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This monthly newsletter is intended to keep IUGG Members and individual scientists informed about the activities of the Union, its Associations and interdisciplinary bodies, and the actions of the IUGG Secretariat, Bureau, and Executive Committee. Past issues are posted here. E-Journals may be forwarded to those who will benefit from the information. Your comments are welcome.

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1. IUGG – The People at the Forefront (LVI): Jean-Marie Kileshye Onema, Secretary General of the International Association of Hydrological Sciences (IAHS), 2023-2027



I am a national from the Democratic Republic of Congo (DR Congo) currently residing in Mahikeng, the capital city of the North-West Province of the Republic of South Africa. I was trained as a Mining Engineer and dewatering in mining exploitation shifted my interests to water engineering, hydraulics and applied hydrology. I therefore undertook post graduate studies in Water Resources Engineering and Management that culminated in a PhD from the School of Civil

Jean-Marie Kileshye Onema, IAHS Secretary General and Built Environment of the University of the Witwatersrand, in South Africa, with a focus on an ungauged basin of the equatorial Nile basin – the Semliki.

I had the privilege and opportunity to go for a number of specialised trainings on adaptive management of water resources with the University of Osnabruck, Germany; geodesy applications to water resources at The University of Nevada in Reno, USA, on extreme weather events with Cranfield University, UK; on funding for capacity building in water at IHE Delft, Netherlands, to mention a few. I am currently taking a course with The Harvard Kennedy School. In October 2005, I was awarded the best young scientist award for the Southern African Development Community (SADC) region during the 6th WaterNet/WARFSA/GWPSA symposium held in Eswatini, South Africa. Similarly, the Applied Training Project of the Nile Basin Initiative awarded a scholarship to support my PhD studies in January 2006. Furthermore, the Henry Bradlow and John Lemmer Post Graduate Merit Awards were extended to me in the course of my doctorate in 2008 by the University of the Witwatersrand, South Africa.

I am currently holding an extraordinary full professorship position within the Unit of Environmental Sciences and Management of North-West University, South Africa, a water engineering Professorship with the Faculty of Engineering of the University of Lubumbashi, DR Congo, and several senior visiting appointments at the University of Zimbabwe, the Catholic University of Bukavu, and the University of Kinshasa. I am heading the SADC subsidiary institution called <u>WaterNet</u> responsible for regional capacity development in water resources management.

I have served on the Management Board of the Institute of Water and Sanitation Development CapNet/UNDP, and (IWSD), the Association of Industrial and Technological Research Organisation (WAITRO). For six years (2016-2021) I was the African representative on the programmatic cooperation (DUPC) between the Royal Dutch Ministry of Foreign Affairs and IHE Delft. I currently sit on the Princeton Climate Institute Board, USA, and serve on the Strategic Advisory Council of environment and beyond based in Barcelona, Spain.



Project team of the CGIAR Challenge Program on Water and Food, Pretoria, South Africa, 2011

I joined IAHS during my graduate studies. I have interests in regional hydrology in ungauged basins, applied hydrology, extreme weather events, capacity development, and regional programme design and management. I have been part of several collaborative projects that look at hydrological assessment of land use developments, early warning systems for drought preparedness and adaptation across African, the Water, Energy, Food nexus and systemic approaches to innovations, water security and resilience in semi-arid Africa.

I cannot recall the exact date when I started receiving the IUGG newsletter but certainly more than 10 years ago. My formal engagement in IAHS took place during the IUGG General Assembly 2019 in Montreal, Canada, where I was elected as one of the Vice Presidents of the IAHS International Commission of Water Resources Systems (ICWRS). At the IUGG General Assembly 2023, I was elected IAHS Secretary General. This election was quite remarkable, and history was made as I

became the first African to hold the position of Secretary General since the inception of the Association in 1922. In July 2025, we had our preparatory field visit to Incheon, Rep. of Korea, in preparation for the IUGG General Assembly 2027. I discovered a very passionate IUGG Executive Committee, fully committed to see progress in science taking into account all environment and human peculiarities. I am looking forward to more fruitful and productive engagements within IUGG and beyond in the course of my tenure as IAHS Secretary General.

2. IUGG - Annual Report 2024



The IUGG Annual Report 2024 provides a comprehensive summary of the activities of the Union including its Associations, Union Commissions, and Programs.



