

# Canterbury 0.3m Rural Aerial Photos (2014-2015)

## Metadata

### File Identifier

| 1045fedc-d397-e702-d347-3624f307fadf

### 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**

2015-11-10

**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 0.3m Rural Aerial Photos (2014-15)

**Date****Abstract**

Orthophotography for the Canterbury region taken in the flying season (summer period) 2014 - 2015. Coverage encompassed the Hurunui, and Kaikoura council areas. Imagery was captured for the 'Environment Canterbury' by Aerial Surveys Ltd, Unit A1, 8 Saturn Place, Albany, 0632, New Zealand. Data comprises: •1,661 x ortho-rectified RGB 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 30cm pixel resolution (0.3m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is +/-0.6m. Index tiles for this dataset are available as layer [Canterbury 0.3m Rural Aerial Photos Index Tiles (2014-15)] (<http://data.linz.govt.nz/layer/2427>)

**Status**

Progress Code

completed

Point Of Contact

Responsible Party

Organisation Name

LINZ - Land Information New Zealand

Position Name

National Imagery Manager

Contact Info

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Telephone

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Address

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Country

New Zealand

Electronic Mail Address

info@linz.govt.nz

Role

Role Code

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

copyright

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##### Restriction Code

license

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

171.768197367174.157595258-43.3451879572-41.849322683

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/52602-canterbury-03m-rural-aerial-photos-2014-2015/>

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 Hurunui, and Kaikoura districts. The Aerial

Surveys project number for this project is PGRM2544. Digital imagery was collected between 09 January 2015 - 24 January 2015, using Aerial Survey's Microsoft UCLp and UCE large-format digital cameras. 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 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 0.3m 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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