

MONTHLY NEWSLETTER

8TH EDITION

REWIND Antarctic Field Camp (Harry Davis)



Monday 27th April, 2026



Welcome...

to the eighth issue of the CryoExchange Newsletter!

We are thrilled to kick off 2026 by reflecting on what has been a busy start to the year for our community. In this issue, we celebrate our recent takeover of the Royal Scottish Geographical Society (RSGS) magazine, *The Geographer*. This was a massive achievement for CryoExchange, representing the culmination of a huge amount of effort from both organisers and contributors alike - well done to all involved!

As always, we also provide updates on recent member publications, fieldwork undertaken, workshops held, and upcoming opportunities. We also reflect on the recent Ocean Sciences Meeting in Glasgow—the first time this global event has been held outside the US.

We hope you enjoy this first update of the year, and look forward to an exciting year ahead.

Thank you to all those who contributed; if you have any feedback or news to share, please reach out at: cryoexchange.sages@gmail.com

Happy reading!

Contents

Welcome!

Member Publications

The Geographer Takeover

CryoExchange on Tour

Recent Events

Ocean Sciences Meeting

Summer Research Placements

Upcoming Events

Remember, to add your profile to our new website, please complete the form below!

[Member Profile Form](#)

01/05

 cryoexchange.sages@gmail.com

 cryo-exchange.com



Publications

Harcourt, W.D., Pearce, D.M., Gajek, W., Lovell, H., Mannerfelt, E.S., Käab, A., Benn, D., Luckman, A., Hann, R., Kohler, J., Strozzì, T., McCerery, R., Davies, B.J. (2026). Surging glaciers in Svalbard: Observing their distribution, characteristics and evolution, *Earth Science Reviews*, 275, 105410. <https://doi.org/10.1016/j.earscirev.2026.105410>.

MacManaway, J.L., Cook, S.J., Cutler, M.E. (2026) Monitoring glacier evolution and assessing glacial lake outburst flood (GLOF) susceptibility in the Bolivian Andes. *Journal of Glaciology* 72, e1, 1–19. <https://doi.org/10.1017/jog.2025.10112>

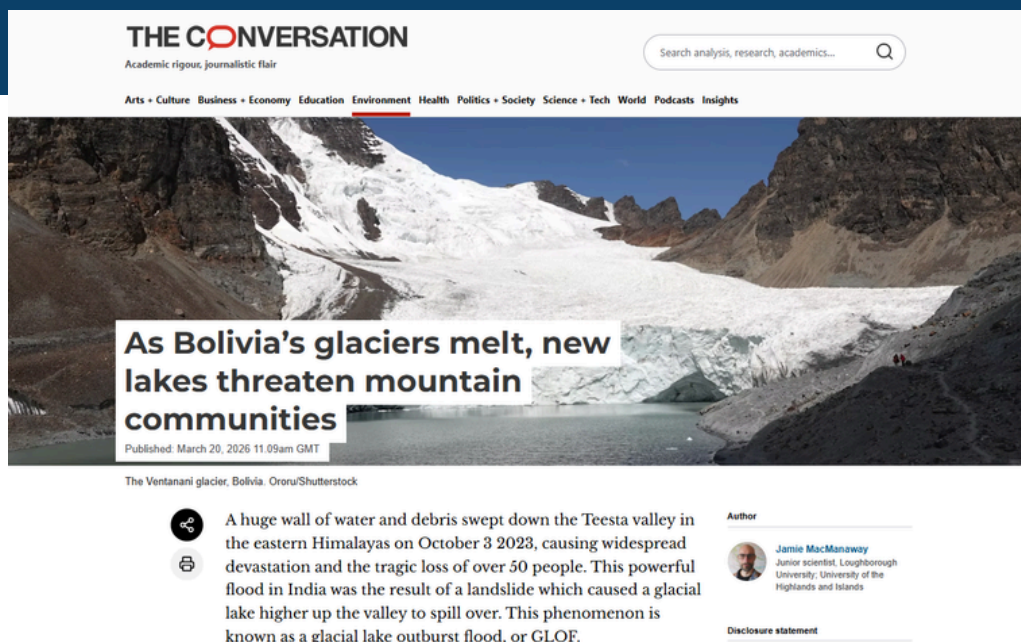
Morice, C. P., D. I. Berry, R. C. Cornes, K. Cowtan, T. Cropper, E. Hawkins, J. J. Kennedy, T. J. Osborn, N. A. Rayner, **B. Recinos Rivas**, A. P. Schurer, M. Taylor, P. R. Teleti, E. J. Wallis, J. Winn & E. C. Kent (2025) An observational record of global gridded near-surface air temperature change over land and ocean from 1781. *Earth System Science Data*, 17, 7079-7100. <https://doi.org/10.5194/essd-17-7079-2025>

