



INTERNATIONAL GLACIOLOGICAL SOCIETY

International Symposium on
Maritime Glaciers



**IGS 2022
MARITIME
GLACIERS
JUNEAU
ALASKA**

University of Alaska Southeast
Juneau, Alaska, USA
19–24 June 2022

SECOND CIRCULAR
February 2022

<https://www.igsoc.org/symposia/2022/juneau2022>
Local website: <https://uas.alaska.edu/conferences/igs2022/>



The University of Alaska Southeast and the International Glaciological Society are pleased to announce the International Symposium on Maritime Glaciers, which will take place in Juneau, Alaska, USA, from 19–24 June 2022.

THEME

Glaciers in most parts of the world are located well above treeline. However, in maritime climates it's possible to stand on a glacier and look up at forested valley slopes. Maritime glaciers exist not because of especially cold temperatures, but because of high snow accumulation rates. In places like Southeast Alaska, snow accumulation rates often exceed 5 m per year at high elevations, melting can occur year round and can exceed 10 m per year at low elevations, and persistent rainfall is a significant component of glacier runoff. Temperate ice and wet snow are also characteristics of maritime glaciers. Due to their high mass turnover, maritime glaciers respond quickly to climate change, and surging glaciers in maritime climates have shorter surge cycles than surging glaciers found elsewhere. A small percentage of maritime glaciers terminate in water, but these glaciers have outsized impacts on sea level rise due to their large size and susceptibility to rapid change.

The glacier-to-ocean distance is generally small for maritime glaciers, and as a result these glaciers constitute a large portion of their respective watersheds, with important consequences for stream temperature and chemistry and adjacent ecosystems. The short glacier-to-ocean distance also means that glacier runoff in these environments strongly affects the physical and chemical oceanography of near-shore waters, which serves as important habitat for fish, such as salmon, marine mammals, and sea birds. Glacier transition into or out of marine systems has profound impacts on fjord circulation, water properties, and ecosystem evolution. Deglaciation of these landscapes also increases the risk of landslides and landslide-generated tsunamis. The rich marine habitat provided in part by glaciers has sustained humans for centuries, and the peoples living along these coastal waters have important stories and legends related to glacier change. Glaciers continue to be an essential component of maritime societies, although today the focus is shifting toward ecotourism.



TOPICS

We seek papers and presentations that advance the understanding of maritime glaciers and their role in landscape and ecosystem change. Key focus areas include (but are not limited to):

1. Instruments and methods for observing high-accumulation, high-melt glaciers
2. Glacier hydrology and wet firn
3. Glacier runoff and sediment and nutrient export
4. Tidewater and lake-calving glaciers
5. Glacier-ocean-sediment interactions
6. Surging glaciers
7. Hazards associated with landscape change: outburst floods, landslides, and tsunamis
8. Impacts on terrestrial and marine ecosystems
9. Social and indigenous perspectives

PROGRAM

The symposium will include oral and poster sessions, organized thematically around topics related to glacier processes, glacier-landscape interactions, and glacier-ecosystem interactions. Additional activities will include an opening icebreaker, a short trip to Mendenhall Glacier, a mid-week excursion to Tracy Arm, and a banquet dinner. We have also organized a pre-symposium excursion to Glacier Bay National Park.

Please check whether you will require a visa to enter the USA. If you need an invitation letter, please contact the IGS office at igsoc@igsoc.org. The sooner you do this the more likely it is that your visa will be processed in time.

ABSTRACT AND PAPER SUBMISSION AND PAPER PUBLICATION

Participants wishing to present a paper (either oral or poster) at the symposium will be required to submit an abstract by 15 March 2022. A collection of submitted abstracts will be provided for all participants at the symposium. The Council of the International Glaciological Society has decided to publish a thematic issue of the *Annals of Glaciology* on topics consistent with the Symposium themes. Participants are encouraged to submit manuscripts for this *Annals* volume.



REGISTRATION FEES

All fees are in USD, \$

Early registration until 8 April 2022

– Participant (IGS member):	\$600
– Participant (not IGS member):	\$700
– Student or retired (IGS member):	\$300
– Student or retired (not IGS member):	\$400
– Accompanying person (≥ 18):	\$200
– Accompanying person (7–17):	\$100
– Accompanying person (≤ 6):	Free

*Online options**

– Online participant (IGS member):	\$150
– Online participant (not IGS member):	\$200 [†]
– Registration after 8 April 2022:	add \$50
– Registration after 15 May 2022:	add further \$100

All prices will be charged in UK£ equivalent at the exchange rate valid near the date of transaction. Note there is a cap of 150 delegates for the symposium on a first-come-first-serve basis, so register early.

