

Tasman - Golden Bay LiDAR 1m DEM (2017)

Metadata

File Identifier

38AF7D42-1931-4040-ADF1-86EC27781ADD

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**

2018-12-06

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**

Tasman - Golden Bay LiDAR 1m DEM (2017)

Date**Abstract**

This layer contains the DEM for LiDAR data from Golden Bay - Aorere Extension, Lee Dam, St Arnaud and Farewell Spit captured in 2017. - The DSM is available as layer [Tasman - Golden Bay LiDAR 1m DSM (2017)] (<http://data.linz.govt.nz/layer/95512-tasman-golden-bay-lidar-1m-dsm-2017/>). - The index tiles are available as layer [Tasman - Golden Bay LiDAR Index Tiles (2017)] (<http://data.linz.govt.nz/layer/95627-goldenbaytilelayout/>). - 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 and December 2017. 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, Farewell Spit tiled into a 1:1,000 tile layout, the rest of the data tiled into a 1:2,000 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

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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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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: Q1560 -Half Scan Angle: 30 degrees - Laser Pulse Rate: 340 kHz -Laser Pulse Mode: Multi Pulse -Average Point Spacing: 2.0 pts/m2 -Laser return: 1st, 2nd, 3rd and last -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) Airborne Laser Scanner (ALS) data was acquired from a fixed wing aircraft between 24th November and 16th December 2017 using AAM

New Zealand's Riegl LMS-Q1560 LiDAR systems. This area included Golden Bay - Aorere Extension, Lee Dam, St Arnaud and Farewell Spit. Coastal areas were flown within 1.5 hours of low tide. 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 10 - Bridges Note: A small amount of points were erroneously classified by vendor as 10 and 14. Please consider these points under the 1- Default Classification. Data Validation: Ground data in this volume has been compared to 468 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 ground check points surveyed by Sound Surveying Ltd allowed an assessment of the accuracy of the ALS data. 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 3. 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.

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