

Instructions to authors

Detailed instructions to authors are available online here:
cambridge.org/core/journals/journal-of-glaciology/information

The *Journal of Glaciology* publishes two types of paper:

- articles on new glaciological findings and theories, or new instruments and methods, or up-to-date, coherent articles reviewing a glaciological subject
- letters of a topical nature, or comments on papers previously published in the Journal

Papers submitted should be:

- of high scientific quality
- complete and clear
- substantially different from previously published work.

Length

Papers should be concise. Lines and pages should be numbered. Papers more than 12 *Journal* pages in length should be cleared with the Chief Editor before submission (one *Journal* page = about 1000 words). Letters are limited to five *Journal* pages.

Original submission

Submit your paper via the *Journal of Glaciology* online submission system at <https://mc.manuscriptcentral.com/jog>

Review process

Your paper will be peer reviewed by at least two reviewers. The Scientific Editor will discuss any alterations required to the paper. The Associate Chief Editor will inform you if and when your paper is accepted for publication. Papers written in poor English will be rejected without review.

You will be sent a proof of your text and illustrations to check and correct (you will have to pay for any substantial alterations made at this stage).

Final submission

The final accepted version of the paper should be in electronic format.

- Acceptable formats are
 - Text (including tables and figure captions) – Word, rtf or LaTeX (the IGS class file should be used; downloadable from the website). Please also supply a final PDF
 - Figures – ideally in tif or eps format (or otherwise in the format in which they were created)
- Responsibility for the accuracy of all data (including references) rests with the authors

Supplementary material

The *Journal of Glaciology* accepts and makes available online appropriate supplementary material. It should be clearly named and labelled and provided in standard file formats.

General points

- Title should be concise
- Abstract should be less than 200 words
- Papers should be divided into numbered sections with short section headings
- Use SI units
- Use internationally recognized systems of abbreviation
- Illustrations should
 - be one or two column widths: up to 85 mm or up to 178 mm
 - not be in boxes
 - use strong black lines (avoid tinting if possible)
 - use SI units in labels
 - use Optima, Arial or a similar sans serif font in labels
- TeX authors: please provide a pdf of the whole paper (text, tables, figures and captions) as well as the individual LaTeX and graphics files
- Equations should
 - be set in MathType or advanced equation editor
 - NOT be embedded as graphics in the text
- Tables should
 - be numbered in Arabic
 - be referred to in text (as Table 1 etc.)
 - NOT be submitted as illustrations
- All citations in text should include the author name(s) and the year of publication (e.g. Smith, 2010; Smith and Jones, 2012; Smith and others, 2014) and must have an entry in the reference list
- Reference lists should
 - be concise
 - be complete and accurate, including doi numbers
 - be provided in precise *Journal* format, including punctuation and emphasis (see past papers for style)
 - be arranged in alphabetical order by first author's surname
 - include works accepted but not published as 'in press'
 - not include personal communications, unpublished data or manuscripts in preparation or submitted for publication (these should be included in the text)

Open Access and page charges

As a gold open access journal, the *Journal of Glaciology* is published without restriction and receives no subscription revenue. The costs of publication are instead covered by an article publishing charge (APC) levied upon the corresponding author, or his/her funding body or institution.

The APC for non-IGS members is £1,200 for a regular article and £600 for a letter.

The APC for IGS members is £1,080 for a regular article and £540 for a letter. The APCs quoted here are correct for 2016.

Upon acceptance for publication the corresponding author will be contacted by Rightslink on behalf of Cambridge University Press, who will administer the collection of the article publishing charge. At that stage the corresponding author can pay by credit card or arrange for an invoice to be issued to his/her funding body or institution. Selected authors may be granted an APC waiver by the IGS. In such cases, a waiver code shall be provided, which should be issued to Rightslink upon receipt of the payment.

Journal of GLACIOLOGY

CONTENTS Vol 63 No 242 2017

937–949 An integrated Structure-from-Motion and time-lapse technique for quantifying ice-margin dynamics

Joseph Mallalieu, Jonathan L. Carrivick, Duncan J. Quincey, Mark W. Smith, William H.M. James

950–958 Wind tunnel experiments: saltation is necessary for wind-packing

Christian G. Sommer, Michael Lehning, Charles Fierz

959–972 Geometry and ice dynamics of the Darwin–Hatherton glacial system, Transantarctic Mountains

Mette K. Gillespie, Wendy Lawson, Wolfgang Rack, Brian Anderson, Donald D. Blankenship, Duncan A. Young, John W. Holt

973–988 Centreline and cross-glacier air temperature variability on an Alpine glacier: assessing temperature distribution methods and their influence on melt model calculations

Thomas E. Shaw, Ben W. Brock, Álvaro Ayala, Nick Rutter, Francesca Pellicciotti

989–998 Thickness estimation of supraglacial debris above ice cliff exposures using a high-resolution digital surface model derived from terrestrial photography

L. Nicholson, J. Mertes

999–1011 Error sources in basal yield stress inversions for Jakobshavn Isbræ, Greenland, derived from residual patterns of misfit to observations

Marijke Habermann, Martin Truffer, David Maxwell

1012–1024 Basal dynamics of Kronebreen, a fast-flowing tidewater glacier in Svalbard: non-local spatio-temporal response to water input

Dorothée Vallot, Rickard Pettersson, Adrian Luckman, Douglas I. Benn, Thomas Zwinger, Ward J. J. Van Pelt, Jack Kohler, Martina Schäfer, Björn Claremar, Nicholas R. J. Hulton

1025–1033 Changes in ice volume of the Ningchan No.1 Glacier, China, from 1972 to 2014, as derived from in situ measurements

Bo Cao, Baotian Pan, Weijin Guan, Jie Wang, Zhenling Wen

1034–1048 Sediment behavior controls equilibrium width of subglacial channels

Anders Damsgaard, Jenny Suckale, Jan A. Piotrowski, Morgane Houssais, Matthew R. Siegfried, Helen A. Fricker

1049–1062 The secret life of ice sails

Geoffrey W. Evatt, Christoph Mayer, Amy Mallinson, I. David Abrahams, Matthias Heil, Lindsey Nicholson

1063–1076 Albedo reduction of ice caused by dust and black carbon accumulation: a model applied to the K-transect, West Greenland

Thomas Goelles, Carl E. Bøggild

1077–1089 Patterns in glacial-earthquake activity around Greenland, 2011–13

Kira G. Olsen, Meredith Nettles

1090–1104 Comparison of the meteorology and surface energy fluxes of debris-free and debris-covered glaciers in the southeastern Tibetan Plateau

Wei Yang, Tandong Yao, Meilin Zhu, Yongjie Wang

1105–1118 Using structure from motion photogrammetry to measure past glacier changes from historic aerial photographs

Lauren J. Vargo, Brian M. Anderson, Huw J. Horgan, Andrew N. Mackintosh, Andrew M. Lorrey, Merijn Thornton

Published for the International Glaciological Society, Cambridge, UK

Cambridge Core
For further information about this journal
please go to the journal website at:
cambridge.org/jog



MIX
Paper from
responsible sources
FSC® C007785



CAMBRIDGE
UNIVERSITY PRESS

Front cover

Hand-drawn map of the terminus of Crusoe Glacier, Axel Heiberg Island, Nunavut, Canada, produced circa 1960 for the Jacobsen–McGill Arctic Research Expedition surveying programme

Image credit: Artist unknown but potentially Dieter G. Haumann (1960), Jörg Leisinger (1960), or A.C.D. Terroux (1962). Collected at the McGill Arctic Research Station in 2013 and scanned by L. Thomson for the University of Ottawa map library