

2026 Nonlinear Processes Division Meeting

Davide Faranda (Division President)

Vienna, Austria & Online | 3–8 May 2026



Meetings | Publications | Outreach | www.egu.eu

NP Division Meeting Agenda

1. **Overview of the EGU 2026 General Assembly**
2. **EGU NP Division structure and Activities**
3. **Early Career Scientist Activities (by Mireia Ginesta)**
4. **Awards and Medals**
5. **Nonlinear Processes in Geophysics Journal**

The EGU Programme Committee welcomes you to EGU26!



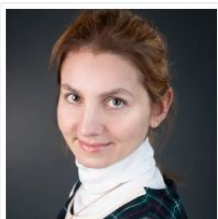
EGU25

Photo credit: MHR

Our goal:
to provide a forum where scientists, especially early career researchers, can present their work and discuss their ideas with experts in **all fields of geoscience**, by offering a **hybrid, inclusive and environmentally friendly** as possible **General Assembly** that responds to the main **scientific challenges** of geosciences worldwide

The EGU Programme Committee welcomes you to EGU26!

EGU Volunteer (NH)



Ira Didenkulova

Outgoing



Maria-Helena
Ramos

EGU Volunteer (HS)

EGU Office



Jane Roussak
EVENTS MANAGER

Incoming



Viktor J. Bruckman

EGU Volunteer (ERE)

Meet the PC Co-chairs &
EGU Events Manager:

Tue, 05 May
15:00–15:30 CEST

EGU booth - Hall X2

EGU26 Programme Committee composition
(~40 people):

https://www.egu26.eu/about/programme_committee_composition.html

EGU26: numbers at a glance

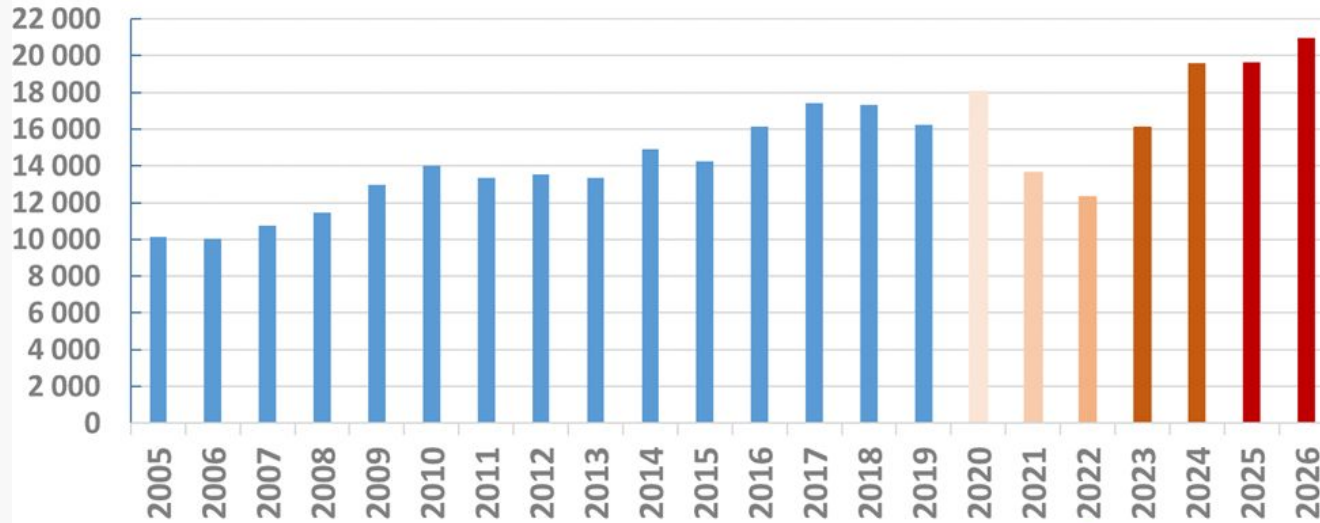
- **1,000+ active sessions in total**
 - ~800 disciplinary PG sessions (60 ITS sessions)
 - 62 Short Courses + Artist-in-Residence workshops
 - 20 Education and Outreach Sessions (EOS), GIFT workshop
 - 38 Medal and Award Lectures
 - 9 Union Symposia and 7 Great Debates
 - 150+ Townhall & Splinter meetings scheduled
- **ECS Networking**
- **Science for Policy**



