January 23, 2015
The following data set is provided for academic purposes only. Any publications using this data set must reference (1) this data archive and/or (2) any of the publications listed below. This data set is not to be used for commercial purposes.

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General comments
1. This data set was acquired to during the following PhD research program. The core of this data archive is 3D image files. These files can be opened using Matlab or an open source software (Meshlab).

2. Each text file contains a measurement along the X, Y, and Z-axis. These measurements are in mm. A light intensity measurement is included. This measurement is 8bit with 256 values.

3. For each image, the laser scanner was geo-referenced (strike, dip). This will allow the user to geo-reference the data. The geo-referencing data is available below.

Data Information
Name: Ivy Lea data set
Date: May 18, 2007
Description: Above ground road cut at Ivy Lea, Ontario
Associated publications: #1, #3
Data:
- 6 files entitled IvyLea_003 to IvyLea_008
- 1 photo (IvyLea_Rockface.jpg) of rock face

Orientation of laser scanner/Georeferencing information
IvyLea_003 Top Centre strike=195, dip=-10
IvyLea_004 Top Right strike=215, dip=-10
IvyLea_005 Top Left strike=175, dip=-10

Name: Sudbury data set
Date: August 31, 2007
Description: Underground at Vale mine, Sudbury Ontario
Associated publications: #1, #2, publication pending.
Data:
- 6 files of Site 1: Sudbury1_006-011
- 6 files of Site 2: Sudbury2_012-017
  Sudbury2 can be merged with Sudbury1, both sets taken from single location
- 2 files of Site 3: Sudbury3_030-031
Orientation of laser scanner/Georeferencing information

Sudbury1_006 strike=174, dip=0
Sudbury1_007 strike=146, dip=0
Sudbury1_008 strike=146, dip=18
Sudbury1_009 strike=167, dip=18
Sudbury1_010 strike=187, dip=18
Sudbury1_011 strike=187, dip=0

Sudbury2_012 strike=127, dip=0
Sudbury2_013 strike=108, dip=0
Sudbury2_014 strike=108, dip=18
Sudbury2_015 strike=126, dip=18
Sudbury2_016 strike=128, dip=39
Sudbury2_017 strike=109, dip=39

Sudbury3_030 strike=068, dip=0
Sudbury3_031 strike=068, dip=0

Name: Thompson data set
Date: December 10-12, 2009
Description: Underground at Vale mine, Thompson Manitoba
Associated publications: #1, #2.
Data:
- 14 files of Site 1: Thompson1_001-0014
  Laser scanner moved along drift
- 7 files of Site 2: Thompson2_001-007
  Laser scanner moved along drift

Orientation of laser scanner/Georeferencing information

Thompson1_001 strike=322,
Thompson1_002 strike=322, dip=-09
Thompson1_003 strike=314, dip=-11
Thompson1_004 strike=314,
Thompson1_005 strike=324, dip=-01
Thompson1_006 strike=324,
Thompson1_007 strike=324, dip=-12
Thompson1_008 strike=324,
Thompson1_009 strike=329, dip=04
Thompson1_010 strike=329, dip=-11
Thompson1_011 strike=337, dip=-10
Publications

