

Palmerston North 0.125m Urban Aerial Photos Index Tiles (2015)

Metadata

File Identifier

| 71ef8461-3790-d3c5-4487-215b5e97d0cc

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

| 2017-09-21

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

Palmerston North 0.125m Urban Aerial Photos Index Tiles (2015)

Date

Abstract

Index Tiles ONLY, for actual orthophotos see layer [Palmerston North 0.125m Urban Aerial Photos (2015)](<http://data.linz.govt.nz/layer/88138>) Orthophotography over the Palmerston North urban area taken in the flying season (summer period) 2014-15. Imagery was captured for the 'Palmerston North City Council' by Aerial Surveys Ltd, Unit A1, 8 Saturn Place, Albany, 0632, New Zealand. Data comprises: •1,021 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 12.5cm pixel resolution (0.125m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is ± 0.2 m @ 95% confidence level in clear open spaces.

Status

Progress Code

completed

Point Of Contact

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Organisation Name

LINZ - Land Information New Zealand

Position Name

National Imagery Manager

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pointOfContact

Resource Format

Format

Name
*.xml

Version
Unknown

Resource Constraints

Security Constraints

Classification
Classification Code
unclassified

Resource Constraints

Legal Constraints

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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**

175.510114774175.795989917-40.4443980697-40.2385773392

Distribution Info**Distribution****Transfer Options****Digital Transfer Options****On Line****Online Resource****Linkage****URL**<https://data.linz.govt.nz/layer/88092-palmerston-north-0125m-urban-aerial-photos-index-tiles-2015/>**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 The aerial photography for this project was captured within the 2014/15 flying season (September 2014 - April 2015) on the following dates: 12rd ,18th February 2015. All photography was captured using Vexcel's digital UCE camera and flown at: 0.125m GSD: 7887ft (2404m) flying height Camera Lens: 100mm Sun Angle Minimum of +50 degrees Urban Building Displacement Specification Urban 0.125m GSD imagery - The CBD area has been captured with 80% forward lap and 80% sidelap to achieve near true ortho imagery (near to no building lean). 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 2000 map projection (NZTM2000) . The datum is New Zealand Geodetic Datum 2000 (NZGD2000). The height datum is orthometric Moturiki 1953 (sea level). Image Processing and 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 and ground base station data collected and post processed. Imagery processed to Level 3 and checked for colour correctness/radiometry and even tonal balance across each project area. The aerial triangulation brings together the GPS data and imagery using a two part process which stitches the imagery together using tie point matching for the relative orientation phase and observing ground control points for the absolute orientation phase. A final report is generated to check RMSE values are within specification. DTM Source: The digital terrain model used for this project was derived from LiDAR DTM data flown 2006 and 2009 and the existing 2012/13 photogram DTM collected by ASL. The DTM data is merged together seamlessly and accuracy is checked to meet the ortho imagery specification. Note about updated DTM (if applicable) needs to be added here. RGB Ortho Specification Ortho rectification is the process of removing (from the image) the effects of camera tip/tilt and displacement caused by terrain relief. During this process each frame is 'draped' over the terrain model and the photograph then becomes 'scaled' and '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. The ortho imagery is then extracted aligned to LINZ 1:1000 sheet tile layout.

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