

Marlborough LiDAR 1m DEM (2018)

Metadata

File Identifier

E0CF9739-9B4A-41C8-9F66-F051CAF02DA2

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**

2019-11-07

Metadata Standard NameANZLIC 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**

Marlborough LiDAR 1m DEM (2018)

Date**Abstract**

This layer contains the DEM for LiDAR data in the Marlborough Region covering the Flaxbourne River, Lake Grassmere, Seddon, Lower Awatere Valley, Picton, Waikawa, the Wairau Valley and Plains, including Spring Creek, Tuamarina and parts of Blenheim in 2018. - The DSM is available as layer [Marlborough LiDAR 1m DSM (2018)](<https://data.linz.govt.nz/layer/103537>). - The index tiles are available as layer [Marlborough LiDAR Index Tiles (2018)](<https://data.linz.govt.nz/layer/103538>). - The LAS point cloud and vendor project reports are available from [OpenTopography](<http://opentopo.sdsc.edu/datasets>). LiDAR was captured for Marlborough District Council by Aerial Surveys between May and September 2018. The 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 is 3.5 pulses/square metre. Vertical accuracy specification is +/- 0.2m (95%). Horizontal

accuracy specification is +/- 1.0m (95%) Vertical datum is NZVD2016.

Status

Progress Code

completed

Point Of Contact

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Organisation Name

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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

Resource Constraints

Legal Constraints

Use Limitation

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Restriction Code
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Resource Constraints

Legal Constraints

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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

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Survey Specification: -Device Name: Optech Orion H300 -Half Scan Angle: 30 degrees -Laser Pulse Rate: 250 kHz -Laser Pulse Mode: Multi Pulse -Laser return: 1st, 2nd, 3rd and last -Laser Intensity: All Returns -File Format: ESRI ASCII Grid, LAS 1.2, ESRI Shapefile -Horizontal Datum: NZGD2000 -Vertical Datum: NZVD2016 -Map Projection: NZTM2000 -Vertical Accuracy Specification: ±0.2m Standard Error (68% confidence level or 1 sigma) - Horizontal Accuracy Specification: ±1.0m Standard Error (68% confidence level or 1 sigma) Airbourne Laser Scanner (ALS) data was acquired from a fixed wing aircraft between 26th May to 12th September 2018 using AAM New Zealand's Optech Orion H300 LiDAR system. This area includes the

Marlborough Region covering the Flaxbourne River, Lake Grassmere, Seddon, Lower Awatere Valley, Picton, Waikawa, the Wairau Valley and Plains, including Spring Creek, Tuamarina and parts of Blenheim in 2018. Classification of the point cloud followed the classification scheme below; 1 - Default 2 - Ground 9 - Water Data Validation: Ground data in this volume has been compared to 724 test points obtained by field survey and assumed to be error-free. The test points were distributed across the mapping area and located on clear open ground. The mean difference has been removed from the data. Data classification has been manually checked and edited against any available imagery. Limitations of Data: The definition of the ground under trees may be less accurate. Ground Support: GPS base station support was sourced from GeoNET CORS. The field survey of check sites completed by Sound Surveying Ltd allowed an assessment of the accuracy of the ALS data. Sounds Surveying observed several of the LINZ geodetic marks near the check site locations. Irregular shifts were observed at some sites, and we note that LINZ downgraded the order on many of the points in this area on 1 August 2018. As a result, the field survey of Test Points in the Cape Campbell area was computed relative to Cape Campbell No 2 CORS site (CMBL, coordinates as authorized on 14 Jan 2018), no adjustment was made relative to the local geodetic marks. Data Processing: Reduction of the ALS data proceeded without any significant problems. Laser strikes were classified into ground and non-ground points using a single algorithm across the project area. Manual checking and editing of the data classification further improved the quality of the terrain model. Ground and water classes have been classified to ICSM Level 2. ArcGIS 10.1 Terrain Grids were derived using the Natural Neighbour interpolation. This method uses the closest triangles and applies weights to the proportionate areas from the grid cell centroid to interpolate the value. It uses known elevation data, it does not make any predictions regarding the surface and accurately depicts existing troughs and peaks in the data and supports irregular point spacing, which suits the nature LiDAR data. Breaklines have been used where required to ensure hydro flattening on the DEM products. Lakes and large rivers were hydroflattened in the Bare Earth Digital Elevation Model.

Metadata Constraints

Legal Constraints

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Restriction Code

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