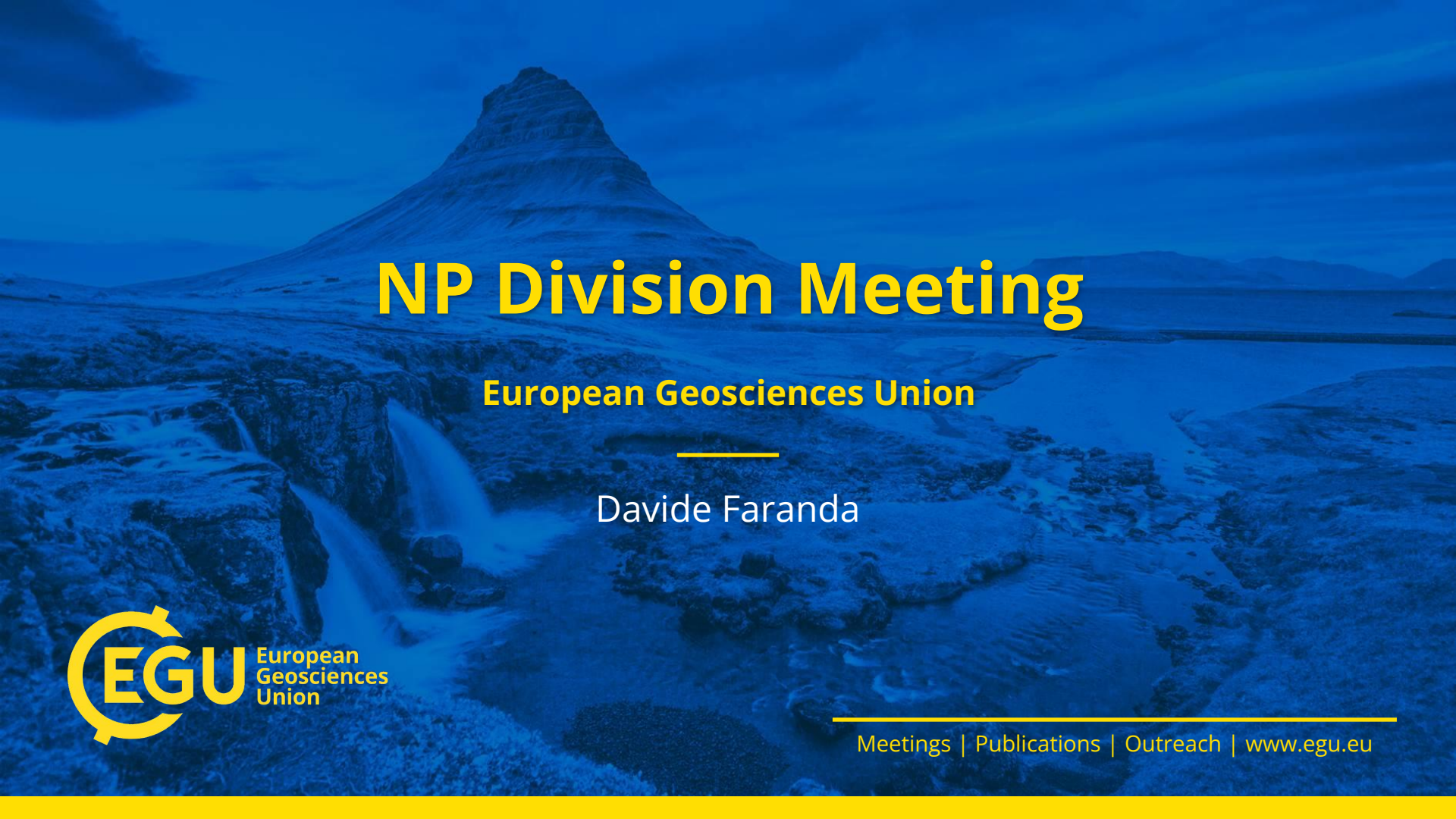


NP Division Meeting

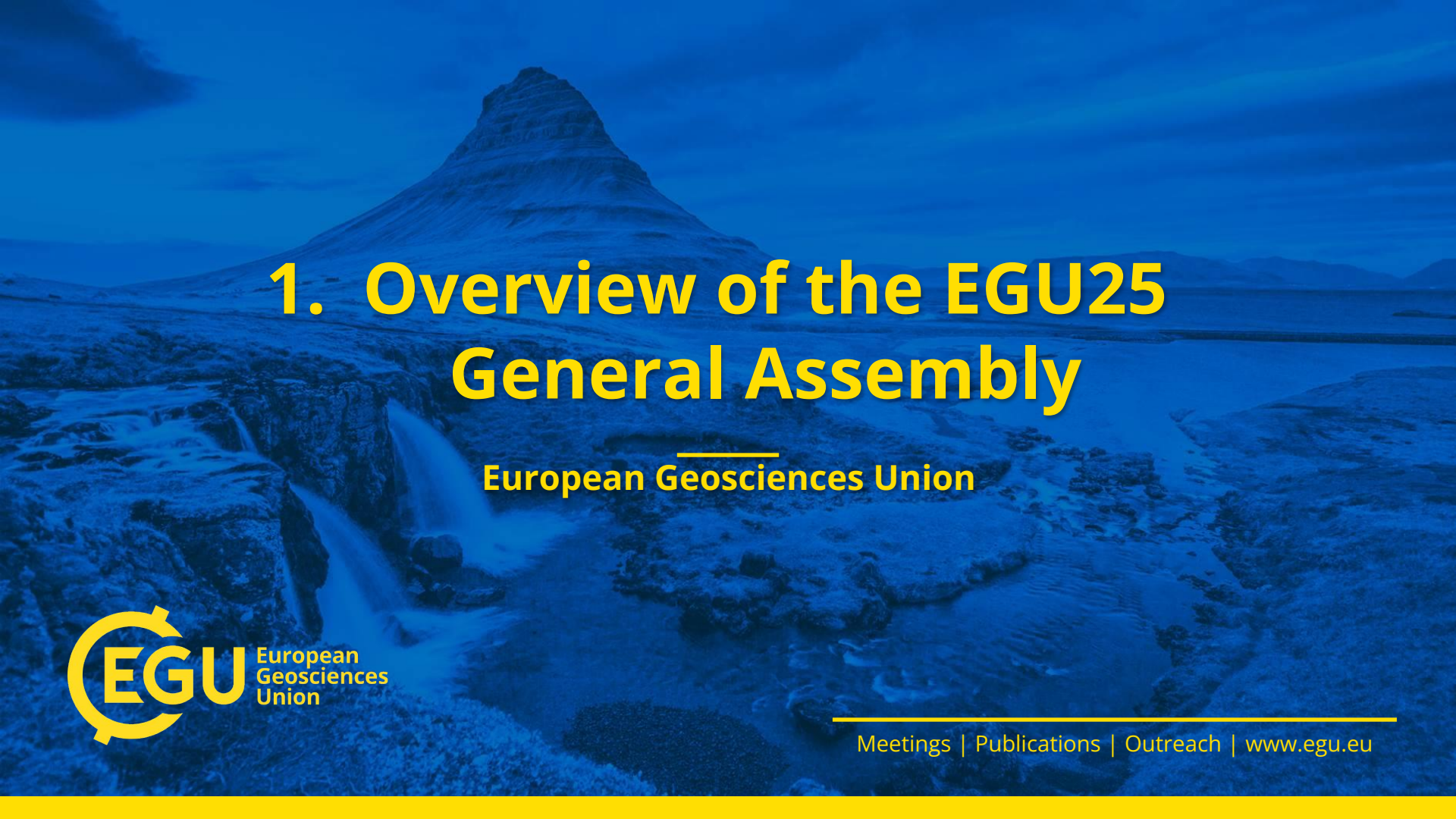
European Geosciences Union

Davide Faranda

European Geosciences Union

NP Division Meeting Agenda

1. Overview of the EGU 2025 General Assembly
2. NP Division structure, New Governance and Activities
3. Early Career Scientist Activities (by Mireia Ginesta)
4. Awards and Medals
5. Nonlinear Processes in Geophysics Journal (by Daniel Schertzer)



