

# Manawatu - Whanganui LiDAR Index Tiles (2015)

## Metadata

### File Identifier

238F114B-AE88-4DC3-AE9C-D150E1E357B1

### 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**

Manawatu - Whanganui LiDAR Index Tiles (2015)

**Date****Abstract**

This layer contains the Index Tiles for LiDAR data from the Manawatu - Whanganui Region captured between 2015 and 2016. - The DEM is available as layer [Manawatu - Whanganui LiDAR 1m DEM (2015)] (<https://data.linz.govt.nz/layer/102475>). - The DSM is available as layer [Manawatu - Whanganui LiDAR 1m DSM (2015)] (<https://data.linz.govt.nz/layer/102476>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<http://opentopo.sdsc.edu/datasets>). This is a reprocessed dataset of the Manawatu-Whanganui 2015 LiDAR Project. It was re-supplied by Aerial Surveys for Land Information New Zealand, and includes peripheral data not part of the original survey obtained by Horizons (Manawatu-Wanganui) Regional Council. The survey area includes Bulls, Ohura, parts of Fielding and Marton. These 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 specification is at a minimum of 2 pulses/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

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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

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 between 27 December 2015 and 17 December 2016, using Aerial Surveys OptechOrion H300 LiDAR system. Survey Specification: • Scanner: Optech Orion H300 • Points Per M2: 2 or greater For details about flying height, scan angle, scan frequency, pulse rate and swath overlap please refer to the survey report. Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSpac software. For Benchmark and Base Station information, please refer to the survey report. 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 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. 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: This 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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