfully apply for research fellowships



Invited Speaker:
Dr. Mateja Dumbović
University of Zagreb, Croatia

Friday 22 March 2024
14:00 CET

The event will conclude with a networking session

47 participants

Activities during the past year

Early Career Scientist Reps - teamwork with the Union ECS Rep

Initiatives

- **ECS Rep WGs**
- Integration with EGU Committees
- Skill-Building WS
- Targeted Mini-Labs
- Community Drives
- Pre-GA Planner WS
- GA Activities:
 - Short courses
 - **Great debates**
 - **Networking**

February meeting



Source: EGU

Activities during EGU GA

ST ECS Drinks: icebreaker

Sun, 14. 15:00 – 18:00 hr.



Foto: Eleanna A.

ST ECS Lunch-Picnic

Mon, 15. 12:30 – 13:30 hr.



Foto: Eleanna A.

Activities during EGU GA

ST ECS Dinner

Wed, 17. 18:15 – 21:30 hr.

**Meet the
“ST ECS Team”**

Tue, 16. 17:00 – 18:80 hr.



Including ECS with different timetables

Beginning of the week, to build bonds

Future activities

New ST ECS members: from 2024



Mashao Dakalo
Postdoc
U. of Lancaster
UK



Ezgi Gülay
PhD student
U. of Helsinki
Finland



Golekamang Thaganyana
Postdoc
U. of Bath
UK



Chaitanya Sishtla
PhD student
U. of Helsinki
Finland



Ajeet Maurya
Assistant Professor
BBAU, Lucknow
India



Shreedevi P. R.
Postdoc
U. of Nagoya (ISEE)
Japan

Plans for the upcoming year
(ST ECS Team + new members)

- 2 campfires
 - Autumn 2024
 - Spring 2025
- EGU25 activities
- Selection of new ST ECS Rep

ST ECS Team: 2024 - 2025

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ST ECS Rep
Liliana Macotela



Chaitanya Sishtla



Juliana Jaen



Andreas Wagner



Jia Jia



Ajeet Maurya



Mashao Dakalo



Ezgi Gülay



Golekamang Thaganyana



ST ECS Co-Rep
Veronika Haberle



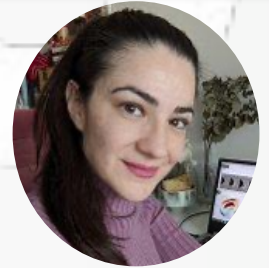
Shreedevi P. R.



