



OGS
Istituto Nazionale
di Oceanografia
e di Geofisica
Sperimentale

INTERNATIONAL CONFERENCE

11-14 Settembre 2023 / Trieste, Italy



Trieste Congress Center, Italy
www.instant2023.org

INSTABILITIES AND THRESHOLDS IN ANTARCTICA

Contribution of Antarctica to past,
present and future sea level rise

A few words from SCAR INSTANT Co-Chief Officers

We warmly welcome you to the 2023 SCAR-INSTANT Conference in lovely Trieste, and we look forward to a stimulating week of presentations, panel discussions, workshops, and side meetings. The programme brings together physical, biological and social scientists with communicators and stakeholders concerned with understanding past and present Antarctic ice mass change, and improving projections of its contribution to sea-level change.

This Conference could not be more timely given the unprecedented changes that are occurring. The slow-down of the Southern Ocean circulation, a 40 year minimum in the winter extent of sea ice, ice shelves melting and heatwaves are all raising concerns that Antarctica may be approaching tipping points. Once crossed, climate feedbacks and dynamic instabilities may lead to rapid and irreversible changes to the ice sheets with long-term consequences for ecosystems and humanity. The INSTANT programme was specifically designed to bring a multidisciplinary approach to improve our knowledge of the key rate determining processes, so that the impacts of sea-level rise can be more effectively anticipated and managed.

After three days of thematic presentations on specialist topics, a highlight of the conference will be the “Melting Ice and Rising Seas” Symposium on Thursday. Here we will address the challenge of dealing with uncertain ice sheet and sea-level projections and their impacts. We will hear perspectives from the stakeholder and practitioner communities, and we will discuss the best practices in communication and engagement with the public and decision makers.

We are also pleased to see a large number of early career researchers and look forward to hearing their perspectives and contributions during the Conference. Our research enterprise has never been more important for society, and this new generation of researchers are needed to address the ongoing challenges.

We encourage you during the week to make progress towards the following outcomes:

1. Improve understanding of the key processes, feedbacks and their interconnections.
2. International collaborations and initiatives needed to obtain key data sets and/or address research priorities.
3. Improve understanding of other research areas, beyond your own, and an appreciation of interdisciplinary collaborations.
4. Improve engagement and communication with the public and end-user communities on the impacts and risks.

Given the urgency discussed above, we would like to draft a Conference “Declaration” or “Communique” summarising the latest scientific evidence as a public call to action on climate mitigation and adaptation, and how our science enterprise can be used in the solutions.

Finally, we thank you for your enthusiasm and wish you all the best for meeting new colleagues or reconnecting with old friends, and we look forward to an enjoyable, stimulating and productive week.

Florence Colleoni & Tim Naish



SCAR-INSTANT Co-Chief Officers

An Introduction to SCAR

The Scientific Committee on Antarctic Research (SCAR) is a thematic organisation of the International Science Council (ISC), that was created in 1958 after the completion of the 1957–1958 International Geophysical Year (IGY). SCAR's role is two-fold: the coordination of scientific research within the Antarctic region and the Southern Ocean, and the provision of evidence-based scientific advice to the Antarctic Treaty Consultative Meetings (ATCMs) and other organisations such as the United Nations Framework Convention on Climate Change and the International Panel on Climate Change. SCAR identifies issues emerging from greater scientific understanding of the Antarctic and Southern Ocean region and brings them to the attention of policy makers. SCAR has made numerous recommendations on a variety of matters, many of which have been incorporated into Antarctic Treaty instruments. Foremost amongst these have been the advice provided for the many international agreements which provide protection for the ecology and environment of the Antarctic.

The scientific business of SCAR is conducted by its three Science Groups – GeoSciences, Life Sciences, and Physical Sciences – which represent the scientific disciplines active in Antarctic research. The Science Groups are responsible for sharing information on disciplinary scientific research being conducted by national Antarctic programmes, identifying research areas or fields where current research is lacking, coordinating proposals for future research by national Antarctic programmes to achieve maximum scientific and logistic effectiveness, and identifying research areas or fields that might be best investigated by a SCAR Scientific Research Programme. The Science Groups can also establish Action and Expert Groups to address specific research topics within the discipline. Similarly, the Standing Committee on Humanities and Social Sciences aims to develop and coordinate rigorous and high-quality international research on the Antarctic region within the Humanities and Social Sciences in order to provide independent advice to the ATCMs on issues requiring disciplinary expertise outside the natural sciences and to coordinate with existing science groups on issues that call for a multidisciplinary approach.

Upcoming SCAR events:

- **30th Annual West Antarctic Ice Sheet Workshop** | 25–28 September 2023
- **International Symposium on Snow Science** | 25–30 September 2023
- **International Data Week 2023** | 23–26 October 2023
- **World Climate Research Programme Open Science Conference 2023** | 23–27 October 2023
- **Polar Data Forum V** | 30 October – 3 November 2023
- **AGU Fall Meeting 2023 – hybrid** | 11–15 December 2023
- **11th Open Science Conference, XXXVIII SCAR, Pucón, Chile** | 19–23 August 2024

OGS

The National Institute of Oceanography and Applied Geophysics - OGS is a public research institution, monitored by the Ministry of University and Research - MUR, which operates internationally in the field of physical, chemical, biological and geological oceanography, experimental and exploration geophysics, seismology and engineering seismology.

