

Christchurch 0.075m Urban Aerial Photos (2018-2019)

Title

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Creator

LINZ - Land Information New Zealand

Date

2019

Description

Orthophotography for urban areas across Christchurch City totalling approximately 524 km². Taken in the flying season (summer period) 2018-19. The area of capture is located in the Canterbury Region of the South Island. Imagery was captured for Environmental Canterbury by Aerial Surveys Ltd, Unit A1, 8 Saturn Place, Albany, 0632, New Zealand. Data comprises:

- 7984 ortho-rectified RGB GeoTIFF images in NZTM projection, tiled into the LINZ Standard 1:500 tile layout
- Tile layout in NZTM projection containing relevant information. The supplied imagery is in terms of New Zealand Transverse Mercator (NZTM) map projection. Please refer to the supplied tile layout for specific details, naming conventions, etc. Imagery supplied as 7.5 cm pixel resolution (0.075m GSD), 3-band (RGB) uncompressed GeoTIFF. The final spatial accuracy is ± 0.15 m @ 95% confidence level. Index tiles for this dataset are available as layer [Christchurch 0.075m Urban Aerial Photos Index Tiles (2018-2019)] (<http://data.linz.govt.nz/layer/105045>)

Source

Project Aerial photography was captured over the urban areas in the Christchurch City totalling approximately 524 km². The areas of capture are located in the Canterbury Region of the South Island. Data Acquisition Aerial photography was captured using Vexcel's digital UCE camera: 5-6 November, 2018, 17 December 2018, 24 December 2018, 27 January 2019, 9 February 2019, 26 March 2019. Ground Support New/existing control and LINZ benchmarks were used for aerial triangulation. Camera All photography was captured using Vexcel's digital UCE camera and flown at: 0.075 m GSD: 4,732 ft (1,441 m) flying height Camera Lens: 100 mm Sun Angle Imagery captured with a sun angle between 43.8 and 69.1 degrees Flight Planning SN14003 Selwyn: 65 runs, 1,058 frames SN14008 Waimate: 19 runs, 247 frames SN14009 Christchurch: 44 runs, 2,273 frames SN14010 Banks Peninsula: 24 runs, 459 frames Stereo capture: Forward overlap 60%, min 54%. Side overlap 35%, min 15%. Environmental Specification Imagery captured with no cloud or cloud shadow within the area of interest. Coastal and harbour areas captured within two hours either side of low tide. Urban Building Displacement Specification Urban 0.075 m GSD imagery – by flying with 60% forward overlap and with 35% sidelap (standard stereo coverage), 1 m building lean per 3 m height in the corners of the imagery. Christchurch CBD and University of Canterbury areas flown with 80% forward with 80% sidelap to achieve <0.37 m per 3 m height over areas with tall buildings.

Type

grid

Language

eng

Subject

| imageryBaseMapsEarthCover