The fees include:

- **In-person participants:** attendance at the conference sessions and activities, the Icebreaker, the mid-symposium excursion, the Banquet and coffee-break refreshments from Monday to Friday.
- **Online participants:** virtual attendance at the conference sessions and activities.[‡]
- **Accompanying persons:** the Icebreaker, the midweek excursion and the Banquet (with alcoholic drinks for those ≥ 21). **Attendance at the presentation sessions is not included.**

Non-member registration includes a year's membership of the IGS.

*We encourage all participants to attend the Symposium on site. If there is a worsening of the COVID-19 situation, all in-person participants will become online participants and the fee difference (if applicable) will be refunded.

[†] If a student, you can join the IGS and online participation will then cost \$175

[‡] Due to their nature, some of these activities will be face-to-face only, always following the required and recommended COVID-19 prevention measures.



SOCIAL EVENTS

Icebreaker

We plan to hold an icebreaker reception at 5:00 pm on Sunday, 19 June, at the Forbidden Peaks Brewery near the campus of the University of Alaska Southeast. Food and beverages will be available. Participants can also use this opportunity to complete their registration and collect their conference materials.

Short visit to Mendenhall Glacier

On the afternoon of Tuesday, 21 June, we hope that participants will have the opportunity to visit the nearby Mendenhall Glacier Visitor Center and take a short hike to learn about the history of the glacier.

Mid-week excursion and banquet

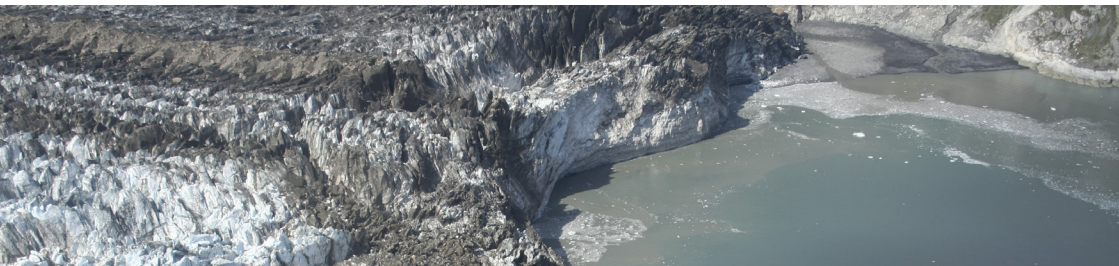
A day-long boat tour to Tracy Arm, a glacial fjord with two tidewater glaciers, will take place on Thursday, 23 June. Space on the boat is limited to 130 passengers, so participation is strictly on a first-come-first-serve basis. On the return trip to Juneau participants will be dropped off at Orca Point Lodge, which is on a small island about 15 km from Juneau, for the symposium banquet. Those not participating in the excursion will be shuttled to the lodge via separate vessel.

Pre-symposium excursion

We are offering a three-day, two-night pre-symposium excursion to Glacier Bay National Park from 17–19 June.

Explore this world-famous park and learn about the effects that the Little Ice Age (LIA) advance and post-LIA retreat has had on indigenous inhabitants and on local and regional terrain. Learn about tidewater glacier retreat, the park's wildlife, and the region's post-LIA plant successions: (<https://www.nps.gov/glba/index.htm>).

The excursion includes catamaran whale-watching travel to and from the park, two nights stay at Glacier Bay Lodge (<https://www.visitglacierbay.com/>), all meals, a day boat tour of the West Arm of the park to the





tidewater faces of the Margerie and Grand Pacific Glaciers (<https://www.visitglacierbay.com/tours/glacier-bay-day-tour/>), and a meeting with representatives of the Tlingit indigenous community at Xunaa Shuká Hít – The Huna Tribal House (<https://www.nps.gov/glba/learn/historyculture/huna-tribal-house-project.htm>).

There is a cap of 50 people that we can accommodate on this excursion. Participation is strictly on a first-come-first-serve basis, so please send an email to uas.igs2022@alaska.edu ASAP if you are interested in participating. Consult the local website for additional details on the excursion, including costs. Information will be updated once it is available.

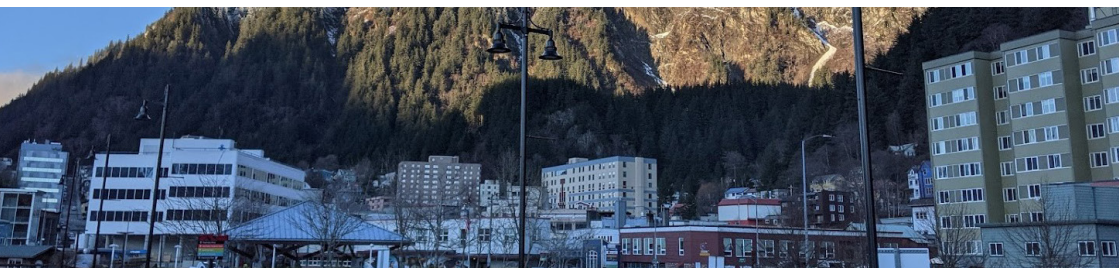
VENUE

The symposium will be held at the University of Alaska Southeast, a small public liberal arts university located 15 km from downtown Juneau, Alaska. The university is situated between Auke Lake and Auke Bay, surrounded by old-growth temperate rainforest, and provides stunning views of the surrounding mountains.