EGU25

Photo credit:
MHR

More on: egu26.eu



- 21,117 abstracts submitted at the deadline

20,534 active scheduled

abstracts in 2026

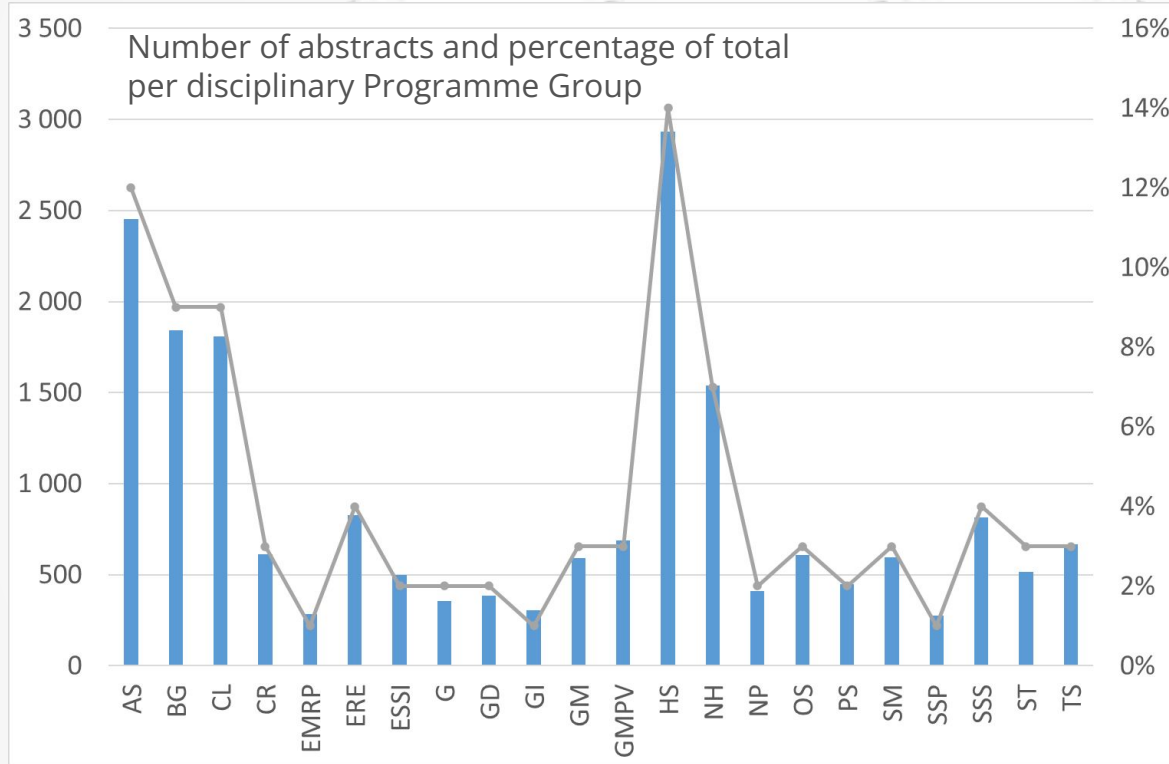
(as of 21 April 2026)

