

Bay of Plenty 0.25m Rural Aerial Photos (2011-2012)

Title

Bay of Plenty 0.25m Rural Aerial Photos (2011 - 2012)

Creator

LINZ - Land Information New Zealand

Date

2013

Description

Orthophotography for BOPLASS ltd taken during 2011 and 2012. Coverage encompassed the wider Bay of Plenty. Imagery was captured for the 'Boplass ltd and Gisborne District Council' by NZ Aerial Mapping Ltd, 208 Warren Street, PO Box 6, Hastings 4156, New Zealand. The supplied imagery is in terms of New Zealand Transverse Mercator (NZTM) map projection. The products are tiled into NZTopo50 1:2,000 tiles. Please refer to the supplied tile layout shape file for specific details, naming conventions, etc. Imagery supplied as 25cm pixel resolution (0.25m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is +/-0.5m (@ 90% confidence). Index tiles for this dataset are available as layer [Bay of Plenty 0.25m Rural Aerial Photos Index Tiles (2011-2012)](<http://data.linz.govt.nz/layer/1758>).

Source

Data Acquisition: The Aerial Photography was acquired using both UCX and UCXp camera systems on the following dates: UCX 8-11 March 2011 19 March 2011 28-29 March 2011 8-9 April 2011 18-19 April 2011 UCXp 29 Mar 2011 01 April 2011 8-9 April 2011 27 Nov 2011 24-25 Jan 2012 The data was collected flying between 3472 and 4182 metres above lowest ground. These settings were selected to create a dataset with 0.25m gsd. NZAM used a number of LINZ geodetic marks, Geosystems iBASE and NZAM geodetic marks for the collection of GPS basestation data during the aerial data acquisition. Detail of these will be provided in the final project report. Independent of the aerial survey work Opus International Consultants Limited surveyed a series of ground control points for use in the Aerial Triangulation of the raw images, and for QA of the final orthophotos. Data Processing: The sensor positioning and orientation (POS) was determined using the acquired GPS/IMU datasets and Applanix POSPac software. This work was all undertaken in NZGD2000 geodetic reference system using the data collected at the LINZ geodetic reference marks for the differential processing. The POS data was combined with the ground control in Aerial Triangulation (AT) to geo-reference the raw photography in NZTM map projection. This process was undertaken using Microsoft's UltraMap AT and Leica's ORIMA software. AT data, raw images and processed LiDAR DTM data were supplied to the orthophoto production team for Orthophoto Generation. All subsequent data processing steps were undertaken using Inpho's OrthoVista, PCI and Socet Set processing software. The final orthophotos were checked for completeness of project coverage, general appearance and accuracy. The positional accuracy of the data has been checked by overlaying the Opus field surveyed features on the dataset. The data was found to fit well in position. The detailed results will be provided in the final project report, the testing supports that the project specified positional accuracy of +/-0.5m (90% confidence) has been met.

Coverage

-38.5825461686 175.852392613 -37.3607788876 177.43364977

Identifier

| <https://data.linz.govt.nz/layer/51760-bay-of-plenty-025m-rural-aerial-photos-2011-2012/>

Type

| grid

Language

| eng

Subject

| imageryBaseMapsEarthCover