Chukwuma Anoruo



Maxime Grandin



Eleanna Asvestari

Outreach and Communication

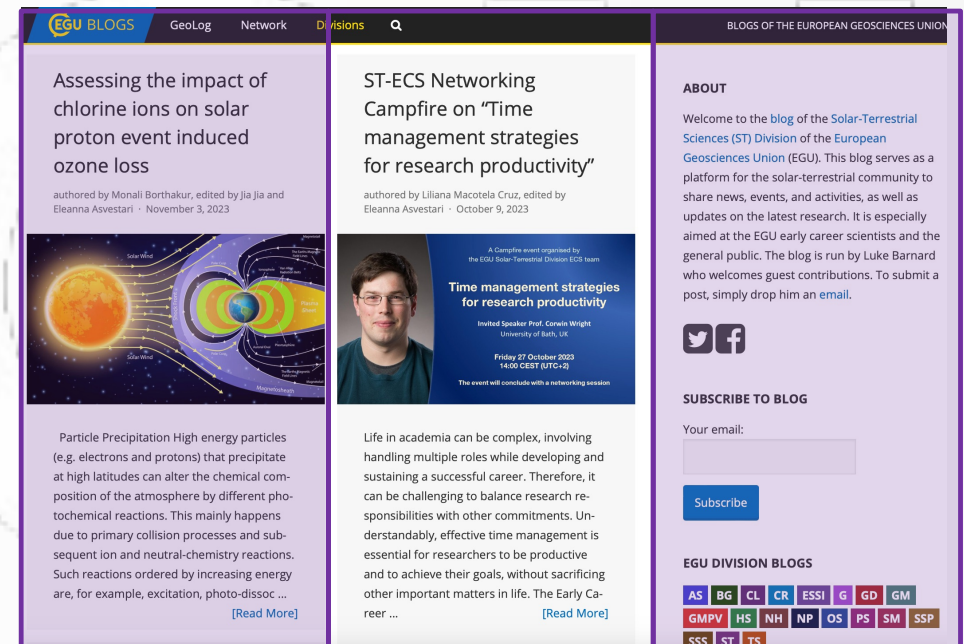
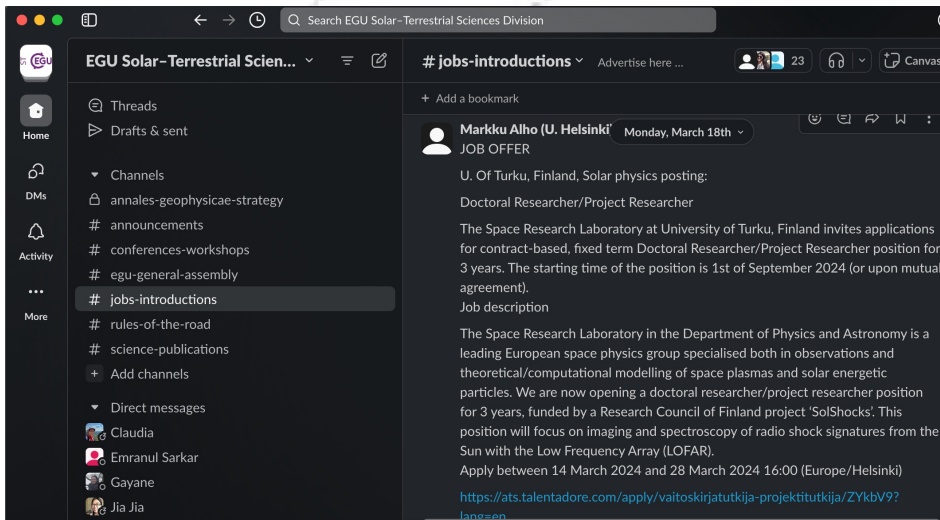
Slack workspace