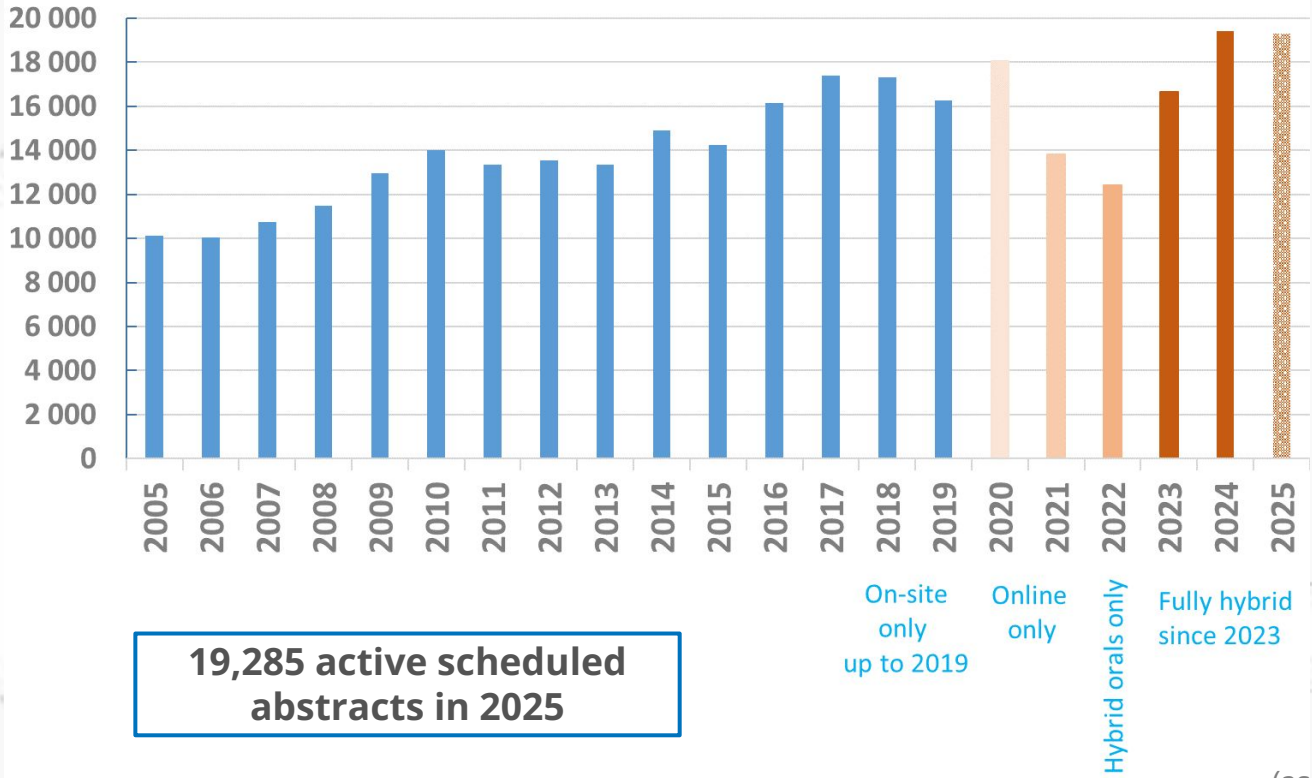
1. Overview of the EGU25 General Assembly

European Geosciences Union

European Geosciences Union

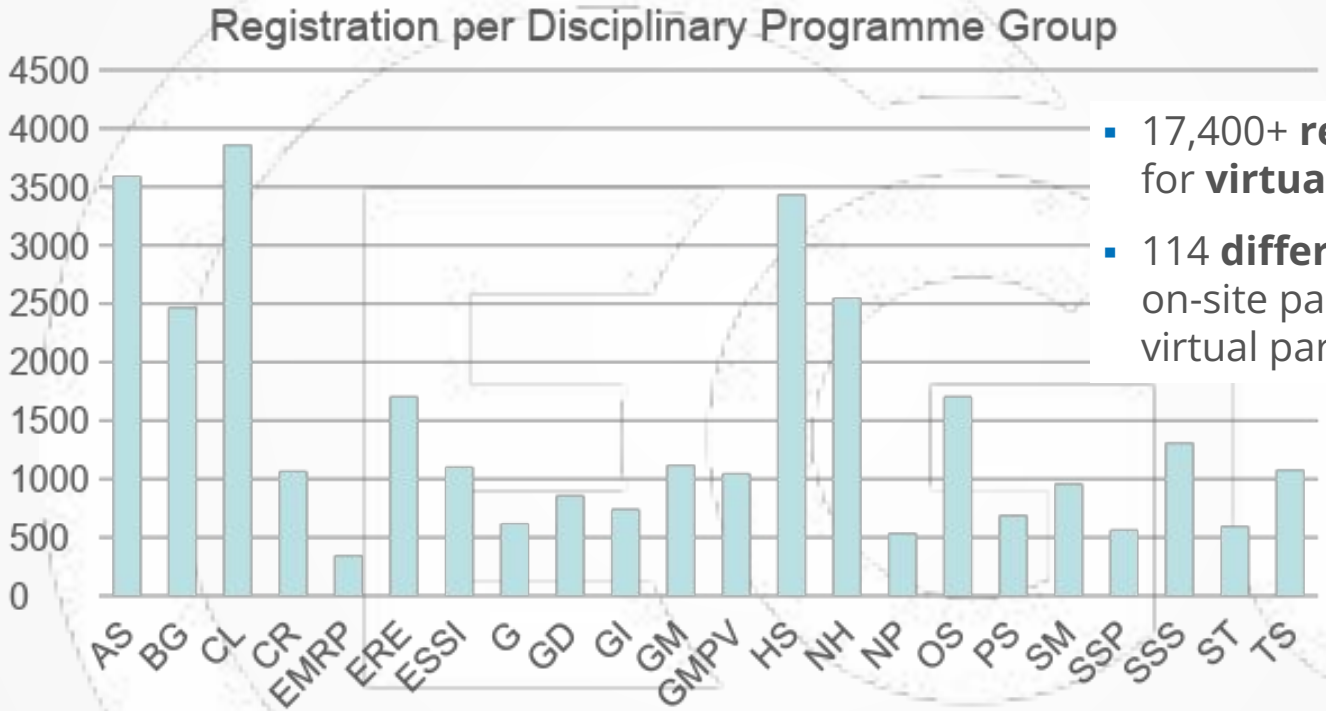
Meetings | Publications | Outreach | www.egu.eu

EGU25 Abstract Submission Over Time



19,285 active scheduled abstracts in 2025

(as of 16 April 2025)



- 17,400+ **registrations** (~8% for **virtual participation**)
- 114 **different countries** for on-site participation; 91 for virtual participation

