

# Atmospheric Sciences (AS) 2024 Division Meeting

European Geosciences Union

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Philip Stier (President), Athanasios Nenes (Deputy President)

EGU24 General Assembly, Vienna and online | 14–19 April



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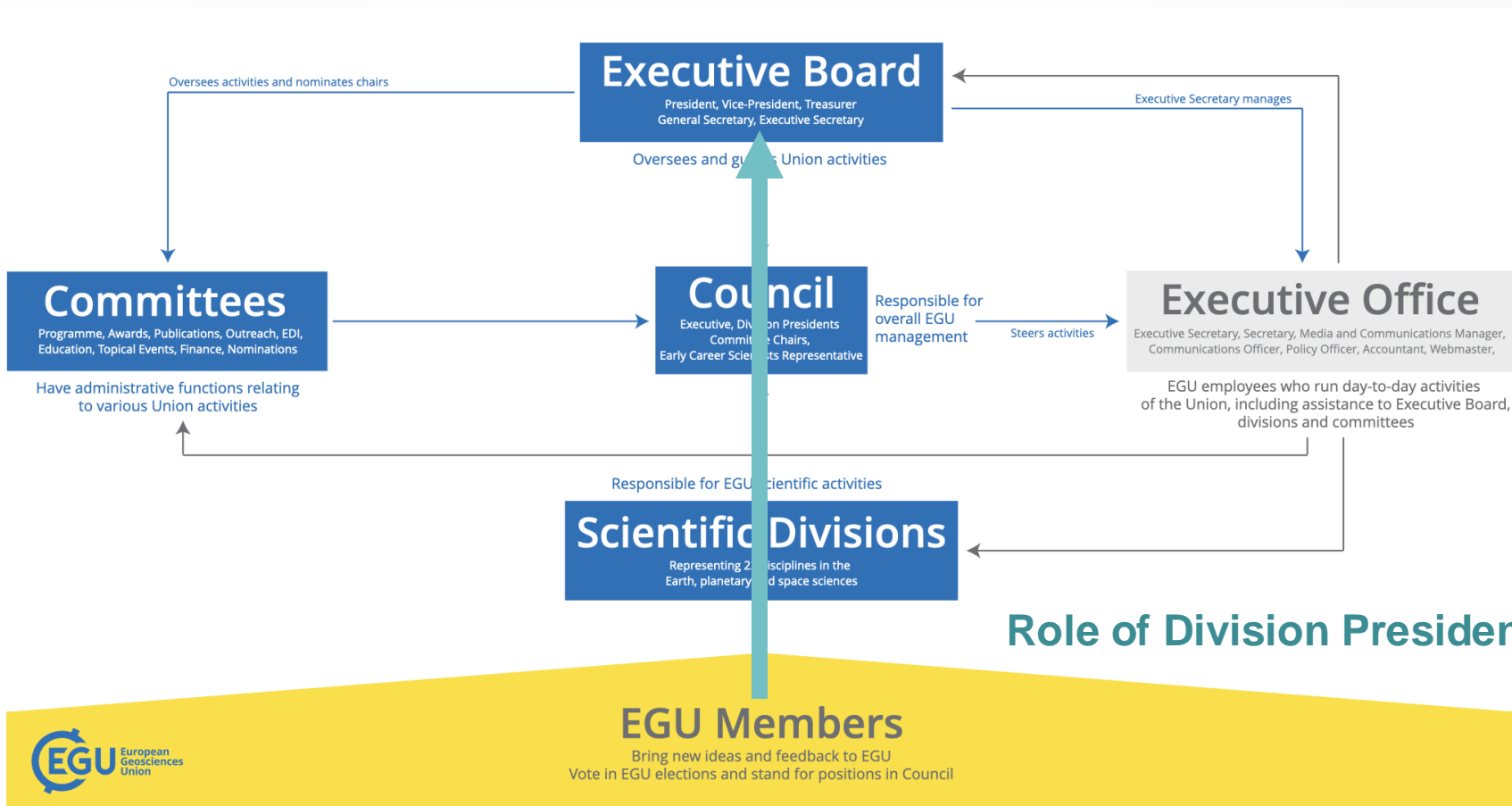
Meetings | Publications | Outreach | [www.egu.eu](http://www.egu.eu)

## Atmospheric Science Division Meeting Agenda

- The Atmospheric Science Division
- EGU GA 2024: Abstracts, sessions, and registration numbers
- Awards and Medals
- OSPP Awards
- EGU Journal Awards
- Early-Career Scientists: Leadership, Activities and Events
- Equality, Diversity and Inclusion (EDI) Events
- Feedback, Questions & Suggestions

## EGU Divisions

The **EGU** is a **bottom-up organisation** structured in scientific divisions, committees, and a council.



# AS Division Structure

**President**  
**Deputy President**

Philip Stier  
Athanasios Nenes

**Science Officers**

*Meteorology:* Rune Grand Graversen  
*Atmospheric Chemistry & Aerosols:* Hinrich Grothe  
*Boundary Layer Processes:* Jordi Vila

**Awards & Medals**

Sypros Pandis (Chair)

**News**

Heiko Bozem

**Outreach & Education**

Oksana Tarasova

**Division Liaison**

Yafang Cheng

**OSPP Coordinator**

Ali Hoshyaripour

**ECS Representative**

Arindam Roy

# AS Division Structure

## Open positions

Science Officers

*Meteorology:* Rune Grand Graversen

*Atmospheric Chemistry & Aerosols:* Hinrich Grothe

*Boundary Layer Processes:* Jordi Vila

Awards & Medals

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**News**

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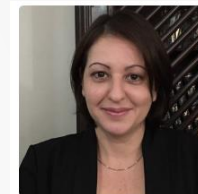
**Arindam Roy**

Many thanks!