On-site only
up to 2019

Online only

Hybrid orals only

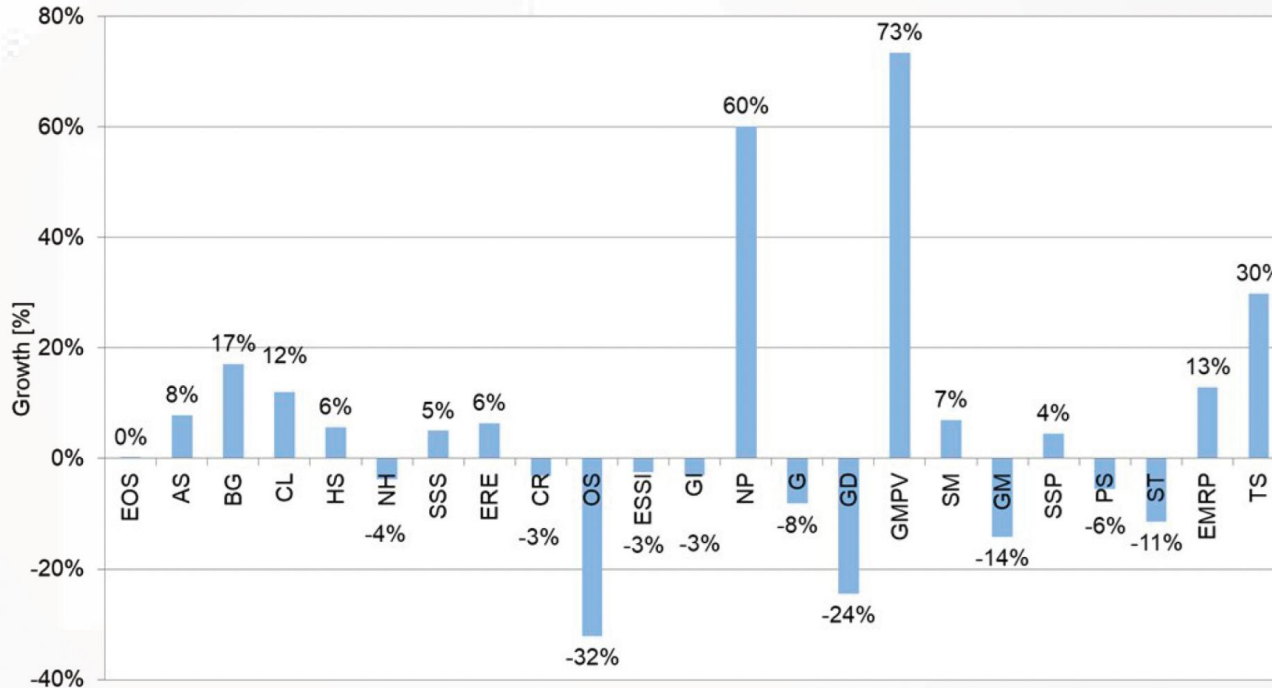
Fully hybrid
since 2023



- Overall, about 25 abstracts per session at EGU26
- Presentation types:
 - Orals: 43%
 - PICO: 7%
 - Posters on site: 47%
 - Posters virtual: 3%
- ECS authors: 58%

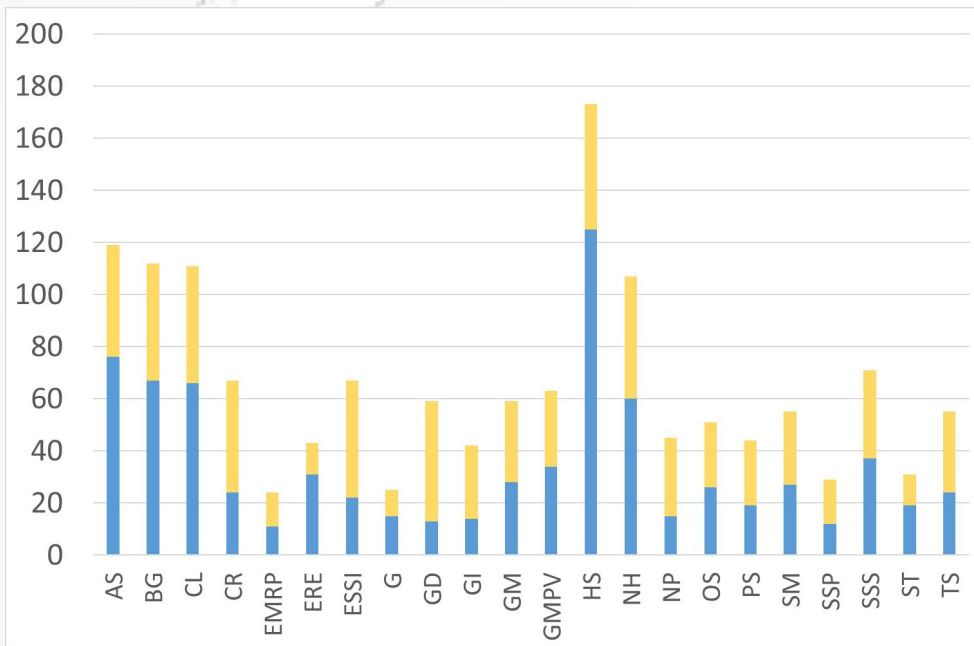
(as of 21 April 2026)

Growth in abstracts EGU25 to EGU26



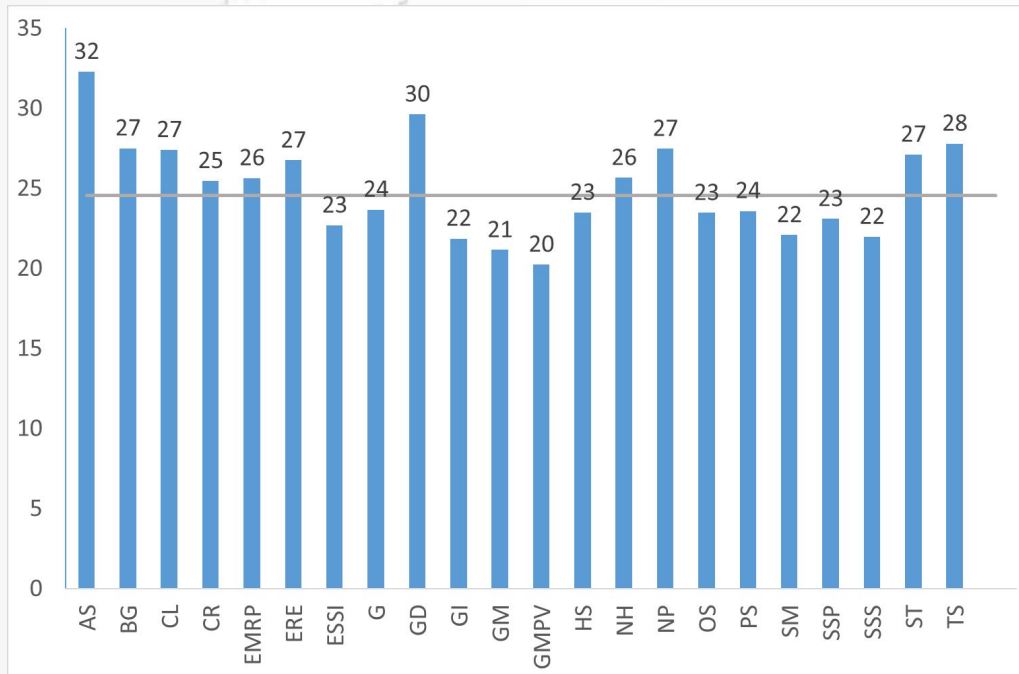
- Growth/Decrease in abstract from EGU25 to EGU26