Its expertise is applied in earth, marine, and polar sciences to help disseminate scientific knowledge and solve environmental, economic, and social problems.

The main activities undertaken are research, development and technology transfer projects for the benefit of the territory, with particular focus towards issues related to major global challenges. The strategy pursued by the institute aims at a close integration between research, innovation/technology transfer and training/dissemination activities, as well as a synergy between the different research funding instruments.

Exploring Polar areas to understand the Planet and its changes is one of the missions of OGS. In fact, the institute pursues a multidisciplinary approach on both poles, with activities that include the use of OGS infrastructures, such as the Laura Bassi research vessel, and the exploitation of existing data assets in collaboration with other research institutions and Italian and foreign universities.

The geological, geophysical, seismological, oceanographic, biological and logistic skills of OGS have been developed during the 13 scientific campaigns in Antarctica and the 4 in the Arctic carried out with its own research vessels, with the participation in national and international research projects on board oceanographic vessels of other countries, and with the management of the Italo-Argentinian seismometric network and the management of marine observation systems in the Arctic.



GNS Science - Environment and Climate

GNS Science Te Pū Ao is Aotearoa New Zealand's leading provider of Earth Science, geoscience, and isotope research. Our purpose is to understand natural earth system processes and resources and translate that understanding to research-based advice for decision makers that delivers economic, environmental, and social benefits. Through our research, we are supporting New Zealand to:

- Achieve its long term energy needs
- Meet climate action goals, including carbon net-zero 2050
- Grow and adapt sustainable and resilient environments, ecosystems, and societies
- Secure its fresh water
- Enable industry, innovation, infrastructure, and economic growth

Since 1865, GNS Science has demonstrated scientific excellence in a country that straddles two tectonic plates, where earthquakes were first associated with geological faulting, and whose first Nobel Laureate, Ernest Rutherford, saw that radioactive isotopes could be used for geological dating. Today, we continue to build on this legacy, drawing on powerful international partnerships to deliver science that is useful, usable, and used.

GNS Science's environment and climate research focuses on sustainable management of the environment and effective adaptation to climate change. The work we do provides significant input into the global response to climate change, helps inform government policies and responses to our changing environment, and contributes to the development of innovative social and technological solutions.

From our work on geological records that reveal change over time in Earth systems, we can understand environmental changes and their impact on ice sheets, groundwater, and ecosystems to mitigate warming and adapt to unavoidable sea level rise. We are increasing our focus on hazards and risks associated with climate change – including impacts on our coastlines and communities, changes in surface processes in response to shifts in temperature and precipitation, and pressures on our water resources.

'Antarctic climate and ice dynamics' is a priority research area for GNS – specifically understanding the changing balance of ice and water on the planet and how this will affect our coasts, land, and marine environments. This includes improving certainty in estimates of the rate and amount of future ice mass loss and the impact of meltwater on sea level rise and ocean environments. By reduce uncertainty in future Antarctic Ice Sheet response to climate change, we can enhance our ability to forecast and adapt to global change.

GNS Science is also the host of Aotearoa New Zealand's National Ice Core Research Facility – a state-of-the-art, purpose-built cold storage and research centre where we store 2,000m of Antarctic ice cores. Only a few such facilities exist worldwide, connected through the collaboration within the International Partnerships of Ice Coring Sciences (IPICS). The National Ice Core Facility is a joint venture between GNS Science, Te Herenga Waka Victoria University of Wellington, and the National Institute for Water and Atmospheric Research (NIWA).



Venue



TCC - Porto Vecchio

V.le Miramare, 24/2
34135 Trieste (TS)

[Google Maps](#)

[Bus tickets](#)

Magazzino 42 – behind the Stazione Marittima

Molo dei Bersaglieri, 3-42
34123 Trieste (TS)

[Google Maps](#)

Teatro Miela

Piazza Luigi Amedeo
Duca degli Abruzzi, 3
34132 Trieste (TS)