**Please consider volunteering – talk to me or anyone in the team!**

## EGU24: News from the EGU Programme Committee

- **EGU Programme Committee** has **two Co-chairs**, appointed by the EGU Council. They are supported by **an Events Manager** staff member from EGU office
- **Programme Committee:** comprised of **General Positions** (Executive Board, Conference Organizer, PC Co-chairs), and **Programme Group Chairs** (25 Programme Groups reflecting the 22 EGU Divisions with their science officers, and SC, ITS, EOS programmes)
- **Our goal:** to offer a reliable, **hybrid** format of the General Assembly with flexibility to respond to any emerging needs, as **inclusive** and **environmentally friendly** as possible, while responding to the main **scientific challenges of geosciences worldwide**



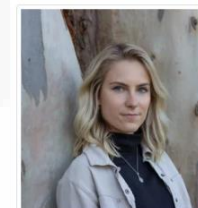
Maria-Helena  
Ramos

PROGRAMME COMMITTEE  
CO-CHAIR



Athanasios Nenes

PROGRAMME COMMITTEE  
CO-CHAIR



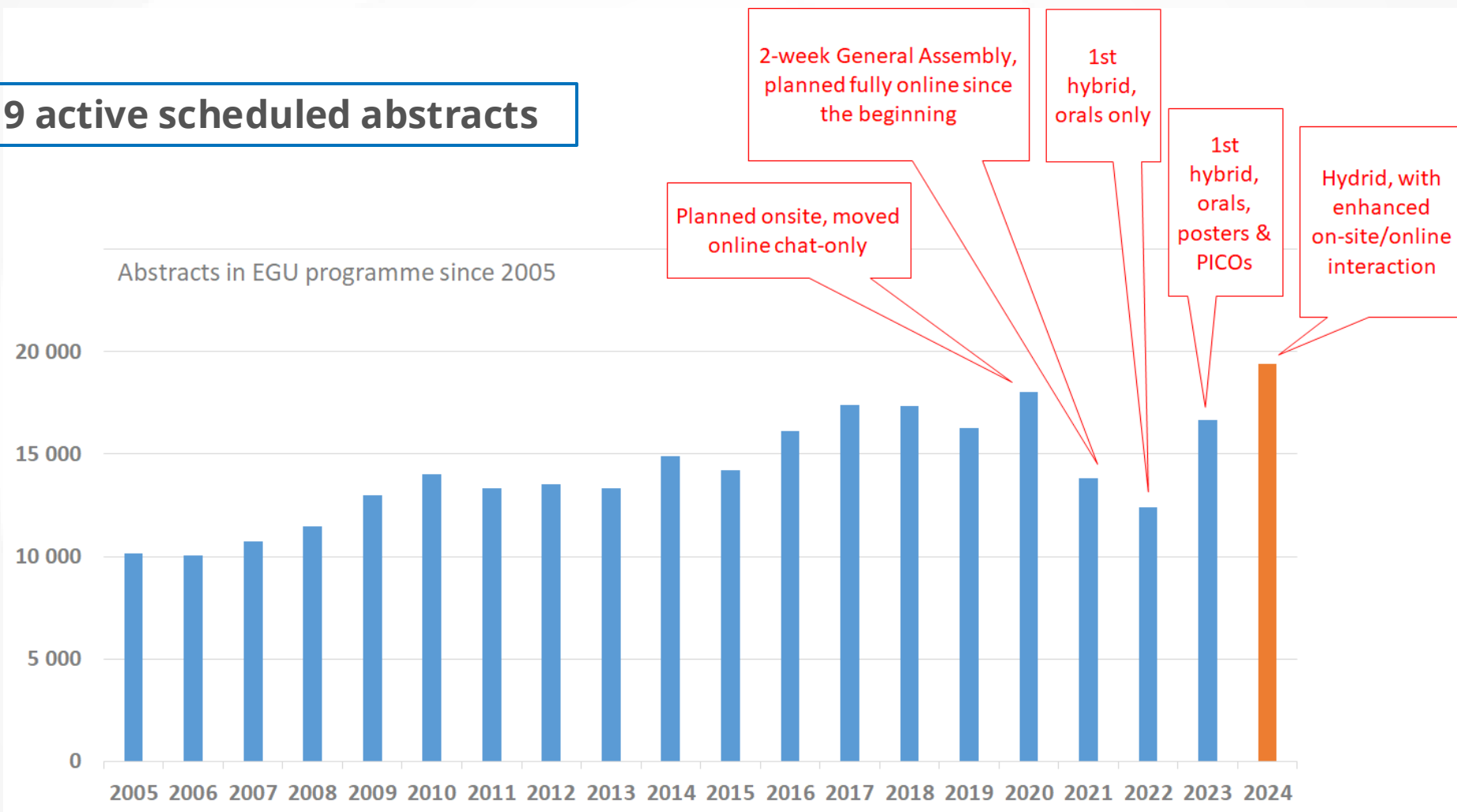
Jane Roussak

EVENTS MANAGER

[https://egu24.eu/about/programme\\_committee\\_composition.html](https://egu24.eu/about/programme_committee_composition.html)

## EGU24: numbers at a glance (as of 29 March 2024)

**19,319 active scheduled abstracts**



## EGU24: numbers at a glance (as of 4 April 2024)

- 19,319 **active scheduled abstracts**
- 16,746 **paid registrations** (8% for **virtual participation**)
- 50% of **virtual participants benefited from free registration** (Undergraduate/master students & Low- & lower-middle income countries)
- 37% of on-site participants and 52% of virtual participants are **PhD candidates, Master or Undergraduate students**
- 2% of on-site participants and 24% of virtual participants are from **Low & Lower-middle income countries**
- **Gender** (Female / Male / Non-binary): On-site (39% / 58% / 0%) & Virtual (42% / 54% / 1%)
- 112 **different countries** for on-site participation; 90 for virtual participation