We invite you to <u>download</u> this impressive summary of last year's activities.

IUGG thanks everyone who contributed to the Annual Report.

3. IUGG – Grants Program 2026-2027: Call for Proposals

IUGG continues its Grants Program for 2024-2027, which will complement the Union program of funding symposia and workshops organised or co-sponsored by Union Associations and Union Commissions. Key priority areas are defined for the Grants Program in line with IUGG overall scientific strategies:

- Creation of new knowledge in Earth and space sciences.
- Dissemination of knowledge, data and information on geophysics and geodesy.
- Geoscience for sustainable development.
- Geoscience and policy interface.
- Geoscience education and outreach in developing countries.

Proposals related to the priority areas are funded for a fixed term of one or two years. The IUGG Grants Program aims to support projects of importance to the international geophysical and geodetic community, which will explore new scientific ideas, develop future international initiatives, and follow open science practices. A typical proposal may be for a workshop or a meeting of experts from several disciplines to develop a specific scientific program or assessment, particularly addressing an enhancement of geophysical research and Earth science education in underdeveloped and developing countries. Although the range of activities supported is broad, the project proposals should be of scientific and societal importance, and their results are expected to provide clear recommendations to politicians and other decision makers at national and local levels

and to the general public in terms of the urgent actions to be undertaken. The deliverables of the projects should bring increased visibility to IUGG and the Union Associations.

Proposals can be submitted by IUGG Associations and Union Commissions only. Associations' bodies (e.g., Commissions, Task and Work Groups) seeking funding for a project should submit their proposals via the relevant IUGG Association or Union Commission. Any grant application must involve at least two IUGG bodies (Associations or Union Commissions): a Lead Applicant + at least one Supporting Applicant. Preference will be given to proposals that are multi- and trans-disciplinary and truly international, especially those involving more than two of the IUGG Associations and Union Commissions and representatives of several nations and countries. Proposals should be global or regional in scope and involve a multi-national group, especially scientists from developing countries, women, and earlier career researchers.

The number of proposals to be funded per year is not fixed, but depends upon relevance, quality, proposal budget requests, and the total amount of funds available for the Grants Program. The total funding for the Program in 2026-2027 is USD 100,000. A ceiling of USD 20,000 is imposed on all applications. Co-sponsorship from other sources is encouraged.

The deadline for the project proposal submission is 1 April 2026. All proposals are peer-reviewed in open competition by the IUGG Bureau. If necessary, experts may be invited to participate in the review process. Successful applicants will be notified by 1 June 2026.

Grants will be made for periods of one or two years commencing from 1 July 2026. Projects may be cancelled if progress has been unsatisfactory. For funded projects, an annual report is to be sent to the IUGG Secretariat by 31 October 2027 and subsequently annually on the same date for all multi-year projects. A final technical report (incl. the highlights of the project; deliverables; recommendations) and a financial report (incl. details and invoices about the expenditures which are covered by the IUGG funds) are to be submitted within three months of the date of the project completion.

Applicants are encouraged to submit their applications electronically.

The application form can be downloaded <u>here</u>.

4. IUGG – At the IAG Scientific Assembly 2025

The IAG Scientific Assembly 2025 (SA) was held at the 'Paracongressi' Conference Centre, in Rimini, Italy, over a 5-day period from 1 to 5 September. The conference centre is located on the edge of the Old Town, and is a modern, airy structure that was an ideal venue for the SA. The SA's theme was 'Geodesy for Changing Environment', which placed emphasis on measuring changes in the Earth System by means of geodetic technologies and methodologies.

The Opening Session on Monday 1 September featured short presentations by the IAG President, Richard Gross; the IUGG President, Chris Rizos; a Councillor of the city of Rimini; a representative of the University of Bologna; the chair of the Local Organising Committee, Susanna Zerbini; the IAG Secretary General, Daniela Thaller; and the Journal of Geodesy Young Author 2024 Awardee, Justyna Sliwinska.

The attendance was very pleas ing, exceeding the planned for registrations by a considerable margin, with 659 attendees from 49 countries. Over 700 abstracts were submitted for 57 oral and poster sessions. Oral presentations were made across four parallel sessions. In addition, each day featured a Highlight Session on a contemporary theme, and each day's final session was reserved for poster presentations.

