

Otago - Queenstown LiDAR 1m DSM (2016)

Metadata

File Identifier

b51eb882-6df6-80d4-020f-c523096bf6c8

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

6145

Country

New Zealand

Electronic Mail Address

customersupport@linz.govt.nz

Role

Role Code

pointOfContact

Date Stamp

Date

2019-02-18

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

Otago - Queenstown LiDAR 1m DSM (2016)

Date

Abstract

This layer contains the DSM for LiDAR data from the Queenstown Area in the Otago Region captured in 2016. - The DEM is available as layer [Otago - Queenstown LiDAR 1m DEM (2016)] (<https://data.linz.govt.nz/layer/99115-otago-queenstown-lidar-1m-dem-2016/>). - The index tiles are available as layer [Otago - Queenstown LiDAR Index Tiles (2016)] (<https://data.linz.govt.nz/layer/99121-otago-queenstown-lidar-index-tiles-2016/>). - The LAS point cloud and vendor project reports are available from [OpenTopography] (<https://portal.opentopography.org/datasets?loc=New%20Zealand>). Lidar was captured for Otago Regional Council by Aerial Surveys in March and April 2016. The 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 is 2 pulses/square metre. Vertical accuracy specification is +/- 0.044m (95%). Vertical datum is NZVD2016.

Status

Progress Code

completed

Point Of Contact

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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

Resource Constraints

Legal Constraints

Use Limitation

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Use Constraints

Restriction Code

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Resource 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 Bounding Box

168.605137516168.934228799-45.1407984284-44.9185473841

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/99119-otago-queenstown-lidar-1m-dsm-2016/>

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: 2nd, 4th, 5th, 6th, 18th, 19th March and 21st April 2016 using Aerial Surveys OptechOrion H300 LiDAR system. Survey Specifications: • Scanner: Optech Orion H300 • Flying Height: 2100m AMGL • Scan Angle: ± 22 degrees • Scan Frequency: 48Hz • Pulse Rate: 125kHz • Swath Overlap: 30% • Points Per M2: 2.06 Data processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSpac software. Benchmark 1: VZQN (Queenstown Glenda) OWNER: Geosystems Base Station Position: -45 00 34.77762 S 168 45 11.54995 E 373.521 Ell Ht Antenna Height: 0.085 Phase Center Benchmark 2: GSQU OWNER: Global Base Station Position: -44 58 31.16085 S 168 45 52.01762 E 384.4 Antenna Height: 0.000 Phase Centre 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 0.022m; a RMS of 0.023m and the average difference is 0.006m. LiDAR is relative to the control check points. 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 are supplied in terms of NZTM

map projection. For the classification scheme of the point cloud please refer to the original survey report. Re-processing: In 2018 the 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 Point Cloud Data was reclassified by LINZ, points classified as 3 - Above Ground were reclassified to 1 - Unassigned. Classification of the Point Cloud available on Open Topography are as follows; 1 - Unassigned 2 - Ground

Metadata Constraints

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