Tasman - Abel Tasman National Park LiDAR 1m DSM (2020-2021)

- Metadata
  - File Identifier
    - b8bcdd3a-dbba-fcfc-7fd0-f8eba63c6679
  - 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
                - Australia
              - Electronic Mail Address
                - info@linz.govt.nz
      - Role

Role Code
pointOfContact

Date Stamp
Date
2021-09-14

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 - Abel Tasman National Park LiDAR 1m DSM (2020-2021)

Date

Abstract
This layer contains the DSM for LiDAR data in the Tasman District and includes Abel Tasman National Park, Kahurangi National Park, the Takaka Hill and surrounding area, captured between 2020 and 2021 - The DEM is available as layer [Tasman - Abel Tasman National Park LiDAR 1m DEM (2020-2021)](https://data.linz.govt.nz/layer/106040). - The index tiles are available as layer [Tasman - Abel Tasman National Park LiDAR Index Tiles (2020-2021)] (https://data.linz.govt.nz/layer/106039). - The LAS point cloud and vendor project reports are available from [OpenTopography](https://portal.opentopography.org/datasets?loc=New%20Zealand). LiDAR was captured for the Tasman District Council by Aerial Surveys between 10 February 2020 and 16 January 2021. These datasets were generated by Aerial Surveys Ltd 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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        - Voice
          - 04 4600110
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          - Australia
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          - info@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

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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
172.57704769709082173.0512747342488-41.309140022672125-40.77081893159629

Distribution Info
Distribution
Transfer Options
Digital Transfer Options
On Line
Online Resource
Linkage
URL
https://data.linz.govt.nz/layer/106041-tasman-abel-tasman-national-park-lidar-1m-dsm-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 2020 and 2021 using Aerial Surveys Optech Galaxy PRIME LiDAR system. Survey Specification: Scanner: Optech Galaxy PRIME Flying Height: 2,925 m AMGL Scan Angle: ±52.0 degrees Scan Frequency: 45 Hz Pulse Rate: 400 kHz Swath Overlap: 55% Swath Points Per M2: 4 Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Base Station Positions: PP-RTX 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 0.047 m; a RMS of 0.047 m and the average difference is 0.00 m. 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 land cover and terrain. All product deliverables supplied in terms of NZTM map projection and NZVD2016 vertical datum. Classification of the point cloud follows 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 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

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