166 members

EGU ST Blog and social media



Eleanna Asvestari



- X (Tweeter)
- ST-ECS mailing list

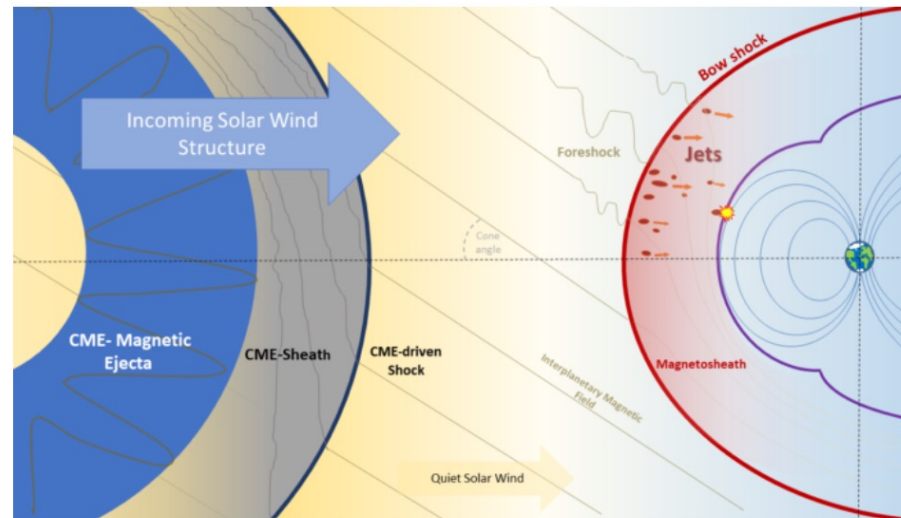
7. ST Education and Public Outreach

Eleanna Asvestari

Updates from last year

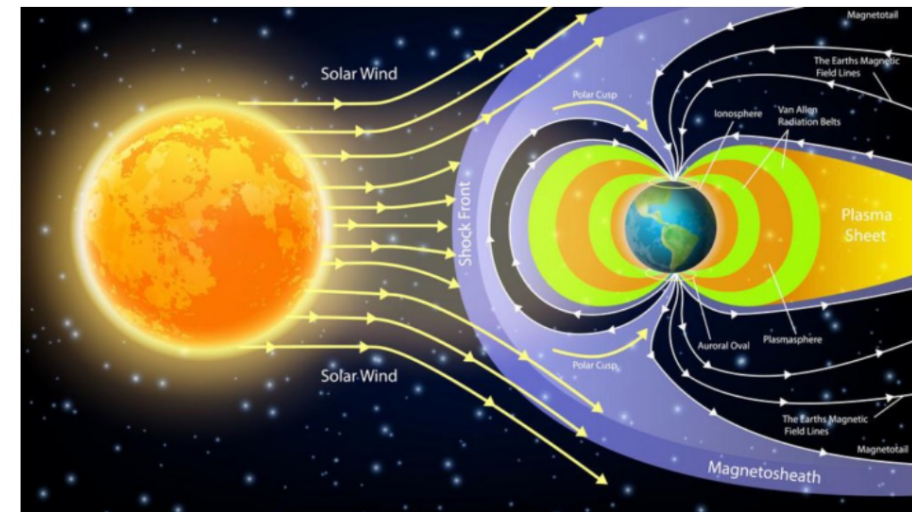
Exploring Magnetosheath Jets and their dependence on Solar Wind structures

authored by Florian Koller, edited by Eleanna Asvestari · June 13, 2023 · Science Posts · No Comments



Assessing the impact of chlorine ions on solar proton event induced ozone loss

authored by Monali Borthakur, edited by Jia Jia and Eleanna Asvestari · November 3, 2023 · Science Posts · No Comments



More diverse scientific content covering different areas of research in our division.

Updates from last year

ST-ECS Networking Campfire on “Time management strategies for research productivity”

authored by Lilliana Macotela Cruz, edited by Eleanna Asvestari · October 9, 2023 · ECS news & events · No Comments



Events organized for early career scientists (ECS) by the ST-ECS Team during EGU24

Lilliana Macotela · April 14, 2024 · ECS news & events · No Comments

The EGU General Assembly is around the corner, and we would like to advertise the events the Early-Career Scientist (ECS) Team of our Division have been preparing to create networking opportunities for ECSs.

Solar-Terrestrial ECS Drinks: preGA Icebreaker

Get-together for all ST ECSs before the opening reception. We're meeting up at 15:00 hours in front of the entrance of the name badges collection area. From there and if the weather allows, we move to Copa Beach (near the venue). Later we join the opening reception. Feel free to bring your drinks and snacks. There is also an option to buy drinks at Copa Beach.

