

Canterbury - Hawarden LiDAR 1m DSM (2015)

Metadata

File Identifier

56bf73d2-a98a-9f60-d87e-34e2688383e1

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

2017-03-21

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 - Hawarden LiDAR 1m DSM (2015)

Date

Date

Abstract

This layer contains the DSM for LiDAR data from the Hawarden area captured in 2015. The DEM is available as layer [Canterbury - Hawarden LiDAR 1m DEM (2015)] (<http://data.linz.govt.nz/layer/3550>). The index tiles are available as layer [Canterbury - Hawarden LiDAR Index Tiles (2015)](<http://data.linz.govt.nz/layer/3584>). 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 on 1 April 2015, under survey name Hurunui. The datasets were generated by Aerial Surveys and their subcontractors. The survey area includes the Hawarden township area. 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 Planned pulse density is 1.3 pulses/square metre. Vertical accuracy specification is per the ICSM LiDAR Acquisition Specifications and Tender Template NZ Version March 2011. Vertical datum is NZVD2016.

Status

Progress Code

completed

Point Of Contact

Responsible Party

Organisation Name

LINZ - Land Information New Zealand

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Lidar Coordination Manager

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Role

Role Code

pointOfContact

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

Descriptive Keywords

Keywords

Keyword

LAND-Topography

Keyword

LAND-Cover

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Search Words

Date

Edition

Version 2.1

Edition Date

Date

2008-05-16

Identifier

Identifier

Code

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

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Resource Constraints

Security Constraints

Classification

Classification Code

unclassified

Resource Constraints

Legal Constraints

Use Limitation

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Restriction Code
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Spatial Representation Type Code
grid

Representative Fraction
Denominator
Integer
1000

Language
eng

Character Set
Character Set Code
utf8

Topic Category Code
elevation

Topic Category Code
imageryBaseMapsEarthCover

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

172.623532847172.735350633-42.975758899-42.8782383064

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/53551-canterbury-hawarden-lidar-1m-dsm-2015/>

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 1 April 2015, using Aerial Surveys' Optech Orion H300 LiDAR system. Survey Specification: □ Scanner: Optech Orion H300 □ Flying height: 1200m AMGL □ Scan Angle: +/- 20 degrees □ Scan Frequency: 34Hz □ Pulse Rate 75kHz □ Swath Overlap: 30% □ Points Per Sqm: 1.3 Data processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSMMS software. This work was all undertaken in NZGD2000 coordinate system using the data collected from the following basestations: Project: Ecan Hawarden Date of Capture: 1/4/15 Base Station Type/Owner: Global Surveys Bench Mark: GSAM Base Station Position: 43 09 06.47086 S 172 43 45.04334 E 66.747 Ell Height Ant Height : 0.00 Phase Center Output LAS Projection: TM2000 Height: WGS84 Ellipsoid Validation was carried out using the guidelines contained in the ICSM specification template as required for this program. Vertical Accuracy Validation: The height accuracy of the LiDAR points was checked using check points collected during the ground control survey Horizontal Accuracy Validation 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. All product deliverables were initially supplied in terms of NZTM and Lyttelton 1937 height datum. Classification of the point cloud followed the classification scheme below: 0 - Created, never classified 2 - Ground 12 - Flight line overlap points 14 - Above_Ground Re-processing: In 2016 the data was reprocessed by Aerial Surveys for LINZ relative to the NZVD2016 vertical datum, and supplied as 1:1000 nominal scale (2500 720m high x 480m wide subtiles per full NZ Topo50 sheet). Lakes and rivers 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 Data hosted by OpenTopography was re-classified: the Above_Ground (14) points were reclassified as Unassigned classification (1)

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