Instructions to authors

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

The Journal of Glaciology publishes three types of paper:

- Articles - concerning new findings and theories, or new instruments and methods, in glaciology; or review articles that offer an up-to-date, coherent account of a glaciological subject that is developing rapidly or has been neglected
- Letters - identical in form and general content to Articles, but of reduced length, and carrying substantially reduced processing charges
- Communications - short pieces without abstracts that could be, e.g., comments on published articles/letters, book reviews, or short correspondence on topics of interest to the community

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. Letters are limited to five Journal pages and Correspondences to two (one Journal page = about 1000 words).

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, not appropriate for the journal, or of inferior quality will be rejected without review.

You will be sent a proof of your text and illustrations to check and correct in advance of online publication.

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 £1,320 for a regular article (of 6 published pages or more), £660 for a letter (of 5 published pages or fewer) and £300 for a communication (of 2 published pages or fewer). IGS members receive a 10% discount on these charges.

Figures quoted here are correct for 2022.

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.
CONTENTS Vol 68 No 267     2022

1–12 A theory of glacier dynamics and instabilities
Part 1: Topographically confined glaciers
Hsien-Wang Ou

13–24 A theory of glacier dynamics and instabilities Part 2: Flatbed ice streams
Hsien-Wang Ou

25–40 Measurement of unsaturated meltwater percolation flux in seasonal snowpack using self-potential
Wilson S. Clayton

41–53 An application of three different field methods to monitor changes in Urumqi Glacier No. 1, Chinese Tien Shan, during 2012–18
Hongliang Li, Puyu Wang, Zhongqin Li, Shuang Jin, Chunhai Xu, Shuangshuang Liu, Zhengyong Zhang and Liping Xu

54–64 Satellite-derived dry-snow line as an indicator of the local climate on the Antarctic Peninsula
Chunxia Zhou, Yong Liu and Lei Zheng

65–76 Dielectric anisotropy as indicator of crystal orientation fabric in Dome Fuji ice core: method and initial results
Tomotaka Saruya, Shuji Fujita and Ryo Inoue

77–89 Helheim Glacier diurnal velocity fluctuations driven by surface melt forcing
Laura A. Stevens, Meredith Nettles, James L. Davis, Timothy T. Creyts, Jonathan Kingslake, Andreas P. Ahlstrom and Tine B. Larsen

90–100 Continuous flow analysis methods for sodium, magnesium and calcium detection in the Skytrain ice core
Mackenzie M. Grieman, Helene M. Hoffmann, Jack D. Humby, Robert Mulvaney, Christoph Nehrburg-Ahles, Julius Rix, Elizabeth R. Thomas, Rebecca Tuckwell and Eric W. Wolff

101–113 Spatiotemporal supraglacial pond and ice cliff changes in the Bhutan–Tibet border region from 2016 to 2018
Caroline Jane Taylor, Joanne Rachel Carr and David Robert Rounce

114–123 Modelling the Vadret da Tschierva, Switzerland: calibration with the historical length record and future response to climate change
Johannes Oerlemans and Felix Keller

124–138 Bed topography and marine ice-sheet stability
Olga V. Sergienko and Duncan J. Wingham

139–152 Phase-sensitive radar as a tool for measuring firn compaction
Elizabeth Case and Jonathan Kingslake

153–165 The seasonal cycle and break-up of landfast sea ice along the northwest coast of Kotelny Island, East Siberian Sea
Mengxi Zhai, Bin Cheng, Matti Leppäranta, Fengming Hui, Xinping Li, Denis Demchev, Ruibo Lei and Xiao Cheng

166–173 Ultraviolet germicidal irradiation of melted snow and ice samples: inactivation of microorganisms and effects on insoluble microparticles
Fumio Nakazawa and Kumiko Goto-Azuma

174–186 Three-decade spatial patterns in surface mass balance of the Nivlisen Ice Shelf, central Dronning Maud Land, East Antarctica
Bhanu Pratap, Rahul Dey, Kenichi Matsuoka, Geir Moholdt, Katrin Lindbäck, Vikram Goel, C. M. Laluraj and Meloth Thamban

187–196 Deformation motion tracks sliding changes through summer, western Greenland
Nathan Maier, Neil Humphrey, Toby Meierbachtol and Joel Harper

Letters

197–203 Melting temperature changes during slip across subglacial cavities drive basal mass exchange
Alan W. Rempel, Colin R. Meyer and Kiya L. Riverman

204–208 The ecology of diatoms inhabiting cryoconite holes in Antisana Glacier, Ecuador
Susana Chamorro, Jennifer Moyón, Franks Araya, José Salazar, Juan-Carlos Navarro, Eloy Bécares and Saúl Blanco

Published for the International Glaciological Society, Cambridge, UK