Number of lead (blue) and co-organized (yellow) sessions per disciplinary Programme Group



(as of 21 April 2026)

Abstracts per (lead) sessions per Programme Group (PG)
(median: 24.6 abs/session)



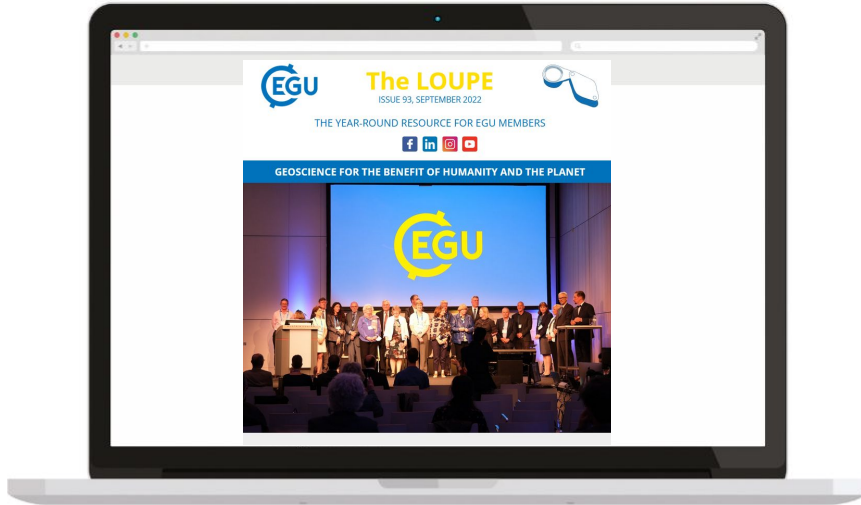
- Overall, about 25 abstracts per session at EGU26

(as of 21 April 2026)

Did you know the EGU has a monthly newsletter?



www.egu.eu | info@egu.eu



The email newsletter
informs EGU members about

- EGU NEWS AND BLOGS
- GENERAL ASSEMBLY UPDATES
- HIGHLIGHTS FROM EGU JOURNALS
- JOBS AND MEETINGS

and much more!



www.egu.eu/newsletter



2. EGU NP Division Structure

European Geosciences Union



















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NP Division Structure

Thanks!


NEW EDI + Policies
division officer

President	Davide Faranda 
Deputy President	François Schmitt  (outgoing)
Programme Group Chair	Davide Faranda 
Science Officers	Tommaso Alberti  NP1: Mathematics of Planet Earth
	Christian Franzke  (outgoing) 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  (outgoing) NP7: Nonlinear Waves
	Henk Dijkstra  NP8: Emergent Phenomena in Geosciences
OSPP Co-ordinators	Valerio Lembo 
	Vera Melinda Galfi 
Publications	Daniel Schertzer 
Scientific Affairs	Valerio Lembo 
ECS Representative	Mireia Ginesta-Fernandez  (outgoing)

Role of the New EDI Officer

- Advise leadership on EDI matters, relay concerns from members, and provide structured feedback to the EDI Committee.
- Gather and synthesize member input on EDI issues, ensuring communication across the division.
- Support implementation and visibility of EDI actions and initiatives, including meetings, reporting, and participation during the General Assembly.

Role of the New Policy Officer

- Support nonlinear scientists in engaging with policy by sharing relevant opportunities, resources, consultations, events, and policy news, while helping EGU connect policymakers with timely, useful, and scientifically robust hydrological evidence.