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

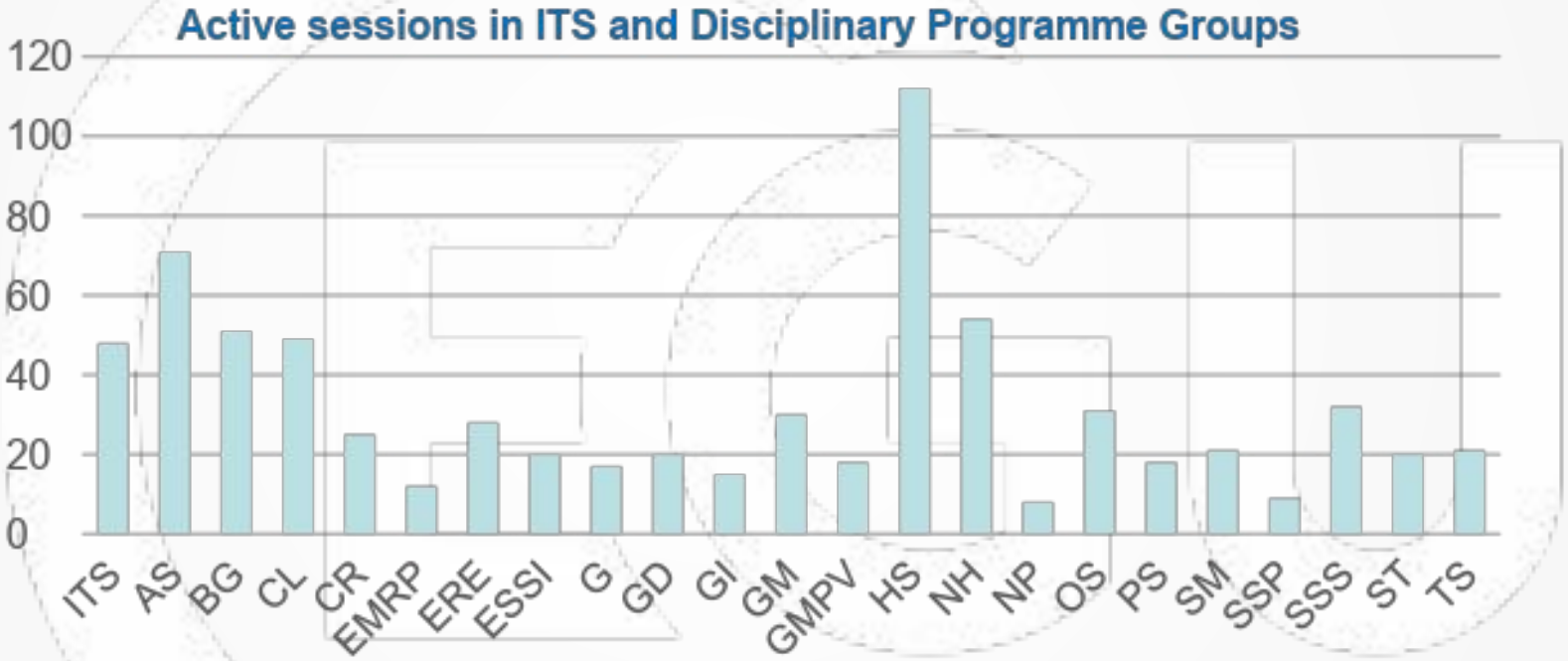
(as of 16 April 2025)

EGU25: numbers at a glance

- **1,099 active sessions** in total (+7% EGU24):
  - 730 disciplinary PG sessions, of which 48 are ITS sessions
  - 20 Education and Outreach Sessions (EOS), incl. GIFT worksh
  - 62 Short Courses + 2 Artist in Residence workshops
  - 39 Medal and Award Lectures
  - 9 Union Symposia and 9 Great Debates
  - 146 Townhall & Splinter meetings scheduled
- **ECS Networking, Science for Policy, and EDI Committee events**

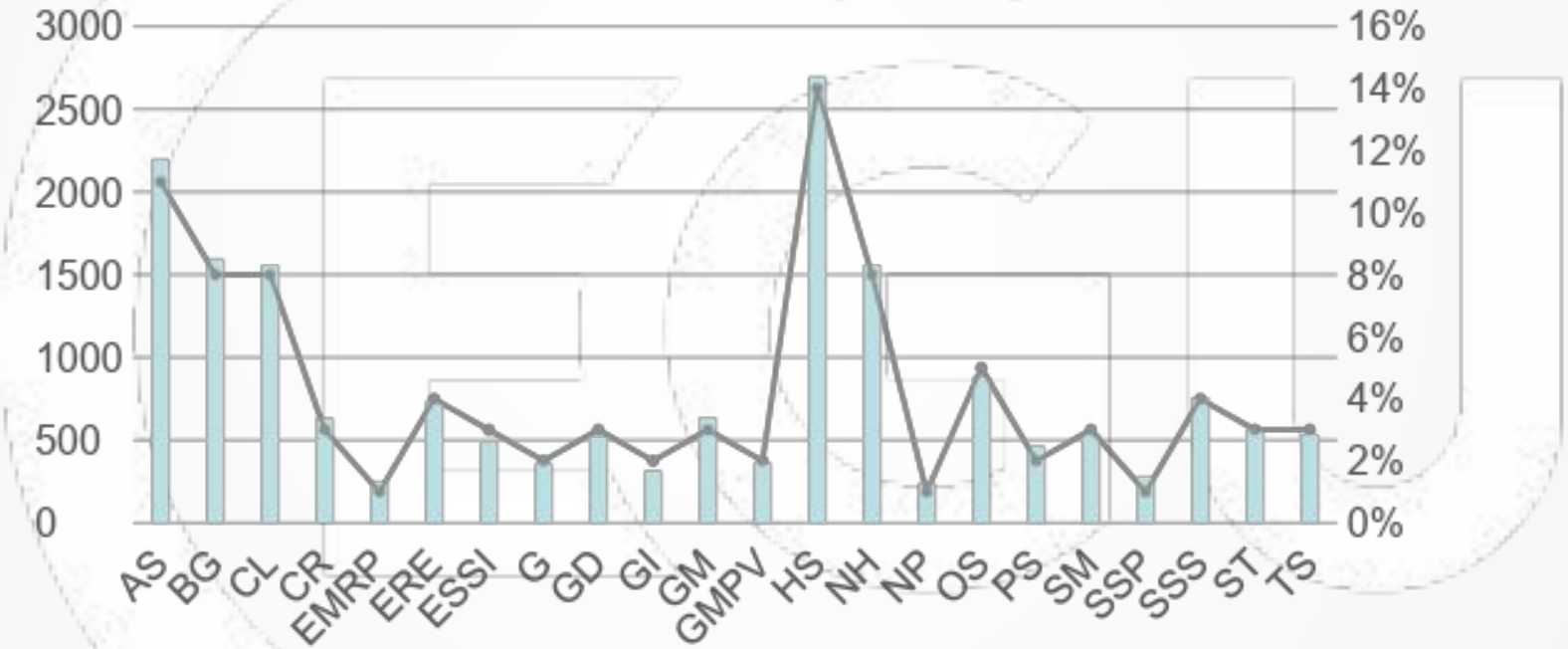
EGU23 oral presentation
Photo credit: Pfluegl 2023

More on: https://www.egu25.eu/



(as of 16 April 2025)

