Bare Earth LiDAR Metadata

Tags

LiDAR, Bare Earth, County of Grande Prairie

Summary

Horizontal Datum: Nad83 CSRS
Vertical Datum: CGVD28
Geoid Model: HT2.0
UTM Zone: 11
Projected Coordinate System: UTM 11 NAD 83

Calibration Methodology: Airborne Imaging performs a complete calibration on every LiDAR acquisition flight, data is acquired over a calibration site flown with at least two passes in opposite directions before and after the flight. Any error in the attitude of the aircraft (roll, pitch and heading) can be observed and corrected for within system specifications. To statistically quantify the accuracy, we compare the LiDAR elevations with independently surveyed ground points. A GPS mounted truck collects data while driving on an open road. The kinematic positions on the road are post-processed from a nearby base station (common to the aerial survey)

Horizontal Accuracy (95%): 35cm
Fundamental Vertical Accuracy on flat hard surfaces (95%): 20cm
Point density varies between 1.3 pts/m2 and 5 pts/m2 based on collection mission. To find which mission this data is in, visit our open data portal at data.countygp.ab.ca and download the dataset called "2014 LiDAR footprint".

Description

This folder contains one .las file, and one data license. The LiDAR survey was conducted by Airborne Imaging at the request of the County of Grande Prairie in May 2013 and May 2014. The las point cloud has been processed by the County of Grande Prairie. The las file only contains points which have the classification of bare earth. This is available for the convenience of the user.

Credits

County of Grande Prairie

Use limitations

For full details on how this product is to be used, reverence the enclosed licence file named: "Open Data Licence.pdf". Or find the current version on the website at: http://data.countygp.ab.ca

Datasets are for informational purposes and may not have been created for or be appropriate for engineering, surveying or site specific purposes. You are required to determine from the primary dataset the applicability of the dataset.

Scale Range

Maximum (zoomed in)	1:5,000
Minimum (zoomed out)	1:500,000