Candidates for the NP open positions (vote)



- **NP Deputy President Candidate:**

Tommaso Alberti, INGV, Italy



- **NP2 Dynamical Systems Approaches Candidate:**

Emma Holmberg, University Of Bern, Switzerland



- **NP7 Nonlinear Waves**

Meriem Krouma, Uppsala University, Sweden



- **NP Equity Diversity and Inclusivity + Policies Officer Candidate:**

Mireia Ginesta, University of Oxford, UK



- **NP Early Career Scientist Representative**

Anupama K Xavier, University of Bristol, UK

Task force: Future of the NP division

- Set up after the DBM at the GA 2025
- Co-Leads: Tommaso Alberti, Reik Donner, Vera Melinda Galfi
- So far two online community meetings: 14 October 2025, 9 December 2025

Tasks to be tackled:

1. Review and consolidate the NP identity (e.g. update division description)
2. Propose possible amendments on division name
3. Review and update scientific substructure (thematic areas) of the division

Task force: Future of the NP division

Idea: The term “Nonlinear Processes” shall remain integral part of the future division name (keeping the abbreviation NP), but extended to better reflect the identity of the NP community

Proposed future division names:

- **Nonlinear Processes**
- **Nonlinear Processes in Geophysics/Geosciences**
- **Nonlinear Processes, Methods and Interdisciplinary Applications**
- Mathematics, Statistics and Nonlinear Geosciences
- Methods and Theory in Nonlinear Geosciences
- Theoretical and data-driven methods in Nonlinear Geosciences
- Methods and interdisciplinary applications in Nonlinear Geosciences

3. Early Career Scientists and Communication

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EGU Nonlinear Processes Division blog

Blog Editors

Emma Holmberg 

Mireia Ginesta 

Tommaso Alberti 



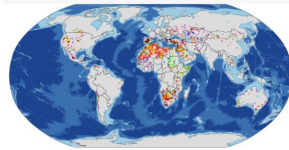
NP Nonlinear Processes in Geosciences

[EGU Blogs](#) » [Division blogs](#) » Nonlinear Processes in Geosciences

Nonlinear Processes in Geosciences

ECS Spotlight: When “Day Zero Drought” Dries the Tap: How Drought is Reshaping Water Scarcity in the Anthropocene

Ravinandrasana P. Vecchia · April 20, 2026



Spatial distribution of the decadal ToFE of DZD events across the globe from 1900 to 2100. Colored shading indicates the first decade during which DZD becomes statistically attributable to anthropogenic climate change, defined as the first decade in which the Fraction of Attributable Risk is greater than 0.99 (FAR > 0.99). Gray regions indicate grid cells where no DZD event is projected to emerge before 2100. For regions with reservoirs, the ToFE is considered to be the first decade after the year of completion of their respective reservoirs, when all DZD criteria are simultaneously met. By aligning the emergence timing with the

New Editorial Voices at NPG

Mireia Ginesta · February 11, 2026



As part of welcoming new members to the editorial team of Nonlinear Processes in Geophysics (NPG), we are pleased to present short interviews with two newly appointed editors, Dr. Kira Rehfeld and Dr. Jezabel Curbelo. They share their scientific backgrounds, motivations for joining the journal, editorial goals, and perspectives on emerging research directions in nonlinear geosciences. Their insight ... [\[Read More\]](#)

ABOUT

Welcome to the blog of the [Nonlinear Processes in Geosciences \(NP\) Division](#) of the [European Geosciences Union \(EGU\)](#). This blog serves as a platform for the nonlinear processes community to share news, events, and activities, as well as updates on the latest research being undertaken. Everybody is invited to contribute to the blog and submit posts to the editor [Tommaso Alberti](#).



10 POSTS 25–26

SECTIONS

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

You have something interesting!
Share it with the community



Communications from Scientific Affairs

- Rossby waves workshop in Amsterdam (19-21 January 2026)



- 130 participants (plus 50 online)
 - 2+ seed ideas
 - Perspective paper (discussed on Tuesday)
 - Applied for Summer School 2027 at ICTP, Trieste
- EDI Workshop on Diversity in Geosciences not funded
 - LinkedIn webpage soon available (waiting for the EGU dedicated office)
 - Contacts with AGU-NG Divisions, SIAM Mathematics of Planet Earth for joint activities (work in progress)
 - Need to tighten connections among divisions at the scientific officer level;

Happy to take on proposals and offer support!

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!