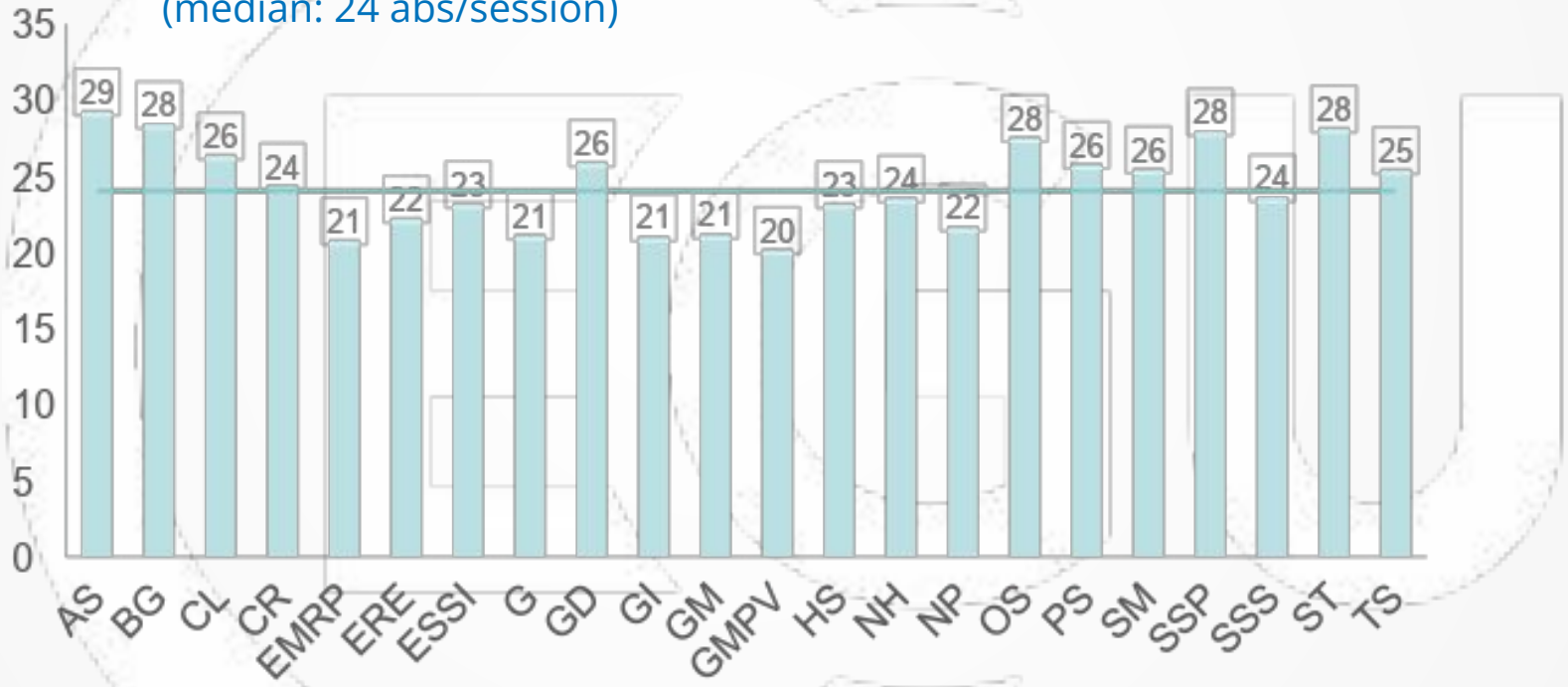
Abstracts in (lead) sessions per Programme Group (PG)



(as of 16 April 2025)

Abstracts per (lead) sessions per Programme Group (PG)

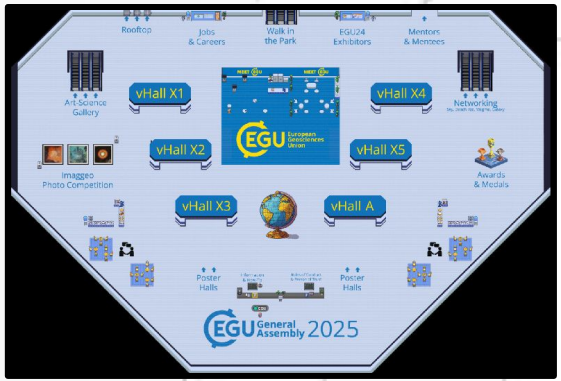
(median: 24 abs/session)



(as of 16 April 2025)

Join EGU25 online! Join the Virtual Posters

All the seats taken in a session? Missing a day for travel?



- Interactive 8-bit conference platform available to all EGU25 registered participants
- Used for **virtual posters** during timeblock 3, networking & more
- Custom design inspired by the Austria Center Vienna!

VPS19 | Poster session ESSI/GI/NP virtual posters I

Posters virtual | Attendance Tue, 29 Apr, 14:00–15:45 (CEST) | Display Tue, 29 Apr, 08:30–18:00 | vPoster spot 4

VPS20 | Poster session ESSI/GI/NP virtual posters II

Posters virtual | Attendance Fri, 02 May, 14:00–15:45 (CEST) | Display Fri, 02 May, 08:30–18:00 | vPoster spot 4

Union Symposium 3

Engaging Communities in Hazard Risk and Disaster Management: Striking a Balance Between Top-Down and Bottom-Up Approaches

Friday 2 May, 10:45–12:15 CEST
Room E1

#EGU25

Great Debate

How should the global geoscience community respond to attacks on science?

Friday 2 May, 16:15–18:00 CEST
Room E1

#EGU25

The EGU online

The EGU blogs

GeoLog

The Union's official blog - **geolog.egu.eu**

blogs.egu.eu

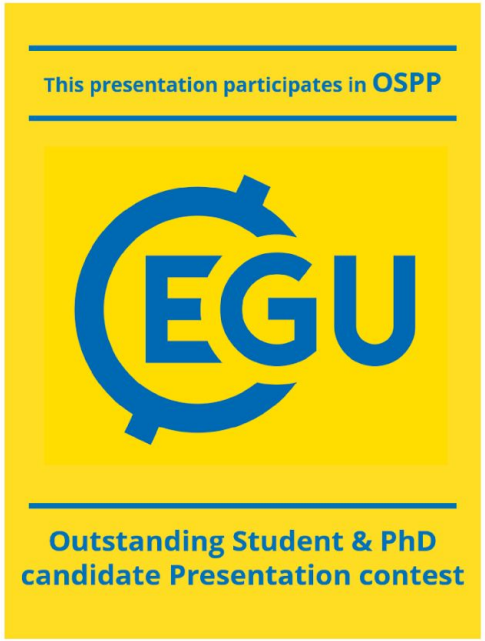
EGU Division blogs

The latest news, events, activities and research from EGU's 22 Divisions - **blogs.egu.eu/division**

European Geosciences Union

www.egu.eu | info@egu.eu

Outstanding Student and PhD-candidate Presentations (OSPP) are now open for judging!



If you are an OSPP judge, look for the logos on OSPP presentations and submit your assessment today!

MEETINGS

Special Activity Fund 2026

The Special Activity Fund 2026 (SAF) is **open to applications for high-profile, 'out-of-the-box' not-for-profit activities with high visibility and large impact**, for which no funding sources in the ordinary annual EGU e.V. budget are suited and/or can be created. See here for information about EGU funding sources for training schools and topical meetings.

In principle, applications could amount to 20-25 k€, but more ambitious projects could also be considered if duly justified.