Location: Copa Beach

Date: Sun 14 Apr. 15:00 – 18:00 CEST

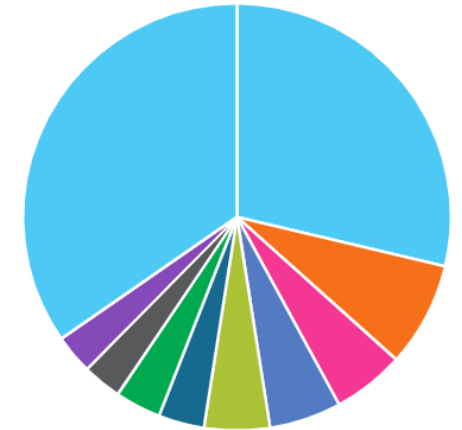
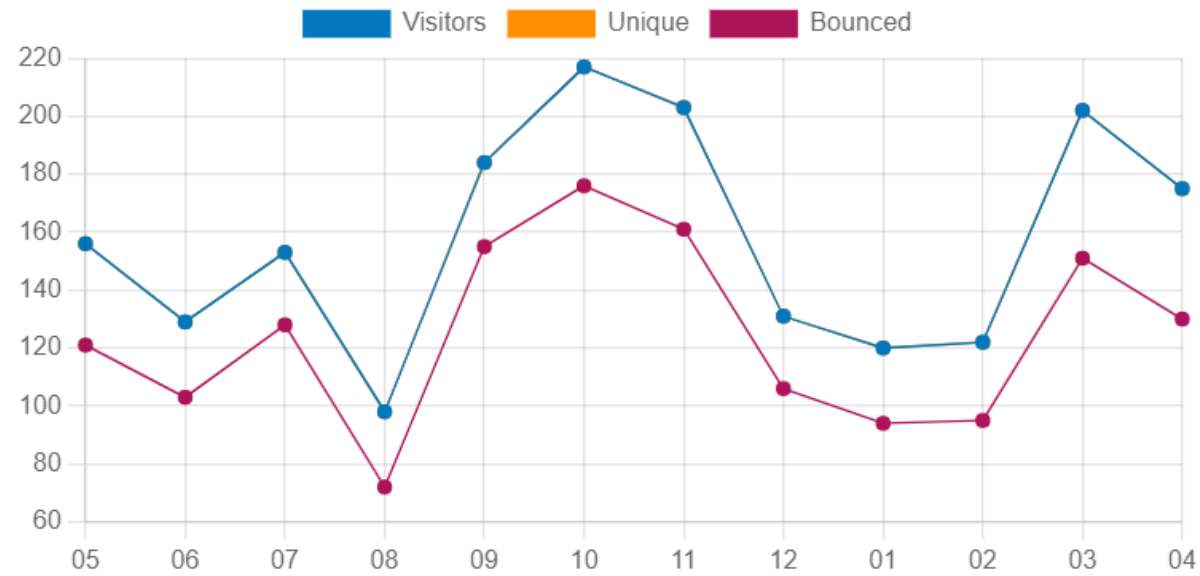
Solar-Terrestrial ECS Picnic

Join the ST ECSs community for an informal lunch to get to know other fellows, network, get tips for a successful week, and mingle with some experts. For those in multidisciplinary topics, there will be an option to interact with EMRP and PS ECSs. In case of good weather, the picnic will be at Donaupark. In case of bad weather, the picnic will be at the EGU networking zone (Suite C). In any case we will meet at the X4 foyer at 12:30 where you can identify us

Provide space to promote the activities organised by the Early Career Scientists team

Some statistics

Visitors (last 12 months)



Country	Unique	Percent
United States	58	28.71%
United Kingdom	16	7.92%
India	11	5.45%
Norway	11	5.45%
Switzerland	10	4.95%
Australia	7	3.47%
Canada	7	3.47%
Belgium	6	2.97%
France	6	2.97%
Others	70	34.65%

Vision



Team

- Expand the team to enable producing more material that has a wider scope and is engaging.
- Fair share of responsibilities and circulation of tasks.
- Build a fluid team that allow for flexibility.

Blog

- Release 2 blogposts every month that are science focused and are written by guest authors/editors.
- Release 2 blogposts every month that are community related and are written by main team or guest editors.

Social media

- Maintain Twitter/X.
- Revive facebook.
- Start a LinkedIn and a Reddit account to increase visibility and engage with a wider audience.
- What other platforms does the community engage with?



Editors

Keep a close eye on new and interesting publications.

Contact the author of the paper to solicit a blogpost (e-mail template TBS).

Follow up with the authors who agreed.

Proof read the blogpost the author wrote.

Send the final draft to the editor in chief for publication.



Authors/ Guest Authors

They are preparing a blogpost from any of the categories defined by the blogging team.

Creates a series of blogposts based on a theme of their choice that can be published as a mini-series.

They do not have to be regular and attend often.

Agree with the chief editor and the blogging team on the theme and schedule of posts.

They have direct access to make a post which an editor will moderate.

