



## LUCAS NZ Forest Clearing 2008-2016 v015

### Metadata

#### File Identifier

dd4f3ca3-6070-b6a4-ea75-514c159a8642

#### Language

eng

#### Character Set

##### Character Set Code

utf8

#### Hierarchy Level

##### Scope Code

dataset

#### Hierarchy Level Name

dataset

### Contact

#### Responsible Party

##### Individual Name

Michael Cooper

##### Organisation Name

LUCAS, Ministry for the Environment

##### Position Name

GIS Analyst

#### Contact Info

##### Contact

##### Address

##### Address

##### Delivery Point

23 Kate Sheppard Place, PO Box 10362

##### City

Wellington 6143

##### Country

New Zealand

##### Electronic Mail Address

lucas@mfe.govt.nz

**Role**

**Role Code**

distributor

**Date Stamp**

**Date**

2019-04-18

**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**

ANZLIC LUCAS NZ Forest Clearing 2008 2016 v015

**Date**

**Date**

**Date**

**Abstract**

Areas of LUCAS LUM forests that have been cleared between 2008 and 2016 inclusive. Forest clearing is detected using mosaics of satellite imagery captured over a range of dates; therefore the year of clearing provided is nominal.

**Purpose**

In order to produce the LUCAS Land Use Maps 1990, 2008, 2012 and 2016 and estimate annual rates of deforestation, the LUCAS mapping programme routinely detects and classifies forest clearing in NZ.

**Credit**

Manaaki Whenua - Landcare Research

**Status**

Progress Code

completed

Resource Maintenance

Maintenance Information

Maintenance And Update Frequency

Maintenance Frequency Code

irregular

Resource Format

Format

Name

\*.xml

Version

Unknown

Descriptive Keywords

Keywords

Keyword

New Zealand

Type

Keyword Type Code

theme

Thesaurus Name

Citation

Title

ANZLIC Jurisdictions

Date

Edition

Version 2.1

Edition Date

Date

2008-10-29

Identifier

Identifier

Code

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

Cited Responsible Party

Responsible Party

Organisation Name

ANZLIC the Spatial Information Council

Role  
Role Code  
custodian

## Descriptive Keywords

### Keywords

#### Keyword

FORESTS-Natural

#### Keyword

FORESTS-Plantation

#### Keyword

LAND-Cover

#### Keyword

LAND-Use

### Type

#### Keyword Type Code

theme

### Thesaurus Name

#### Citation

##### Title

ANZLIC Search Words

##### Date

##### Edition

Version 2.1

##### Edition Date

###### Date

2008-05-16

##### Identifier

###### Identifier

###### Code

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

##### Cited Responsible Party

###### Responsible Party

###### Organisation Name

ANZLIC the Spatial Information Council

###### Role

###### Role Code

custodian

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 4.0 International by Ministry for the Environment

Access Constraints

Restriction Code

license

Resource Constraints

Legal Constraints

Use Limitation

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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

environment

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

**Extent**

EX \_ Extent

Geographic Element

EX \_ Geographic Bounding Box

166.503701674178.443417927-46.7599728681-34.4293716285

**Distribution Info**

Distribution

Distributor

Distributor

Distributor Contact

Responsible Party

Individual Name

Michael Cooper

Organisation Name

LUCAS, Ministry for the Environment

Position Name

GIS Analyst

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23 Kate Sheppard Place, PO Box 10362

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lucas@mfe.govt.nz

Role  
Role Code  
distributor

#### Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/99909-lucas-nz-forest-clearing-2008-2016-v015/>

#### Data Quality Info

DQ \_ Data Quality

Scope

DQ \_ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

#### Lineage

LI \_ Lineage

Statement

\*Detection\* Image mosaics used for change detection are cloud-masked, orthorectified, corrected for atmospheric conditions, and reflectance standardised using the Ecosat algorithms documented in Dymond et al, (2001), Shepherd and Dymond (2003) and Dymond and Shepherd (2004). In order to estimate rates of deforestation for a calendar year, two mosaics of multispectral satellite imagery with shortwave-Infrared bands (such as SPOT 5, Landsat 7, Landsat 8 and Sentinel 2) are compiled (from capture as near as possible to the beginning of January of Year A and Year B respectively). Matching spectral bands from the two mosaics are compared in a stack to detect change. Manual quality control checking is performed to remove false-positives arising from small clouds or image mis-registration (Newsome et al, 2018). A nominal year of clearing is automatically derived, but may receive manual correction during the land use intention classification stage.

\*Classification\* Detection and classification of non-anthropogenic change is a by-product of attempting to find the directly anthropogenic (human-induced) change that is applicable to the LUCAS Land Use Map. The determination that a change is non-anthropogenic is usually made by judging context and pattern visible in satellite imagery. However, when higher resolution aerial imagery becomes available following the clearing event, it can often be useful in confirming the classification.

## Metadata Constraints

### Legal Constraints

#### Use Limitation

Attribution 4.0 International

#### Use Limitation

<https://creativecommons.org/licenses/by/4.0/>

#### Use Constraints

##### Restriction Code

license