Eligibility criteria

The main applicant must currently be an EGU member. To be eligible all activities should take place in the calendar year 2026. Applications should not be aimed at financing solely research activities, any kind of activism nor at funding of personal expenses of any kind (like travel support to attend scientific meetings, etc.). Proposals therefore:

- should be related to and contribute to EGU's goals and mission;
- should comply with EGU's principles on equality, diversity and inclusivity;
- should comply with EGU's code of conduct
- should have a high visibility and large impact;
- should be specific and well-justified;
- could target, e.g., not-for-profit activities of, and for, under-represented or less-well-resourced communities, with a wide geographical spread that will enhance EGU's visibility;
- do not need to suggest activities directly related to the General Assembly;
- could be proposed by EGU members, Divisions, Committees and Working Groups;
- should be submitted in compliance with the digital format provided by the EGU Office.

2. NP Division Structure and Activities

European Geosciences Union

NP Division

NP Division consists of 777 members:
532 MR, 201 MS, 3 MX <= Far from Gender Balance

NP President: Davide Faranda
NP Deputy President: Francois Schmitt (Need for a New Deputy President in one year)

ECS Representative: Mireia Ginesta-Fernandez

NP Division Structure

Science Officers	Tommaso Alberti NP1: Mathematics of Planet Earth
	Christian Franzke NP2: Dynamical Systems Approaches to Problems in the Geosciences
	Ioulia Tchiguirinskaia NP3: Scales, Scaling and Nonlinear Variability
	Reik Donner NP4: Time Series and Big Data Methods
	Olivier Talagrand NP5: Predictability
	Jezabel Curbelo NP6: Turbulence, Transport and Diffusion
	Julien Touboul NP7: Nonlinear Waves
	Henk Dijkstra NP8: Emergent Phenomena in Geosciences
OSPP Co-ordinator	- Valerio Lembo, Vera Melinda Galfi
Publications	Daniel Schertzer
Scientific Affairs	Davide Faranda

Candidate for the Scientific Affairs Officer: Valerio Lembo

Valerio Lembo, CNR-ISAC, Italy, permanent researcher since 2020
Previously: Postdoc at CEN Uni-Hamburg, Germany, 2016-2020

Roles:

- member of CMIP7 Model Benchmarking Task Team (WCRP)
- coordinator of inter-institute WG on “Science of Climate and Climate Change”, DTA-CNR

18 papers, 2 public datasets, 4 GitHub repositories

Research interests:

- thermodynamics of the climate system and its diagnosis in climate models
- energy budgets and transports in the general circulation of the atmosphere
- linear response theory and asymptotic response
- extremes and attribution
- transfer of knowledge between senior and early career researchers

New NP Division Activities

- **Regular Meetings** with NP officers, ECS and whoever is interested in contributing to NP <= Which Frequency?
- **Working group** to decide the possible trajectory of the division (change of scope/name, change of subdivisions, publication strategy) <= Need Volunteers
- **NP Officers back to back with ECS Scientists**

NP Division New Activities

EDI

Title: Historical background and future perspectives on Equity, Diversity and Inclusion in Geosciences
When: Spring/Summer 2026
Where: Bruxelles

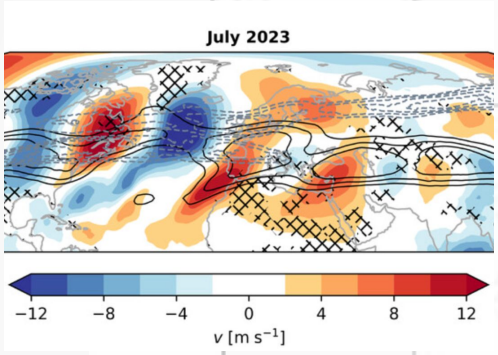
Proponents: Tommaso Alberti, Lesley De Cruz, Davide Faranda, Christian Franzke, Vera Melinda Galfi, Valerio Lembo

Aims:

- giving a historical perspectives of lecturers that played an outstanding role in the process.
- facilitate debate between ECRs and scientists at other stages of their career, to reflect on the state-of-the-art, main gaps to be covered, how to address dangers of the current situation;

Financial support for topical events (training event) asked to EGU for 2026.

NP Division New Activities



Title: Dynamics of Rossby waves, compound extremes and their impacts
When: 19-26 January 2026 (TBC)
Where: Amsterdam

Proponents: Simona Bordoni, Daniela Domeisen, Vera Melinda Galfi, Valerio Lembo, Jacopo Riboldi

Aims:

- review scientific advancements and identify outstanding challenges and opportunities at the crossroads of dynamics, compound extreme events and impacts;
- bring together different communities working on complementary topics;

Financial support through DynVar APARC Activity; further support very welcome!!

3. Early Career Scientists

European Geosciences Union

European Geosciences Union

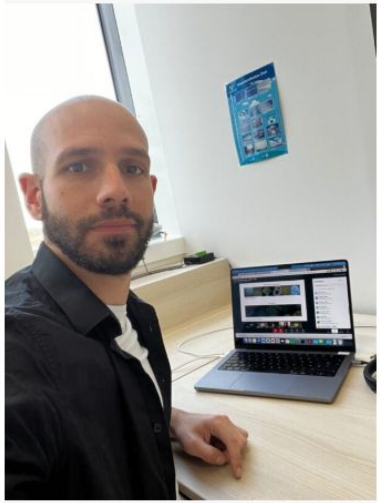
Meetings | Publications | Outreach | www.egu.eu

ECS Representative activities

EGU BLOG (5 posts 2024–2025)

NP Interview the incoming Nonlinear Processes in Geosciences Division President: Davide Faranda

Mireia Ginesta · April 21, 2025



The incoming NP Division President Davide Faranda.

NP Interview the outcoming Nonlinear Processes in Geosciences Division President: François Schmitt

Mireia Ginesta · April 21, 2025

The outcoming NP Division President François Schmitt.

Today's NP Interviews hosts the outcoming NP Division President François Schmitt. François has a PhD degree from Université Pierre et Marie Curie in Paris (1993), in atmo-spheric turbulence, and an Habilitation de-

SECTIONS

NP Blog of the month
ECS Spotlight
News
… and many more!

ECS Representative activities

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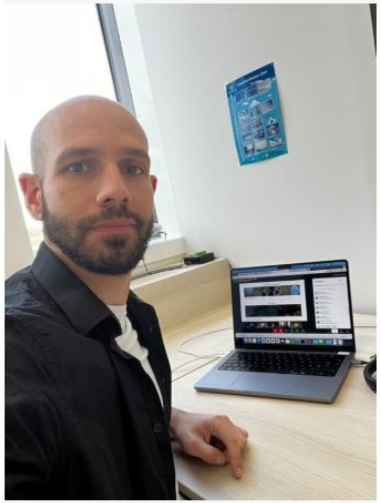

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You have something interesting! Share it with the community 🙂

