

Land Acknowledgement

We would like to begin by acknowledging this land on which the University of Toronto operates, and on which the team coordinating this webinar are working.

For thousands of years, it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit.

Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.

Welcome to the NCDRI Webinar!

Agenda:

- Welcome and introduction
- Phase 1 summary and discussion (Emilia Diaconescu, ECCC/CCCS)
- Phase 2 introduction (Paul Kushner, University of Toronto)
- Health break
- Hands-on exploration of NCDRI website in breakout (Aleksandra Elias Chereque and Alex Cabaj, University of Toronto)
- Return from breakout, wrap-up discussion



NCDRI

Northern

Welcome to

The purpose
change adap

The purpose
climate data

The NCDRI i

Overview of Phase 2 of the Northern Climate Data Report and Inventory (NCDRI)

Paul Kushner¹, Emilia Diaconescu², Aleksandra Elias Chereque¹, Julian Comanean¹, Alex Cabaj¹, Jennifer Lukovich³

1: Department of Physics, University of Toronto

2: Canadian Centre for Climate Services, Environment and Climate Change Canada

3: Formerly CEOS, University of Manitoba, now at Province of Manitoba

Feedback

English (en)

Go

[Search NCDRI report](#)

[Search Historical Observations](#)

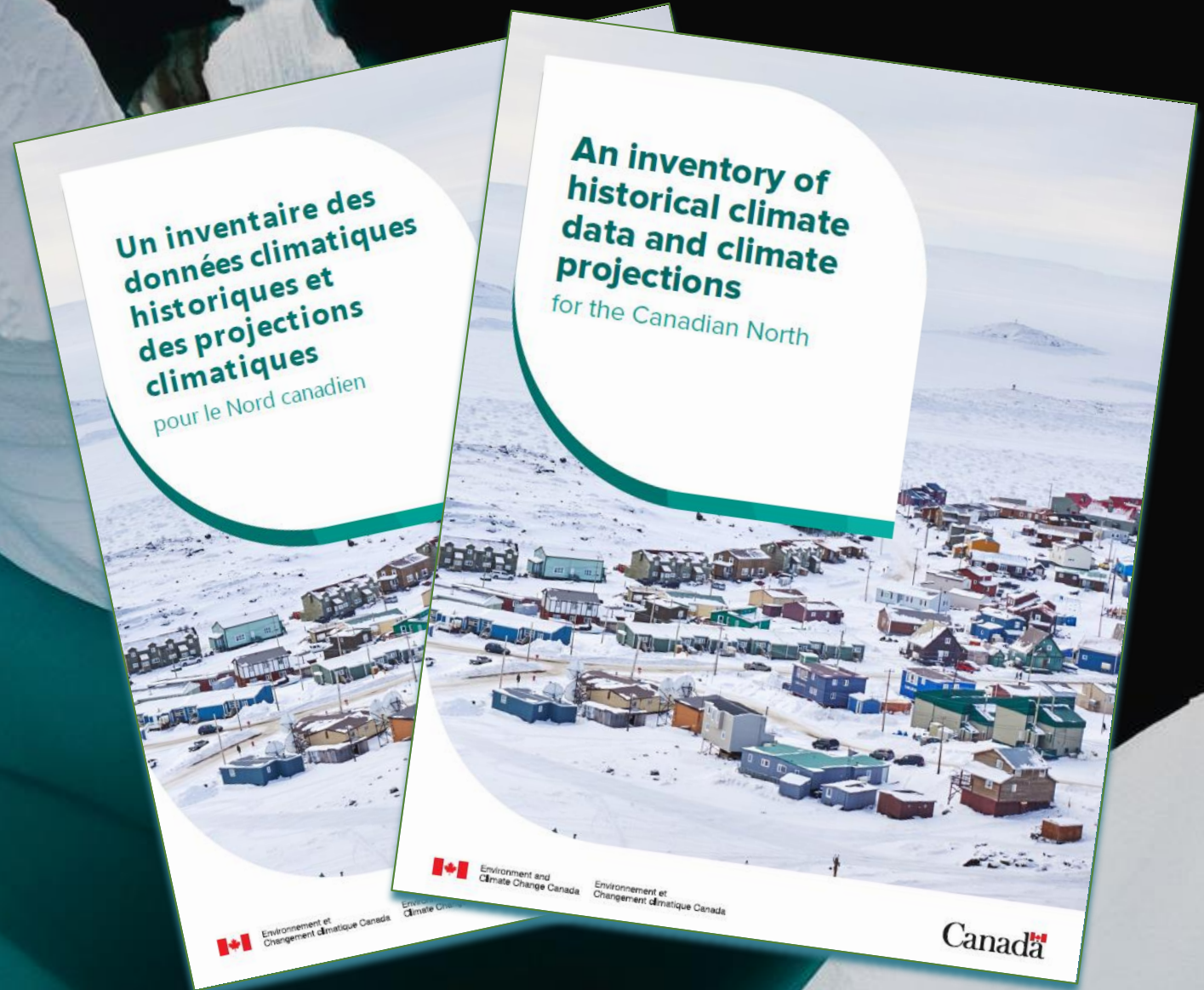
[List of Acronyms](#)

