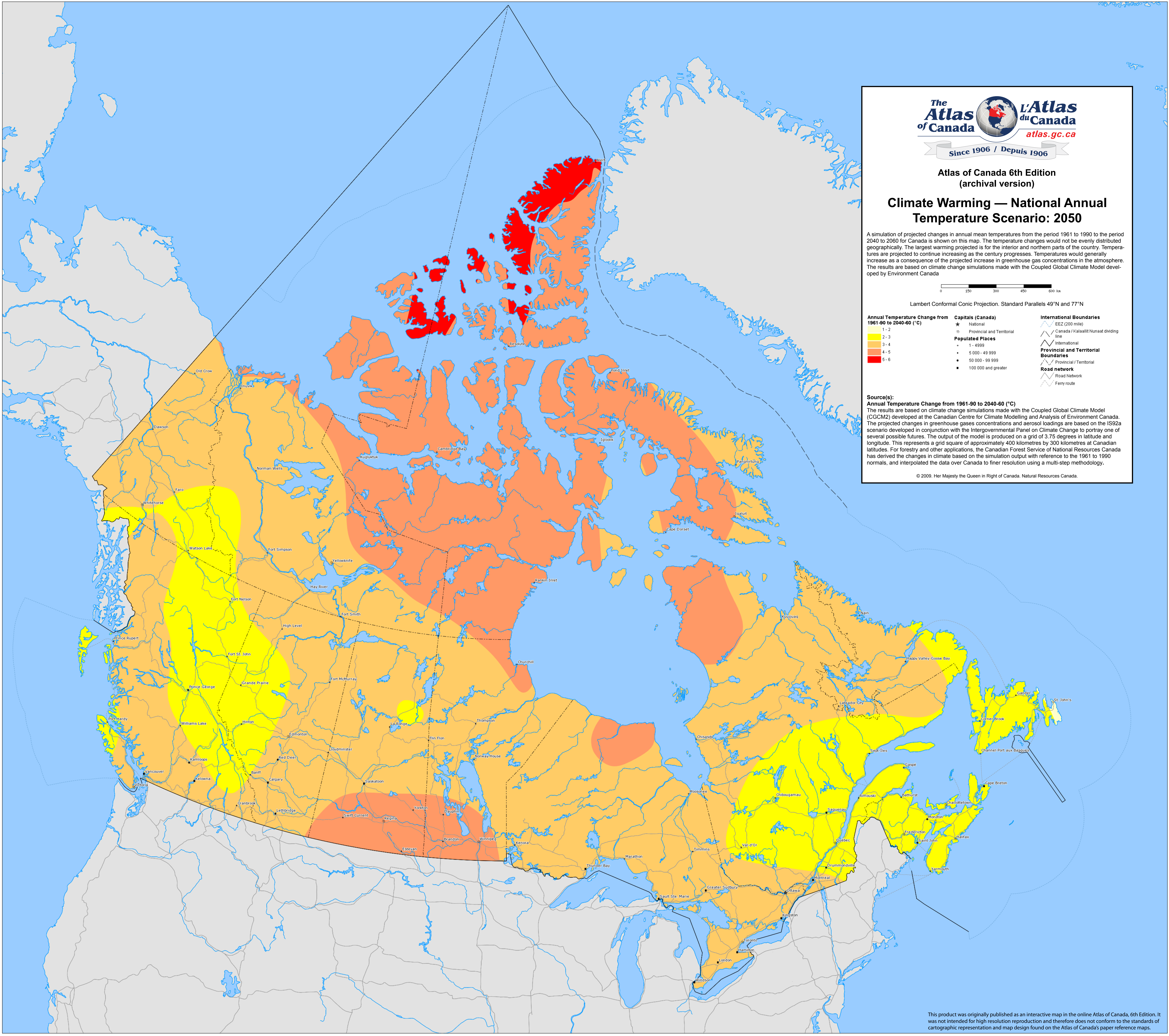


Appendix I

Permafrost Map

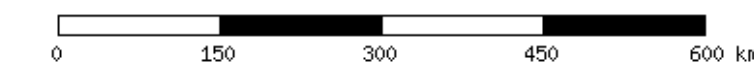
Meliadine Interim Closure and Reclamation Plan - Update 2020		Original -V.03
2021/04/07	674942-4000-4EER-0002	Technical Report



Atlas of Canada 6th Edition
(archival version)

Climate Warming — National Annual
Temperature Scenario: 2050

A simulation of projected changes in annual mean temperatures from the period 1961 to 1990 to the period 2040 to 2060 for Canada is shown on this map. The temperature changes would not be evenly distributed geographically. The largest warming projected is for the interior and northern parts of the country. Temperatures are projected to continue increasing as the century progresses. Temperatures would generally increase as a consequence of the projected increase in greenhouse gas concentrations in the atmosphere. The results are based on climate change simulations made with the Coupled Global Climate Model developed by Environment Canada.



Lambert Conformal Conic Projection. Standard Parallels 49°N and 77°N

- | | | |
|---|------------------------------|---|
| Annual Temperature Change from 1961-90 to 2040-60 (°C) | Capitals (Canada) | International Boundaries |
| 1-2 | ★ National | --- EEZ (200 miles) |
| 2-3 | ○ Provincial and Territorial | --- Canada / Kalaallit Nunaat dividing line |
| 3-4 | ● Populated Places | --- International |
| 4-5 | • 1-49 999 | --- Provincial / Territorial |
| 5-6 | • 50 000-49 999 | --- Road network |
| | • 50 000-99 999 | --- Ferry route |
| | • 100 000 and greater | |

Source(s):
Annual Temperature Change from 1961-90 to 2040-60 (°C)
The results are based on climate change simulations made with the Coupled Global Climate Model (CGCM2) developed at the Canadian Centre for Climate Modelling and Analysis of Environment Canada. The projected changes in greenhouse gases concentrations and aerosol loadings are based on the IS92a scenario developed in conjunction with the Intergovernmental Panel on Climate Change to portray one of several possible futures. The output of the model is produced on a grid of 3.75 degrees in latitude and longitude. This represents a grid square of approximately 400 kilometres by 300 kilometres at Canadian latitudes. For forestry and other applications, the Canadian Forest Service of Natural Resources Canada has derived the changes in climate from the simulation output with reference to the 1961 to 1990 normals, and interpolated the data over Canada to finer resolution using a multi-step methodology.

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