Canterbury - Christchurch and Ashley River LiDAR 1m DEM (2018-2019)

- Metadata
  - File Identifier
    - 72ae2f06-39c6-080e-ac24-574fce206c33
  - 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
                - New Zealand
              - Electronic Mail Address
                - info@linz.govt.nz
      - Role

Role Code
pointOfContact

Date Stamp
Date
2020-12-10

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
Canterbury - Christchurch and Ashley River LiDAR 1m DEM (2018-2019)

Date

Abstract
This layer contains the DEM for LiDAR data in the Canterbury Region surronding Christchurch and the Ashley River between 2018 and 2019. - The DSM is available as layer [Canterbury - Christchurch and Ashley River LiDAR 1m DSM (2018-2019)] (https://data.linz.govt.nz/layer/104498). - The index tiles are available as layer [Canterbury - Christchurch and Ashley River LiDAR Index Tiles (2018-2019)] (https://data.linz.govt.nz/layer/104499). - The LAS point cloud and vendor project reports are available from [OpenTopography](https://portal.opentopography.org/datasets?loc=New%20Zealand). LiDAR was captured for Environment Canterbury Regional Council by Aerial Surveys from 20 July 2018 to 01 March 2019. 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 2.14 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
LINZ - Land Information New Zealand

Position Name
Lidar Coordination Manager

- Contact Info
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    - Phone
      - Telephone
        - Voice
          - 04 4600110
    - Address
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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

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Use Constraints
Restriction Code
license

Resource Constraints
Security Constraints
Classification
Classification Code
unclassified

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
172.388785733172.815702426-43.675836787-43.1952153319

Distribution Info
Distribution
Transfer Options
Digital Transfer Options
On Line
Online Resource
Linkage
URL
https://data.linz.govt.nz/layer/104497-canterbury-christchurch-and-ashley-river-lidar-1m-dem-2018-2019/

- 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 from 20 July 2018 to 01 March 2019, using Aerial Surveys Optech Orion H300 and Optech Galaxy Prime LiDAR systems. Please refer to survey reports for survey specifications. Data Processing: The LiDAR sensor positioning and orientation (POS) was determined using the collected GPS/IMU datasets and Applanix POSPac software. Please refer to survey reports for benchmark and base station information. 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. Please refer to survey reports for height accuracy summary 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 withTerraSolid 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 vertical datum. Classification of the point cloud followed the classification scheme below: 1 - Unclassified 2 - Ground 7 - Noise 12 - Overlap 14 - Above Ground Above_Ground (14) points was reclassified by LINZ as Unassigned classification (1) before providing the classified point cloud data to Open Topography. 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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