

# Manawatu-Whanganui - Whanganui Urban LiDAR 1m DEM (2020-2021)

## Metadata

### File Identifier

c1b4d7ce-f37b-0466-8c67-c11fa75e28e0

### Language

eng

### Character Set

#### Character Set Code

utf8

### Hierarchy Level

#### Scope Code

dataset

### Hierarchy Level Name

dataset

## Contact

### Responsible Party

#### Organisation Name

Toitū Te Whenua 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

6011

###### Country

New Zealand

###### Electronic Mail Address

customersupport@linz.govt.nz

### Role

**Role Code**

pointOfContact

**Date Stamp**

## Date

2021-08-17

**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 - Whanganui Urban LiDAR 1m DEM (2020-2021)

## Date

**Abstract**

This layer contains the DEM for LiDAR data in the Manawatu-Whanganui Region surrounding Whanganui and other small areas captured between 2020 and 2021. - The DSM is available as layer [Manawatu-Whanganui - Whanganui Urban LiDAR 1m DSM (2020-2021)] (<https://data.linz.govt.nz/layer/105694>). - The index tiles are available as layer [Manawatu-Whanganui - Whanganui Urban LiDAR Index Tiles (2020-2021)] (<https://data.linz.govt.nz/layer/105695>). - The LAS point cloud and vendor project reports are available from [OpenTopography](<https://portal.opentopography.org/datasets?loc=New%20Zealand>). LiDAR was captured for Whanganui District Council by Aerial Surveys from 8 September 2020 to 3 February 2021. These datasets were generated by Aerial Surveys and their subcontractors. Data management and distribution is by Toitū Te Whenua 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 >4 pulses/square metre. Vertical accuracy specification is +/- 0.2 m (95%). Horizontal accuracy specification is +/- 1.0 m (95%). Vertical datum is NZVD2016.

**Status**

## Progress Code

completed

**Point Of Contact**

## Responsible Party

## Organisation Name

Toitū Te Whenua Land Information New Zealand

## Position Name

Lidar Coordination Manager

Contact Info

Contact

Phone

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04 4600110

Address

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155 The Terrace

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New Zealand

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customersupport@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

Extent

EX\_ Extent

Geographic Element

EX\_ Geographic Bounding Box

174.88588450544765175.3729461908759-40.045263001925136-39.812871172344714

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/105693-manawatu-whanganui-whanganui-urban-lidar-1m-dem-2020-2021/>

## 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 from 8 September 2020 to 3 February 2021, using Aerial Surveys Optech Orion Galaxy PRIME LiDAR system. Please refer to survey reports for survey specifications. Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Please refer to survey reports for benchmark and base station information. 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. Please refer to survey reports for height accuracy summary statistics. 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. The point cloud data was then classified with TerraSolid LiDAR processing software into ground and above ground returns using automated routines tailored to the project landcover and terrain. All product deliverables supplied in terms of NZTM map projection and NZVD2016 vertical datum. Classification of the point cloud followed the classification scheme below: 1 - Unclassified 2 - Ground 3 - Low Vegetation 4 - Medium Vegetation 5 - High Vegetation 6 - Buildings 7 - Low Noise 9 - Water 18 - High Noise LINZ removed spikes from the Bare Earth Digital Elevation Model, found at tiles: DEM\_BL32\_2020\_1000\_0337 DEM\_BL32\_2020\_1000\_0838 DEM\_BL33\_2020\_1000\_1825 Lakes and large rivers were hydroflattened in the Bare Earth Digital Elevation Model and LINZ fixed the hydroflattening of a pond in tile BL32\_2020\_1000\_0441. The deliverables to LINZ were: 1m gridded bare earth digital elevation model (DEM) 1m gridded digital surface model (DSM) Classified point cloud

## Metadata Constraints

### Legal Constraints

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##### Restriction Code

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