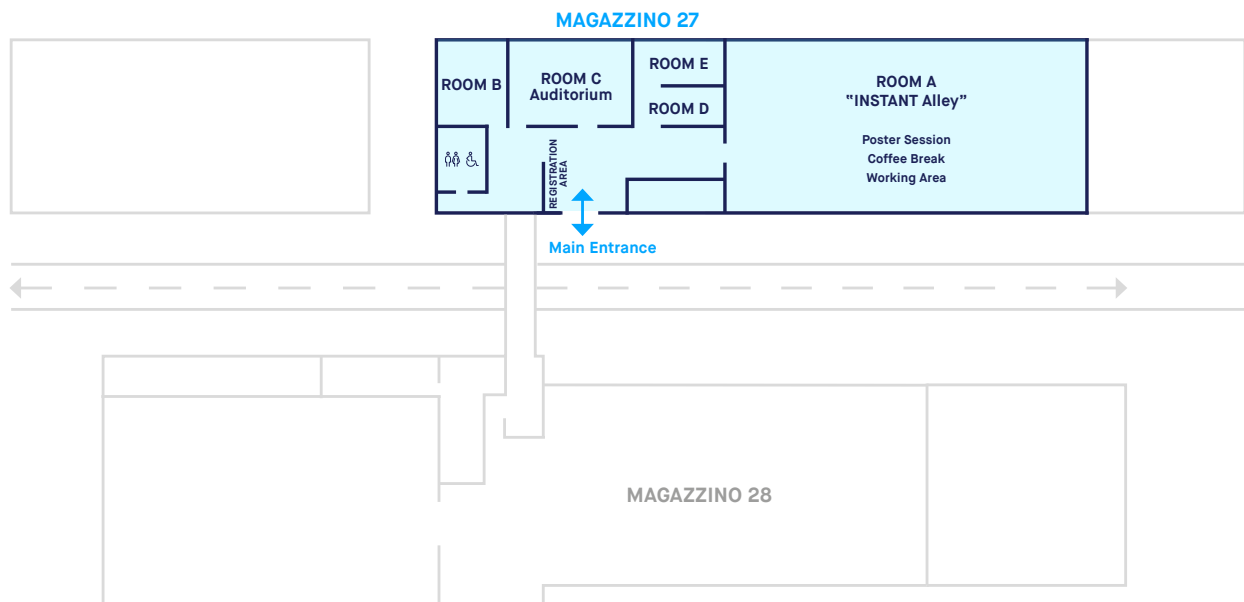
[Google Maps](#)

By foot: The shorest way by foot is actually closed for works.

You need to take the longest way by foot to reach the Congress Center.

By bus: Take Bus number 6 and stop at the Congress Center or in Viale Miramare.

Conference spaces



Information

COFFEE BREAKS

Coffee breaks will take place in the mornings from 11:00 to 11:30. Refreshments will be available at the coffee station before morning sessions start and in the afternoon.

LUNCH

Lunch boxes will be provided at 13:30 for all participants who show the lunch coupon (distributed with the badge during registration).

WATER

Water will be available at the coffee station at all times.

Conference dinner

Wednesday 13 september from 20:00 – Magazzino 42

(behind Stazione Maritima, on Trieste seaside).

Bring your conference badge: the QR code will be scanned at the entrance.

Pre-Conference Meetings

Please visit the Conference website for more details:

<https://instant2023.org/side-meetings/>

PRAMSO Meeting

[Register to the meeting](#)

Contact

Richard Levy (R.Levy at gns.cri.nz)

Carlota Escutia (cescutia at ugr.es)

Sunday 10 September

9:00 – 13:00 / Hilton Hotel (50 seats)

MARICE Meeting

Contact

Nancy Bertler

(Nancy.Bertler at vuw.ac.nz)

Sunday 10 september

9:00 – 17:00 / Ex-Ospedale Militare

Conference outreach activities

In order to raise awareness among the local population, several activities will take place during the conference week in town. They will involve schools and the local population.

Monday 11 September

ROUND TABLE WITH LOCAL AUTHORITIES / 17:30 - 19:00

Museo Revoltella (for locals)

"INTO THE ICE" / 20:30

Movie Theater Teatro Miela (Conference Participants and locals)

Tuesday 12 September

"INTO THE ICE" / 20:30

Movie Theater Teatro Miela (for locals)

Book of abstract:

[Download the book of abstracts here](#)

Scientific Committee

Tim Naish – Antarctic Research Center – Victoria Univ. of Wellington New Zealand

Flo Colleoni – National Institute of Oceanography and Applied Geophysics Italy

Elisabeth Thomas – British Antarctic Survey UK

Alessandro Silvano – University of Southampton UK

Andrew Lloyd – Lamont-Doherty Earth Observatory USA

Alex Simms – University of California – Santa Barbara USA

Joanne Johnson – British Antarctic Survey UK

Richard Levy – GNS Science New Zealand

Sophie Crook – Nowiki – University of Buffalo USA

Rebecca Priestley – Centre for Science in Society – Victoria Univ. of Wellington New Zealand

Rob De Conto – University of Massachusetts Amherst USA

Volker Klemann – GFZ Potsdam Germany

Roderik van de Wal – Utrecht University Netherlands

Edward Gasson – University of Exeter UK

Stewart Jamieson – Durham University UK

Tobias Staal – University of Tasmania Australia

Local organizing committee

Conference organization

Florence Colleoni – OGS

The Office

Divulgando Srl

Excursions & Activities

Federica Piazza – Riserva Marina Protetta di Miramare

Fabio Raicich – CNR ISMAR

Rino Lombardi – Museo della Bora

Circolo Sommozzatori Trieste

Keynote Speakers



Discover our speakers on the website

Monday 11



Quentin Dalaiden
Université catholique de Louvain



Petra Langebroek
Norwegian Research Centre



Gisela Winckler
Lamont-Doherty Earth Observatory

Tuesday 12



Grace Nield
Durham University



Alan Aitken
The University of Western Australia



Nicholas Holschuh
Amherst College

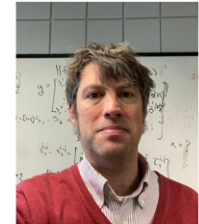
Wednesday 13



Helene Seroussi
Dartmouth College



Rob DeConto
University of Massachusetts



Jeremy Bassis
University of Michigan

Thursday 14



Aimee Kaio
New Zealand Antarctic Science Platform



Sheila Watt-Cloutier
Officer of the Order of Canada



Benjamin Hamlington
Research Scientist



Jochen Hinkel
Global Climate Forum



Steven L. Chown
Monash University



Pam Pearson
International Cryosphere Climate Initiative



Roderik van de Wal
Utrecht University



Rebecca Priestley
Victoria University of Wellington



Valerie Masson-Delmotte
Laboratoire des Science du Climat et de l'Environnement



Pierpaolo Campostrini
Consorzio per il coordinamento delle ricerche inerenti al sistema lagunare di Venezia

