

# Tasman - Abel Tasman and Golden Bay LiDAR 1m DEM (2016)

## Metadata

### File Identifier

453A87C8-CBFB-4E57-928D-99E362F93D71

### 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 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 - Abel Tasman and Golden Bay LiDAR 1m DEM (2016)

**Date****Abstract**

This layer contains the DEM for LiDAR data encompassing coastal areas from Onekaka in the North to Riwaka in the South captured in 2016. - The DSM is available as layer [Tasman - Abel Tasman and Golden Bay LiDAR 1m DSM (2016)] (<http://data.linz.govt.nz/layer/95579-tasman-abel-tasman-and-golden-bay-lidar-1m-dsm-2016/>). - The index tiles are available as layer [Tasman - Abel Tasman and Golden Bay LiDAR Index Tiles (2016)](<http://data.linz.govt.nz/layer/95581-tasman-abel-tasman-and-golden-bay-lidar-index-tiles-2016/>). - 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 December 2016. 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 1:2,000 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

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

#### 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: ALS 60 -Half Scan Angle: 30 degrees - Laser Pulse Rate: 300 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 1.3, 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) Note: Point Cloud Data from vendor has been supplied in LAS 1.3 format, despite Survey Report stating that it was supplied in LAS1.2

format. Airborne Laser Scanner (ALS) data was acquired from a fixed wing aircraft between 13th and 14th December 2016 using AAM New Zealand's Leica ALS60 LiDAR systems. This area included coastal areas from Riwaka in the South to Onekaka 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 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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