GeoSUR 2027

International Symposium on

Geology and Geophysics of the Southern Hemisphere

"The Southern Hemisphere at the Frontline of Earth System Change"

9-11 March 2027

Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires
Pabellón Cero + Infinito - Acceso Pabellón 1, C1428
Cdad. Autónoma de Buenos Aires

ICGeBA
INSTITUTO DE GEOCIENCIAS BASICAS, APLICADAS Y AMBIENTALES DE BUENOS AIRES

OGS
Istituto Nazionale di Oceanografia e di Geofisica Sperimentale

1506
UNIVERSITÀ DEGLI STUDI DI URBINO CARLO BO

Grupo de Prospección Geológica y Geofísica Marina y Lacustre del IGeBA
Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires

Ambasciata d'Italia
Buenos Aires

.UBA EXACTAS

FIRST CIRCULAR

The Local Organizing Committee is pleased to announce GeoSur 2027, an international forum dedicated to advancing interdisciplinary understanding of the Earth system through the integration of geology, geophysics, climate science, tectonics, and environmental research.
The symposium will bring together researchers, professionals, industry representatives, policy-makers, and students from across the Southern Hemisphere and beyond to discuss emerging scientific challenges and technological innovations related to:

- Climate change and Earth system evolution
- Plate tectonics and active geodynamics
- Natural hazards and environmental resilience
- Geophysical imaging and monitoring technologies
- Sustainable resource management and energy transition
- Ocean–continent interactions
- Polar and Southern Ocean processes

ORGANIZERS

- **Alejandro Tassone** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires. IGeBA, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

- **Federica Donda** and **Emanuele Lodolo** - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale. OGS, Trieste, Italy.

- **Marco Menichetti** - Università di Urbino. UniUrb, Italy.

- **Augusto Rapalini** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires. IGeBA, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

- **Salvatore Barba** – Ambasciata d'Italia a Buenos Aires.

LOCAL ORGANIZING COMMITTEE

Coordination:

- **Juan F. Vilas, José Ísola, Federico Esteban, Donaldo Bran and Emilio Aliaga** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires. IGeBA, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

Field Trip Coordination:

- **Marco Menichetti** - Università di Urbino. UniUrb, Italy.

- **Sergio Marenssi, Jorge Lozano, Luana Acosta, Hernán Zaccara and Florencia Restelli** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires. IGeBA, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

Secretariat:

- **Yasmin Gutiérrez and Nathalia Salazar** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires. IGeBA, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

Directors:

- **Rubén López** - Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

- **Claudia Prezzi** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires (IGeBA), Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

Registration:

- Fundación Ciencias Exactas y Naturales. FUNDACEN.

Treasurer:

- **Horacio Tassone** - Instituto de Geociencias Básicas, Aplicadas y Ambientales de Buenos Aires (IGeBA), Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

Institutional Relations:

- **Diego Weimberg** - Facultad de Ciencias Exactas y Naturales. Universidad de Buenos Aires, Argentina.

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- **Gonzalo Flores** - YPF S.A., Argentina.

- **Matias Ghiglione** - Instituto de Estudios Andinos "Don Pablo Groeber". IDEAN, Departamento de Ciencias Geológicas, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Argentina.

- **Martín Gómez** - Comisión Nacional de Energía Atómica. CNEA, Argentina.

- **Daniela Guglietta** - Dipartimento di Scienze del Sistema Terra e Tecnologie per l'Ambiente del Consiglio Nazionale delle Ricerche. IGAG, Italy.

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- **Matteo Lelli** - Istituto di Geoscienze e Georisorse. Consiglio Nazionale delle Ricerche, Italy.

- **Eros Manzo** - Dipartimento di Scienze del Sistema Terra e Tecnologie per l'Ambiente del Consiglio Nazionale delle Ricerche. IGAG, Italy.

- **Michel Michaelovitch de Mahiques** – Instituto Oceanográfico da Universidade de São Paulo. IOUSP, Brazil.

- **Florencia Milanese** - Coordinación Ciencias de la Tierra, Instituto Antártico Argentino. Consejo Nacional de Investigaciones Científicas y Técnicas, Argentina.

- **Lara Perez** - Geological Survey of Denmark and Greenland (GEUS), Aarhus, Denmark.

- **Diego Pol** - Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires, Buenos Aires, Argentina; Museo Argentino de Ciencias Naturales "Bernardino Rivadavia", Buenos Aires, Argentina.