Over the five days of the SA attendees heard the latest geodetic research findings, presentations on a range of ambitious satellite and terrestrial geodetic missions, and updates on the many data and analysis products provided by the geodetic services. The progress across all established geodetic fields — such as reference frames, gravity field mapping & interpretation, Earth's rotation & orientation, geodetic theory and methodology, and technology & applications of satellite navigation/positioning systems — was very impressive.

Attendees also heard the latest developments in Al-related algorithms, Quantum sensor technology, planned space missions, new service initiatives and products, and more; presented in oral sessions and via posters organised by the four IAG commissions, several IAG inter-commission committees and the IAG's Global Geodetic Observing System (GGOS).

IAG also took the opportunity to host a IAG Council meeting with latest updates and information on special initiatives such as working for diversity in the IAG organisation, how IAG could use its network to have more IUGG/IAG membership countries, and plans for establishing a IAG Secretariat in Vienna, Austria.

The overall impression was of extraordinary progress in the science, technology and applications of Geodesy that address traditional geodetic requirements; as well as ever greater accuracy, reliability, and temporal and spatial resolution, in the measuring or monitoring of many vital Earth System parameters that have geometric, gravimetric or rotational signatures.



Chris Rizos, IUGG President, and Niels Andersen, IUGG Treasurer, at the IAG Scientific Assembly 2025 in Rimini, Italy

Chris Rizos, IUGG President, and Niels Andersen, IUGG Treasurer

5. IACS – 2025 Glacial Isostatic Adjustment Workshop: Advancing Models and Observational Constraints: Report

The '2025 Glacial Isostatic Adjustment Workshop: Advancing Models and Observational Constraints' was held in Sidney, BC, Canada, from 2 to 6 June 2025. The workshop was hosted by Natural Resources Canada and held jointly at the research facilities of the Institute of Ocean Sciences and the Pacific Geoscience Centre. The last such workshop on GIA was held in Ottawa, Canada, in 2019.

The meeting was organised as a hybrid event, with 93 in-person and 88 virtual registrations. Participants registered from 32 countries, and 68% of them were early career researchers. Furthermore, only 60% of the registered participants identified as male. The participation of early career researchers benefited greatly from the support of IUGG, IACS, NSF (National Science Foundation) and SCAR-INSTANT (Scientific Committee on Antarctic Research - Instabilities and Thresholds in Antarctica).

The meeting consisted of oral and poster presentations on topics including Earth rheology, ice sheet evolution and dynamics, modern sea level change, and geodetic observational techniques. Each day concluded with a discussion and summary session to highlight the important outcomes of the oral and poster presentations. The poster sessions had a length of 2.5 hours each day, which gave sufficient time for discussions. In addition to the poster and oral sessions, a one-day field trip to local sites offered in-person participants a unique view of the area's geology and geomorphology, including neotectonic and glacial erosional and depositional features. The final day was dedicated to topical workshops that encouraged in-depth discussions on issues of high interest to the GIA community.



2025 GIA in-person Workshop participants gather at Mt. Tolmie during the Wednesday field trip (picture courtesy: Thomas James). More photos can be found <u>here</u>

One workshop focused on the uncertainties associated with GIA model outputs, an important issue, as these outputs are used in various applications (e.g., sea level estimates). Uncertainties were identified in the three main input components: ice models, Earth models, and the GIA codes themselves. Uncertainties in ice models (ice-sheet histories) arise from the large number of variables involved in model development. Additionally, not all ice models are coupled with a GIA code. Future development of ice-sheet histories requires more accurate climate forcing (from both the atmosphere and ocean), with adequate degrees of freedom to better capture variability. A further issue is that many GIA modelling studies do not take full advantage of the wide range of available ice-sheet histories. Similarly, Earth models also carry significant uncertainty, largely due to the variety of constraints used to define the viscosity structure and lithospheric thickness. Seismic tomography models are especially important in this context, and refined models, including uncertainty estimates, are needed to assess three-dimensional viscosity variations. The third

component is the GIA codes. To date, only two benchmarking exercises have been conducted, and not all modelers were able to participate. Three additional benchmarks are currently planned to address existing gaps in GIA code validation. In addition, an ongoing comparison initiative (GRDMIP) is underway, aiming to evaluate the spread of GIA model outputs.

