West Coast LiDAR Index Tiles (2020-2022)

Metadata

- File Identifier
  - 7C22BD4E-1AEA-45BF-9233-73FD2FC10940
- 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
2022-08-18

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
West Coast LiDAR Index Tiles (2020-2022)

Date

Abstract
This layer contains the index tiles for LiDAR data in the West Coast Region, captured between 2020 and 2022. - The DEM is available as layer [West Coast LiDAR 1m DEM (2020-2022)](https://data.linz.govt.nz/layer/110163). - The DSM is available as layer [West Coast LiDAR 1m DSM (2020-2022)](https://data.linz.govt.nz/layer/110164). - The LAS point cloud and vendor project reports are available from [OpenTopography](https://portal.opentopography.org/datasets?loc=New%20Zealand). LiDAR was captured for West Coast Regional Council by Aerial Surveys between 16 May 2020 and 14 February 2022. These datasets were generated by Aerial Surveys 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 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
      - Delivery Point
        - 155 The Terrace
      - City
        - 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
Legal Constraints
Use Limitation
Copyright of this work is owned by West Coast Regional Council © West Coast Regional Council

Use Constraints
Restriction Code
copyright

Resource Constraints
Legal Constraints
Use Limitation
Released by LINZ under Creative Commons Attribution 4.0 New Zealand (CC BY 4.0) with: Following Attribution: "Sourced from the LINZ Data Service and licensed by West Coast Regional Council, for re-use under CC BY 4.0." For details see: https://www.linz.govt.nz/data/licensing-and-using-data/attributing-elevation-or-aerial-imagery-data

Use Constraints
Restriction Code
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

- 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 16 May 2020 and 14 February 2022 using Aerial Surveys Optech Galaxy PRIME LiDAR system. Survey Specifications: 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. LiDAR is relative to the control check points. Please refer to the survey report for accuracy statistics. 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. Spikes and tile edge artefacts were fixed and bridges removed by LINZ in the following tiles: - DEM_BR21_2020_1000_2326 - DEM_BR21_2020_1000_2439 - DEM_BS20_2020_1000_0220 - DEM_BS20_2020_1000_0347 - DEM_BS20_2020_1000_0348 The deliverables to LINZ were: 1m gridded bare earth digital elevation model (DEM) 1m gridded digital surface model (DSM) Classified point cloud The dataset has been published prior to the completion of a full quality check. If any issues or problems are found with this dataset, please provide feedback to LINZ at customersupport@linz.govt.nz.

Metadata Constraints
Legal Constraints
Use Limitation

Use Constraints
Restriction Code

copyright

Metadata Constraints
Legal Constraints
Use Limitation

Use Constraints
Restriction Code

license