Conference Scientific programme

- * corresponds to ECRs talks
- light blu names indicate keynote lectures

SUNDAY 10 September

18:00 - 20:00	Conference Icebreaker	Venue: Trieste Congress Center (no dress code)
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MONDAY 11 September

ROOM C

8:30	Welcome from OGS director - Paola Del Negro
8:40	Welcome from Italian Antarctic Programme - Fausto Ferracioli
8:50	INSTANT Programme - Tim Naish
8:55	Conference organisation - Flo Colleoni

Advances and knowledge gaps in Atmosphere-Ocean-Antarctic Ice Sheet interactions

Chairs: Stewart Jamieson & Mutsumi Iizuka

9:00	Gisela Winckler	What role does the South Pacific play in the climate evolution of the past five million years? insights from IODP Expedition (244)
9:30	Petra Langebroek	Ocean - ice sheet interactions and tipping points in Antarctica (36)
10:00	Johann Klages	Ice sheet-free West Antarctica during peak early Oligocene glaciation (139)
10:12	Christian Ohneiser	West Antarctic ice volume variability paced by obliquity until 400,000 years ago (34)
10:24	Sally Lau*	Genomic evidence for West Antarctic Ice Sheet collapse during the Last Interglacial Period (250)
10:36	Keir Nichols*	Offshore-onshore record of Last Glacial Maximum-to-present grounding line retreat at Pine Island Glacier (117)
10:48	Taryn Noble	East Antarctic Ice Sheet deglaciation on the Sabrina Margin, Wilkes Land (169)

COFFEE BREAK / 11:00 - 11:30

Chairs: Edward Gasson & Dorothea Moser

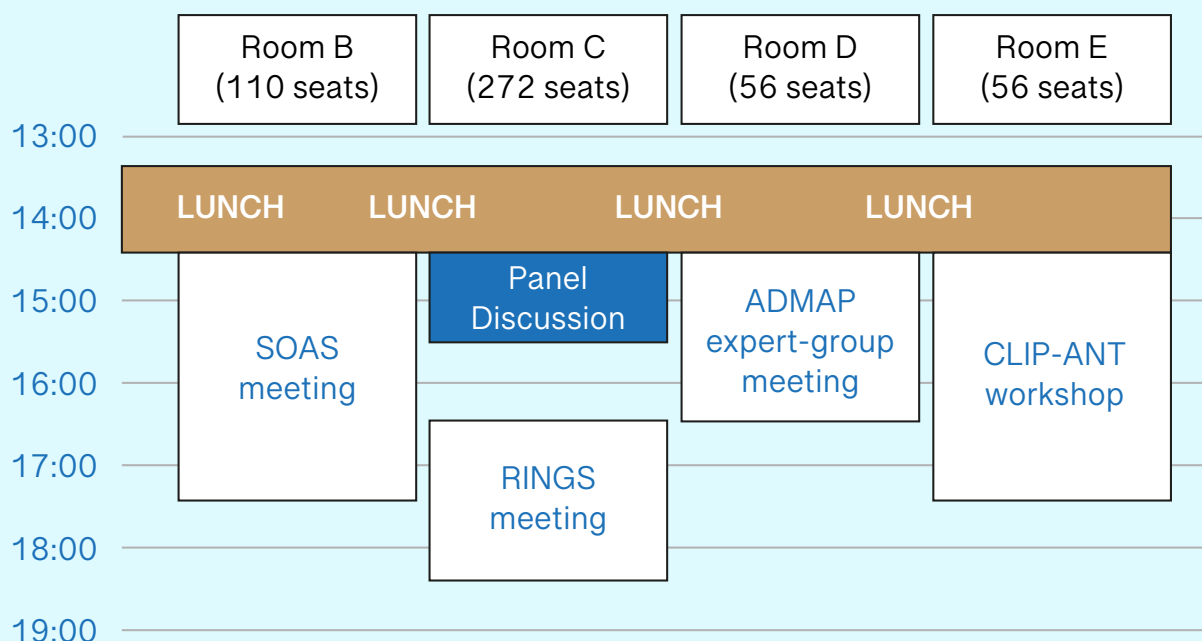
11:30	Nancy Bertler	Early onset of the Antarctic Cold Reversal as captured in the RICE ice core (163)
11:42	Quentin Dalaiden*	Reconstructing West Antarctic climate over the Common Era from paleoclimate records and climate models using data assimilation (53)
12:12	Elizabeth Thomas	Antarctic surface mass balance – what is driving the 20th century increase in the Antarctic Peninsula? (141)
12:24	Yusuke Suganuma	CDW caused ice shelf collapse and subsequent ice sheet thinning in Lützow-Holm Bay, East Antarctica (24)
12:36	Bianca Mezzina	Contributions of atmospheric forcing and ocean preconditioning in the 2016 Antarctic sea ice extent drop (113)
12:48	Erin McClymont	Summer sea-ice variability reconstructed from snow petrel stomach-oil deposits (50)
13:00	Huw Horgan	Subglacial drainage and sediment transport across Kamb Ice Stream's Grounding Zone, West Antarctica (192)
13:12	Matthew Siegfried	Tracing Antarctic freshwater from the grounding zone to the ice front in the Ross Embayment (215)