Another important aspect, that was discussed during the workshop, is the role of observations, which are critical for testing GIA models. At the same time, predictions from GIA models are necessary to remove the effects of GIA from observations used in other studies. In some cases, these two aspects interfere with each other, for example, when comparing horizontal velocity model predictions with geodetic observations. The latter requires the removal of tectonic plate motions from the observations, which is challenging when horizontal motions may be biased by GIA. As a result, tectonic plate rotations are not clearly defined and may depend on the chosen GIA model. One potential solution is to use a diverse set of observations to constrain GIA models. However, all observations also include signals from processes other than GIA. Users of GIA model predictions have requested that modelers publish all GIA model outputs. Moreover, stronger collaboration between GIA modelers and observers is needed, including regular interactions to share the latest results and future developments. It was suggested that GIA Training Schools could help foster this connection.

Further emphasis will be placed on developing a database for GIA model outputs. A general issue in the GIA community is the limited sharing of existing model results. A database called GIAmachine, is currently under development. It will provide a graphical interface to display, download, and access various GIA model outputs. An important related point is the need to standardise variable names used for GIA model outputs. Efforts will be made to unify these names moving forward.

The general communication within the field was discussed and several potential improvements have been suggested (e.g., own mailing list for GIA, usage of a communication platform for daily usage). A new mailing list (gia@listserv.dfn.de) was created after the workshop. An additional point of discussion was the availability of GIA codes, especially open-source-based codes. A developer of the open-source code CitcomSVE will provide a tutorial in the coming months to increase the usage of already existing codes.

Besides the mailing list, the GIAmachine database and GIA code tutorials, further clear goals have been developed for the coming months and years to be tackled by the entire GIA community. Several attendees suggested the compilation of review papers on various topics of GIA. A potential GIA book could compile such reviews providing a handbook for non-experts as well as being an introduction into the field and for future training schools.

Overall, the workshop was a great success with many discussions and new steps forward initiated. Funding from IUGG was used to support the travel of eight early career researchers (ECR) and cover the registration fee of six additional ECR. Additional funding was provided by IACS to organise an ECR dinner during the workshop, which was well attended.

Rebekka Steffen, on behalf of the workshop organisers

6. IAHS - Awards: Call for Nominations

Nominations are now being accepted for the 2026 International Hydrology Prize.



This prize is awarded annually by IAHS, with UNESCO and WMO, to two people who have made an outstanding contribution to hydrological science. Two medals are awarded under the International Hydrology Prize: the Dooge Medal and the Volker Medal. Both medals are intended to distinguish outstanding achievements by hydrological scientists but with a different focus. The Dooge medal is

aimed at fundamental contributions to the science of hydrology, whereas the Volker medal is aimed at outstanding applications of hydrological science for the benefit of society at large. More information, including the list of previous awards and the nomination process, is available here.

Nominations for the Prize are made by <u>National Committees to IAHS</u>, National Committees to the UNESCO-IHP or National Hydrological Advisors to the WMO, and forwarded to the <u>Secretary General</u> of IAHS for consideration by the Nomination Committee. The Committee consists of the President and a Vice-President of IAHS and representatives of UNESCO and WMO.

Nominations are also being accepted for IAHS <u>Tison</u> and <u>Falkenmark</u> Awards. The Tison Award is granted for an outstanding paper published by IAHS in a period of two years prior to the deadline for nominations. The Falkenmark Award is for the best PhD thesis from a nominee who grew up in and recently performed the PhD work in one or more financially disadvantaged countries.

Nominations for all of the awards should be received by the <u>Secretary General</u>, Jean-Marie Kileshye Onema, no later than **31 December 2025**.

Jean-Marie Kileshye Onema, IAHS Secretary General

7. IAMAS – Scientific Celebration of 20 Years Since the Huygens Landing and the Start of the Cassini Mission: Report

The Paris Observatory hosted a landmark scientific event from 16 to 18 September 2025, marking two decades since the historic Huygens landing on Titan and the beginning of the Cassini mission. More than 150 participants – both in person and online – from 11 different countries came together to reflect on this extraordinary chapter in space exploration. The event was held in the Observatory's Salle Cassini, named in honour of the renowned French-Italian director of the institution. The three-day program was rich and diverse, featuring presentations from the Principal Investigators and Project Scientists of the Cassini and Huygens missions. Attendees were treated to a wealth of new scientific results, alongside forward-looking discussions from research teams preparing future missions to Titan, informed by broad community input to space agencies.