- **Alina Polonia** - Istituto di Scienze Marine del Consiglio Nazionale delle Ricerche, Bologna, Italy.

- **Rodrigo Novo Real** - Administración Nacional de Combustibles, Alcohol y Portland. ANCAP, Montevideo, Uruguay.

- **Giuliana Panieri** - Istituto di Scienze Polari. ISP, CNR, Italy.

- **Damiano Pesaresi** - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale. OGS, Trieste, Italy.

- **Milton Plasencia** - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale. OGS, Trieste, Italy.

- **Leda Sánchez Bettucci** - Facultad de Ciencias, Universidad de la República de Uruguay. OGU, Uruguay.

- **Adalgisa del Carmen Scotti** - Comisión Nacional de Energía Atómica. CNA, Argentina.

- **Emanuele Tondi** - Consorzio Interuniversitario Italiano per l'Argentina, Italy.

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- **Alessandro Vuan** - Istituto Nazionale di Oceanografia e di Geofisica Sperimentale. OGS, Trieste, Italy.

- **James Wright** - Department of Earth and Planetary Sciences, Rutgers University, USA.

- **Luciano Zuccarello** - Istituto Nazionale di Geofisica e Vulcanologia. INGV, Italy.

PRELIMINARY PROGRAM AND THEMATIC SESSIONS

The three-day symposium will include oral and poster presentations, as well as two or three invited keynote talks given by experts in specific subjects (to be announced in the second circular). Oral presentations may also be delivered remotely if the presenting author is unable to attend in person. The program may include parallel sessions if a significant number of abstracts are received by the organizers. However, the organizers reserve the right to reassign oral presentations to poster sessions. The list of thematic sessions and their corresponding chairs will be distributed with the Second Circular, depending on the number and scientific content of the abstracts received. Talks will last 15 minutes each, followed by 5 minutes for discussion. Invited talks will last 30-35 minutes. Poster sessions will be organized on two days and will cover the same general topics as concurrent oral sessions. Posters for each session will be on display all day. Posters are particularly useful for displaying geological and geophysical maps.

Theme A - Climate Change and Earth System Processes

- Sedimentary archives
- Ice-core and marine paleoclimate proxies
- Climate variability through geological time
- Coupled climate–tectonic models
- Atmospheric and oceanic circulation
- Southern Hemisphere climate variability
- Extreme climate events
- Antarctic ice-sheet dynamics
- Glacial geomorphology
- Sea-level reconstructions
- Polar geophysics and remote sensing

Theme B - Tectonics, Geodynamics, and Lithosphere Evolution

- Continental growth and fragmentation
- Orogenic systems
- Gondwana tectonics
- Lithospheric architecture
- Fault systems and deformation
- Earthquake processes
- Crustal stress fields
- Seismic risk assessment
- Arc volcanism
- Mantle plumes and hotspots
- Geochemical evolution
- Volcanic hazards
- Rift systems
- Foreland and passive-margin basins
- Stratigraphic architecture
- Source-to-sink systems

- South Atlantic opening
- Pacific margin evolution
- Antarctic tectonics

Theme C - Applied Geophysics and Emerging Technologies

- Passive and active seismic methods
- Tomography and inversion
- Deep Earth structure
- Airborne geophysics
- Integrated geophysical modeling
- Satellite geodesy
- AI and machine learning applications
- Big geoscience data
- Tsunami hazard assessment
- Multi-risk frameworks
- Geothermal systems
- Critical minerals
- Carbon capture and storage
- Environmental geophysics

Theme D - Society, Sustainability, and Future Earth

- Disaster preparedness
- Adaptation planning
- Environmental governance
- Science-policy integration
- Community-based resilience
- Cultural landscapes
- Ethical geoscience practice
- Geoscience communication
- Student training initiatives
- Public engagement

- Open science and data sharing
- Equity and inclusion
- Leadership development
- Networking initiatives

The Scientific Committee invites proposals for additional special sessions, workshops, and panel discussions aligned with the symposium themes.

Session proposals should include:

- Session title
- Conveners and affiliations
- Brief description (maximum 300 words)
- Key topics and objectives

A detailed call for proposals and information on the submission portal will be provided in the Second Circular.

