

# Wellington LiDAR 1m DSM (2013)

## Metadata

### File Identifier

577EC3A1-4336-428C-97E4-E261130D4995

### 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

2017-06-19

## 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

Wellington LiDAR 1m DSM (2013)

##### Date

##### Date

## Abstract

This layer contains the DSM for LiDAR data from the Wellington region captured in 2013. The DEM is available as layer [Wellington LiDAR 1m DEM (2013)] (<http://data.linz.govt.nz/layer/3621>). The index tiles are available as layer [Wellington LiDAR Index Tiles (2013)] (<http://data.linz.govt.nz/layer/3591>). The LAS point cloud is available from [OpenTopography] (<http://opentopo.sdsc.edu/datasets>). Lidar was captured for Greater Wellington Regional Council by Aerial Surveys in 2013. The datasets were generated by Landcare Research. The survey area includes Wellington, Porirua, Lower Hutt, Upper Hutt, Wairarapa, and Kapiti. 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 1km x 1km tile layout

Data was collected at >1 pulse/square metre pulse density. Attributes include: -Elevation -Intensity values

-Return number -Adjusted GPS time -Classification 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

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info@linz.govt.nz

### Role

#### Role Code

pointOfContact

## 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

## Descriptive Keywords

### Keywords

#### Keyword

LAND-Topography

#### Keyword

LAND-Cover

### Type

Keyword Type Code

theme

## Thesaurus Name

### Citation

Title  
ANZLIC Search Words

Date

Edition  
Version 2.1

Edition Date  
Date  
2008-05-16

Identifier  
Identifier  
Code  
<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-theme.xml#anzlic-theme>

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  
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Restriction Code  
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#### Spatial Representation Type Code

grid

#### Representative Fraction

##### Denominator

##### Integer

1000

#### Language

eng

#### Character Set

##### Character Set Code

utf8

Topic Category Code

elevation

Topic Category Code

imageryBaseMapsEarthCover

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 in 2013 using Aerial Surveys' Optech ALTM 3100EA LiDAR system. Project Scope: Acquisition and delivery of Raw LiDAR Point Cloud Data over the entire Wellington region extending to 100m offshore Acquisition of urban specification (high resolution) LiDAR data: Ground model of +/-0.1 to 0.15m in z (1 sigma) with a resolution of 1.3 points per square metre. Post processing of the LiDAR data with data being delivered in separate flight lines using newly acquired ground control. Survey Specification: Scanner: Optech ALTM 3100EA Flying height: 1000m AMGL Scan Angle: +/- 18.8 degrees Scan Frequency: 53Hz Pulse Rate 100kHz Swath Overlap: 50% Points Per Sqm: 1.73 Data processing: The positional data collected from each flight by the POS-AV510 GPS/IMU system was processed using the Applanix POSMMS application. The ground control survey was carried out by the registered surveyors C&R Surveyors. All product deliverables supplied by Aerial Surveys in terms of NZTM map projection and Wellington 1953 Vertical Datum. The data was converted from NZGD2000 ellipsoidal heights into the local height system using the LINZ NZGeiod09 and Wellington 1953 offset. The point cloud data was classified by Landcare Research per the modified ASPRS classification scheme below, using an automated (Level 1) classification process: 1 - Unassigned 2 - Ground 4 – Vegetation 9 – Water Re-processing: In 2016 the data was reprocessed by Landcare Research for LINZ relative to the NZVD2016 vertical datum, and the DEM and DSM supplied as 1:1000 nominal scale (2500 720m high x 480m wide subtiles per full NZ Topo50 sheet).The deliverables to LINZ were: 1m gridded bare earth digital elevation model (DEM) 1m gridded digital surface model (DSM) Classified point cloud

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