Jain, L., Slater, D. A., and Nienow, P (2025) Modelling ocean melt of ice mélange at Greenland's marine-terminating glaciers, *The Cryosphere*, 19, 6865–6886, <https://doi.org/10.5194/tc-19-6865-2025>, 2025.

Ockenden, H., R. G. Bingham, D. Goldberg, A. Curtis & M. Morlighem (2026) Complex mesoscale landscapes beneath Antarctica mapped from space. *Science*, 391 (6782), 314-319. <https://doi.org/10.1126/science.ady2532>.

Plasman, C., Hancock, A., Raymond, B., Bax, N., Fierro-Arcos, D., **Henley, S.F.**, Benson, A., Corney, S., Evans, L., Friscourt, N., Eriksen, R. S., Henderson, A. F., Halfter, S., Jansen, J., McMahon, C. R., Meijers, A., Miloslavich, P., Hoopen, P., Corney, I., Walters, A., Swadling, K., Gan, Y., Van de Putte, A. (2026) Developing Essential Biodiversity Variables for the Southern Ocean: From data gaps to valuable insights. *Elementa: Science of the Anthropocene*, 14 (1): 00038. <https://doi.org/10.1525/elementa.2025.00038>

Member Highlight



THE CONVERSATION
Academic rigour, journalistic flair


Arts • Culture • Business • Economy • Education • Environment • Health • Politics • Society • Science • Tech • World • Podcasts • Insights

As Bolivia's glaciers melt, new lakes threaten mountain communities

Published: March 20, 2026 11:09am GMT

The Ventanani glacier, Bolivia. Ororu/Shutterstock

A huge wall of water and debris swept down the Teesta valley in the eastern Himalayas on October 3 2023, causing widespread devastation and the tragic loss of over 50 people. This powerful flood in India was the result of a landslide which caused a glacial lake higher up the valley to spill over. This phenomenon is known as a glacial lake outburst flood, or GLOF.

Author
 **Jamie MacManaway**
Junior scientist, Loughborough University; University of the Highlands and Islands

Disclosure statement



Jamie MacManaway (University of the Highlands and Islands) recently wrote a short article in [The Conversation](#) to accompany his recent [publication](#) (MacManaway et al., 2026). The study uses high spatial resolution satellite imagery over the Bolivian Andes to constrain annual glacier and glacial lake evolution to analyse the impact of continued deglaciation on water security and geohazards.



The Geographer

The **CryoExchange** issue of *The Geographer* is now available online and can be downloaded [here](#). Thank you to everyone for all your great efforts in producing such a wonderful piece. Be sure to share it with folks to showcase all the exciting cryospheric science that Scotland has to offer!

CryoExchange on Tour

Svalbard

Niamh Doherty (University of Aberdeen) recently spent two months in Svalbard, participating in the **AG-825 PhD Glaciology course** led by Prof. Andy Hodson at the University Centre in Svalbard (**UNIS**). Niamh gained a better understanding of the complex thermal regimes of Svalbard's glaciers and their influence on hydrological processes and ice dynamics, including glacier surging.

The coursework featured lectures and fieldwork from a diverse range of glaciologists. Activities included high- and low-frequency ground-penetrating radar surveys using snowmobiles and firn coring at Drønbreen glacier, studying proglacial icings at various glacier forefields with geochemical analysis, and a trip to the 'Surge City' of Rindersbukta to observe actively surging land- and marine-terminating glaciers such as Vallåkrabreen, Paulabreen, and Scheelebreen.

