

CGN Meeting: December 10 2025
9-10am PST

[Zoom recording](#)

Passcode: egc8*Q

- Talk by Benoît Lauzon (PhD Candidate at U Ottawa)
 - **Title:** Recurrent surge dynamics and ongoing acceleration at Devon Ice Cap's Southeast basin, Canadian Arctic
 - **Description:** A detailed analysis of Southeast-1 and Southeast-2 glaciers on Devon Ice Cap from 1959 to 2024. With a shared terminus, the glaciers exhibit two distinct dynamic instabilities: an 8–9-year surge in the 1970s–80s that advanced the terminus by up to ~5 km and reached velocities of $\sim 2600 \text{ m a}^{-1}$, and a multiannual acceleration of Southeast-2 Glacier beginning in 2013, suggesting the start of a new surge. This recent acceleration progressed in stepwise increments each summer and propagated up-glacier, leading to dynamic thickening in the lower ~7.5 km in 2020–23 and thinning in the upper trunk (~7.5–17 km from the terminus). Seasonal velocity patterns, crevasse expansion, and modelled runoff suggest a hydro-thermodynamic feedback where meltwater reaches the bed, enhancing motion over time. Southeast-1 Glacier remains stable for now but may destabilise as observed during the earlier surge. The relatively short surge cycle allows the first direct measurement of a quiescent phase (~38–39 years) in this region, highlighting the diversity of dynamic instabilities in the Canadian Arctic
- Group discussion topic: The new federal budget & implications for cryosphere research, strategies and opportunities for funding.
- Discussion notes:
 - NRCan:
 - 15% budget reduction in the coming years across all departments
 - Need to think about motivating research through the lens of how it can be useful for the economy (e.g. the impact of glacier change on mining operations within the golden triangle, BC)
 - PSCP:
 - Decline in PCSP support reduces funding available for student salaries
 - PCSP not mentioned in the federal budget
 - NSERC Create Program (apply as a group);
 - e.g. PermafrostNet

- Specifically for training and student stipends
 - Deadline typically in the Fall
 - Next funding announcement in the Spring
 - Could be something we could do as a network
- Defence spending: DARPA funded glaciological research in the past
 - New bases & infrastructure in the North is a potential way to leverage transportation and equipment in remote northern locations
- NSERC Alliance grants
 - Typically requires an industry or NGO partner that co-funds it
- Other potential sources
 - MITACS
 - CFI Grant
 - ESA and CSA
 - Opportunities for calibration and validation campaigns
 - If you can incorporate these campaigns in your field work, that could be an avenue for funding
- Brainstorm ways to align research with IPY goals?
- How to get MPs to understand the importance of funding field expenses and graduate stipends?
- Concrete ways for the CGN to target funding going forward:
 - There is group interest in applying for the NSERC CREATE Program
 - Look for CERC funding (flagship projects that enhance capacity throughout the community)