

Canterbury - Mackenzie LiDAR Index Tiles (2015)

Metadata

File Identifier

67C0BFF0-126D-4A53-B90D-CDC884337B71

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

2019-05-14

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 - Mackenzie LiDAR Index Tiles (2015)

Date**Abstract**

This layer contains the Index Tiles for LiDAR data from the Mackenzie Region, Canterbury captured in 2015. - The DEM is available as layer [Canterbury - Mackenzie LiDAR 1m DEM (2015)] (<https://data.linz.govt.nz/layer/98769-canterbury-mackenzie-lidar-1m-dem-2015/>). - The DSM is available as layer [Canterbury - Mackenzie LiDAR 1m DSM (2015)] (<https://data.linz.govt.nz/layer/99122-canterbury-mackenzie-lidar-1m-dsm-2015/>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<http://opentopo.sdsc.edu/datasets>). Lidar was captured for Genesis Energy Limited by Aerial Surveys Limited in Feb 2015. The original dataset was generated by Aerial Surveys and their subcontractors. This reprocessed dataset was supplied by Aerial Surveys to Land Information New Zealand, and includes a large area (peripheral data from the original survey). The survey area is in the Mackenzie District of Canterbury, between Lake Tekapo, Lake Pukaki, Lake Ohau and Lake Ruataniwha. This area also includes Twizel Township. 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 1 pulse/square metre. Vertical datum is NZVD2016.

Status**Progress Code**

completed

Point Of 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

Australia

Electronic Mail Address

info@linz.govt.nz

Role

Role Code
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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Use Constraints

Restriction Code

license

Spatial Representation Type Code

vector

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

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: 10 & 11 February 2015, using Aerial Surveys Optech Orion H300 LiDAR system. Survey Specification: • Scanner: Optech Orion H300 • Flying Height: 1500m AMGL • Scan Angle: ±20 degrees • Scan Frequency: 30.7Hz • Pulse Rate: 75kHz • Swath Overlap: 35% • Points Per M2: 1 Data processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSpac software. Benchmark: PUKAKI Base Station Positions: 44 14 07.433570 S 170 07 00.766050 E 483.949 Ell Height Antenna Height: For 10th 1.401M for 11th 1.485M phase center 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 0.038m; a RMS of 0.045m and the average difference is 0.022m. 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 height datum. Classification of the point cloud followed the classification scheme below: 2 - Ground 14 - Above Ground Re-processing: In 2018 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 large 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 Reprocessed Classified Point Cloud Data was reclassified by LINZ and is hosted by Open Topography: the Above_Ground (14) points were reclassified as Unassigned classification (1).

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