ECS Representative activities

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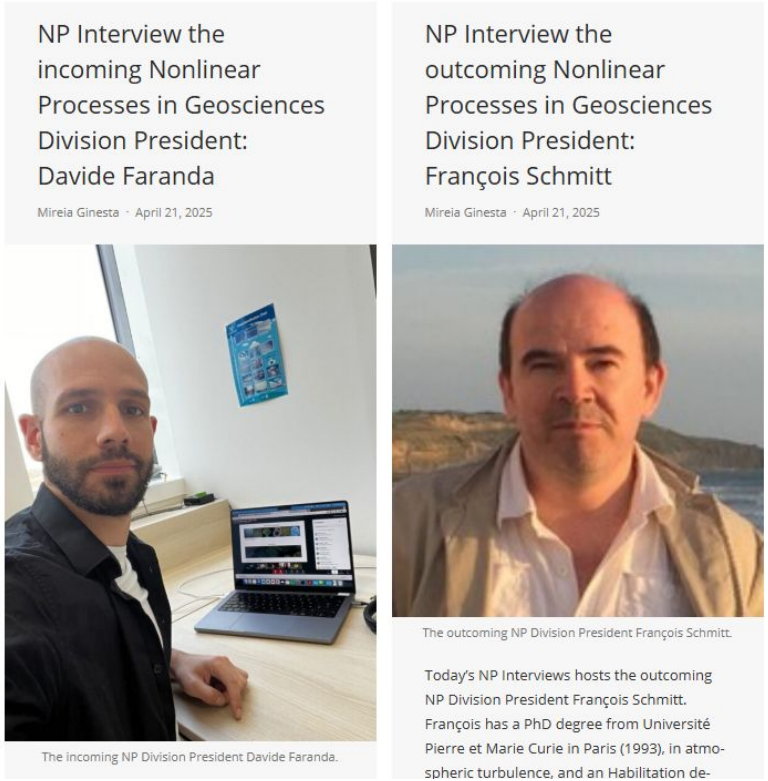

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… and many more!

You have something interesting! Share it with the community 🙂

SOCIAL MEDIA

Transitioning towards BlueSky… coming soon!

egu25_np

ECS Representative activities

OTHER ACTIVITIES

🌈 **EDI Committee, promoting equity, diversity, and inclusion in our field → visit us in the Booth!** (other WG include Outreach Communication, Life-Career Wellness, Career Jobs)

Webinars (e.g. Addressing vulnerabilities in the field work)

Short courses

ECS Representative activities

OTHER ACTIVITIES

🌈 **EDI Committee, promoting equity, diversity, and inclusion in our field → visit us in the Booth!** (other WG include Outreach Communication, Life-Career Wellness, Career Jobs)

Webinars (e.g. Addressing vulnerabilities in the field work)

Short courses

→ **More people joining the ECS Reps team; stay tuned!**

4. Awards and Medal

European Geosciences Union

EGU European Geosciences Union

Meetings | Publications | Outreach | www.egu.eu

Awards and Medals

EGU Awards & Medals: Recognise outstanding research in Earth, planetary, and space sciences; foster next-generation geoscientists.

Union Medals: Honour lifetime or exceptional contributions; includes our Richardson Medal

Early Career Recognition: Arne Richter Awards and Division Outstanding Early Career Scientist Awards highlight emerging talent.

OSPP Competition: Outstanding Student and PhD candidate Presentation (OSPP) Awards. Thanks Valerio Lembo Melinda Galfi

LEWIS FRY RICHARDSON MEDAL 2025

LEWIS FRY RICHARDSON MEDAL 2025

Vincenzo Carbone

The 2025 Lewis Fry Richardson Medal is awarded to Vincenzo Carbone for outstanding contributions to the study of turbulence in magnetohydrodynamics, particularly in the solar wind and space plasmas, as well as its impact on the Earth's magnetosphere and climate.

Vincenzo Carbone

Vincenzo Carbone contributed pioneering studies of magnetohydrodynamic (MHD) turbulence of the solar wind and space plasma. One of his major achievements was the introduction of an MHD cascade model which fitted observed scaling laws and revealed the multifractal structure of fully developed MHD turbulence. In addition, he developed a number of MHD turbulence shell models which were able to explain several relevant phenomena in solar physics, such as the anisotropy of the turbulent cascade in the solar wind, the statistical properties of solar flares, and the evolution of MHD turbulence in the magnetic loops of the solar corona. His comprehensive studies of the solar wind led to the book "Turbulence of the solar wind" and the review "The solar wind as a turbulence laboratory" which are considered as milestones by researchers in this field.

DIVISION OUTSTANDING EARLY CAREER SCIENTIST AWARD

NP Nonlinear Processes in Geosciences

The 2025 Division Outstanding Early Career Scientist Award is awarded to Johannes Jakob Lohmann for important contributions to our understanding of non-linear climate dynamics during the last glacial period.

Johannes Jakob Lohmann

By innovative time series analyses of ice core records, Johannes Jakob Lohmann showed that the occurrence of abrupt climate changes comprises intrinsically deterministic dynamics modulated by slowly varying external forcing, but also a concrete stochastic driver. His work bridges long-held opposing views, and brings us closer to a definite understanding of these most puzzling abrupt changes. He has in recent years made significant advances in the theoretical understanding of multi-stability and tipping points in the climate as a chaotic, heterogeneous, and non-autonomous complex system. With an emphasis on the Atlantic ocean's circulation, he showed that a complicated form of rate-induced tipping can occur, which may lead to a loss of predictability of the future climate state. By creative use of climate models and a deep understanding of dynamical systems, he presented an unusually deep view into the complicated bifurcation structure of the climate system, including its unstable states, which are very much underexplored. The knowledge he showed can hold the key to predicting different types of tipping points.

2024 NP OUSTANDING STUDENT POSTER PRESENTATION

NP Nonlinear Processes in Geosciences

The 2024 Outstanding Student and PhD candidate Presentation (OSPP) Award is awarded to Abdallah Aoude for the poster/PICO entitled:

Design of a new laboratory earthquake experiment (Aoude, A.; Stefanou, I.; Semblat, J.-F.; Rubino, V.)

Click here to download the poster/PICO file.

Abdallah Aoude is a PhD candidate at Ecole Centrale de Nantes, France. His research focuses on the experimental design of earthquake control strategies, specifically through the development and design of analogue fault systems to study and test earthquake nucleation and control. At EGU24, Abdallah presented a new experiment that simulates earthquake-like events in the laboratory. This experiment is designed to implement and test existing control theories to prevent instabilities and achieve controlled slip rates, while also enabling the study of earthquake nucleation and rupture propagation.

Abdallah Aoude

2024 NP OUSTANDING STUDENT POSTER PRESENTATION

Design of new laboratory earthquake experiment

Abdallah Aoude[1], Ioannis Stefanou[1], Jean-Francois Semblat[2], Vito Rubino[1]
[1]Nantes Université, Ecole Centrale Nantes, CNRS, Institut de Recherche en Génie Civil et Mécanique (GeM), UMR 6183, F-44000 Nantes, France
[2]ENSTA-Paris, Institute of Mechanical Sciences and Industrial Applications
abdallah.aoude@ec-nantes.fr, ioannis.stefanou@ec-nantes.fr, jean-francois.semblat@ensta-paris.fr, vito.rubino@ec-nantes.fr

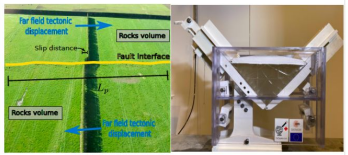
1-Context

Human activities can induce seismicity by injecting fluids into the Earth's crust, as observed in geothermal operations. Recently, it has been demonstrated that controlling the pressure of the injected fluids can mitigate earthquakes. These mitigation strategies are designed using the mathematical theory of control [1-4].

In this study, we present a new experimental setup designed to test the mathematical theory of control. It consists of an analog fault surrounded by an elastic material, enabling us to study slip propagation.

2-Laboratory experiment: Scaling laws

The design is based on scaling rules used to downscale instabilities of earthquakes from natural faults (prototypes) to laboratory (models).