LUNCH TIME / 13:30 - 14:30

14:30	Panel Discussion (plenary) - Room C / Chairs: Liz Thomas & Alessandro Silvano	
until 18:30	CONFERENCE WORKSHOPS & POSTER SESSION	

Conference Workshops

See the workshops description here: <https://instant2023.org/conference-workshops-3/>



TUESDAY 12 September
ROOM C
**Advances and knowledge gaps in Solid Earth
– Antarctic Ice Sheet interactions**
Chairs: Emma Mackie & Joanne Johnson

9:00	Grace Nield	The role of glacial isostatic adjustment and Earth structure on ice sheet and sea level evolution (29)
9:30	Meike Bagge*	Evaluating solid-Earth feedback mechanisms using a coupled Solid Earth–Ice Sheet–Ice Shelf model and varied solid-Earth structures (13)
9:42	Evelyn Powell	What portion of the ice load do Antarctic GPS observations “see”? (232)
9:54	Daniel Lowry	Influence of climate, sea level, and solid earth processes on Holocene grounding line readvance of the Siple Coast, Antarctica (62)
10:06	Alan Aitken	Recent progress and new horizons in understanding Antarctica’s lithosphere and its impact on ice dynamics (90)
10:36	Maximilian Lowe*	Constraining subglacial geology with geophysical joint inversion and petrophysical data in the Wilkes Subglacial Basin and Transantarctic Mountains (10)
10:48	Jenny Gales	Climate-controlled submarine landslides on the Antarctic continental margin (14)

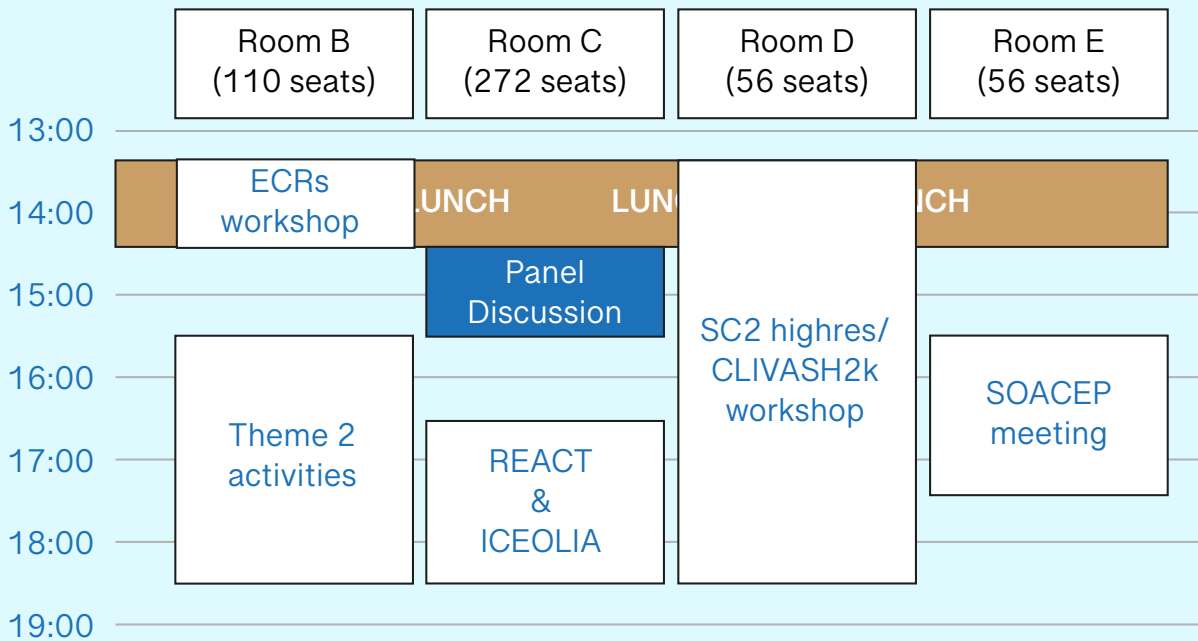
COFFEE BREAK / 11:00 – 11:30
Chairs: Dustin Schroeder & Mareen Loesing

11:30	Jörg Ebbing	Challenges in reconciling geophysical-derived heat flow models for Antarctica (41)
11:42	Fiona Clerc	The role of groundwater hydrology in modulating the influence of geothermal heating events on the modeled acceleration of WAIS flow (246)
11:54	Catherine Ritz	Developing an emulator to calculate present-day temperature field in the Antarctic Ice Sheet (136)
12:06	Nicholas Holschuh	The influence of the solid Earth on ice sheet stability (128)
12:36	Robert Law*	Complex motion and landscape formation of Thwaites Glacier (205)
12:48	Guilhem Barruol	Seismic monitoring of the ice–ocean–lithosphere interactions on the Astrolabe glacier, East Antarctica (193)
13:00	Isabella Velicogna	Mass balance of the Antarctic Ice Sheet 2002–2023 from the GRACE/GRACE-FO missions (273)
13:12	Patrick Flamm	Refreezing Futures? Exploring the geopolitical risks of glacial geoengineering (55)

