

Christchurch Post-Earthquake 0.1m Urban Aerial Photos (24 February 2011)

Metadata

File Identifier

5ec7de54-a714-f4de-e5f9-55a8abf02eb8

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**

2014-04-16

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**

Christchurch Post-Earthquake 0.1m Urban Aerial Photos (24 February 2011)

Date**Abstract**

Orthophotography of the area affected by the Christchurch Earthquake, 22 February 2011 for the Christchurch Response Centre (CRC). Imagery was captured by NZ Aerial Mapping Ltd, 208 Warren Street, PO Box 6, Hastings 4156, New Zealand to support the response to the 22 February 2011 earthquake in Canterbury. Data comprises:

- 1,785 x ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:1,000 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 1:1,000 tiles. Please refer to the supplied tile layout shape file for specific details, naming conventions, etc. Imagery supplied as 10cm pixel resolution (0.1m GSD), 3-band (RGB) uncompressed GeoTIFF. Index tiles for this dataset are available as layer [Christchurch Post-Earthquake 0.1m Urban Aerial Photos Index Tiles (24 February 2011)](<http://data.linz.govt.nz/layer/1937>)

Status**Progress Code**

completed

Point Of Contact**Responsible Party****Organisation Name**

LINZ - Land Information New Zealand

Position Name

National Imagery Manager

Contact Info**Contact****Phone****Telephone**

Voice
04 4600110

Address
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Delivery Point
155 The Terrace
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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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Restriction Code
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Spatial Representation Type Code
grid

Representative Fraction
Denominator
Integer
1000

Language
eng

Character Set
Character Set Code
utf8

Topic Category Code
imageryBaseMapsEarthCover

Extent
EX_ Extent
Geographic Element
EX_ Geographic Bounding Box
172.481952395172.994033091-43.8253911964-43.3318459867

Distribution Info
Distribution
Transfer Options
Digital Transfer Options
On Line
Online Resource
Linkage
URL
<https://data.linz.govt.nz/layer/51932-christchurch-post-earthquake-01m-urban-aerial-photos-24-february-2011/>

Data Quality Info
DQ_ Data Quality
Scope
DQ_ Scope
Level
Scope Code
dataset
Level Description
Scope Description
Other

dataset

Lineage

LI_Lineage Statement

Data Processing In order to expedite their production these orthophotos were produced using a number of shortcuts that would not be followed for a fully specified orthophoto project. While the orthophotos are fit for use by experienced geodata users they are not suitable for general distribution without a suitable disclaimer. The aerial photos position and orientation (POS) were determined using the POS observations collected at the GPS base station and in the aircraft. This data was processed using NZGD2000 reference system. A coordinate for the base station was computed using single baseline processing and data supplied by to NZAM by GNS, from the GeoNet station MQZG. Given the magnitude of the earthquake it is likely that the location of MQZG has changed. However, as no information is available yet it had to be assumed that the coordinate for MQZG had not changed. For the orthophoto generation NZAM used DTM sourced from within our archive. This DTM was not edited or checked for change. Automated mosaic seam line placement was used during the orthophoto production. NZAM chose to use a simple 'most nadir 'algorithm for their placement. This selects the most central portion of each available photo and thereby helps minimise the amount of perspective view lean on buildings. The seam lines can be clearly seen on some of the photography. Data Supply The geodata is all in terms of New Zealand Transverse Mercator map projection. The Orthophotos are tiled into NZTopo50 1:1000 tiles and named using the convention NZTopo50PrimeAABB (e.g. BX0302). The orthophotos are supplied in GeoTIFF file format. Quality Exceptions The orthophotos have only had a cursory review. Given that the DTM was not updated and checked it is likely that the orthophotos will include areas where the imagery appears smeared or is out of position. While NZAM endeavoured to collect cloud free photography there is the odd puff of cloud and cloud shadow in the imagery. This would not be acceptable for a fully specified orthophoto project, but they do not significantly impact on the useability of the photography for the earthquake response work.

Metadata Constraints

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