EGU23 main entrance

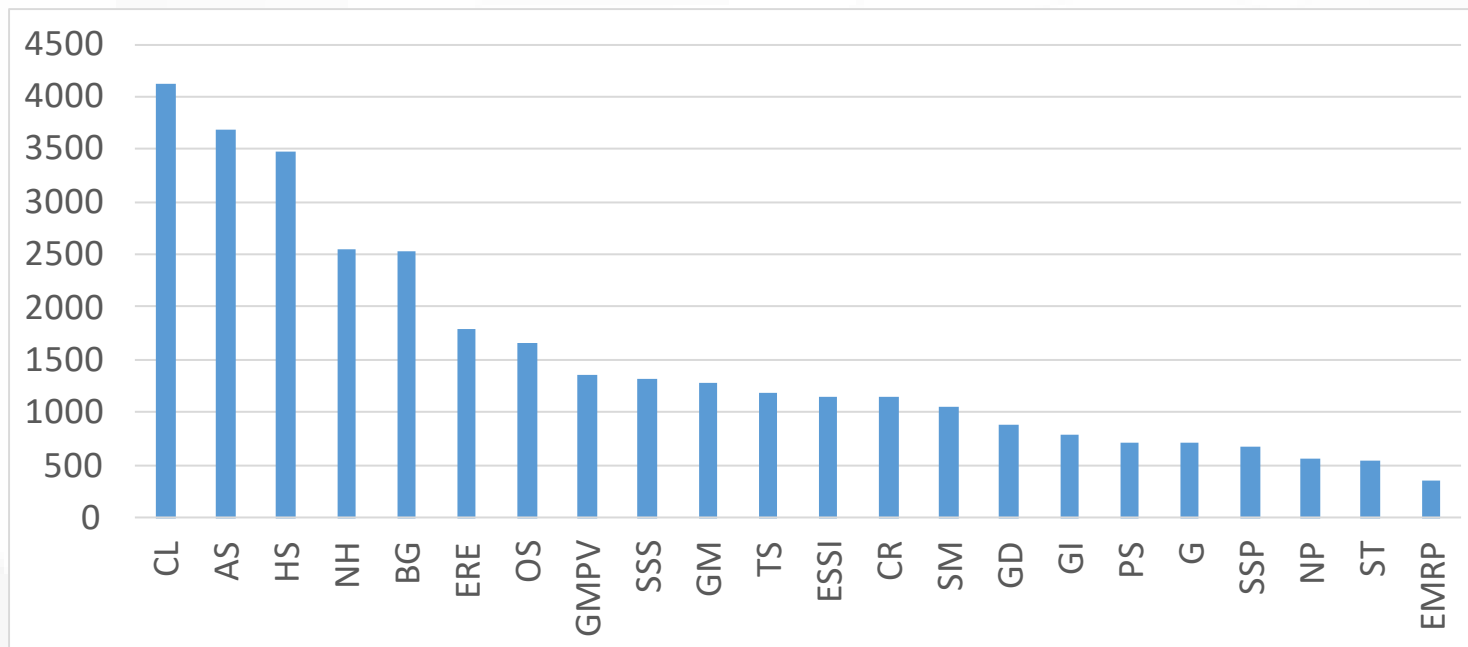
Photo credit: Pfluegl 2023



## EGU24: numbers at a glance (as of 4 April 2024)

### EGU Division/PG affiliation of paid registrations

(note: a participant can choose more than one division of affiliation)



# 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!



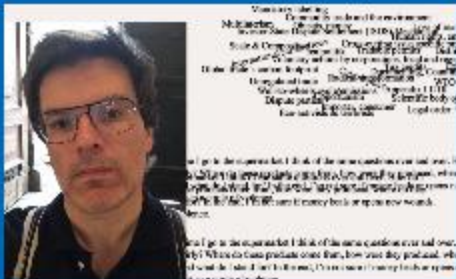
# Art-Science offerings at EGU24

## EGU24 Artists in Residence

visit their booths in Foyer D!

**Ilias Tsagas**

Poet



**Lucía Pérez-Díaz**

Illustrator




Mon, Tues, Thurs & Fri  
18:00-20:00 in room E1

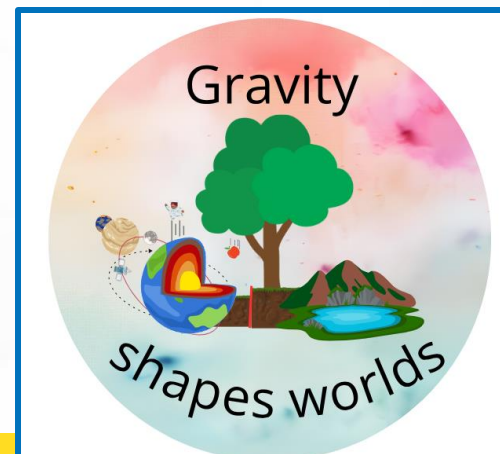
Art-Science sessions at EGU24:



EGU24 artists raising awareness of EDI in the Geosciences

learn more at their booth in **Hall X2!**

**Nkosingiphile Mazibuko**  
Iziko Museums of South Africa

Gravity  
shapes worlds

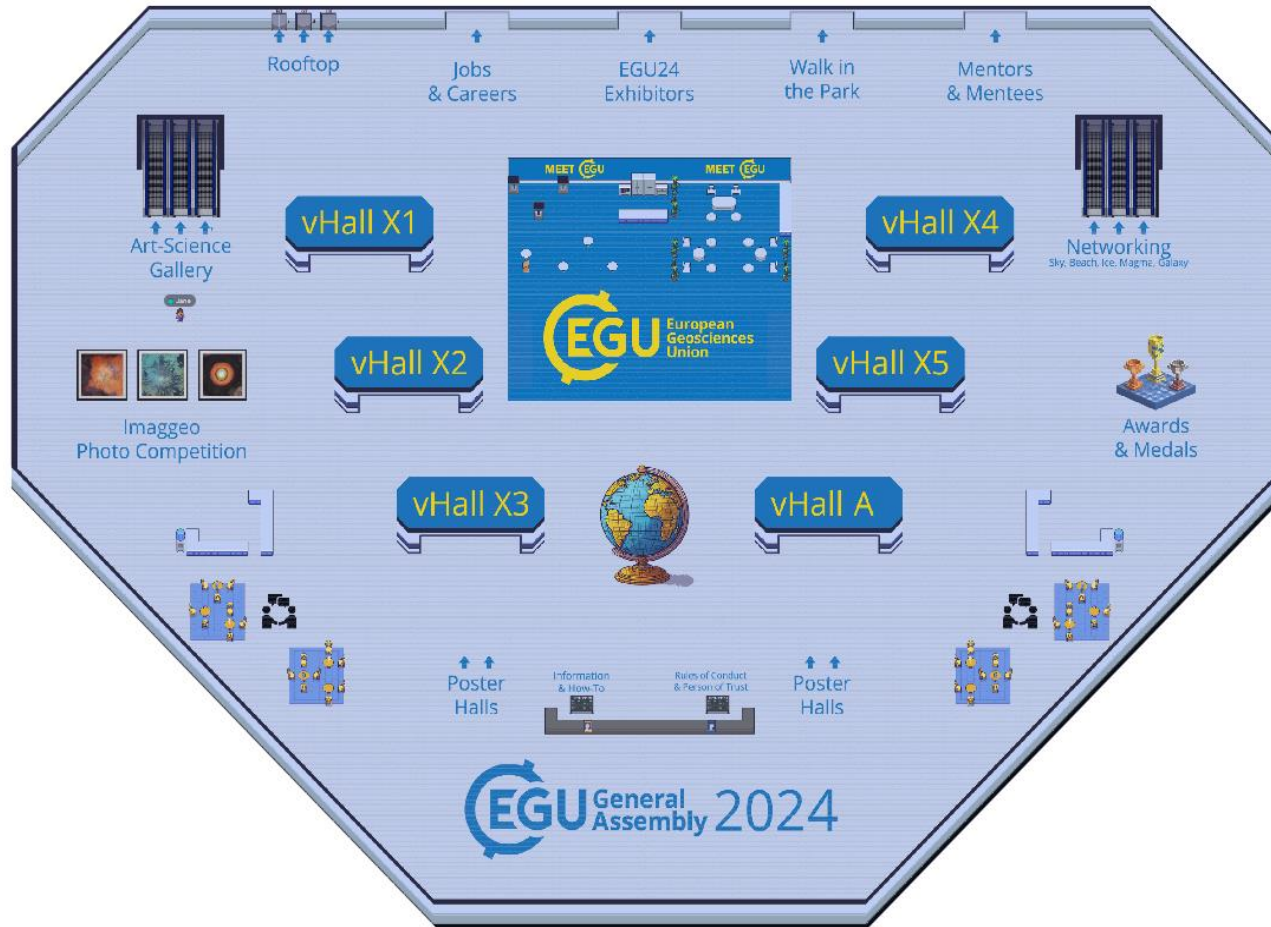
**Childcare Art Exposition**



growing gallery located in **entrance of Hall X1**

Divisions represented:  
G, GD, PS

# Stop by the EGU24 Gather.Town!



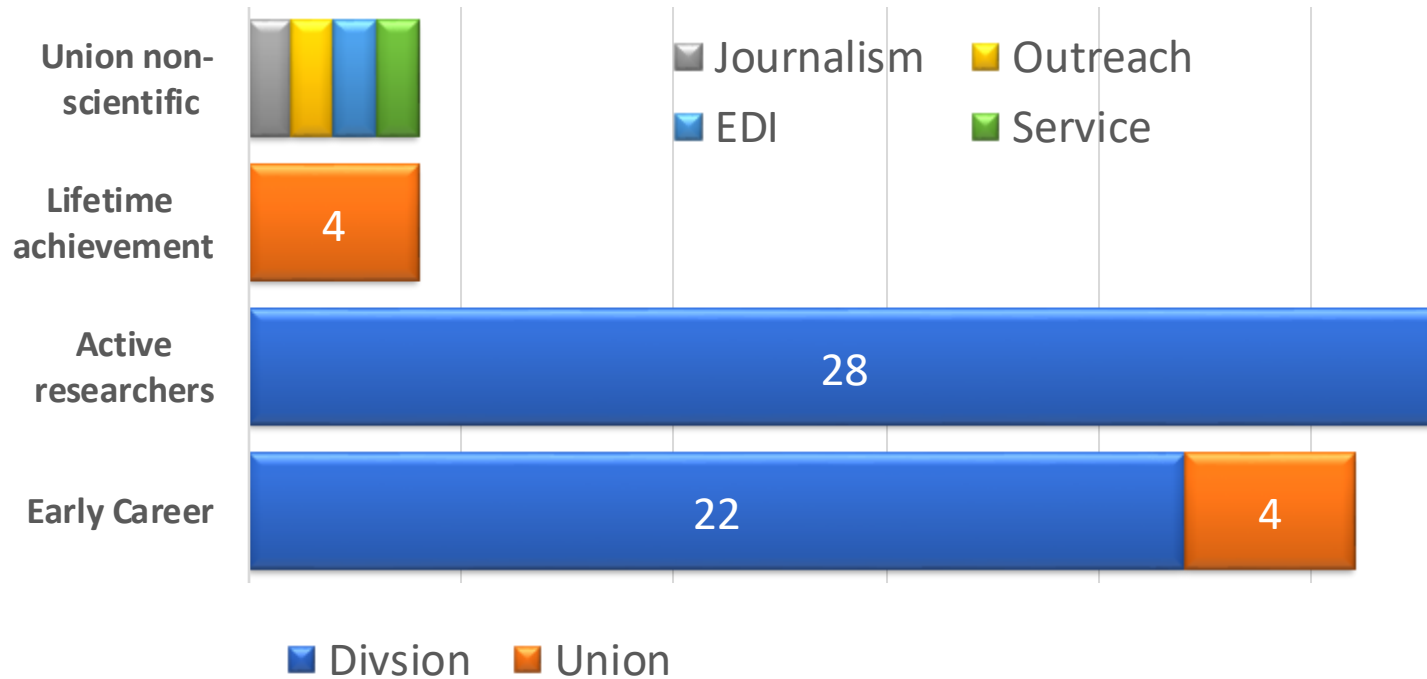
- Spatial video-conferencing platform available to all EGU24 registered participants
- Used for **virtual posters** during timeblock 3, networking & more
- Custom design inspired by the Austria Center Vienna!





# EGU awards & medals

EGU features an extensive awards and medals programme on all career stages



- 4 **Union Awards** for services for the union, science journalism, outreach, and EDI
- 4 prestigious **Union Medals**, recognising excellence in scientific research
- 28 **Division Medals**, awarded for significant disciplinary contributions in Earth, planetary and space sciences
- 4 **Union** and 22 **Division Awards** for Outstanding Early Career Scientists



## How to become an awardee?

- **Nominations are exclusively by EGU members (no self nomination)\***
- Candidates do not need to be EGU members.
- Individual award and medal committees are then evaluating the nominations selecting the most deserving candidate based on **scientific achievements\*\***.