Blogging themes

Blogposts based on recent paper publications

Monthly nuggets of recent publications

The perks of: Modelling / Data analysis / observations tool development

Dedicated series on space weather models & tools

Field trips/ Instrument Development

Space talks/In the spotlight: Interviews with prominent or upcoming scientists

Being an EDI in ST (Sharing Experiences)

Public outreach and Citizen Science in ST

Conference and Workshops round ups

Dedicated posts on "Theme Day of the month"



3-month planning strategy

Months 1-3

- As detailed as possible
- Clear format of each post
- Defined target audience
- Ideas for images & illustrations

Months 4-6

- Guest editor blog topics
- Planning of needed illustrations
- Themed blogs for special month dates

Months 7-9

- Topics linked to big events

Months 10-12

- Seasonal topics / Experimental ideas we didn't try before

The editorial team 2024-2025



Eleanna Asvestari

University of Helsinki
Academy Research fellow

*Head officer
(2022-2025)*



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

UCAR
Postdoctoral
researcher

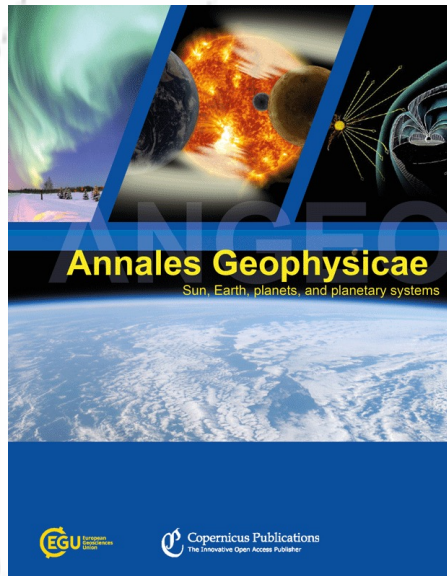
8. ANGEO Update



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 2022 (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

O. Allanson, G. Balasis, I. Daglis, M. Gkioulidou, A. Halford, C. Katsavaris, E. Kronberg, W. Li, V. Maget, A. Milillo, Y. Miyoshi, C. Mouikis, M. Palmroth, J. Rae, E. Roussos, I. Sandberg, N. Sergis, M. Usanova

Earth's Ionosphere and Aeronomy

J. Berdermann, D. Buresova, C. Borries, A.G. Elias, K. Hosokawa, I. Paulino, E. Schmölter, V. Wendt

Terrestrial atmosphere and its relation to the sun

T. Giannaros, C. Jacobi, A. Kavanagh, P. Pisoft, G. Stober

Terrestrial Planet Systems, Exoplanet Systems

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

Small bodies to dust

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

+ 5 guest editors



Special Issues

2023

- ▶ [Special issue on the joint 20th International EISCAT Symposium and 15th International Workshop on Layered Phenomena in the Mesopause Region, 2023](#)
Eds. Andrew J. Kavanagh, Juha Vierinen, Daniel Whiter, Noora Partamies, Axel Steuwer, and Hiroatsu Sato

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. Yijit, C. Arras, K. Baumgarten, W. Ward, and C. Jacobi

Papers in	2023	2022	2021
Submissions to ANGEOD	60	48	69
Published in ANGEOD	37	46	68
Regular	33	40	60
Special Issues	4	6	8