4. Awards and Medal

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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

Fellows and Richardson Medal Committee (vote)

	Current	Next Year (proposition)
Committe Chair	Ulrike Feudel	Ulrike Feudel
Member	Angelo Vulpiani	Freddy Bouchet
Member	Freddy Bouchet	Isabel de Lima
Member	Isabel de Lima	Kateryna Terletska
Member	Kateryna Terletska	Anastasios Tsonis

LEWIS FRY RICHARDSON MEDAL 2026

Anastasios A. Tsonis

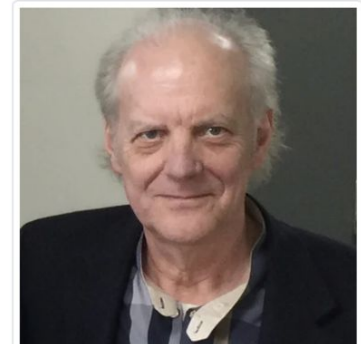
[Home](#) / [Awards & medals](#) / [Lewis Fry Richardson Medal](#) / 2026 / Anastasios A. Tsonis

Site search



The 2026 Lewis Fry Richardson Medal is awarded to Anastasios A. Tsonis for outstanding contributions applying methods of nonlinear data analysis to atmospheric science and the theory of complex networks to coupled subsystems of the climate system.

Anastasios Tsonis has been one of the key researchers in nonlinear geosciences for several decades. His work spans a wide range of topics in atmospheric and climate dynamics. It uses state of the art methods from nonlinear dynamics, chaos theory, statistics and complexity science in close synergy with experimental data. He was one of the first researchers who advocated the use of nonlinear state space reconstruction methods and nonlinear data analysis in the geosciences, in particular in atmospheric science. Based on a subtle combination of advanced statistical methods and methods from dynamical systems theory, he showed how to distinguish between records generated by deterministic chaos and by random processes.



Anastasios A. Tsonis

ARNE RICHTER AWARDS FOR OUTSTANDING EARLY CAREER SCIENTISTS 2026

Francisco de Melo Viríssimo

[Home](#) / [Awards & medals](#) / [Arne Richter Awards for Outstanding Early Career Scientists](#) / [2026](#) / [Francisco de Melo Viríssimo](#)

Site search



NP Nonlinear Processes in Geosciences

The 2026 Arne Richter Award for Outstanding Early Career Scientists is awarded to Francisco de Melo Viríssimo for groundbreaking interdisciplinary research spanning nonlinear dynamics, marine biogeochemistry and climate science, and for outstanding contributions as educator, mentor, and scientific community leader.

De Melo Viríssimo is an exceptional Early Career Scientist whose interdisciplinary research bridges mathematics, geosciences, and climate science. His career exemplifies scientific versatility, creativity, and leadership, with contributions that have reshaped understanding across multiple fields. After completing a PhD in mathematics, De Melo Viríssimo redirected his expertise from computational mathematics to marine science at the National Oceanography Centre, in the UK. There, he made a transformative discovery on the role of seasonality in regulating the biological carbon pump, solving a



Francisco de Melo Viríssimo

OUTSTANDING STUDENT AND PHD CANDIDATE PRESENTATION (OSPP) AWARDS 2025

Joaquín Espinoza Troni

[Home](#) / [Awards & medals](#) / [Outstanding Student and PhD candidate Presentation \(OSPP\) Awards](#) / [2025](#) / [Joaquín Espinoza Troni](#)

Site search



NP Nonlinear Processes in Geosciences

The 2025 Outstanding Student and PhD candidate Presentation (OSPP) Award is awarded to Joaquín Espinoza Troni for the poster/PICO entitled:

Electron scale magnetic holes generation driven by Whistler-to-Bernstein mode conversion in fully kinetic plasma turbulence (Espinoza Troni, J.; Arrò, G.; Asenjo, F. A.; Moya, P. S.)

Click [here](#) to download the poster/PICO file.



Medal Lectures

Orals: Thu, 7 May, 19:00–20:00 | Room M2

The oral presentations are given in a hybrid format supported by a Zoom meeting featuring on-site and virtual presentations. The button to access the Zoom meeting appears 15 minutes before the time block starts.

Chairperson: Davide Faranda

19:00–19:05

Introduction (Division President)

19:05–19:35 | EGU26-1503 ★ | solicited | Lewis Fry Richardson Medal Lecture | On-site presentation

On the Origins of Randomness ▶

Anastasios Tsonis ✉

19:35–19:40

Discussion Time

19:40–20:00 | EGU26-21589 ★ | ECS | solicited | Arne Richter Award for Outstanding ECS Lecture | On-site presentation

Is it possible to have confidence in climate information with structurally uncertain models? ▶

Francisco de Melo Viríssimo ✉

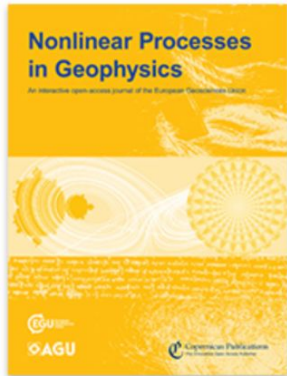
Final remarks

5. Nonlinear Processes in Geophysics Journal



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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.