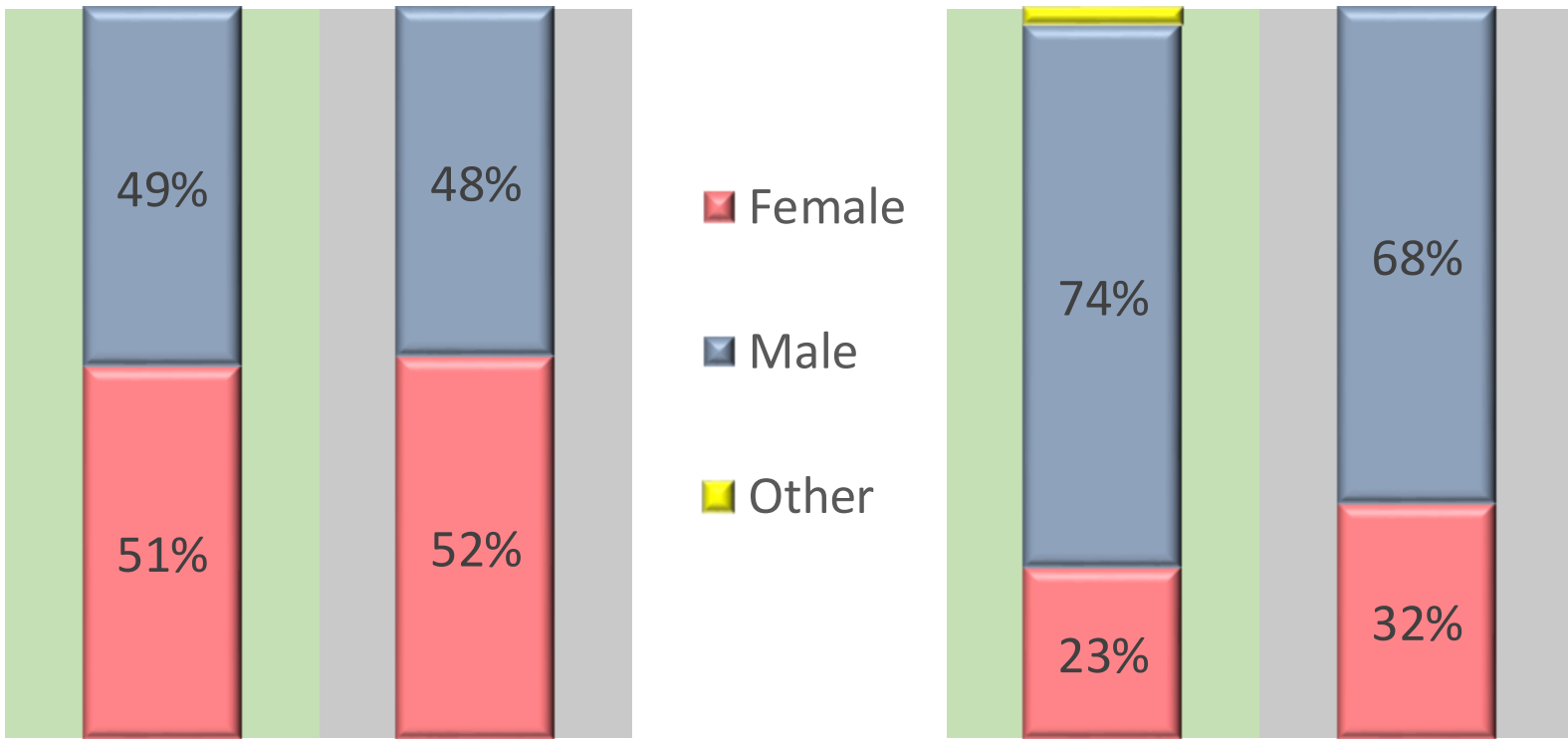
\* An exception is one award to promote excellence in journalism allowing nominations from non-members and self nominations

\*\* plus one medals each for journalism, outreach and service to the union



# EGU awards & medals

## Some statistics for the 2024 awards



Nominations    Awarded

### Early Career Awards

Nominations    Awarded

### Union and Division awards

## More information on awards

EOS3.1  
 Poster EGU24-1620  
**Equality of opportunities in geosciences: The EGU Awards Committee experience**  
 Wed, 17 Apr, 10:45–12:30  
 Hall X1 | X1.63

**Meet the chair of the Awards Committee**  
 Mon, 15 Apr, 17:30–18:00  
 EGU booth – Hall X2



# EGU awards & medals

## How to nominate

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

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

What is required:

	Division and Union medals	Outstanding Early Career Scientists Awards
Nomination letter	5000 characters (including spaces)	2500 characters (including spaces)
Curriculum Vitae	2 pages	1 page
Selected bibliography	2 pages	½ page
Supporting letters	3-5 5000 characters (including spaces)	None (multiple nominators possible)



**Nomination and supporting letters via on-line form**



# AS Division Awards and Medals

- **Vilhelm Bjerknes Medal**
- **AS Division Early Career Scientist Award**  
(is also nominated for the Union Arne Richter Award for Outstanding Early Career Scientist)
- **EGU Outstanding student poster and PICO (OSPP) awards**

**See the recording of the 2024 AS Awards Lectures online**

# Atmospheric Sciences Division 2024 Vilhelm Bjerknes Medal



**Lucy Carpenter**  
University of York



*“... for establishing a critical link between the production of trace gases in and over the oceans, atmospheric chemistry, and climate change.”*

# Atmospheric Sciences Division

## 2024 Arne Richter Award for Outstanding ECS

**Nadia Bloemendaal**

VU Amsterdam & Royal Netherlands Meteorological Institute (KNMI)



*“... for her outstanding contribution to research in atmospheric science with a focus on tropical cyclones and extreme weather.”*

# Vilhelm Bjerknes Medal Committee (2024-2025)



**Spyros Pandis (chair)**  
(winner 2021)



**Trude Storelvmo**  
(University of Oslo)



**Hugh Coe**  
(winner 2022)



**Nadia Bloemendaal**  
(2024 Arne Richter ECS winner)

This needs to  
be approved  
at the division  
meeting.

# OSPP

**Outstanding Student and PhD  
candidate Presentation contest**

# OSPP: Outstanding Student and PhD candidate Presentation contest

## What is evaluated?

- scientific content (relevance, methods, ...)
- presentation (organization, aesthetic appeal, ability to answer questions, ...)

## Who votes?

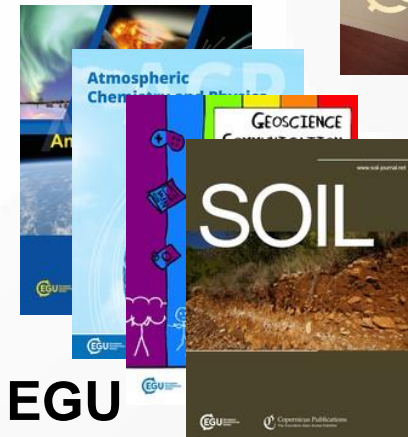
- 3 pre-defined judges per participating presentation
- All EGU GA participants (from post-doc level on, not co-author, no shared affiliation) can vote as well!
- **We need your votes (to be submitted in time)!**

## Who can participate?

- first and presenting author
- either currently a BSc or MSc student or PhD candidate
- or last degree obtained in year of GA

## Why participate?

- Better visibility for your research
- Award certificate and ceremony
- Free open-access publication in one of the EGU journals
- **Conference fee waiver for next EGU**



# OSPP: Outstanding Student and PhD candidate Presentation contest

## What is evaluated?

- scientific content (relevance, methods, results, conclusions, ...)
- presentation (organization, aesthetics, ability to answer questions, ...)

## Who votes?

- 3 pre-defined judges per participating presentation
- All EGU GA participants (from post-doc level on, not co-author, no shared affiliation) can vote as we
- **We need your votes (to be submitted in time,**

## Who can participate?

first and presenting author

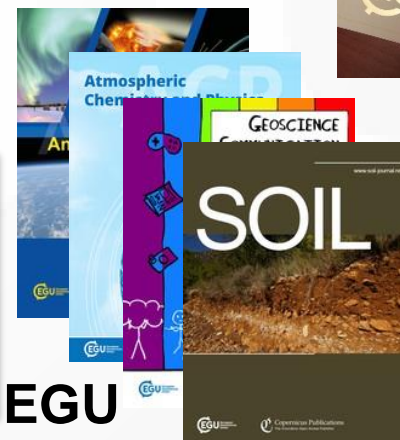
either currently a BSc or MSc student or PhD candidate

or last degree obtained in year of GA



Huge thanks to long-term OSPP contest coordinator in AS Ali Hoshyaripour!

