

Canterbury 0.4m Rural Aerial Photos (2013-2014)

Metadata

File Identifier

a26d99f4-a893-70ea-aebd-3e33d851f29b

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

National Imagery 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**

2014-11-25

Metadata Standard NameANZLIC 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 0.4m Rural Aerial Photos (2013-14)

Date**Abstract**

Orthophotography for the Canterbury region taken in the flying season (summer period) 2013 - 2014. Coverage encompassed the Waimate, Mackenzie, and Waitaki council areas. Imagery was captured for the 'Environment Canterbury' by Aerial Surveys Ltd, Unit A1, 8 Saturn Place, Albany, 0632, New Zealand. Data comprises:

- 2,067 x ortho-rectified RGBi GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:5,000 tile layout
- Tile layout in NZTM projection containing relevant information. The supplied imagery is in terms of New Zealand Transverse Mercator (NZTM) map projection. The products are tiled into NZTopo50 1:5,000 tiles. Please refer to the supplied tile layout shape file for specific details, naming conventions, etc. Imagery supplied as 40cm pixel resolution (0.4m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is +/-0.6m. Index tiles for this dataset are available as layer [Canterbury 0.4m Rural Aerial Photos Index Tiles (2013-2014)](<http://data.linz.govt.nz/layer/2116>)

Status

Progress Code

completed

Point Of Contact

Responsible Party

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Role

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pointOfContact

Resource Format

Format

Name

*.xml

Version

Unknown

Resource Constraints

Security Constraints

Classification

Classification Code

unclassified

Resource Constraints

Legal Constraints

Use Limitation

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Access Constraints

Restriction Code

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Use Constraints

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Spatial Representation Type Code

grid

Representative Fraction

Denominator

Integer

5000

Language

eng

Character Set

Character Set Code

utf8

Topic Category Code

imageryBaseMapsEarthCover

Extent

EX _ Extent

Geographic Element

EX _ Geographic Bounding Box

169.420067306171.297960227-45.100199596-43.6074265181

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/52117-canterbury-04m-rural-aerial-photos-2013-2014/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

The project area covered the Waimate DC, Mackenzie DC & Waitaki DC districts. The Aerial Surveys project number for this project is PGRM2458. Digital imagery was collected between 29 October 2013 - 27 March 2014, using Aerial Survey's Microsoft UCLp large-format digital cameras. The imagery was collected flying at 4,700 metres above ground. Data Processing All aspects of the data processing from imagery processing, to DTM creation

and ortho production and product deliverables was undertaken in-house by Aerial Surveys staff. Map Projection: All spatial data for this project provided in terms of New Zealand Transverse Mercator (NZTM) map projection. The datum is New Zealand Geodetic Datum 2000. The height datum is orthometric Lyttleton 1937 (sea level). The products are tiled into NZTopo50 map sheet tiles as noted below. Image Processing & Aerial Triangulation: All imagery has gone through QA checks ensuring there is no cloud cover and cloud shadow. During aerial acquisition the aircraft on-board GPS navigation data & ground base station data collected & post processed. Imagery processed to level3 and checked for colour correctness/radiometry and even tonal balance across each project area. The aerial triangulation brings together the GPS data & imagery using a two part process which stitches the imagery together using tie point matching for the relative orientation phase & observing ground control points for the absolute orientation phase. A final report is generated to check RMSE values are within specification. Ortho Specification: Ortho rectification is the process of removing (from the image) the effects of camera tip/tilt & displacement caused by terrain relief. During this process each frame is 'draped' over the terrain model & the photograph then becomes 'scaled' & 'levelled' & in terms of true ground coordinates. The generation of seamlines between frames follow natural physical features such as ridges, valleys, roads and rivers. The seamlines are used for the final ortho mosaic that stitches the imagery together using feather mosaicking techniques along with the final extraction of the ortho image tiles. The 0.4m GSD imagery processed as RGBI with RGB extracted after the final ortho mosaic process. Some manual colour adjustment made over coastal sea areas in the RGB.

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