Niamh also completed the **AS-101 Arctic Survival and Safety course**, gaining scenario-based training to improve field safety skills in the Arctic, including sea ice, glacier, and avalanche rescue techniques. This experience is highly valuable for her PhD research, which focuses on how glacier surging impacts surface mass balances in Svalbard.



Niamh Doherty in Svalbard



Australia

Kora Ross (University of Aberdeen) is currently halfway through a 12-week research visit at the Australian Nuclear Science and Technology Organisation (**ANSTO**), undertaking the laboratory phase of cosmogenic nuclide dating for her PhD on the glacier and climate history in the Californian Sierra Nevada during the last

03/05



cryoexchange.sages@gmail.com



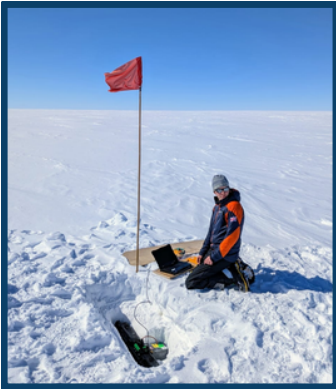
cryo-exchange.com



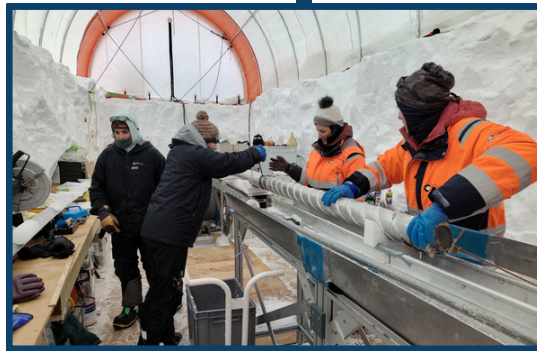
Australia

deglaciation. Kora's work at ANSTO focuses on the chemical preparation of boulder samples for ^{10}Be analysis, including quartz purification and beryllium extraction and final oxide precipitation for Accelerator Mass Spectrometry (AMS) target production.

This placement is providing in-depth training in clean laboratory protocols and the full geochemical workflow required for cosmogenic nuclide analysis. The samples being processed will be used to generate exposure ages, which will contribute to constraining the timing and extent of the late Pleistocene glaciations in the Sierra Nevada.



Ice Core Drilling



GPR Surveying

Antarctica



Harry Davis, a PhD student at the **University of Edinburgh**, recently had the incredible opportunity to join the British Antarctic Survey's **REWIND** deep-ice coring field season on the southern **Antarctic Peninsula**.

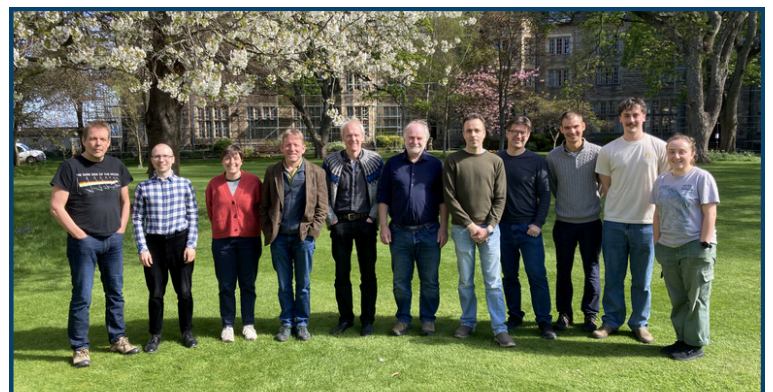
This project aims to recover a high-resolution proxy record of sea ice, westerly-wind, and CO₂ oscillations through the Holocene. To aid the interpretation of the ice core, we conducted several geophysical surveys (GPR, ApRES, GNSS) to better understand past and present flow conditions at the site.

We also tested a new UHF ApRES instrument that could revolutionise our understanding of the firn layer - a critical component for ice core science.