- V
- r research
- Award certificate and ceremony



# Outstanding Student and PhD candidate Presentation (OSPP) Awards 2023



**Amelia Bond**, University of East Anglia.

*Snowpack nitrate photolysis drives the summertime atmospheric nitrous acid (HONO) budget in coastal Antarctica*



**Berend Schuit**, SRON Netherlands institute for Space Research.

*Automated detection and monitoring of methane super-emitters using satellite data*



**Herman Fuglestedt**, University of Oslo.

*Arctic Polar Vortex Controls Aerosol Evolution After High-Latitude Volcanic Eruptions*



**Jan-Hendrik Peters**, Bielefeld University.

*Insights into Aqueous Glyoxal Chemistry via Glass Transition Measurements*



**José Ángel Callejas Rodelas**, University of Göttingen.

*Intercomparison of lower-cost and conventional eddy covariance systems for CO<sub>2</sub> and H<sub>2</sub>O flux measurements above cropland monoculture and agroforestry*



**Sofie Tiedeck**, Alfred Wegener Institute.

*Impact of Atmospheric Rivers on the Arctic Surface Energy Budget*



**William Jones**, University of Oxford.

*The Diurnal Cycle of the Cloud Radiative Effect of Deep Convective Clouds over Africa from a Lagrangian Perspective*



# Atmospheric Sciences Journals

**100% open access and publicly peer reviewed since 2001!**

**Atmospheric Chemistry and Physics**

A community-driven journal that in 2023\* published extensive, exciting new research on:

"After more than 20 years, ACP continues to evolve in the spirit of a true community journal covering a wide spectrum of topics on atmosphere and climate, with an ever diversifying and committed editorial board."

**Ken Carslaw and Barbara Ervens**  
Executive editors

Key Journal Metrics:

Impact Factor 2022:	6.3
5-year Impact Factor 2022:	6.7
Papers published in 2023:	721
Number of countries where authors were based in 2023:	63
Number of countries where editors were based in 2023:	28

\*The word cloud displayed was generated using all the titles of articles published by the journal in 2023.

**100% open access and publicly peer reviewed!**

**Weather and Climate Dynamics**

LAUNCHED IN 2019!

A community-driven journal that in 2023\* published extensive, exciting new research on:

"We choose Weather and Climate Dynamics for two main reasons: for some years now, an excellent editorial board has been effectively promoting discussions among a broad and yet specific scientific community, while open-access publishing greatly promotes the visibility of our efforts and results."

**Emmanouil Flaounas**, author 2023  
doi.org/10.5194/wcd-4-639-2023

Key Journal Metrics:

Impact Factor:	Arriving June 2024!
5-year Impact Factor:	57
Papers published in 2023:	57
Number of countries where authors were based in 2023:	27
Number of countries where editors were based in 2023:	13

\*The word cloud displayed was generated using all the titles of articles published by the journal in 2023.

**100% open access and publicly peer reviewed since 2008!**

**Atmospheric Measurement Techniques**

A community-driven journal that in 2023\* published extensive, exciting new research on:

"I like submitting my papers to AMT because of its open discussion step, which allows quick citable publication of the new results and encourages professional feedback from reviewers and broader community. The level of technical reviews is generally appropriate, which helps to improve the final manuscript. I also like very convenient search and metrics tools."

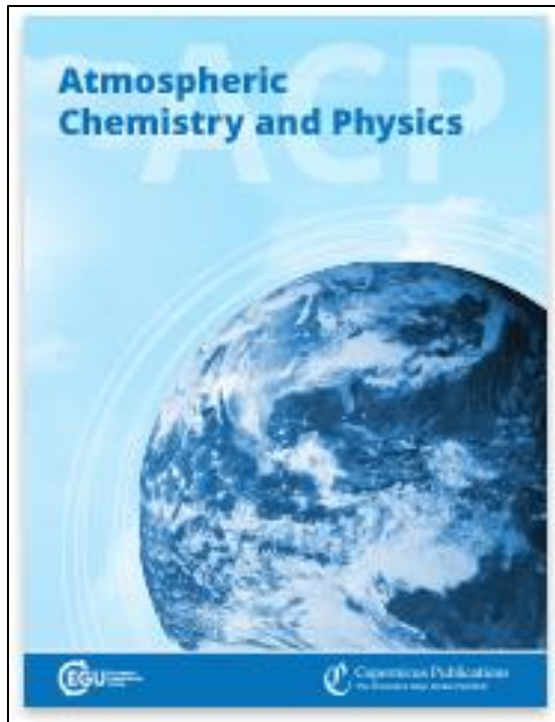
**Nick Gorkavi**, author 2023  
doi.org/10.5194/amt-16-1527-2023

Key Journal Metrics:

Impact Factor (2022):	3.8
5-year Impact Factor (2022):	4.1
Papers published in 2023:	319
Number of countries where authors were based in 2023:	43
Number of countries where editors were based in 2023:	21

\*The word cloud displayed was generated using all the titles of articles published by the journal in 2023.

# In recognition of commitment and excellence in reviewing for Atmospheric Chemistry and Physics in 2023



**Jessie Creamean**, Colorado State University, USA

**Lisa Welp**, Purdue University, USA

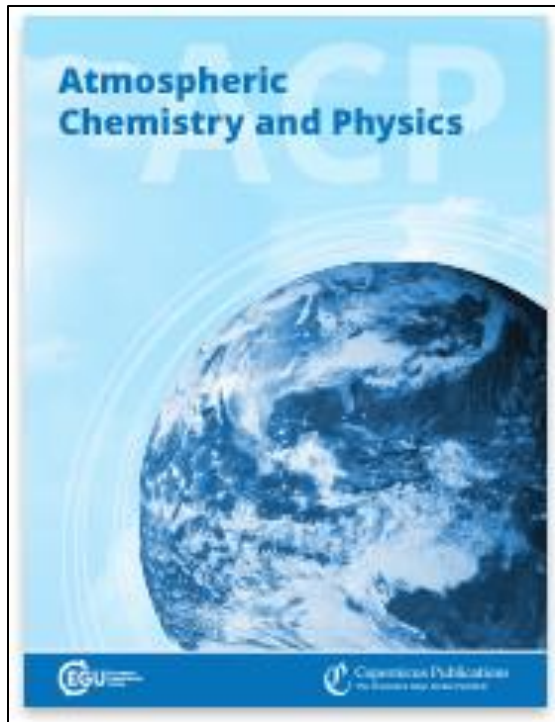
**Valeria Molinero**, University of Utah, USA

