

Schefferville Permafrost Temperature Database, Version 1

USER GUIDE

How to Cite These Data

As a condition of using these data, you must include a citation:

2003. *Schefferville Permafrost Temperature Database, Version 1*. [Indicate subset used]. [Date Accessed].

FOR QUESTIONS ABOUT THESE DATA, CONTACT NSIDC@NSIDC.ORG

FOR CURRENT INFORMATION, VISIT <https://nsidc.org/data/GGD605>



National Snow and Ice Data Center

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1 DATA DESCRIPTION

This data set consists of ground temperature data from 192 boreholes in the area of Schefferville, Quebec (54°48'N, 66°50'W), located within the discontinuous permafrost zone. Temperature cables were installed at the Barney, Fleming, Knox mine, Timmins, Ferriman, Howse, Lance, Pinx, Red and Star ore deposits. Borehole depths ranged from 4 to 137 m, with the majority of boreholes being between 25 and 125 m deep. Data are provided for the period between 1957 to 1982. The length of record varies from only one temperature record to records greater than 10 years in length, with the longest record being 16 years long. The data are provided in both an MS Access database and tab-delimited ASCII formats. The database consists of two tables: one which contains information for individual boreholes, such as location and length of record, and a second table that contains the ground temperature data for all boreholes. The two tables are linked by a unique borehole site number. Data are available via ftp.

1.1 Parameters

This data set consists of ground temperature data from boreholes within a discontinuous permafrost zone.

1.2 File Information

1.2.1 Format

The data are provided in both MS Access database and tab-delimited ASCII formats. The database consists of two tables: one which contains information for individual boreholes, such as location and length of record, and a second table that contains the ground temperature data for all boreholes. The two tables are linked by a unique borehole site number.

1.2.2 File Contents

The ASCII files range in size from 16 KB to 1.6 MB. The MSAccess database is 4.6 MB.

File headers in the first MS Access database table, and in the file "location.txt", include:

ID - Borehole site number (unique identifier)

Location - Ore deposit or mine that the borehole is associated with

Descriptive Name - Descriptive local name for the borehole site

IOCC Ref - The IOCC designation for the borehole site

Easting - Easting UTM coordinate (m) of borehole location based on NAD27 datum

Northing - Northing UTM coordinate (m) of borehole location based on NAD27 datum

Zone - UTM zone in which the borehole is located

Elev - Elevation (m) above sea level of the borehole

Number of Records - The number of observations recorded for the borehole

Start Date - The date of the first record in the observation period (mm/dd/yy in ASCII file)

End Date - The date of the last record in the observation period

Max Depth - The depth of the deepest temperature sensor

File headers in the second MS Access database table, and in the file "temp_table.txt", include:

BH - Borehole site number (unique identifier)

Date - Date of the observation (mm/dd/yy in ASCII file)

Depth - Depth of the observation (cm)

Temp - Ground temperature (°C)

1.2.3 Naming Convention

The MS Access database file is named `ggd605_scheff_data.mdb`. The tab-delimited ASCII files are named `ggd605_scheff_location.txt` and `ggd605_scheff_temp.txt`.

1.3 Spatial Information

1.3.1 Coverage

Data were collected at 192 boreholes in the Schefferville, Quebec, area (54°48'N, 66°50'W).