The full program, abstracts, and a selection of photos are already available on the event website: https://huygens20.sciencesconf.org. Recordings of the sessions and presentations will be added.



Participants of the Scientific Celebration of 20 Years Since the Huygens Landing and the Start of the Cassini Mission at the Paris Observatory

This memorable gathering underscored the enduring value of international collaboration, the strength of scientific camaraderie, and the profound impact of space exploration. We extend our sincere thanks to the local organisers and to our generous sponsors: IUGG, DIM ORIGINES, Région Île-de-France, CNES, SFE, ESA, and of course Paris Observatory-PSL. We look forward to more celebrations of international scientific achievements in the years to come!

Athena Coustenis and Panayotis Lavvas, on behalf of the Steering Committee

8. ILP - 2026 Awards: Call for Nominations

The International Lithosphere Program (ILP) was established in 1980 as an inter-Union programme of IUGG and IUGS. The mission of ILP is to promote international cooperation between geology, geophysics and geotechnology and to establish the connection between the deep Earth and the Earth's surface process.



The **Evgueni Burov Medal** is awarded annually to honour praiseworthy mid-career achievements in lithosphere research. The medal shall promote high-class science in combination with community services. Nominations must include a nomination lett er, CV with publication metrics, a list of references as well as 3-5 supporting letters (maximum one page each) in one single .pdf file.

The **Flinn-Hart Award** is awarded to outstanding scientists younger than 36 years for contributions to the Solid Earth Sciences covered by the ILP. It consists of a travel grant and a citation, and aims to encourage the participation of promising young scientists in the Program. Nominators should include a letter of nomination and a CV for each nominee.

The nomination materials should be submitted to the ILP Bureau by <u>email</u> before **15 December 2025**. More information can be found <u>here</u>.

Qin Wang, Interim Secretary General and Executive Secretary of ILP

9. Awards and Honours

International Association of Geodesy (IAG)

Safoora Zaminpardaz (Australia) and **Justyna Śliwińska-Bronowicz** (Poland), were awarded the IAG Young Author's Awards for 2023 and 2024.

Bailing Li (USA) and **Judit Benedek** (Hungary), were awarded the IAG Best Reviewer's Awards for 2023 and 2024, to recognise the important work of excellent reviewing for the Journal of Geodesy. **International Association of Hydrological Sciences (IAHS)**

Günter Blöschl (Austria), IAHS President (2017-2021), was awarded the prestigious Stockholm Water Prize by His Majesty the King of Sweden in recognition of his outstanding contributions to hydrological science. More information can be found here.

American Geophysical Union (AGU)

AGU announced its **2025 Union Medallists, Awardees, Prize Recipients and Fellows** for their excellence in scientific research, education, communication, and outreach, as well as its **Section Awardees and Named Lecturers** who will be honoured for their sustained and unique contributions to advancing our understanding of Earth, its atmosphere and oceans, and planets and astral bodies beyond our own. The awardees will receive their honours at the 2025 AGU Fall Meeting. Among the 2025 Union Awardees, Fellows, Section Awardees, and Named Lecturers are the following scientists who have been active in IUGG:

Union Medallists:

Jeffrey McDonnell (Canada), Chair of the IAHS Commission Prediction on Ungauged Basins (PUB, 2005-2007) was awarded the Robert E. Horton Medal; and Soroosh Sorooshian (USA), IUGG Fellow (2019) was awarded the William Bowie Medal.

Union Fellows:

Timothy Druitt (France), Editor of the IAVCEI Bulletin of Volcanology (2003);

Hisashi Nakamura (Japan), IAMAS National Correspondent (since 2012);

Ashish Sharma (Australia), President of the IAHS Commission on Statistical Hydrology (ICSH, 2018-2021); and

Eli Tziperman (USA), Vice-Chair of the Union Commission on Mathematical Geophysics (CMG, 2003-2013)

Section Awards and Lectures:

Benjamin James Andrews (USA), Co-Leader of the IAVCEI Commission on Geochemistry (2016-2023), was awarded the VGP Section Award for Service to the Community and Public Engagement; Tirtha Banerjee (USA), Vice-President of the IAHS Commission of Coupled Land-Atmosphere Systems (ICCLAS, since 2023), was awarded the Global Environmental Change Early Career Award; Ramon Egli (Austria), Co-Chair of the IAGA Working Group I-3: Rock- and Environmental Magnetism (2016-2019), was awarded the William Gilbert Award; and Chris Soulsby (UK), Vice-President of the IAHS International Commission on Tracers (ICT, 2004-2007), was named the Walter Langbein Lecturer.