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

Nonlinear Processes in Geophysics

Journal report 2025



40
Manuscripts submitted (report year)

-27%
Relative change (pre-report year)

1299
Manuscripts submitted (all time)

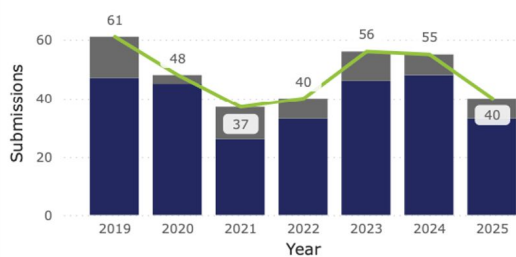
29
Articles published (report year)

-26%
Relative change (pre-report year)

434
Articles published (all time)

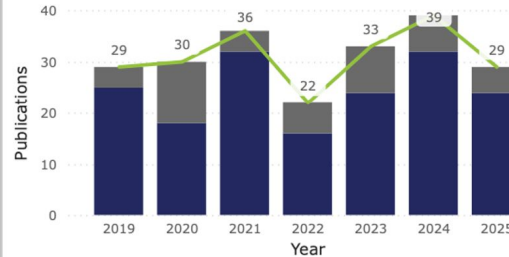
Manuscripts submitted by year of submission

● regular ● special issue — total



Articles published by year of publication

● regular ● special issue — total



2025 submissions (as of April 2026):

40	7	2	1	15	15
Submitted of which:	Rejected (desk)	Withdrawn	Rejected (review)	Published	In progress

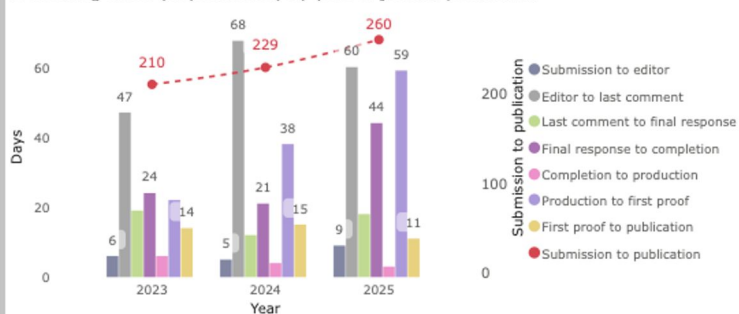
Processing of articles published in report year (days)

	Avg	Med	Min	Max
Submission to journal publication	281	260	147	511
Discussion phase				
Submission to editor assignment	12	9	1	33
Editor assignment to preprint decision	2	0	0	10
Decision to discussion start	3	1	0	34
Discussion start to last referee comment	67	53	27	184
Last referee comment to final response	24	18	0	94
Peer-review completion				
Final response to revised submission	34	34	0	77
Revised submission to last referee report	55	27	15	349
Last referee to decision for publication	18	7	0	144
Decision to first production upload	6	3	0	23
Production upload to first proof	54	59	6	80
First proof to journal publication	21	11	2	131

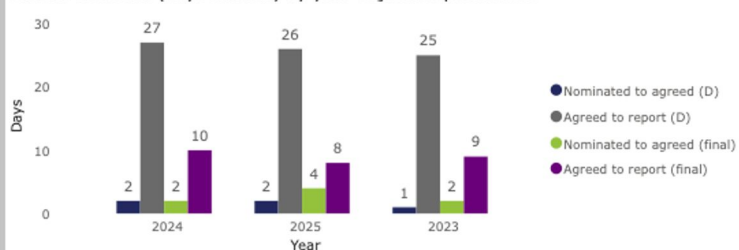
Referee statistic

	Avg	Med	Min	Max
Discussion phase				
Nominated	9	7	2	30
Agreed	3	2	2	6
Reports	2	2	2	5
Nomination to agreement (days)	5	2	0	53
Agreement to report (days)	25	26	0	59
Peer-review completion				
Nominations	4	2	1	30
Agreed	2	2	1	4
Reports	2	2	1	4
Nomination to agreement (days)	4	4	0	19
Agreement to report (days)	8	8	0	32

Processing times (days median) by year of journal publication



Review statistics (days median) by year of journal publication



With 2024 data and Impact Factor of 2.4 NPG is currently ranked:

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

We need to improve the NPG rankings (at least one Q1)

Surplus

€ 2,941.73

Articles covered by agreements

14%

Report year settlement

Position	Amount (€)
Income	
APCs	▲ 33,459.50
Total	33,459.50
Expenditures	
Copernicus services	▲ 29,325.00
Bank and credit card fees	▲ 360.93
Running costs	▲ 831.84
Total	30,517.77