[Team](#)



Phase 1 (Report)

Diaconescu, E.P., P. Kushner,
J. Lukovich, A. Crawford, E.
Barrow, L. Mudryk, M. Braun, R.
Shrestha, S. Gruber, S. Déry, S.
Howell, and L. Matthews, 2022:
*An inventory of historical climate
data and climate projections for
the Canadian North; Government
of Canada, Gatineau, QC*
In prep for public release



The purpose of the Phase 1 report was to:



- “identify, inventory, and characterize existing datasets for future development of products for various local and regional applications related to climate-change adaptation decision-making in the Canadian North”

The purpose of the online NCDRI is to:



- Transform the report into a flexible and searchable database
- facilitate access to, and work in preparing, available northern climate data for decision makers and communities.

Phase 2 activity (July 2022-March 2023)

- Project Lead - Kushner, Project Manager - Lukovitch (until Dec 2022), Website Developer - Comanean, Project Support – Elias-Chereque and Cabaj
- Our tasks:
 - Create website to host content of Phase 1 report (English and French)
 - Extend two sections of Phase 1 report:
 - Addition of new wind datasets with metadata descriptions and applications/guidance material (Lukovitch)
 - Describing remote sensing data related to temperature and precipitation (Elias Chereque)
 - Solicit feedback and publicize effort through engagement
 - Provide report to ECCC/CCCS on project results and feedback

Website

- Goals of website:
 - Make the original content of the Phase 1 report as useful as possible.
 - Expand some of the content beyond Phase 1
 - French side and English side as similar as possible.
- Two types of content:
 1. Phase 1 content, including guidance material and tables, is Crown copyright. This material cannot be changed after the report is released in the coming months.
 2. Phase 2 content – website guidance and new datasets – are copyright NCDRI and can be changed and extended in future.



A quick look at the website ...

Feedback for Phase 2

1. Feedback in September/October 2022 from the Phase 1 Report author team and several others.
 - Led to several changes in the website design and content.
2. Feedback in December 2022/January 2023 from a broader group consisted of
 - Comments on Phase 1 report, which have been compiled to be reported back to CCCS and report authors.
 - Comments on Phase 2 website, which we'll discuss below.
3. Engagement through poster at ArcticNet Science Meeting 2022 and this workshop provide additional opportunities for feedback.

Comments on Phase 2

- “This is a very useful and much-needed product which will be helpful for both students and senior researchers.”
- “This looks amazing! Fantastic work ... the following links are not working for me ...”
- “As a programs/policy adaptation practitioner, I do not find the site user friendly and am not sure if I would pass it along to others for use at this point.”

Comments on Phase 2

- “... represents a useful tool in helping meet Government of Canada commitments related to climate action, the far North and Arctic, open data, and services to Canadians
 - ... interface is user-friendly and intuitive; the graphic design is eye pleasing; and the tutorial video is particularly helpful
 - ... would benefit from a more balanced and consistent approach to the flow of content for each observation described
 - ... value added would increase substantially with the addition of atmospheric gases datasets [and other environmental datasets] and [international] multifaceted digital platforms
 - ... more visibly and concretely identify partners and contributors, as well as include brand recognition such as through company logos. While there is a reference to The Crown, the affiliation to the Government of Canada and contributing organizations is less apparent.”

Comments related to Phase 1

- There were many comments about
 - The selection of datasets (drop some, include more of others).
 - The need to update and provide advisory cautions on applications of the datasets.
 - The need to expand the range of variables considered for northern applications.
 - The technical guidance and expertise, especially for permafrost.
 - The implicit risks of having users combine model projections and historical data without further guidance.
- Many of these were also reflected in the Phase 1 Report's recommendations, which are not on the website.
- These will provide very helpful input into CCCS's future efforts.
- We could also consider a volunteer effort to add additional community commentary to the current website, under the NCDRI copyright.

Conclusion/Next steps

- Please review the website and use the feedback on it to provide comments.
- Phase 2 objectives are met and this phase will conclude at the end of March, 2023
- The website will be easy to maintain and minor corrections are possible (to the non-Crown copyright material) but no major updates are supported at this time.
- We hope this will be a useful technical resource for those getting started in this domain.
- We could consider a volunteer-based, user-maintained effort to expand the website (NCDRI copyright) and provide write access to the database for this purpose. Keep in mind ongoing need for French and English versions.
- Considering a peer-reviewed publication including recommendations from Phase 1 (which are not included on this website) and the Phase 2 experience.

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- We could explore a volunteer-based, user-maintained effort to expand the website (under a Creative Commons BY-NC-SA license) and provide write access to the database for this effort. Keep in mind ongoing need for French and English versions.
- We are considering a peer-reviewed publication including recommendations from Phase 1 (which are not included on this website) and the Phase 2 experience.

After a quick break, let's take a hands-on look at the website.