

Tasman - Richmond and Motueka LiDAR 1m DEM (2015)

Metadata

File Identifier

14139CF7-BE72-4486-ACF8-5479B11A21B0

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**

2018-12-13

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**

Tasman - Richmond and Motueka LiDAR 1m DEM (2015)

Date**Abstract**

This layer contains the DEM for LiDAR data of coastal areas from Motueka in the North to Richmond in the South, including inland Wakefield captured in 2015. - The DSM is available as layer [Tasman - Richmond and Motueka LiDAR 1m DSM (2015)](<http://data.linz.govt.nz/layer/95630-tasman-richmond-and-motueka-lidar-1m-dsm-2015/>). - The index tiles are available as layer [Tasman - Richmond and Motueka LiDAR Index Tiles (2015)](<https://data.linz.govt.nz/layer/95631-tasman-richmond-and-motueka-lidar-index-tiles-2015/>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<http://opentopo.sdsc.edu/datasets>). Lidar was captured for Tasman District Council by AAM New Zealand in November 2015. The datasets were generated by AAM New Zealand 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 2
pulses/square metre. Vertical accuracy specification is +/- 0.12m (95%). Horizontal
accuracy specification is +/- 1.00m (95%). 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

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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

Resource Constraints

Legal Constraints

Use Limitation

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Use Constraints

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: ALS60 -Half Scan Angle: 20 degrees - Laser Pulse Rate: 147 kHz -Laser Scan Frequency: 66Hz -Overlap Percentage: 20% -Laser Pulse Mode: Single Pulse -Average Point Spacing: 2.0 pts/m2 -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: ±0.06m Standard Error (68% confidence level or 1 sigma) -Horizontal Accuracy Specification: ±0.50m Standard Error (68% confidence level or 1 sigma) Airbourne Laser Scanner (ALS) data was

acquired from a fixed wing aircraft between 13th and 14th November 2015 using AAM New Zealand's Leica ALS60 LiDAR systems. This area included coastal areas from Richmond in the South, including inland Wakefield to Motueka in the North. Classification of the point cloud followed the classification scheme below; 1 - Default 2 - Ground 3 - Low Vegetation 4 - Medium Vegetation 5 - High Vegetation 9 - Water Data Validation: Ground data in this volume has been compared to 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. Data classification from the original project has been retained. Limitations of Data: The definition of the ground under trees may be less accurate. Ground Support GPS base station support was sourced from Global Surveys CORS operating in the area. The ground check points were field surveyed by Sounds Surveying Ltd. Sounds Surveying has recomputed heights in terms of NZVD2016 for this project. This allowed an independent assessment of the accuracy of the ALS data – and confirmation of the shift to NZVD2016. Data Processing: The starting point for processing was the Classified point clouds produced for Tasman DC and Nelson CC based on NZGeoid09. This data has been reverted to ellipsoidal heights, then NZGeoid2016 has been applied to convert the data to orthometric heights. The data was then compared to NZVD2016 test points, and the appropriate final Z shift applied to each block. 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. Lakes and large rivers were hydroflattened in the Bare Earth Digital Elevation Model.

Metadata Constraints

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