Report year discount budget


Position	Amount/Ratio
Discounts granted by EE/CE	€4,610.50
EED discounts	€0
R4L discounts	€0
Discounts used (total)	€4,610.50
Discount budget	€5,300.00
Usage of discount budget	87.0%

Top institutional agreements (report year)

Agreement	Articles
CSIC (Spain)	1
FU Berlin	1
Helsinki University incl. Helsinki University Central Hospital	1
University of Bergen	1

Journal settlement by accounting year

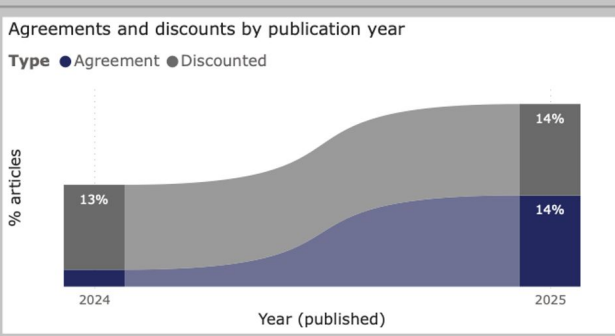
● Expenditures ● Income ● Surplus



Year	Expenditures (K€)	Income (K€)	Surplus (K€)
2023	43.5K	43.49K	-€ 0K
2024	42.5K	45.21K	€ 3K
2025	30.52K	33.46K	€ 3K

Agreements and discounts by publication year

Type ● Agreement ● Discounted

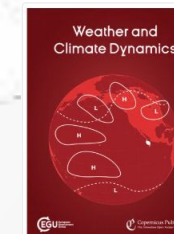
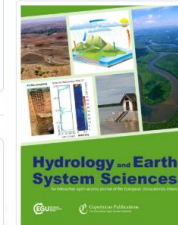
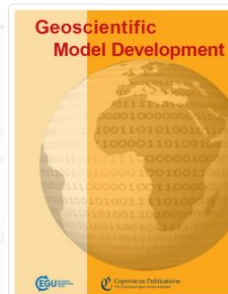
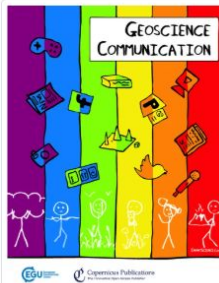
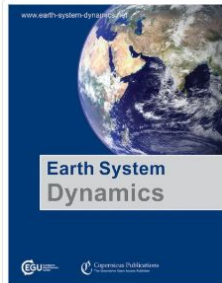
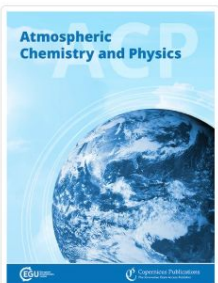
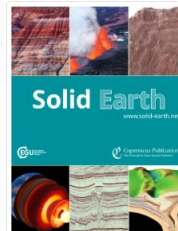
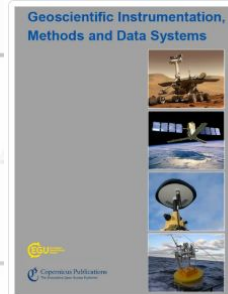
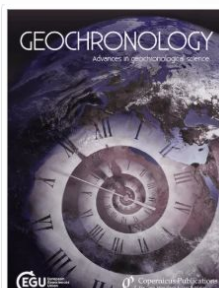
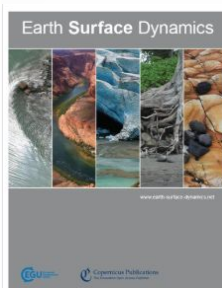
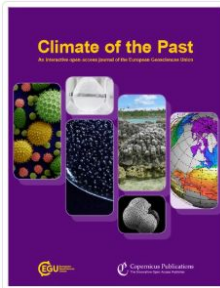
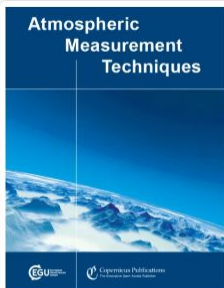
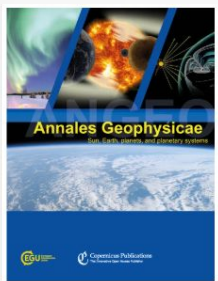


Year (published)	Agreement (%)	Discounted (%)
2024	13%	13%
2025	14%	14%

- We would like session conveners to propose Special Issues and Collections
- Consider to submit NPG Letters papers
- Consider to write a review paper for NPG
- If you are interested, then please contact Executive Editors about it

PUBLICATIONS

Open access peer-reviewed journals





**Please
Give Us
Feedback!**

general-assembly@egu.eu