LUNCH TIME / 13:30 - 14:30	
14:30	Panel Discussion (plenary) - Room C / Chairs: Andrew Lloyd and Anya Reading
until 18:30	CONFERENCE WORKSHOPS & POSTER SESSION
18:30-20:30	POSTER SESSION - Aperitive

Conference Workshops

See the workshops topics here: <https://instant2023.org/conference-workshops-3/>



WEDNESDAY 13 September
ROOM C
Integrating knowledge for improved understanding of Antarctic Ice Sheet contribution to sea-level projections
Chairs: Sophie Nowiki & Richard Levy

9:00	Rob DeConto	Past and future instabilities and thresholds in Antarctica: unifying paleo perspectives and glaciological theory (248)
9:30	Philip Ignatius Bart	Collapse of the Bindschadler Ice Stream at 12.3 cal kyr BP via Marine Ice Cliff Instability (33)
9:42	Jim Marschalek*	Pliocene Antarctic Sea Level Contribution inferred from Quantitative Sub-Ice and Marine Sediment Provenance Tracing (49)
9:54	Richard Jones	Changing volume of the Antarctic Ice Sheet during the pre-industrial Holocene (204)
10:06	Rebecca McGirr*	Antarctic contribution to sea level: insights from two decades of satellite gravimetry data (85)
10:18	Heiko Goelzer	On calculating the sea-level contribution in marine ice-sheet models (194)
10:30	Eliza Dawson*	Evidence for heterogeneous basal thermal conditions underpinning the Adelie-George V Coast, East Antarctica (144)
10:42	Terry Wilson	Future sea-level change around Antarctica: new GIA vertical land motion constraints to improve future projections (222)

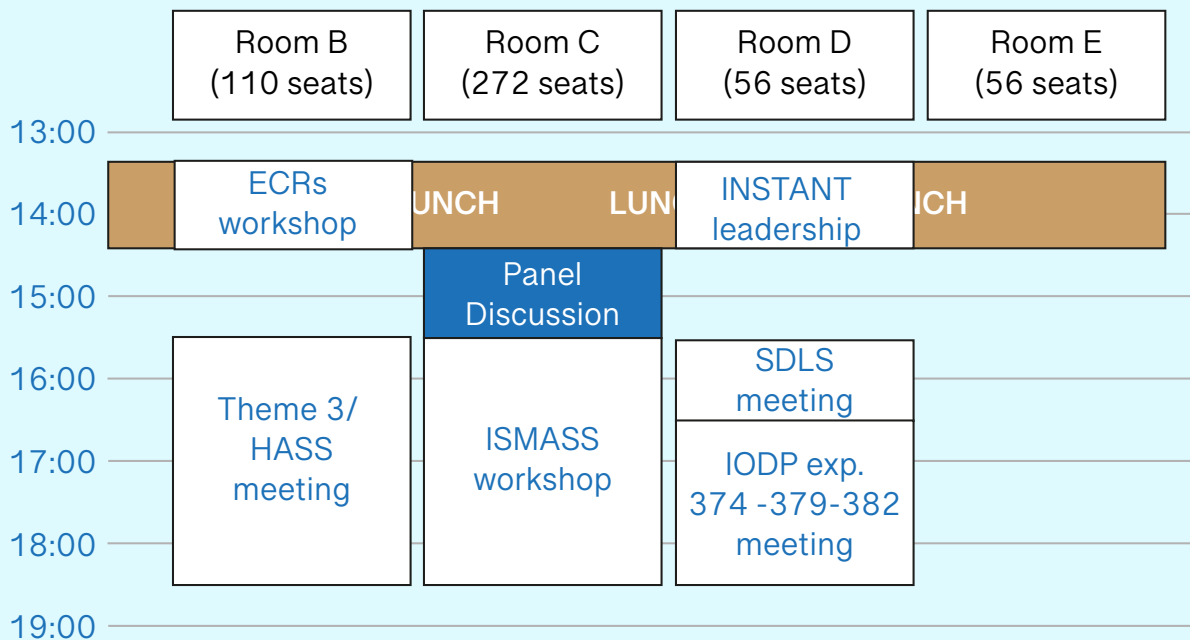
COFFEE BREAK / 11:00 – 11:30
Chairs: Richard Levy & Alanna Alevropoulos-Borrill

11:30	Caroline Van Calcar	The effect of bedrock deformation on the Antarctic ice sheet using different Earth structures under global warming scenarios (212)
11:42	Frank Pattyn	The safety band of Thwaites Glacier, West Antarctica (173)
11:58	Tim van den Akker	Present-day Antarctic height change rates are a precursor of an irreversible collapse of Thwaites and Pine Island Glacier (227)
12:10	Helene Seroussi	Antarctic ice sheet projections from multi-model ensembles: Lessons learned and next steps (125)
12:40	Violaine Coulon	Long-term Antarctic ice sheet projections with a historically-calibrated ice-sheet model (147)
12:52	Jeremy Bassis	A tale of two cities: Equitable climate resilience and sea level adaptation in a changing world (20)
13:22	Sophie Weeks	Collaborating to communicate polar science: Impact at the intersection of polar pedagogy, community and creativity (241)

