

Canterbury - Banks Peninsula LiDAR 1m DSM (2018-2019)

Metadata

File Identifier

cd8eefeb-b30c-d5f7-8cfe-944e242126cc

Language

eng

Character Set

Character Set Code

utf8

Hierarchy Level

Scope Code

dataset

Hierarchy Level Name

dataset

Contact

Responsible Party

Organisation Name

LINZ - Land Information New Zealand

Position Name

Lidar Coordination Manager

Contact Info

Contact

Phone

Telephone

Voice

04 4600110

Address

Address

Delivery Point

155 The Terrace

City

Wellington

Postal Code

6145

Country

New Zealand

Electronic Mail Address

info@linz.govt.nz

Role

Role Code

pointOfContact

Date Stamp

Date

2020-12-10

Metadata Standard Name

ANZLIC Metadata Profile: An Australian/New Zealand Profile of AS/NZS ISO 19115:2005, Geographic information - Metadata

Metadata Standard Version

1.1

Reference System Info

Reference System

Reference System Identifier

Identifier

Code

2193

Identification Info

Data Identification

Citation

Citation

Title

Canterbury - Banks Peninsula LiDAR 1m DSM (2018-2019)

Date

Abstract

This layer contains the DSM for LiDAR data for Banks Peninsula captured between 2018 and 2019. - The DEM is available as layer [Canterbury - Banks Peninsula LiDAR 1m DEM (2018-2019)] (<https://data.linz.govt.nz/layer/105027>). - The index tiles are available as layer [Canterbury - Banks Peninsula LiDAR 1m Index Tiles (2018-2019)](<https://data.linz.govt.nz/layer/105033>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<https://portal.opentopography.org/datasets?loc=New%20Zealand>). LiDAR was captured for Environment Canterbury Regional Council by Aerial Surveys between July 2018 and February 2019. These datasets were generated by Aerial Surveys and their subcontractors. Data management and distribution is by Land Information New Zealand. Data comprises: - DEM: tif or asc tiles in NZTM2000 projection, tiled into a 1:1,000 tile layout - DSM: tif or asc tiles in NZTM2000 projection, tiled into a 1:1,000 tile layout - Point cloud: las tiles in NZTM2000 projection, tiled into a 1:1,000 tile layout Pulse density specification is at a minimum of 2 pulses/square metre. Vertical datum is NZVD2016

Status

Progress Code

completed

Point Of Contact

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Role

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pointOfContact

Resource Maintenance

Maintenance Information
Maintenance And Update Frequency
Maintenance Frequency Code
notPlanned

Resource Format
Format
Name
*.xml
Version
Unknown

Descriptive Keywords
Keywords
Keyword
New Zealand
Type
Keyword Type Code
theme

Thesaurus Name
Citation
Title
ANZLIC Jurisdictions
Date
Edition
Version 2.1
Edition Date
Date
2008-10-29
Identifier
Identifier
Code
<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-jurisdic.xml#anzlic-jurisdic>
Cited Responsible Party
Responsible Party
Organisation Name
ANZLIC the Spatial Information Council
Role
Role Code
custodian

Resource Constraints
Security Constraints
Classification
Classification Code
unclassified

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<https://www.linz.govt.nz/data/licensing-and-using-data/attributing-elevation-or-aerial-imagery-data>

Use Constraints
Restriction Code
license

Spatial Representation Type Code
grid

Representative Fraction
Denominator
Integer
1000

Language
eng

Character Set
Character Set Code
utf8

Topic Category Code
elevation

Extent

EX _ Extent

Geographic Element

EX _ Geographic Description

Identifier

Authority

Citation

Title

ANZMet Lite Country codelist

Date

Edition

Version 1.0

Edition Date

Date

2009-03-31

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-country.xml#Country>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Code

nzl

Extent

EX _ Extent

Geographic Element

EX _ Geographic Bounding Box

172.553308739173.137194223-43.9096495848-43.598345117

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/105032-canterbury-banks-peninsula-lidar-1m-dsm-2018-2019/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Data Acquisition: Airborne Laser Scanner (ALS) data was acquired from a fixed wing aircraft on: 18, 19, 20 July, 12, 14 August, 11 November, 17 December 2018, 30 January, 2, 8, 9, 10 February 2019, using Aerial Surveys Optech Orion H300 + Optech Prime Galaxy LiDAR systems. Please refer to survey reports for survey specifications. Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Base Station Positions: PPRTX virtual base station service. The POS data was combined with the LiDAR range files and used to generate LiDAR point clouds in NZTM and ellipsoidal heights. This process was undertaken using Optech LMS LiDAR processing software. The data was checked for completeness of coverage. The relative fit of data in the overlap between strips was also checked. The height accuracy of the ground classified LiDAR points was checked using open land-cover survey check site data collected by Sounds Surveying Ltd. This was done by calculating height differences statistics between a TIN of the LiDAR ground points and the checkpoints. The standard deviation statistic is 0.028 m; a RMS of 0.028 m and the average difference is 0.004 m. LiDAR is relative to the control check points. The positional accuracy of the LiDAR data has been checked by overlaying Sounds Surveying Ltd surveyed data over the LiDAR data displayed coded by intensity. The data was found to fit well in position. The point cloud data was then classified with TerraSolid LiDAR processing software into ground and above ground returns using automated routines tailored to the project landcover and terrain. All product deliverables supplied in terms of NZTM map projection and NZVD2016 vertical datum. Classification of the point cloud followed the classification scheme below: 1 - Unclassified 2 - Ground 7 - Noise 9 - Water 12 - Overlap Above_Ground (14) points was reclassified by LINZ as Unassigned classification (1) before providing the classified point cloud data to Open Topography. Waterbodies were hydroflattened in the Bare Earth Digital Elevation Model. The deliverables to LINZ were: 1m gridded bare earth digital elevation model (DEM) 1m gridded digital surface model (DSM) Classified point cloud

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