Impact factor 2023, JIF: 1.9

5-year JIF: 1.8

Papers submitted

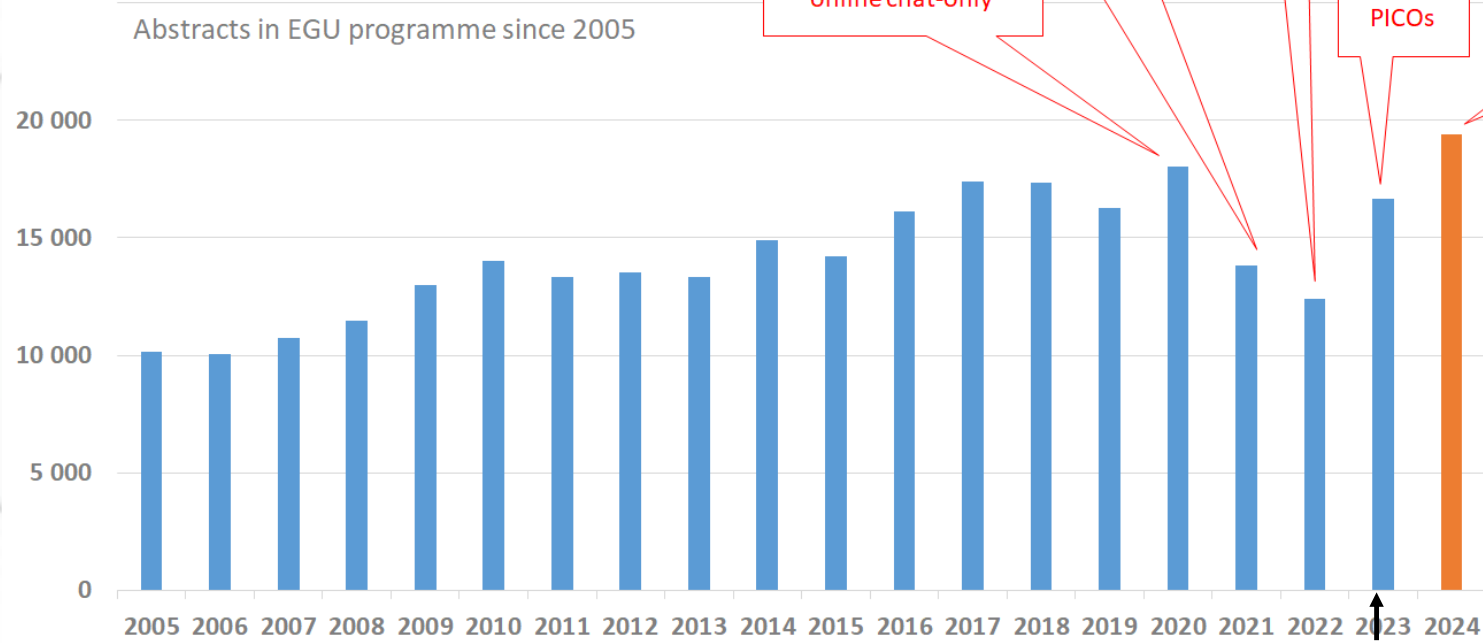
Some reasons for lower numbers

2023	60	Covid-19
2022	48	Reduced number of SIs
2021	69	Change to 2-stage in January 2018?
2020	96	Competitors publish for free (JASTP, ASR, SoPh...)
2019	160	
2018	133	Commercial competitors publish extremely fast
2017	226	
2016	213	Other growing scientific fields (e.g. planets...)

- submissions are published so there is a reference - and it is citable
- the openness makes the review process more transparent, and fair
- it is open access
- you do have to pay but it is not commercial