LOCATION

Juneau, with a population of about 30 000, is a coastal community nestled in the Pacific Coastal Temperate Rainforest. The Juneau Icefield is accessible from several points along the Juneau road system, and Glacier Bay National Park is about 100 km to the west. The town has over 100 hiking trails of various lengths and difficulties and great access for sea kayaking and fishing. Black bears, deer and porcupines are commonly seen around town, and humpback whales, orcas, harbor seals and sea lions are regular visitors to the marine environment.

Juneau is the ancestral home of the Tlingit people. The modern town of Juneau was founded in 1880 by goldseekers and held three of the world's largest gold mines in the early 20th century. Now closed, traces of these gold mines can still be found scattered throughout the forests and mountains.





Although other nearby mines have opened and play an important role in Juneau's economy, the city also has strong fishing and tourism industries and, as the capital of Alaska, it is home to numerous federal and state agencies. As a result, Juneau is a vibrant community for its size.

ACCOMMODATION AND LOCAL TRANSPORT

58 rooms have been reserved in campus housing (\$55/night for single occupancy; \$27.50/night for double occupancy; \$8/day for cold breakfast and \$13/day for a hot breakfast). An additional 29 rooms have been blocked at the Ramada (\$225–\$235/night) and 30 rooms at the Baranof (\$209/night) in downtown Juneau. You must make the bookings yourself. Information on how to make the bookings will be provided on the local website once it is available.

Juneau has several other hotels, lodges, and bed and breakfasts available if you would prefer a different accommodation. Note that the symposium will be held at the height of the summer tourist season. You are encouraged to make travel arrangements early.

Shuttle buses have been arranged to shuttle delegates between downtown hotels and the university, and also for delegates wishing to eat dinner or go out at downtown establishments. Dining options near the university are limited. The university can also be reached from downtown by express bus on weekdays between 8:00 am and 6:00 pm and by taxi/Uber/Lyft.

SYMPOSIUM ORGANIZATION

Magnús Már Magnússon (International Glaciological Society)

SCIENCE STEERING AND EDITORIAL COMMITTEE

Shin Sugiyama (Hokkaido University, Chair), Brian Anderson (Victoria University of Wellington), Liss Andreassen (Norwegian Water Resources and Energy Directorate), Andy Aschwanden (University of Alaska Fairbanks), Guðfinna Aðalgeirsdóttir (University of Iceland), Etienne Berthier (Laboratoire d'Etudes en Géophysique et Océanographie Spatiales), Emily Eidam (University of North Carolina), Gwenn Flowers (Simon Fraser University), Claudine Hauri (University of Alaska Fairbanks), Mark Hopwood (Southern University of Science and Technology), Adrian Jenkins (Northumbria University), Michelle Koppes (University of British Columbia), Mike Loso (National Park Service), Andrés Rivera (Universidad de Chile), Thomas Schuler (University of Oslo), Martin Truffer (University of Alaska Fairbanks), Jun Uetake (Hokkaido University)



LOCAL ORGANIZING COMMITTEE (LOC)

Jason Amundson (Chair; University of Alaska Southeast), Eran Hood (University of Alaska Southeast), Lynn Kaluziensi (University of Alaska Southeast), Roman Motyka (University of Alaska Fairbanks), Tom Thornton (Alaska Coastal Rainforest Center), Jamie Womble (National Park Service), Andy Bliss (National Park Service)

FURTHER INFORMATION

If you wish to attend the symposium, please register your interest online at <https://www.igsoc.org/symposia/2022/juneau2022/>

Information will also be updated on the local website: <https://uas.alaska.edu/conferences/igs2022/>

Questions can be directed to uas.igs2022@alaska.edu

IMPORTANT DATES

Maritime Glaciers

Opening of online abstract submission:	15 January 2022
Abstract submission deadline:	15 March 2022
Opening of online registration:	25 March 2022
Notification of abstract acceptance:	1 April 2022
Early registration deadline:	8 April 2022
Deadline for full refund:	6 May 2022
Deadline for refund on a sliding scale:	22 May 2022
Late registration surcharge starts:	22 May 2022
Symposium starts:	19 June 2022

Annals of Glaciology volume 64, issue 87

Paper submission deadline:	27 October 2022
Final revised papers deadline:	16 March 2023

The Call for Papers for the *Annals of Glaciology* is posted on https://www.igsoc.org/annals/call_4_papers/. Accepted papers will be published as soon as authors have returned their proofs and all corrections have been made.

Hard copy publication is scheduled for mid to late 2023.