**Ralph Kahn**, LASP, University of Colorado, USA

**Stefanie Falk**, Ludwig-Maximilians-University, Germany

**Joowan Kim**, Kongju National University, South Korea

receive the  
**2023 ACP Outstanding Reviewer Award**



# In recognition of excellent services as Editor of Atmospheric Chemistry and Physics in 2023

**Matthias Tesche, University of Leipzig**

**John Plane, University of Leeds**

**receive**

**the 2023 ACP Outstanding Editor Award**

# ACP Paul Crutzen Publication Award

for outstanding publications in ACP in 2023 that advance our understanding of atmospheric chemistry and physics

## Michael S. Diamond

Florida State University, USA

Detection of large-scale cloud microphysical changes within a major shipping corridor after implementation of the International Maritime Organization 2020 fuel sulfur regulations

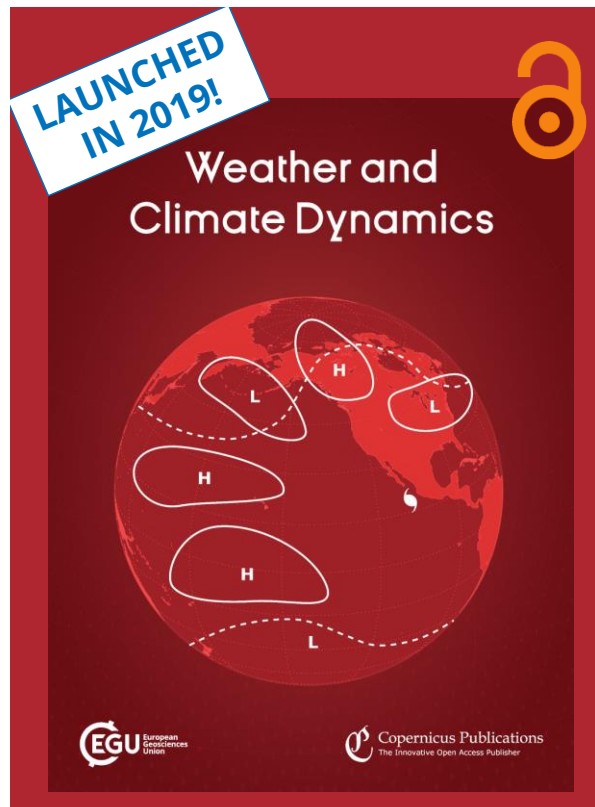
<https://doi.org/10.5194/acp-23-8259-2023>

## Christopher E. Lawrence,

Paul Casson, Richard Brandt, James J. Schwab, James E. Dukett, Phil Snyder, Elizabeth Yerger, Daniel Kelting, Trevor C. VandenBoer, **Sara Lance**  
University at Albany, USA

Long-term monitoring of cloud water chemistry at Whiteface Mountain: the emergence of a new chemical regime

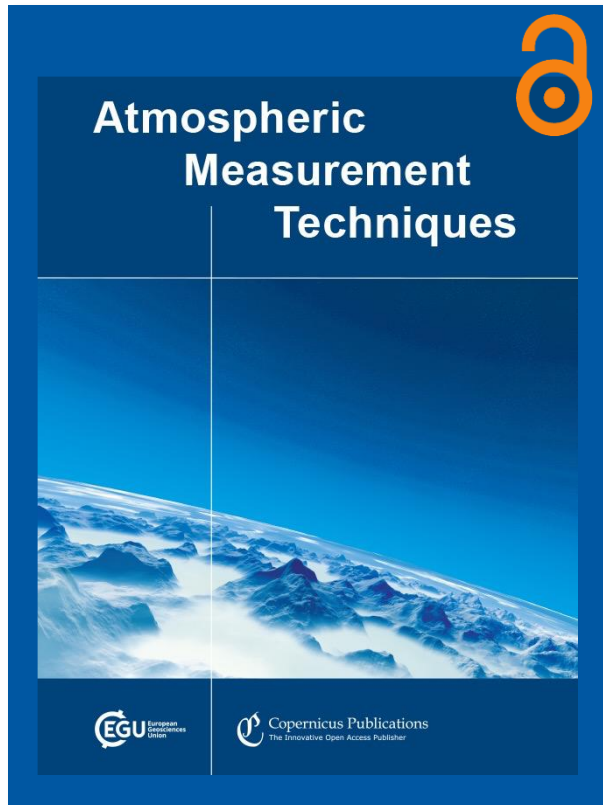
<https://doi.org/10.5194/acp-23-1619-2023>



# In recognition of commitment and excellence in reviewing for Weather and Climate Dynamics in 2023

**Ted Shepherd**, University of Reading  
**Victoria Sinclair**, University of Helsinki

receive the  
**2023 WCD Outstanding Reviewer Award**



# In recognition of commitment and excellence in reviewing for Atmospheric Measurement Techniques in 2023

**Christopher D. Boone**, University of Waterloo

receives the  
**2023 AMT Outstanding Reviewer Award**

# EGU Early Career Scientists

([www.egu.eu/ecs/](http://www.egu.eu/ecs/))

ECS represent ~50% of the people attending the GA

Goals of EGU:

- Help ECS build a network
- ECS representation at EGU PC and Council
- Push ECS to be more involved in scientific life at EGU
- Encourage ECS to convene session

*ECS: is a student, a PhD candidate, or a practising scientist who received their highest degree (e.g. BSc, MSc or PhD) within 7 years. Extensions to allowed for parental responsibilities, disability, personal illness, community obligations, and others. (<https://www.egu.eu/awards-medals/ecs-definition/>)*

## Highlights

1. Networking events on various topics (Equality, Diversity & Inclusion in Geosciences)
2. Social media & Twitter
3. Active on blog
4. Recruitment of new ECS-AS outreach team members
5. Connection with other communities (AGU ECS, YESS) and EGU divisions (CL, PS and ST)

## New Atmospheric Science Early Career Representative:

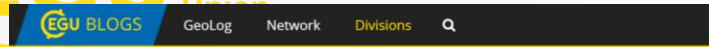
Robert Maiwald (Universität Heidelberg)

*PhD candidate: Simulation of greenhouse gases in the atmosphere*





# Outreach activities within Atmospheric Sciences



## Atmospheric Sciences

Nitrogen dioxide disparities in the time of COVID-19: How satellite data can facilitate environmental justice studies during this natural experiment and beyond