9. 2024 GA/ST Scientific Programme

Number of Active Abstracts 2005-2023



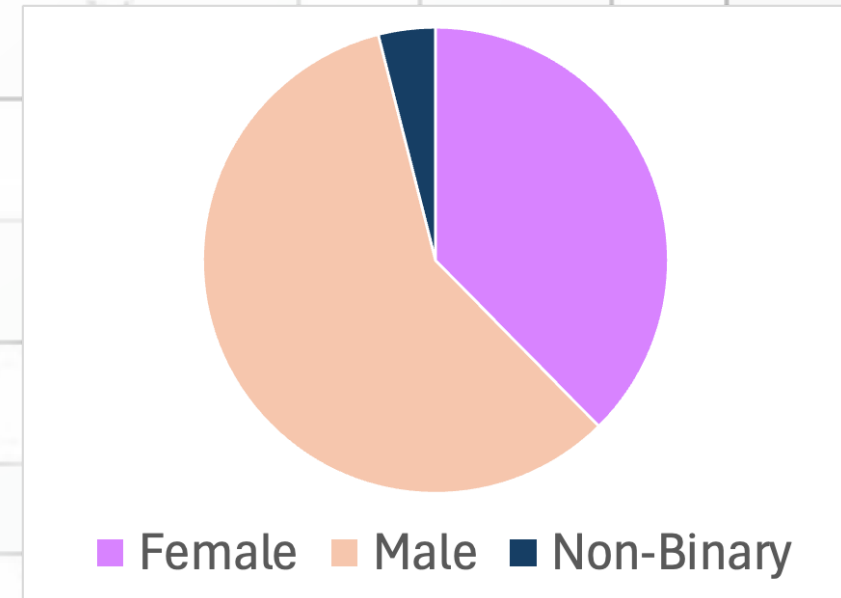
19,319
active
scheduled
abstracts

recovered from covid

EGU23 Registration Statistics

- 19,319 active scheduled abstracts (2023: 16,604)
- 16,746 paid registrations* (2023: 16,319)
- 8% of total participants registered for **virtual participation** (2023: 13%)
- 37% of onsite and 50% of virtual participants are **PhD candidates, MSc or undergraduate students**
- 2% of registered onsite and 24% of online participants are from **low- & lower-middle income countries** (2023: 5% and approx. equally distributed onsite & virtual participation)

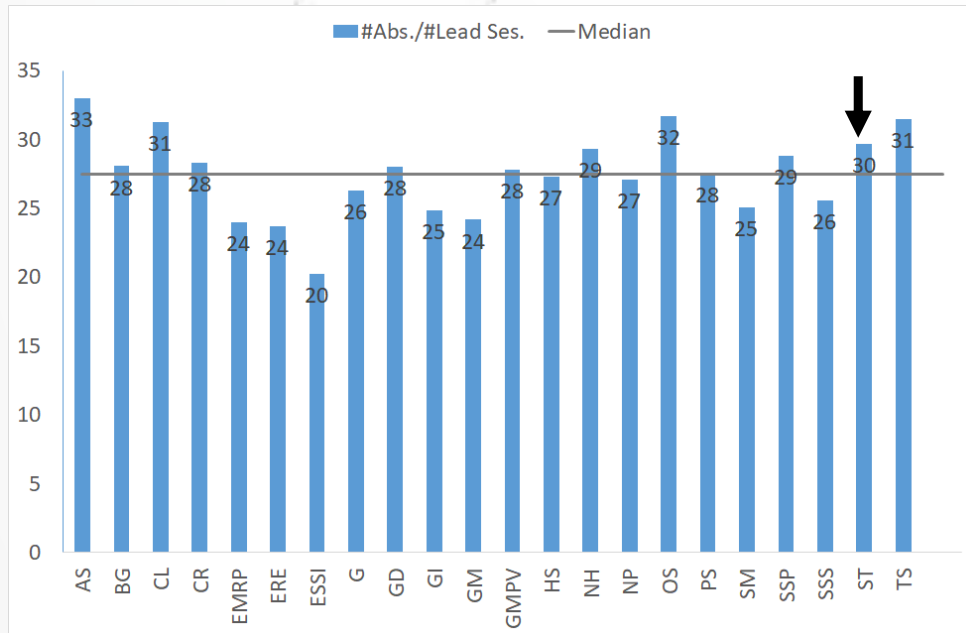
*50% of virtual participants benefitted from free registration, e.g. undergraduates, low income countries