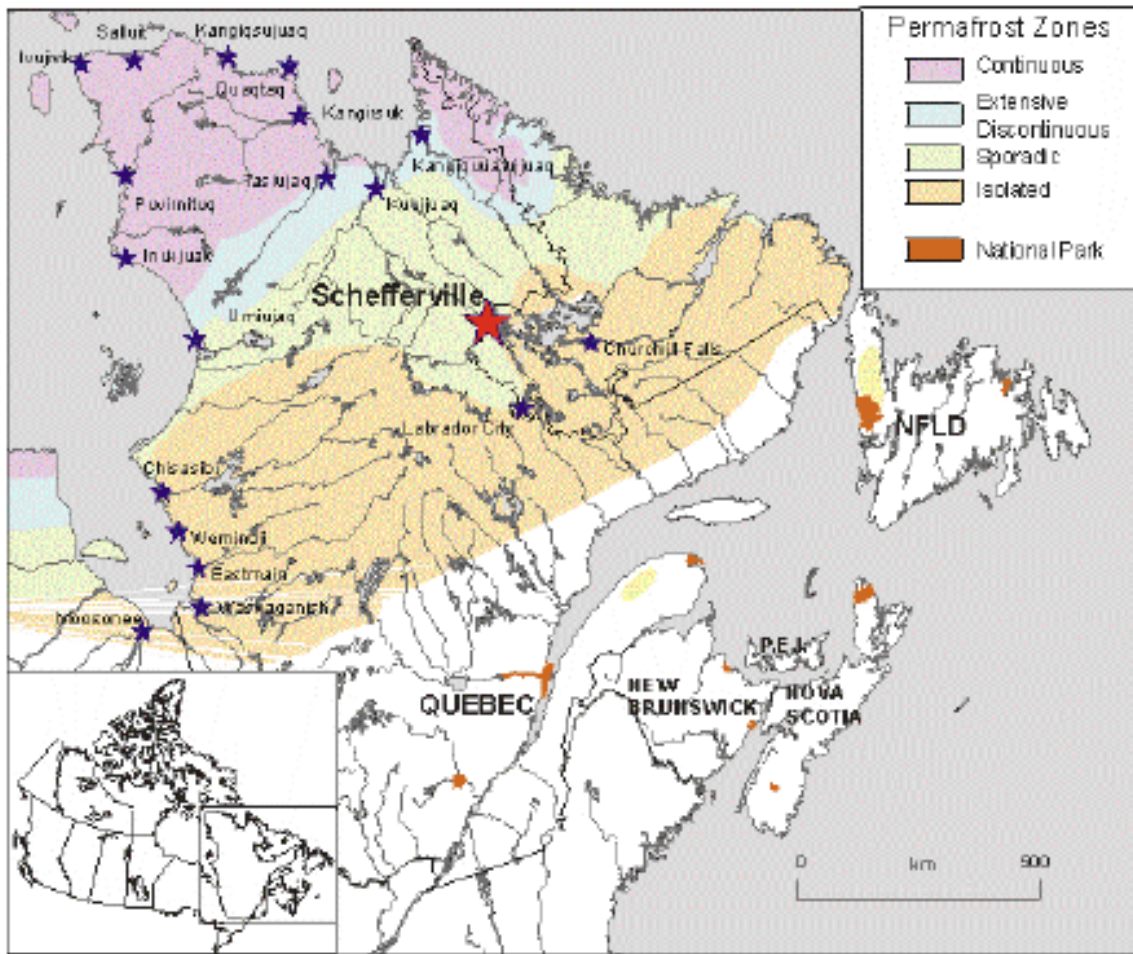


Figure 1. Spatial Coverage Map

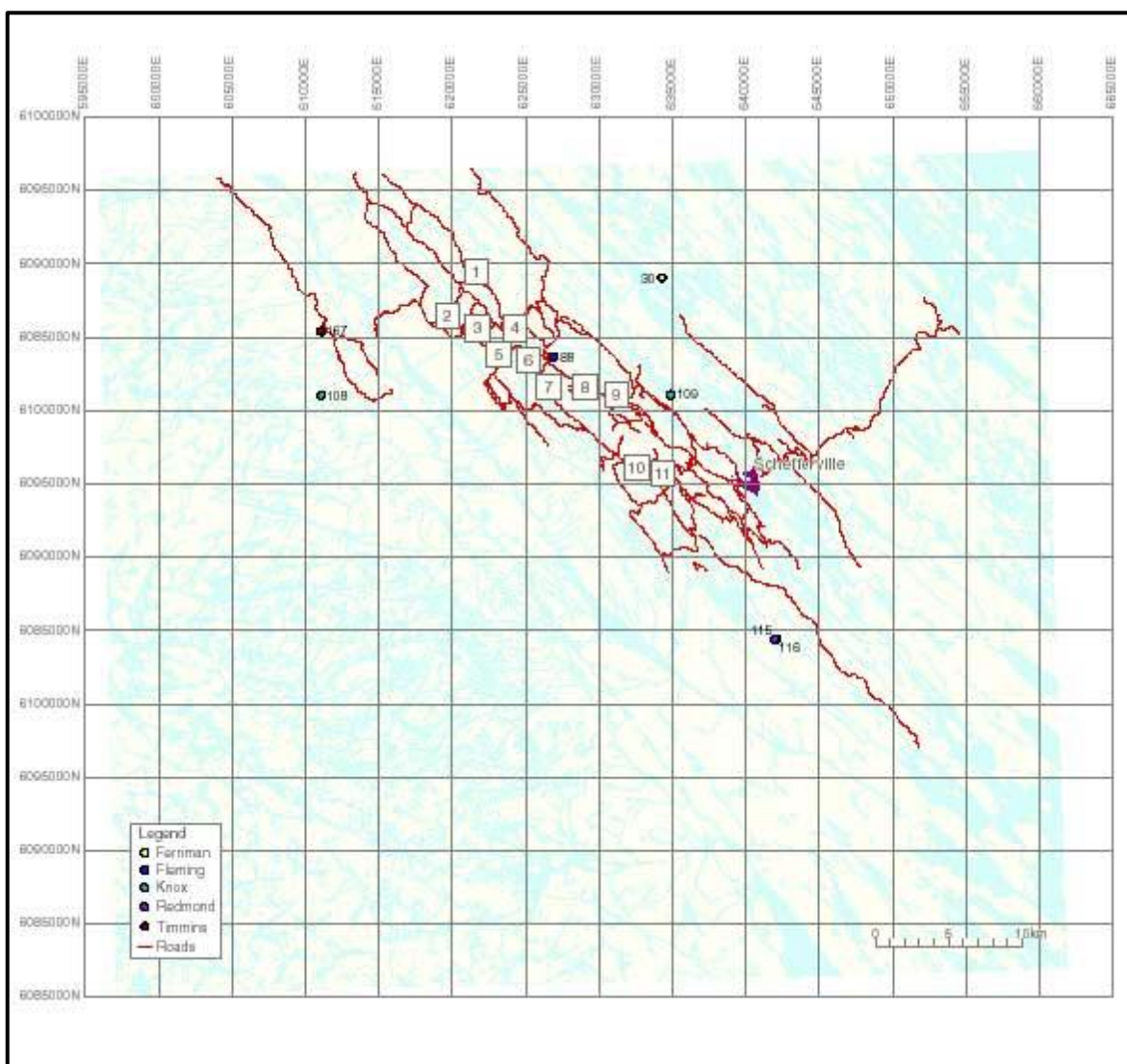


Figure 2. Schefferville Borehole Locations

1.4 Temporal Information

1.4.1 Coverage

Data were collected between 1957 and 1982.

2 CONTACTS AND ACKNOWLEDGMENTS

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3 DOCUMENT INFORMATION

3.1 Publication Date

24 February 2003

3.2 Date Last Updated

04 February 2021