LUNCH TIME / 13:30 - 14:30	
14:30	Panel Discussion (plenary) - Room C / Chairs: Sophie Nowicki & Richard Levy
until 18:30	CONFERENCE WORKSHOPS & POSTER SESSION
20:00	Conference Dinner / Magazzino 42 - (Stazione Marittima di Trieste)

Conference Workshops

See the workshops topics here: <https://instant2023.org/conference-workshops-3/>



THURSDAY 14 SEPTEMBER
ROOM C
SYMPOSIUM
Melting ice and rising seas: telling stories, engaging audiences, and planning for the future
Part A – Science enterprise
Chairs/Moderators: Tim Naish

9:00	Valérie Masson-Delmotte	Climate change and Antarctica, lessons learnt from the IPCC AR6 on knowledge needs to inform decision-making (273)
9:20	Roderik van de Wal	High-End Estimate of Sea Level Rise for Practitioners (153)
9:40	Benjamin Hamlington	Sea Level Projections for the world (276)
10:00	Pierpaolo Campostrini	Venice's adapting to the SLR (274)
10:30	Panel Discussion with audience	

COFFEE BREAK / 11:00 – 11:30
**Part B –
What end-users need**
Chairs/Moderators: Flo Colleoni

11:30	Jochen Hinkel	Geophysics meets decision science: Genesis and exegesis of the IPCC sea-level rise scenarios (35)
11:50	Pam Pearson	Reflections of a Recovering Climate Negotiator (272)
12:10	Steven Chown	Instabilities and thresholds in Antarctic evidence-based policy: SCAR and the Antarctic Treaty System (162)
12:30	Panel Discussion with audience	

LUNCH TIME / 13:00 – 14:00
**Part C – Telling stories
and engaging publics**
Chairs/Moderators: Rebecca Priestley & Richard Levy

14:00	Rebecca Priestley	Instabilities and thresholds in climate change communication (88)
14:20	Sheila Watt-Cloutier	Re-Imagining A New Way Forward With Intention (281)
14:40	Rob Magnuson Smith	Narrating Polar Regions in Fiction: How Far from the Truth? (266)
15:00	Aimee Kaio	Te Tai Uka a Pia – Māori (Indigenous) relationships with the Southern Oceans (280)
15:20	Panel Discussion with audience	

COFFEE BREAK / 16:00 – 16:30

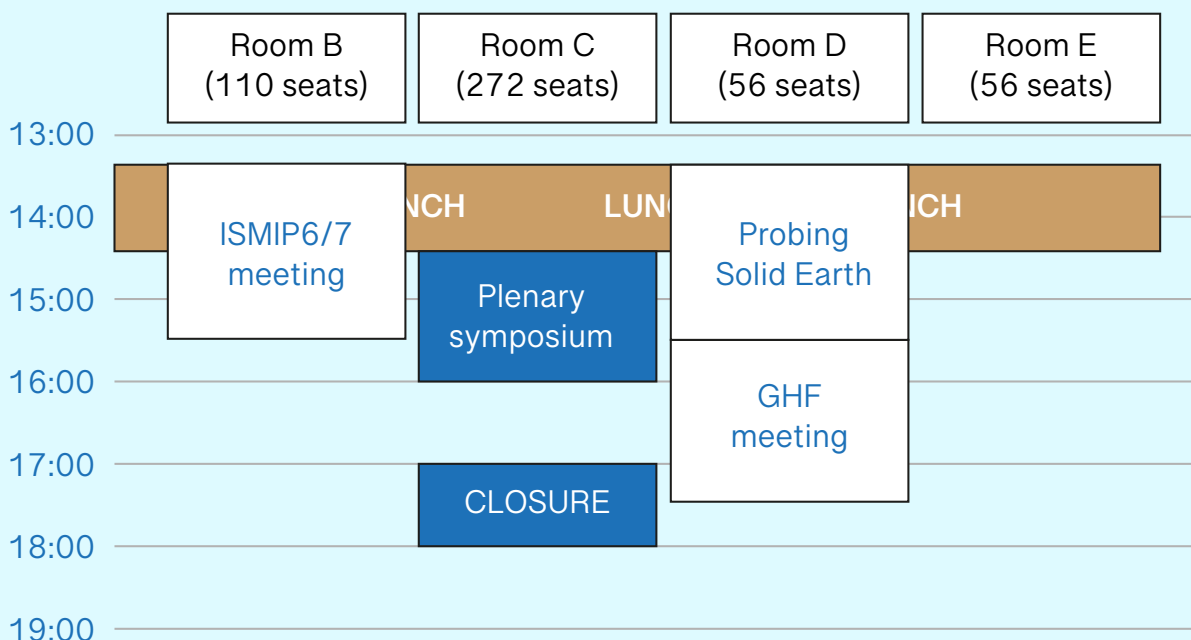
16:00 POSTER SESSION

CLOSING SESSION / 17:00 – 17:45

17:00	Tim Naish	Poster award
17:10	Marcelo Leppe	SCAR Next OSC
17:20	Yeadong Kim	SCAR President
17:30	Flo Colleoni	Closure of the conference