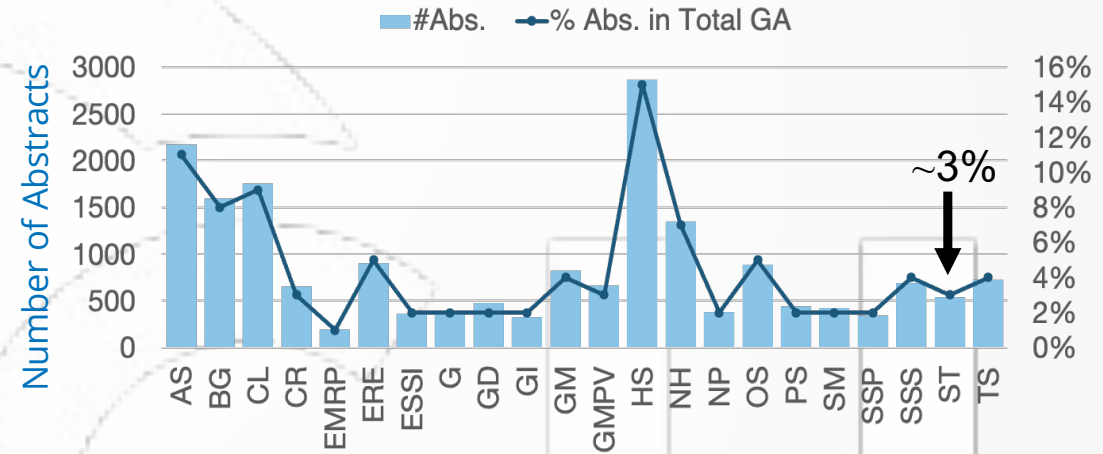
EGU24 Session Statistics

- **1,025 active sessions** (+11% EGU23):
 - 675 division-led sessions, of which 42 are ITS sessions
 - 17 Education and Outreach Sessions (EOS) + GIFT workshop
 - 61 Short Courses + 2 Artist in Residence workshops
 - 39 Medal and Award Lectures
 - 6 Union Symposia and 10 Great Debates
 - 152 Townhall & Splinter meetings scheduled
- **ECS Networking, Science for Policy, and EDI Committee events**

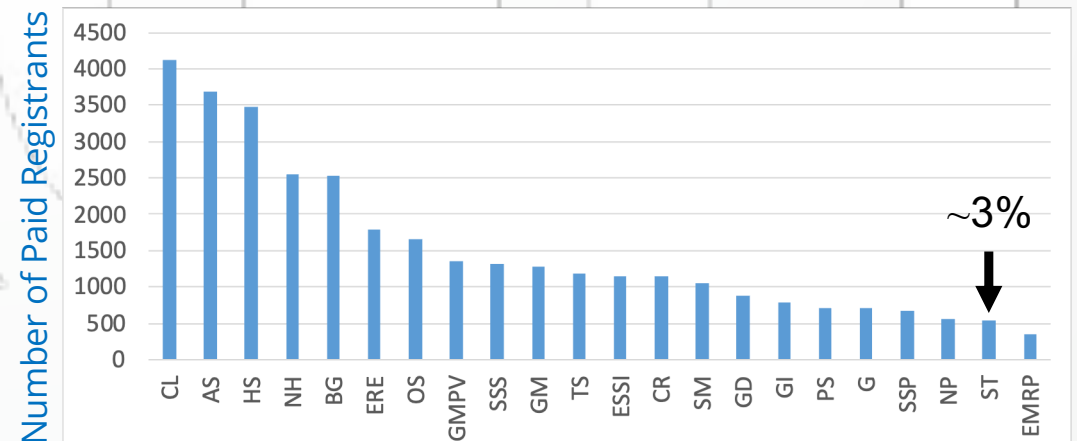
Abstracts per (lead) session in each Programme Group



Abstracts per Programme Group



EGU Division Affiliation of Paid Registrants



Council news

- **Geosciences Information for Teachers (GIFT) workshop** allow secondary / primary school teachers to upgrade their knowledge in geosciences (www.egu.eu/education)
- **Several Art-Science related activities**
- **Stop by the EGU Gather Town**
- EGU encourages session **co-sponsoring** by other colleague organizations as a means of strengthening ties & encouraging collaboration (co-conveners from both organizations)
- EGU Topical Events Committee call for **Training School** applications for financial support: 6 May - 17 June, 2024 (www.egu.eu/meetings/training-schools)
- **Science Policy Session** at every day at EGU 12:00 – 13:00 at the EGU Booth & subscribe for their monthly newsletter

Reminders & Discussion items

- Please leave your feedback to EGU! (link at the egu24 main page)
- Session propositions: when to merge?
- Nominate candidates for EGU Awards & Medals!
- AOB?

Head on over to the EGU Booth!

- Learn about EGU activities
- Meet members of the EGU Council & Committees
- Cast your vote for the photo competition
- Browse through EGU merchandise... and more!



**Hope you have had fun and enjoy
rest of EGU General Assembly
2024 Vienna, Austria & Online!!**



Meetings | Publications | Outreach | www.egu.eu