ABSTRACTS

Authors should submit an extended abstract, written in English, by 30 November 2026. Scientific contributions, prepared using Microsoft Word (.doc), should be a maximum of two A4 pages (text area: 16 cm wide × 23 cm high), using 10 pt Times New Roman font and 1.5 line spacing. Please do not format the text in columns or place it within a frame. Extended abstracts may include text, figures, and/or formulas. References may be included. You will find a template and more detailed instructions for preparing extended abstracts on the GeoSur 2027 website. Extended abstracts will be available at the time of the symposium.

FIELD TRIP

A three-day post-symposium field trip will be organized in the iconic area of the *Parque Nacional Los Glaciares* where the Southern Patagonian Icefield is located. The stratigraphy, tectonics and Quaternary evolution of the Lago Argentino region of the Southern Andes

in El Calafate – Santa Cruz area, and dynamics of the Patagonia lake-terminating glaciers, will be presented and discussed by local experts.
The field trip requires a minimum of 15 participants and is limited to a maximum of 40.
The field trip will begin and end at El Calafate International Airport.
The tentative cost is around USD 1,000 and will include hotel accommodation and transportation by bus and boat. Flights between Buenos Aires and El Calafate are not included.

GALA DINNER

A gala dinner will be held on 10 March. More information will be provided in the Second Circular.

CONFERENCE LANGUAGES

The official languages for both oral and poster sessions are English and Spanish. Simultaneous interpretation will not be available, but translators will be available if required.

HOTEL ACCOMMODATION

Information about hotel reservations will be provided in the Second Circular. Buenos Aires offers a wide range of hotels to suit different budgets and preferences.

REGISTRATION FEES

	Until 1 December 2026	After 1 December 2026
Regular	USD 200	USD 250
Latin American Participants	USD 100	USD 125
Student	USD 70	USD 90

PRELIMINARY TIMELINE

Activity	Tentative Date
First Circular Release	23 July, 2026
Session Proposal Deadline	1 September, 2026
Second Circular & Abstract Submission Opening	1 October, 2026
Abstract Submission Deadline	30 November, 2026
Early Registration Deadline	1 December, 2026
Final Program Announcement	1 February, 2027

AWARDS AND STUDENT SUPPORT

The symposium will include:

- Best Student Presentation Awards
- Early Career Researcher Recognition

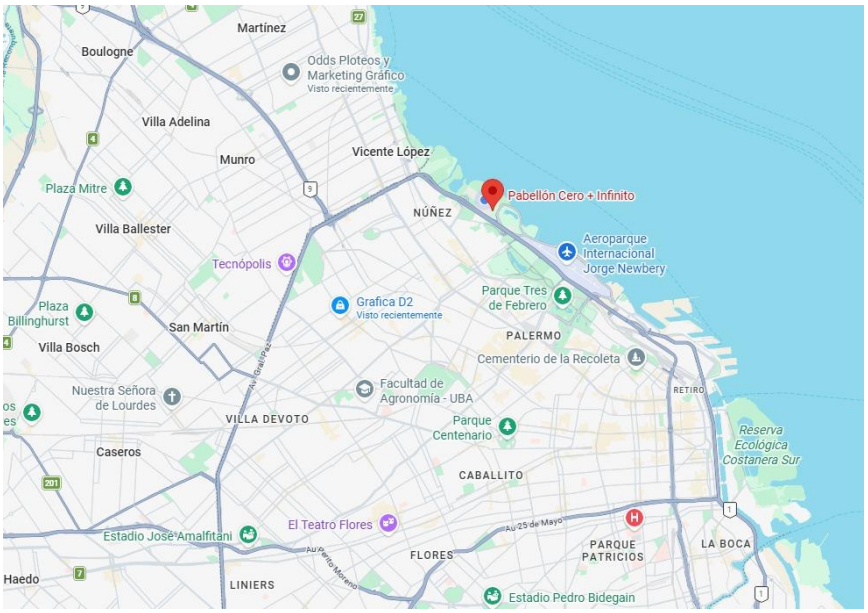
Travel grants for students and researchers from developing countries

SPONSORSHIP AND EXHIBITION

Academic institutions, geological surveys, research agencies, and industry partners are invited to participate in the technical exhibition and sponsorship program.
Exhibition categories may include:

- Geophysical instrumentation
- Remote sensing technologies
- Environmental consulting
- Software and data analytics
- Energy and mining sectors
- Scientific publishing

Cero + Infinito Building, Faculty of Exact and Natural Sciences, University of Buenos Aires (symposium venue).



Location of Cero + Infinito Building, Faculty of Exact and Natural Sciences, University of Buenos Aires.