Conference Workshops

See the workshops topics here: <https://instant2023.org/conference-workshops-3/>



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Posters

Advances and knowledge gaps in Atmosphere–Ocean–Antarctic Ice Sheet interactions

ID	Name	Title
9	Eisermann Hannes	Ice–ocean interactions at Riiser–Larsen Ice Shelf assessed by unveiling of seabed beneath it
16	Gao Qinggang	Evaporative controls on Antarctic precipitation: An ECHAM6 study using novel water tracer diagnostics
17	Hugues Goosse	Centennial variability of Southern Hemisphere westerly winds and their impact on ice shelf melting.
18	Mas e Braga Martim	Antarctic ice stream thickening during the mid–Pliocene warm period
21	Simms Alexander R.	A review of pre–Last Glacial Maximum sea–level constraints across Antarctica
22	King Matt	Climate variability as a major forcing of recent Antarctic ice–mass change
23	King Matt	Major modes of climate variability dominate Antarctic ice–sheet and glacier elevation changes 2002–2020
25	Gille–Petzoldt Johanna	West Antarctic Ice Sheet dynamics in the Pliocene: Integration of IODP Expedition 379 drill records and seismic data
27	Mackenzie Frank	Modelled ocean and atmospheric feedbacks associated with the West Antarctic Ice Sheet during the last interglacial period
28	Ikehara Minoru	Millennial–scale instability of Antarctic Peninsula Ice Sheet during middle Holocene caused by teleconnection with low–latitude climate change
31	Duke Grace	Orbital forcings and paleoenvironmental interpretations of the Wilkes Land margin, East Antarctica during the Quaternary
43	Kolbe Marlen	Differences in the vertical structure and impact of ARs reaching Antarctic land and sea ice and the role of climate change
52	Gonçalves Jr. Sérgio J.	New insights of intense change of sea salt aerosol geochemistry in WAIS triggers by stratospheric ozone depletion
54	Dalaiden Quentin	Reconstructing historical ocean changes around the West Antarctic Ice Sheet over the past centuries
57	Yamazaki Yuri	Reconstruction of the ice sheet/shelf variability for the last 2 centuries based on the beryllium isotope of marine sediments from off Totten Glacier, East Antarctica
59	Burns Julianne	Paleomagnetism of sediment cores from Coulman High, Antarctica
63	Sime Louise	The first 250 years of the Heinrich 11 iceberg discharge: Last Interglacial HadGEM3–GC3.1 simulations for CMIP6–PMIP4
64	Takehara Keiko	Reconstructing Antarctic Bottom Water variability in Cape Darnley over the past 500 ka: Implications for marine carbon cycle

Posters

ID	Name	Title
65	Gutierrez-Pastor Julia (Escutia Carlota*)	Phases of deglaciation at IODP site 1357A, East Antarctic Wilkes Land margin
66	Itaki Takuya	Mid-Holocene retreat of ice shelves off Totten Glacier, East Antarctica
67	Morales Ocaña Cecilia	Paleoclimatic influence on bottom currents in the East Bransfield Basin during the late Holocene (Antarctic Peninsula)
69	Barro Savonuzzi Lorenza	Miocene mounds on the Ross Sea paleocontinental shelf: evidence for the onset of Antarctic glaciations or mud volcanoes?
70	Coenen Jason	Applied study of Fossil marine diatoms help understand sediment-glacier bed interactions at the Kamb Ice Stream and West Antarctic marine history
72	Ishino Saki	Abrupt changes in diatom assemblage during the mid-Pliocene warm period in the Ross Sea
75	Stenni Barbara	Can ice cores reveal past events of East Antarctic ice sheet retreat?
76	Eisen Olaf	Monitoring Melt Where Ice Meets Ocean – Continuous Observations of Ice-Shelf Basal Melt of Ekström Ice Shelf, Antarctica
78	Hoem Frida	Stepwise late Cenozoic breakdown of subpolar gyres and strengthening of the Antarctic Circumpolar Current
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Post-Conference Meetings

Please visit the Conference website for more details:

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PRAMSO Meeting

[Register to the meeting](#)

Contact

Richard Levy (R.Levy at gns.cri.nz)

Carlota Escutia (cescutia at ugr.es)

Friday 15 September / 9:00 – 13:00

Ex Ospedale Militare (75 seats)

ICEPRO Meeting

[Register to the meeting](#)

Contact

Johan Etourneau

(johan.etourneau at u-bordeaux.fr)

Friday 15 September

14:00 – 18:00

Ex-Ospedale Militare

IODP 374 POST – Cruise Meeting (CLOSED)

Contact

Laura De Santis

(Idsantis at ogs.it)

Saturday 17 to Monday 17

Museo dell'Antartide

SCAR EXECUTIVE COMMITTEE MEETING (CLOSED)

Contact

Rosemary Nash (rosemary@scar.org)

Friday 15 & Saturday 16 September

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