Scaling rules:

$$\lambda_{\Delta\tau} = \frac{\lambda_{G2}\lambda_\delta}{\lambda_L}, \quad \lambda_t = \frac{\lambda_L}{\lambda_{c_s}}, \quad \lambda_L = \frac{\lambda_{\Delta\tau}\lambda_{c_s}}{\lambda_{\Delta G}}$$

$\lambda_x = \frac{\text{model quantity } X_m}{\text{prototype quantity } X_p}$

Physical quantities	Non-dimensional ratio
$\Delta\tau$ shear stress drop	$\lambda_{\Delta\tau} = \frac{(\Delta\tau)_m}{(\Delta\tau)_p}$
δ slip distance	$\lambda_\delta = \frac{\delta_m}{\delta_p}$
L length scale	$\lambda_L = \frac{L_m}{L_p}$
c_s shear wave velocity	$\lambda_{c_s} = \frac{(c_s)_m}{(c_s)_p}$
G shear modulus	$\lambda_G = \frac{G_m}{G_p}$

3-Technical constraints and scenarios

Reference parameters: $G_p = 30$ GPa (Typical shear modulus for rocks); $(\Delta_\tau)_p = 3$ MPa (Typical shear stress drop for an earthquake); $L_m^{max} = 0.2$ m (Desired fault length in the laboratory)

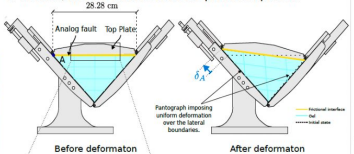
Constraints:
Minimum time required to sample data and control instabilities, $t_{sample} > 10$ ms → $G_m = 8000$ Pa, $(c_s)_m = 3.07$ m/s (properties of the material selected to reduce the time scale)
Minimum slip to be measured with sensors $\delta_m^{min} = 0.7$mm → $(\Delta_\tau)_m = 1000$ Pa (Shear stress drop needed at the analogue fault)

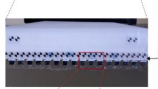
Scenario 1: Maximum earthquake magnitude $M_w = 4$
Using empirical equations, L_p for M_w=4 is: $L_p^{max} = 1100$ m
$\lambda_L = \frac{L_m^{max}}{L_p^{max}} = 1.2^{-4}$ → $L_m^{min} = \lambda_L L_p = 0.02$ m
Maximum slip time estimation: $t_m^{max} = 100$ ms

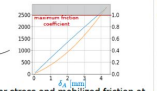
Scenario 2: Minimum Earthquake magnitude $M_w = 2$
Using empirical equations, L_p for M_w=2 is: $L_p^{min} = 110$ m
Minimum slip time estimation: $t_m^{min} = 10$ ms

4-Earthquake mechanical apparatus

Assuming the gel is incompressible, the system has a single degree of freedom, which is choosen to be the position of point A.

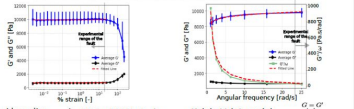



16 patches



Shear stress and mobilized friction at the analogue fault

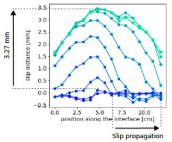
5-Rheology of the gel



Linearity → 0% to 300% strain
High strain rate → Low viscosity

Kelvin-Voigt model:

6-Slip propagation measured experimentally



Particle tracking velocimetry

Rupture speed $v_r \approx 4.4$ m/s

Theoretical [5] and experimental [6] range for v_r:

$c_s < v_r < \sqrt{2}c_s$

$\sqrt{G/\rho} \approx 3.4$ m/s 4.8 m/s

7-Conclusions and perspectives

A new laboratory earthquake experiment is designed, composed of an analogue fault surrounded by elastic media.

Deforming the analog rock increases the shear stress at the interface, thus allowing instabilities to take place.

The slip measured using particle tracking velocimetry propagates at a speed between c_s^{gel} and $\sqrt{2}c_s^{gel}$, as expected.

Next step: adjust the effective stress over the analogue fault using control theory [1-4], to avoid instabilities and achieve controlled slip rates.

References

[1] Stefanou, Ioannis. "Controlling anthropogenic and natural seismicity: Insights from active stabilization of the spring-slider model." Journal of Geophysical Research: Solid Earth 124.8 (2019): 8786-8802. doi: https://doi.org/10.1029/2019JB017847
[2] Stefanou, Ioannis, and Georgios Tzortzopoulos. "Preventing Instabilities and Inducing Controlled, Slow-Slip in Frictionally Unstable Systems." Journal of Geophysical Research: Solid Earth 127.7 (2022): e2021JB023410. doi: https://doi.org/10.1029/2021JB023410
[3] Tzortzopoulos, G., Controlling earthQuakes (CoQuake) in the laboratory using pertinent fault stimulating techniques. PhD thesis, Ecole centrale de Nantes (2021). doi: https://tel.archives-ouvertes.fr/tel-03670423
[4] Gutiérrez-Oribio, D., Tzortzopoulos, G., Stefanou, I., & Plestan, F. (2022). Earthquake Control: An Emerging Application for Robust Control. Theory and Experimental Tests. IEEE Transactions on Control Systems Technology. doi: https://doi.org/10.1109/TCST.2022.3242431
[5] Huang, Y., Wang, W., Liu, C., & Rosakis, A. J. (1998). Intersonic crack growth in bimaterial interfaces: an investigation of crack face contact. Journal of the Mechanics and Physics of Solids, 46(11), 2233-2259. https://doi.org/10.1016/
... & Campillo, M. (2011). Ultrafast ultrasonic imaging of ... ar regimes. Europhysics Letters, 96(5), 59003. doi:

... rt of the European Research Council (ERC) under the

NP Division Award Committee

Members

Ulrike Feudel (Chair)

Angelo Vulpiani

Bérengère Dubrulle => should have been replaced by Vincenzo Carbone

Freddy Bouchet

Kateryna Terletska

NP Division Award Committee <= New member decision

Members

Ulrike Feudel (Chair)

Angelo Vulpiani

Isabel Pedroso de Lima

Freddy Bouchet

Kateryna Terletska

NP Division Award Committee <= New member decision

Isabel Pedroso de Lima

Present positions: Associate Professor with Habilitation at the University of Coimbra (Portugal); Senior researcher at MARE – Marine and Environmental Research Centre / ARNET – Aquatic Research Network, Portugal; Coordinator of the MSc in Environmental Engineering, and Co-coordinator of the BSc and PhD in Environmental Engineering at the University of Coimbra.

Office address: Department of Civil Engineering, Faculty of Science and Technology, University of Coimbra, Rua Luis Reis Santos, 3030-788 Coimbra, Portugal

Email address: iplima@uc.pt

CV at: https://www.cienciavitae.pt/portal/en/5318-1CBB-F894

HOW TO BECOME AN AWARDEE?

