

53rd ANNUAL INTERNATIONAL ARCTIC WORKSHOP

**March 18-21, 2026
Buffalo, New York**

PROGRAM AND ABSTRACTS

Sponsored and Hosted by:

University at Buffalo
Center for Geological and Climate Hazards
The (RENEW) Research and Education in eNergy, Environment
and Water Institute
College of Arts and Sciences
Department of Geology

Organizing Committee:

Elizabeth Thomas
Kristin Poinar
Jason Briner
Karlee Prince
Gerard Otiniano
Lisa Lenker
Juana Colón
Laura Yearke

Introduction

(updates ongoing)

Overview and History

Annual International Arctic Workshop

The 53rd Annual International Arctic Workshop will be held on the Medical campus of the University of Buffalo. The meeting is sponsored and hosted by the University at Buffalo, Center for Geological and Climate, College of Arts and Sciences, Department of Earth Sciences, and the RENEW Institute. This workshop has grown out of a series of informal annual meetings started by John T. Andrews and sponsored by INSTAAR and other academic institutions worldwide.

Northeast Glaciology Meeting

[The International Glaciological Society \(IGS\)](#) Northeast Glaciology Meeting fosters collaboration and discussion among scientists at all career stages. This informal, student-friendly event encourages participants to share posters and talks in a relaxed, interactive setting. The IGS was founded in 1936 to provide a focus for individuals interested in practical and scientific aspects of snow and ice.

General Information

Event Website

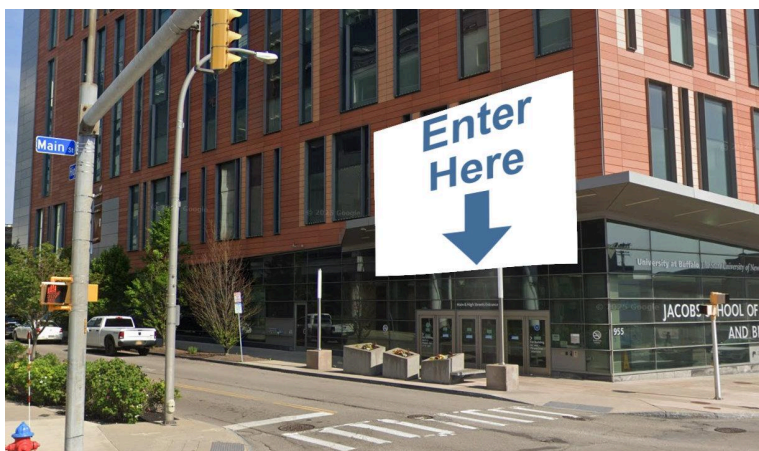
[The Arctic Workshop & The Northeast Glaciology Meeting](#)

Location

UB Jacobs School of Medicine and Biomedical Sciences

The conference venue is the Jacobs Medical School building at [955 Main St, Buffalo, NY 14203](#) ([Google map](#)).

Use the [Main & High Streets Entrance](#)



The building is staffed by 24 hour security. Use the buzzer to the right of the door or inside the vestibule and say you are here for the Arctic Workshop. Keep your conference name tag for subsequent entry.

Check-In / Registration

Check in is open:

Wednesday, March 18, at the Icebreaker/Reception between 5:00 – 7:00 pm

Thursday and Friday, March 19-20, beginning at 8:00 am.

Registration to the event may also be available at these times - depending on the final number of current registrations.

Parking

The recommended parking solution is the [Ellicott-Goodrich parking garage at 860 Ellicott Street](#), two blocks away. Cost is approximately \$10-15 per day. Alternatively, street parking downtown is available but not ample.

Wi-Fi

Wi-Fi available via [UB eduroam](#). If you do not have an eduroam account, you can [sign up for guest access](#) with an email and password.

File Uploads

A [public Box file](#) has been created for presentation files (e.g., powerpoint files). [Upload your files here](#).

Once uploaded you will not be able to edit or delete your files. If you have any issues, please contact Juana Colon at juanacol@buffalo.edu.

Talks

Talk slots are 15 minutes in length. Please target 12 minutes for speaking and leave 3 minutes for questions.

Posters

At registration you will receive information on where to set up your poster. Please put it up as early as possible on the day that you are presenting, and leave it up as late as possible. There will be two poster sessions; one on each day of the workshop.

Title: Relationships Between Precipitation and Air Temperature with Air Circulation Indices in Nuuk (SW Greenland) from the Late 19th to the Early 21st Century

Authors: Andrzej Arażny^{1,2}; Arkadiusz Bartczak³; Rajmund Przybylak^{1,2}; Przemysław Wyszyński^{1,2}; Johan H. Scheller⁴

Affiliations: ¹ Faculty of Earth Sciences and Spatial Management, Nicolaus Copernicus University in Toruń, Poland; ² Centre for Climate Change Research, Nicolaus Copernicus University in Toruń, Poland; ³ Stanisław Leszczycki Institute of Geography and Spatial Organization, Polish Academy of Sciences, Warsaw, Poland; ⁴ Danish Meteorological Institute, Copenhagen, Denmark

Abstract:

Arctic precipitation plays a key role in driving global climate, ecosystem stability, and the mass balance of glaciers and the Greenland Ice Sheet. The cryosphere is crucial to the evolution of the global climate system. Therefore, this study investigates long-term precipitation changes in southwest Greenland (Nuuk station) and their relationships with air temperature and atmospheric circulation indices, including the North Atlantic Oscillation (NAO) and the Greenland Blocking Index (GBI).

For analysis, several datasets of daily, monthly, seasonal, and annual precipitation totals and mean air temperatures from the Nuuk station were used. Due to data gaps, four climatic subperiods were selected for comparative analysis: (A) 1875–83 and 1886–91 (beginning of precipitation measurements in Nuuk during the Little Ice Age), (B) 1925–27, 1929–32, 1934, and 1936–42 (Early Twentieth-Century Warming), (C) 1970–84 (transition from cooling to contemporary warming), and (D) 2000–14 (recent major warming).

Daily precipitation totals for the earlier periods were digitized from meteorological yearbooks, while later data were obtained from the Danish Meteorological Institute database. Monthly NAO indices from the NSF National Center for Atmospheric Research and GBI indices from NOAA were also used.

Preliminary analyses using statistical methods such as Spearman's rank correlation coefficients reveal strong relationships between precipitation, temperature, and atmospheric circulation patterns in the Arctic.

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