Geological Society of India

Kusumita Arora (India), IAGA Vice-President (2023-2027), was awarded the Women Scientist Award in recognition of her outstanding contributions in the field of Earth Science for the year 2025.

Congratulations!

10. Important IUGG Deadlines

1 April 2026: Submit Applications for IUGG Grants Program 2026-2027.

11. Meeting Calendar

This calendar includes meetings which are planned to be organised under the umbrella of IUGG, and major conferences of IUGG's partner organisations (in *italics*). The calendar is updated regularly and is also available <u>online</u>. If you would like to add a meeting, or report changes, please contact the <u>IUGG Secretariat</u>.

Upcoming Scientific Assembly of the International Association of Hydrological Sciences (IAHS)



Roorkee, India 5-10 October 2025

October

- 1-2, IAG, Cape Town, South Africa, South African National Geodesy Workshop
- 5-10, IAHS, Roorkee, India, <u>IAHS Scientific Assembly 2025</u>
- 5-18, GFZ, IASPEI, Antananarivo, Madagascar, <u>International Training Course on Seismology,</u> <u>Seismic Data Analysis, Hazard Assessment and Risk Mitigation</u>
- 7-9, IAG, Boulder CO, USA, <u>GRACE-FO Science Team Meeting 2025</u>
- 7-11, IAVCEI, Niigata, Japan, Volcanology in Practice
- 13-16, IAG, Cairo, Egypt, The Arab Conference on Astronomy and Geophysics (ACAG 9)
- 13-24, IUGG, ICTP, Trieste, Italy, <u>Workshop on the Deformation at the Intersection</u>
 <u>Between Physics of Earthquakes and Volcanic Processes</u>
- 17-18, CODATA, Brisbane, Australia, 34th CODATA General Assembly
- 19-22, GSA, San Antonio TX, USA, GSA Connects 2025
- 19-24, IAG, Arequipa, Peru, <u>ILRS Technical Workshop 2025</u>
- 20 1 November, IAVCEI, Olot, La Palma, Spain, <u>Curso internacional de volcanologia</u>
- 21-25, IAG, Gothenburg, Sweden, 10th International VLBI Technology Workshop (IVTW)

- 26-28, IAG, Gothenburg, Sweden, <u>5th IVS Training School on VLBI for Geodesy and</u>
 Astrometry
- 27 1 November, IAG, IAGA, San Juan, Argentina, XVI Escuela SIRGAS 'Procesamiento de datos VLBI y SLR'
- 29-31, IAHS, Lusaka, Zambia, <u>26th WaterNet/WARFSA/GWP-SA Symposium</u>
- 29-31, SCOR, Santa Marta, Colombia, SCOR Annual Meeting 2025

November

- 3-7, IUGG, GRC, Suva, Fiji, GeTEWS Oceania Joint Workshop
- 3-5, IAG, Athens, Greece, IDS DORIS School and DORIS Days 2025
- 6-7, IAG, Athens, Greece, DORIS Analysis Working Group Meeting
- 12-14, IUGG, IAPSO, IASPEI, IAVCEI, Hyderabad, India, International Tsunami Symposium
- 17-21, IAHS, Astana, Kazakhstan, <u>International Conference on 'Sediment and Pollutants</u>
 <u>Transport in River Catchments: Radionuclides and Fingerprinting Techniques Applications</u>
 for Assessment, Monitoring, and Risk Prevention'
- 23-29, IASPEI, IAVCEI, Pucon, Chile, <u>Joint Commission on Volcano Seismology & Acoustics.</u>
 Annual Workshop
- 24-28, IUGG, IAMAS, Dakar, Senegal, Workshop on <u>'Data Science for Weather and Climate</u> Research' and Training School on 'Climate Data Analysis and AI in the Global South'

December

- 1-5, IUGG, IAPSO, Puerto Madryn, Argentina, <u>20th Oceanography Colloquium and 12th</u> National Marine Sciences Conference
- 15-19, AGU, New Orleans LA, USA, AGU Fall Meeting 2025

Next IUGG General Assembly 2027



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