- Nominations are exclusively by EGU members (no self nomination) => deadline June 15 2025
- 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**.
-

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

5. Nonlinear Processes in Geophysics Journal (by Daniel Schertzer)

Open Access Publications

- Open Access Journals
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Nonlinear Processes in Geophysics

European Geosciences Union

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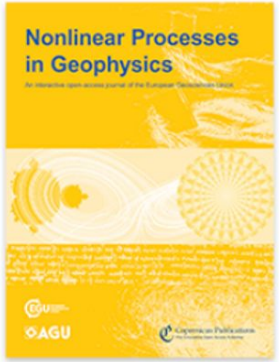

OPEN ACCESS | INTERACTIVE PUBLIC PEER REVIEW | ARTICLE LEVEL METRICS | MODERATE ARTICLE PROCESSING CHARGES | FINANCIAL SUPPORT

Executive editors: Christian Franzke, Ana M. Mancho, Daniel Schertzer & Olivier Talagrand

eISSN: NPG 1607-7946, NPGD 2198-5634

Nonlinear Processes in Geophysics (NPG) is an international, inter-/trans-disciplinary, non-profit journal devoted to breaking the deadlocks often faced by standard approaches in Earth and space sciences. It therefore solicits disruptive and innovative concepts and methodologies, as well as original applications of these to address the ubiquitous complexity in geoscience systems, and in interacting social and biological systems. Such systems are nonlinear, with responses strongly non-proportional to perturbations, and show an associated extreme variability across scales.

All sections of NPG are more than ever eager to deal with big data and artificial intelligence with new sensing, analysis, and simulation technologies. These encompass approaches ranging from data-driven research to mathematical physics.

Improving NPG

- NPG: **the open-access journal of innovative concepts and methodologies in geosciences**

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- All sections of NPG are more than ever eager to deal with **big data and artificial intelligence** with new sensing, analysis, and simulation technologies. These **encompass approaches ranging from data-driven research to mathematical physics.**

- NPG is published by the EGU and is a **partner journal of the AGU**. It is open-access with a public discussion stage to ensure a more objective review process. NPG maintains sections for research articles, review articles, comments and replies, book reviews, and fast-track NPG Letters. NPG Letters are short papers with a strong impact. Authors are strongly encouraged to consider publishing in this section.

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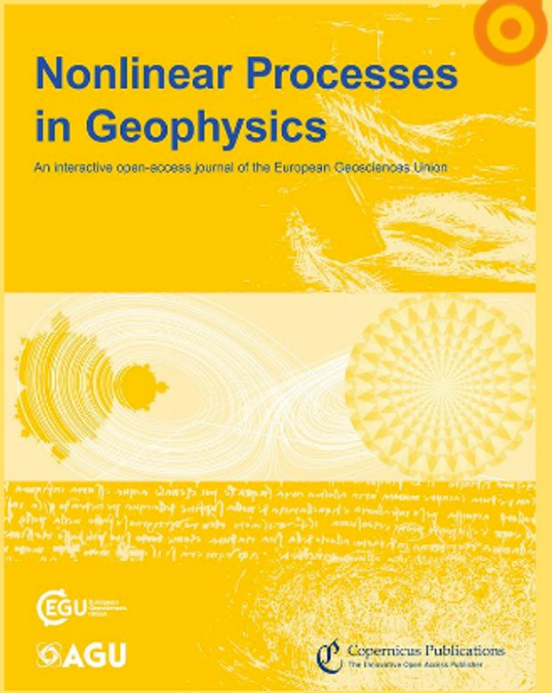
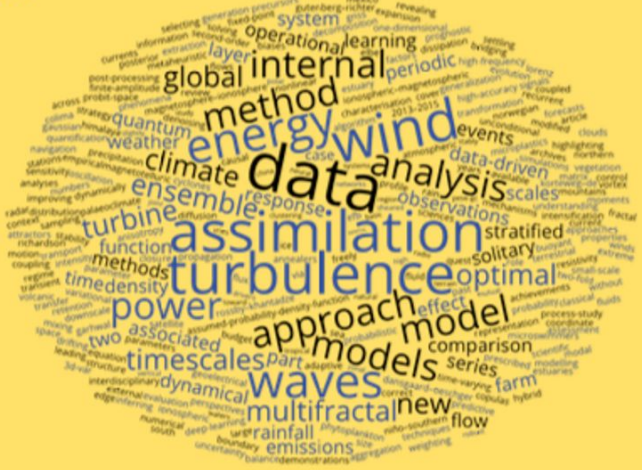


A community-driven journal that in 2024* published extensive, exciting new research on:



"NPG is simply, and resolutely, nonlinear!"

Daniel Schertzer
Executive editor

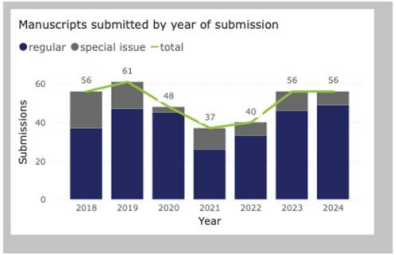
*The word cloud displayed was generated using all the titles of articles published by the journal in 2024.

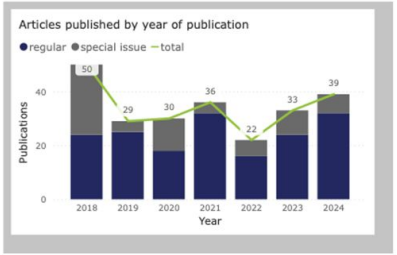
EGU Publications
Transparent
Community-driven
Not for profit

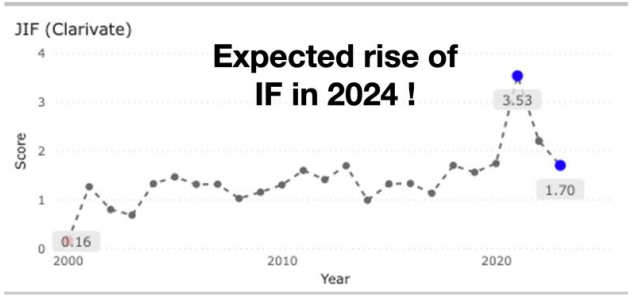
Key Journal Metrics:

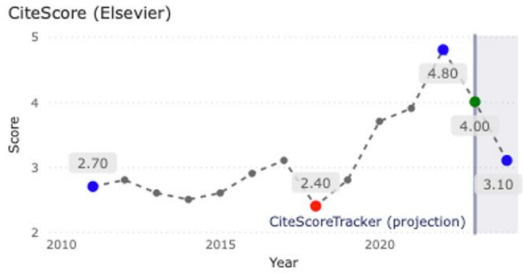
Papers published in 2024:	**39**
Number of countries where authors were based in 2024:	**25**
Number of countries where editors were based in 2024:	**16**

NPG data









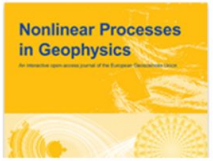
With the new Impact factor our journal according to 2023 data would be ranked in the following percentiles in its disciplines

- Geosciences, Multidisciplinary: Q2
- Mathematics, Interdisciplinary Applications: Q2
- Meteorology and Atmosphere Sciences: Q3
- Fluids and Plasmas: Q2

NPG is indexed in the Web of Science, Scopus, Google Scholar, etc.

We refrains from displaying the journal metrics prominentlyon the landing page since citation metrics used in isolation do not describe importance…

APC



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The NPG manuscript types *NPG Letters*, *brief communication*, *comment & reply*, and *book review* require significantly fewer pages than regular, full-length articles. The following per-paper APCs are valid for any such short article submitted from **1 January 2025**:

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EGU members	€810 net	€405 net	Waived
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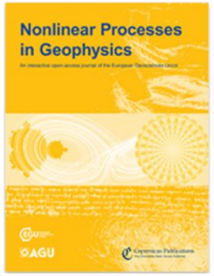
EGU members covered by IA	€810 net	€405 net	Waived

e.g. NPG Letters: 810€/405€/0€ (-10%) !!

Call



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- Consider to write a review paper for NPG
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