

NZ Building Outlines

Metadata

File Identifier
| 02412e80-3754-b411-662a-ea35ce85dace

Language
| eng

Character Set
Character Set Code
| utf8

Hierarchy Level
Scope Code
| dataset

Hierarchy Level Name
| dataset

Contact

Responsible Party
Individual Name
| Omit

Organisation Name
| LINZ - Land Information New Zealand

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| New Zealand

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Role

Role Code
| resourceProvider

Date Stamp

Date
| 2020-03-30

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

NZ Building Outlines

Date

Date

Abstract

This dataset provides current outlines of buildings within mainland New Zealand captured from the latest aerial imagery. A building outline is a 2D representation of the roof outline of a building which has been classified from LINZ aerial imagery using a combination of automated and manual processes to extract and refine a building roof outline. Building outlines observed in aerial imagery larger than or equal to 10 square meters are captured in this dataset, and may include structures such as garages and large sheds. **Data vintage** This dataset shows the most recent set of building outlines extracted from the LINZ aerial imagery available on the LINZ Data Service. Current coverage includes areas in Northland, Auckland, Waikato, Gisborne, Bay of Plenty, Hawke's Bay, Taranaki, Manawatu-Wanganui, Wellington, Tasman, Nelson, West Coast, Marlborough, Canterbury, Southland, and Otago. This dataset will be updated and expanded as new aerial imagery becomes available. Since aerial imagery is flown only every few years in each region of the country, building outlines only reflect those buildings observed at the date of this aerial imagery capture, and may not reflect buildings constructed after this time period. Please refer to the [NZ Building Outlines Data Dictionary](https://nz-buildings.readthedocs.io/en/latest/introduction.html) for detailed metadata and information about this dataset. **Related building outlines data** [NZ Building Outlines (All Sources)](https://data.linz.govt.nz/layer/101292) - contains all combinations of building outlines from multiple years of imagery that have existed since the beginning of this dataset, and the dates when each building outline existed in the associated aerial imagery. [NZ Building Outlines Lifecycle](https://data.linz.govt.nz/table/101291) - is related to the dataset above and stores the relationship between building outlines when one building is split into two or more building outlines, or when multiple building outlines are merged into a single outline. --- **APIs and web services** This dataset is available via ArcGIS Online and ArcGIS REST services, as well as our standard APIs. [LDS APIs and OGC web services](https://data.linz.govt.nz/layer/101290/webservices/) [ArcGIS Online map services](https://basedatanz.maps.arcgis.com/home/item.html?id=c2e9e61f55a245978c0bd64558553101) [ArcGIS REST API](https://services7.arcgis.com/jl87xPT7G1AGV8Uo/arcgis/rest/services/)

Purpose

This layer provides the building outlines for mainland New Zealand.

Status

Progress Code

onGoing

Point Of Contact

Responsible Party

Individual Name

Omit

Organisation Name

LINZ - Land Information New Zealand

Position Name

Data Manager - Topography

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Role

Role Code

pointOfContact

Resource Maintenance

Maintenance Information

Maintenance And Update Frequency

Maintenance Frequency Code

unknown

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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Use Constraints

Restriction Code

copyright

Resource Constraints

Legal Constraints

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Use Constraints

Restriction Code

license

Spatial Representation Type Code

vector

Language

eng

Character Set

Character Set Code

utf8

Topic Category Code

imageryBaseMapsEarthCover

Topic Category Code

structure

Extent

EX_ Extent

Geographic Element

EX_ Geographic Bounding Box

169.464567685177.987399509-45.617748954-36.4328794158

Extent

EX_ Extent

Geographic Element

EX_ Geographic Description

Identifier

Authority

Citation

Title

ANZMet Lite Country codelist

Date

Edition

Version 1.0

Edition Date

Date

2009-03-31

Identifier

Identifier

Code

<http://asdd.ga.gov.au/asdd/profileinfo/anzlic-country.xml#Country>

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role

Role Code

custodian

Code

nzl

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.linz.govt.nz/layer/101290-nz-building-outlines/>

Data Quality Info

DQ_ Data Quality

Scope

DQ_ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

Lineage

LI_Lineage

Statement

****Source imagery**** Resolution of the aerial imagery used for building outline capture ranges from 7.5cm pixel resolution (0.075m GSD) to 50cm pixel resolution (0.5m GSD). The source imagery is linked via the capture_source_id attribute of building outlines to the imagery_survey_id of NZ Imagery Surveys. Using this link, additional attributes can be connected to building outlines - for example the dates that the imagery was captured and the accuracy / ground sample distance of the imagery used. The NZ Imagery Surveys data dictionary is here: <https://nz-imagery-surveys.readthedocs.io/en/latest/index.html> ****Accuracy Specification:**** The Building Outlines contain spatial detail reflective of the visible characteristics of building outlines as seen from the source aerial imagery. The building outlines were created by both an automated and manual method of feature extraction. Outlines are captured in full where they are partially occluded by vegetation or require additional viewer interpretation, and squared off at 90 degrees if the corner angles are between 80-100 degrees. ****The following criteria were used for capturing buildings as building outlines:****

- Buildings under construction, caravans, caravan trailers, house boats, shipping containers and other mobile structures are not captured as building outlines.
- Primary building structures are captured as separate building outline polygons when the roofs are separate from nearby building roof structures.
- Building extensions, sunrooms, balconies, patios and annexes are captured as part of the primary building outline structure if they exist as part of multi-level buildings and if sufficient imagery resolution allows this determination.
- Permanent building structures such as sheds and greenhouses >10sq meters, not attached to a primary building structure, are captured as a separate building outlines.
- Adjoining townhouses are not captured as separate structures, but rather as joined primary structures.
- Adjoining commercial buildings are captured as separate building outlines when rooflines allow delineation.
- Hay bales and silage are not captured as building outlines.
- Building outline polygons captured will be greater than 10 square meters. An exception to this is in national parks, conservation areas, and wildlife areas where small structures such as huts, bivies and shelters are included as building outlines to address safety concerns in remote locations
- Water tanks are captured as building outlines when their area is at least 16.5 square metres (or 4.5 meters in diameter).

****Valid Geometry:**** A building outline polygon is considered to have valid geometry if;

- It does not overlap with other building outline polygons;
- It does not contain any spikes along edges;
- It does not contain duplicate nodes;
- It does not contain lines that are intersected with each other;
- It can contain polygons with interior rings (holes);
- It does not contain polygons with multiple exterior rings;

Metadata Constraints

Security Constraints

Classification

Classification Code

unclassified

Metadata Constraints

Legal Constraints

Use Limitation

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Use Constraints

Restriction Code

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Restriction Code

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