Gaige Kerr · November 9, 2022

Around the world, the most vulnerable, marginalized, and racialized are disproportionately impacted by a variety of environmental stressors such as extreme heat, health-harm-

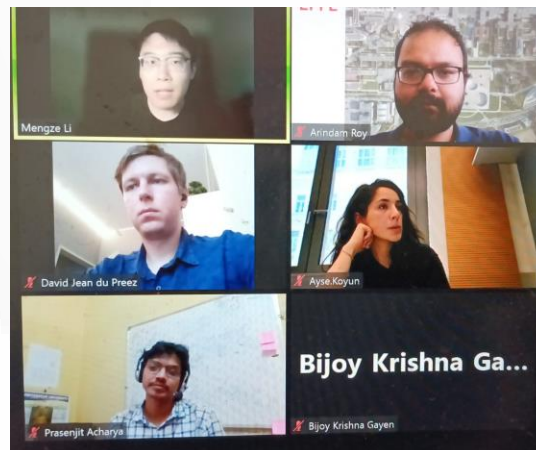
Crowdsourcing air quality management data from: A pilot study in India

Roy Arindam · March 1, 2022

India is experiencing an "Air apocalypse" and the Global Burden of Disease study has estimated the death toll has reached 1.67 million in 2019. Almost 100% of the population is now exposed to PM2.5 level higher than WHO (World Health Organization) recommendations. However, common citizens are generally unaware of the seriously damaging effects of poor air quality, largely because of the lack of ad ... [\[Read More\]](#)

## Blogs

## Campfire and meet



## Social Media

Many thanks to all contributors for your efforts – please consider joining the team!

# AS ECS : We Need You in Our Team!

## Feeds about:

- Extraordinary events interesting for public
- Research highlights in plain language
- Tell your research story



- » **Follow us:** Twitter ([@EGU\\_Atmos](#)), Facebook([@eguasd](#)), Instagram ([@eguasd](#))
- » **Subscribe** to the AS ECS email list on [www.egu.eu/as/home/](http://www.egu.eu/as/home/)
- » **Contact** us: [ecs-as@egu.eu](mailto:ecs-as@egu.eu)

# EGU General Assembly 2025

## 2025 General Assembly will take place 27 April – 2 May 2025 in Vienna

### Deadlines and milestones

Home / About / Deadlines and milestones

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Date	Public	Conveners	Programme Committee/ Copernicus Meetings	committee
06–20 Jun 2023				
28 Jun – 14 Sep 2023	Public call-for-session-proposals (incl. short courses, US, GDB)	10 Jan 2024	Outcome of support selection	Outcome of support selection
15 Sep – 17 Oct 2023		10 Jan 2024, 13:00 CET	Deadline for receipt of abstracts	
		11 Jan 2024	Notification to authors of withdrawn sessions to select a new session	Small session withdrawal
		11–17 Jan 2024	Reassigning abstract to new session after small session withdrawal	
15 Sep – 24 Oct 2023		11–17 Jan 2024, 13:00 CET	Late abstracts submitted through conveners	
24 Oct 2023		11–18 Jan 2024		SOI – Abstract implementation (upload of late abstracts)
01 Nov 2023	Start of call-for-abstracts and support application	11–26 Jan 2024		SOI – Abstract implementation (acceptance, transfer, and rejection) SOII – Session Tagging
01 Nov 2023	Start of townhall and non-commercial splinter meeting requests	11–26 Jan 2024		PCI – Session organization finalized on behalf of conveners, session mergers
01 Dec 2023, 13:00 CET	Deadline for support applications			
02–14 Dec 2023		17 Jan 2024	Deadline for townhall meeting requests	
15 Dec 2023 – 03 Jan 2024		30–31 Jan 2024		Room & time block allocation
		02–13 Feb 2024		PCII – Scheduling
		12–13 Feb 2024		PC meeting
		16 Feb 2024	Letter of acceptance/rejection	
		16–26 Feb 2024		SOIII – Presentation selection
		27 Feb – 03 Mar 2024		PCIII – Presentation selection
		07 Mar 2024	Letter of schedule	Uploading meeting programme on web
		08 Mar 2024	Child care request opens	
		11 Mar 2024	Commercial splinter meeting request opens	
		18 Mar 2024, 13:00 CET	Deadline for Letter of invitation requests	
		18 Mar 2024, 13:00 CET	Deadline for registering on reduced early rates and option for name badge pre-delivery	
		18 Mar 2024	OSPP participation & eligibility	
		19 Mar – 03 May 2024	OSPP nominator tool	
		19 Mar – 31 May 2024		OSPP coordinator tool
		25 Mar – 31 May 2024	Presentation file and supplementary material upload	
		10 Apr 2024	Deadline for splinter meeting requests	
		14–19 Apr 2024	European Geosciences Union – General Assembly	
		14 Apr – 03 May 2024	OSPP judging	
		15–31 May 2024	OSPP award selection (coordinator tool)	

# EGU General Assembly 2025

**2025 General Assembly will take place 27 April – 2 May 2025 in Vienna**

- EGU is a bottom-up organization
- The AS GA programme is developed from your contributions

## **How can I get involved?**

- Conveners: consider rotation of your teams and include ECS
- Feel free to ask conveners in your field to join as co-convener
- Propose sessions through the public call-for-session-proposals from June to September.

## Equality, Diversity, and Inclusion (EDI) at EGU24

NEW:

Dedicated programme  
category compiling EDI  
sessions of interest!



We are committed to providing a **safe, open, accessible, and respectful General Assembly**, as per the EGU Code of Conduct.

Any behaviour that is disrespectful or violates the Code of Conduct can be **reported to the designated Person(s) of Trust**

- by emailing **conduct@egu.eu**
- or on-site, 8:00-17:00 at the **EGU Info Desk (Yellow level Foyer)**

More information available at [https://www.egu24.eu/about/egu\\_general\\_assembly\\_rules\\_of\\_conduct.html](https://www.egu24.eu/about/egu_general_assembly_rules_of_conduct.html)

## Feedback, questions and suggestions

For example:

- AS programme at the GA
- Issues from the EGU Plenary
- Events throughout the year
- Outreach & education
- News and social media
- EDI
- Communication

Or reach Philip & Thanos via email: [as@egu.eu](mailto:as@egu.eu)

**Awardees, please pick up your certificates –  
and come on stage for a picture...**

A scenic landscape featuring a waterfall cascading over rocks into a pool of water. The background shows a wide, flat plain under a blue sky with light clouds. A large yellow speech bubble is overlaid on the scene, containing the text 'Please Give Us Feedback!'.

**Please  
Give Us  
Feedback!**

[egu24.eu/feedback](https://egu24.eu/feedback)