Recent Events

The **University of Aberdeen's Centre for the North** hosted a multidisciplinary **sea ice workshop** in February. The event hosted academics from various disciplines focused on sea ice, with attendees travelling from Canada, Alaska, Japan, and the Netherlands among other places. The first day was filled with presentations, including talks from SAGES' **Anna Crawford** (University of Stirling), **Doria De Souza Etchells** (University of Edinburgh), and **Jacob Seston** (University of Aberdeen). The second day was focused on discussing the fragmentation of sea ice research and possible methods to promote more interdisciplinarity within the field.

CryoExchange members **Anna Crawford**, **Iain Wheel**, **Will Spicer**, and **Hannah Picton** recently attended the kick-off meeting for a newly funded ERC project, **CALIX (Calving Law for Ice-Climate Simulations)**. Led by **Prof. Doug Benn** (University of St. Andrews), CALIX aims to develop a new universal calving law. More information on the project can be found [here!](#)



Ocean Sciences Meeting

Glasgow recently made history as the first city outside the United States to host the Ocean Sciences Meeting (OSM). Held between **22–27 February**, the conference brought the global ocean research community to our doorstep. The CryoExchange community was well-represented, with several members delivering fantastic talks & posters that showcased our latest research. Find details of the presentations below and across!

[Exploring Beyond the Tip of the Iceberg: Understanding Coupled Iceberg Impacts on Oceans, Glaciers, and Climate](#)
Anna J Crawford, Ben Evans, David Sutherland, Alexander Huth, and **Neil McDonald**.

[Assessing the Impact of Fjord Processes on Heat Delivery to 64 Marine-Terminating Glaciers Across Greenland](#)

Emma Cameron, Tom Cowton, Alexander Bradley and Paul Holland.

[Efficient simulation of glacial fjord dynamics using a new reduced physics model \(FjordRPM\)](#)
Donald Slater, Eleanor Johnstone, **Martim Mas e Braga**, Neil Fraser, **Tom Cowton**, Mark Inall.

[Implications of glacier retreat for sedimentary organic carbon dynamics in Arctic fjords](#)
Beth Langley, **Karen Cameron**, Heidi Burdett, Thomas Juul Pedersen, and Nick Kamenos.

[Contrasting Ocean-Glacier Responses in East Greenland: The Role of Remote and Local Forcings at 79N Glacier and in Kangerittivag](#)
Torsten Kanzow, Claudia Wekerle, Rebecca McPherson, and **Donald Slater**.

Summer Research Experience Placements

The **University of Edinburgh** are pleased to announce that the Natural Environment Research Council (NERC) has awarded funding for up to four Research Experience Placements (REPs) to be undertaken over the summer 2026 period.

These projects are a great way for undergraduate students to gain valuable hands-on research experience, supervised by an academic and mentored by a current PhD student.

For more information on applicant eligibility and the application process, click [here](#). Projects include:

[Towards a new glacier inventory for Antarctic Peripheral Glaciers](#)

Supervised by **Dr Beatriz Recinos Rivas**.

[Role of headwater ephemeral channels in postglacial landscape evolution and associated fluvial hazards in the Grampian Mountains](#),

Supervised by **Dr Elizabeth Orr**.

Upcoming Events

SAGES ASM 2026 Heriot-Watt University

The 2026 SAGES Annual Science Meeting (ASM) will be held at **Heriot-Watt University, Edinburgh** on **Wednesday 3rd** and **Thursday 4th June 2026**. The SAGES ASM is a fantastic opportunity for our community to come together to showcase outstanding research, exchange ideas, and explore future directions for SAGES.

Delegates are invited to present their work through oral and poster presentations. The **deadline** to register is **Wednesday 6th May 2026**. Travel and accommodation costs of up to £200 can be claimed by members. For more information on the event and registration, click [here](#).

EGU 2026, Vienna

Are you headed to EGU? Don't forget to add the CryoExchange logo to your slides or poster! We would also love to feature your presentations in our next newsletter - please feel free to send us details of your talk/posters and/or any photos!

Get Involved!

 [@cryoexchange.bsky.social](#)

 [CryoExchange - SAGES Forum](#)

Newsletter Editors

Clara Nyqvist (University of Edinburgh)
Hannah Picton (University of Edinburgh)
Harry Davis (University of Edinburgh)

05/05

 cryoexchange.sages@gmail.com

 cryo-exchange.com

