Tasman - Tasman South LiDAR Index Tiles (2020-2021)

- Metadata
  - File Identifier
    - 08658f23-a599-1ace-5da8-885cb8cb402b
  - 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
2022-05-19

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
Tasman - Tasman South LiDAR Index Tiles (2020-2021)

Date

Abstract
This layer contains the index tiles for LiDAR data for Tasman South and includes Murchison, Glenhope, Motupiko, Howard and surrounding area captured between 2020 and 2021. - The DEM is available as layer [Tasman - Tasman South LiDAR 1m DEM (2020-2021)] (https://data.linz.govt.nz/layer/107704) - The DSM is available as layer [Tasman - Tasman South LiDAR 1m DSM (2020-2021)](https://data.linz.govt.nz/layer/107836) - The LAS point cloud and vendor project reports are available from [OpenTopography] (https://portal.opentopography.org/datasets?loc=New%20Zealand) LiDAR was captured for Tasman District Council by ASL Ltd between 28 January 2020 to 07 May 2021. The dataset was generated by ASL 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, tiledinto 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 +/- 0.2m (95%) Horizontal Accuracy Specification is +/- 1.0m (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
      - Telephone
        - Voice
          - 04 4600110
    - Address
      - Address
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          - Wellington
        - Postal Code
          - 6011
        - Country
          - New Zealand
        - Electronic Mail Address
          - 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
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license

Resource Constraints
Security Constraints
Classification
Classification Code
unclassified

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

Extent
EX _ Extent
Geographic Element
EX _ Geographic Bounding Box
172.13518489628976173.3048857406361-42.12485682362388-41.29656532269781

Distribution Info
Distribution
Transfer Options
Digital Transfer Options
On Line
Online Resource
Linkage
URL
https://data.linz.govt.nz/layer/107838-tasman-tasman-south-lidar-index-tiles-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 between between 28 January 2020 to 07 May 2021, using ASL's Optech Galaxy Prime LiDAR system. Survey Specification: - Scanner: Optech Galaxy Prime - Flying height: 2925 m AMGL - Scan angle: 52 degrees - Pulse rate: 400 kHz - Swath overlap: 55% - Swath points per M^2: 4 pts per sq m. Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Base Station Positions: PPRTX 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 0.047m; a RMS of0.047m and the average difference is 0m. LiDAR is relative to the control check points. The positional accuracy of the LiDAR data has been checked by overlaying Sounds Surveying Ltdsurveyed 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 land cover and terrain. All product deliverables supplied in terms of NZTM map projection and NZVD2016 vertical datum. Classification of the point cloud followed the classifications 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 The Digital Elevation (DEM) was derived using a point to TIN and TIN to Raster process, using a Natural Neighbour interpolation. Hydro flattening was performed as per part 7 of PGF version New Zealand National Aerial Lidar Base Specification Jan 2020. To improve the accurate representation of bare earth in high alpine environments, some reclassification and manual editing has been applied by Aerial Surveys and LINZ to the DEM. The point cloud data remains as was originally delivered. 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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