

Northland - Marsden Point LiDAR Index Tiles (2016)

Metadata

File Identifier
8087E96C-E3C8-41D4-BE6F-C911F94CA832

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
Australia

Electronic Mail Address
info@linz.govt.nz

Role

Role Code
pointOfContact

Date Stamp

Date
2020-07-28

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

Northland - Marsden Point LiDAR Index Tiles (2016)

Date

Abstract

This layer contains the Index Tiles for LiDAR data for the Northland Region including Marsden Point captured in 2016. - The DEM is available as layer [Northland - Marsden Point LiDAR 1m DEM (2016)](<https://data.linz.govt.nz/layer/104802>). - The DSM is available as layer [Northland - Marsden Point LiDAR 1m DSM (2016)](<https://data.linz.govt.nz/layer/104803>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<http://opentopo.sdsc.edu/datasets>). LiDAR was captured by Aerial Surveys on 9 November and 21 November 2016. These datasets were generated by Aerial Surveys 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 1:1,000 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

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Organisation Name

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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

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<https://www.linz.govt.nz/data/licensing-and-using-data/attributing-elevation-or-aerial->

imagery-data

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 9 November and 21 November 2016, using Aerial Surveys Optech Orion H300 LiDAR system. Survey Specification: - Scanner: Optech Orion H300 - Flying Height: 1475 m AMGL - Scan Angle: ± 20 degrees - Scan Frequency: 45.0Hz - Pulse Rate: 1750kHz - Swath Overlap: 30% - Points Per M2: 2.00 Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Benchmarks: WHNG owned by LINZ Base Station Positions: -36 48 13.577724 S 174 18 52.4394 E 172.775 Ell Height Antenna Height: 0.085 Phase Center 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 standard deviation statistic is 0.030 m; a RMS of 0.037 m and the average difference is -0.021 m. 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 height datum. Classification of the point cloud followed the classification scheme below: 1 - Unclassified 2 - Ground Above_Ground (14) points was reclassified by LINZ as Unassigned classification (1) before providing the classified point cloud data to Open Topography. Lakes 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

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