



Prediction of wetlands before humans arrived

Metadata

File Identifier

29a33219-1368-f0f4-c905-d1e7dfab53e9

Language

eng

Character Set

Character Set Code

utf8

Hierarchy Level

Scope Code

dataset

Hierarchy Level Name

dataset

Contact

Responsible Party

Organisation Name

Environmental Reporting, Ministry for the Environment and Statistics New Zealand

Position Name

Analyst

Contact Info

Contact

Address

Address

Delivery Point

23 Kate Sheppard Place, PO Box 10362

City

Wellington 6143

Country

New Zealand

Electronic Mail Address

Environmental.Reporting@mfe.govt.nz

Role

Role Code

distributor

Date Stamp

Date

2016-01-21

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

Prediction of wetlands before humans arrived

Date

Abstract

"Wetlands support unique biodiversity and provide important services. They clean water of nutrients and sediment, help dampen floods, provide habitat, and act as carbon sinks. They are also valued for their spiritual and cultural significance and as important sources of food and materials, such as flax. Draining them for agricultural and urban development has reduced their extent. Understanding this reduction provides insight into the loss of biodiversity and natural function. This dataset relates to the ""Wetland extent"" measure on the Environmental Indicators, Te taiao Aotearoa website. "

Status

Progress Code

completed

Point Of Contact

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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

WATER

Keyword

WATER-Wetlands

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

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Access Constraints

Restriction Code

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Restriction Code

license

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

166.429149911178.542648017-47.2550214171-34.4167566854

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/52677-prediction-of-wetlands-before-humans-arrived/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Source: Landcare Research Method: "Freshwater wetlands in New Zealand include permanently or intermittently wet areas, shallow water or land/water margins that support a natural community of plants and animals adapted to living in wet conditions (Resource Management Act 1991). They occur in a wide variety of locations ranging from estuaries to mountain tops. The current (2008) and predicted pre-human extent of wetlands were mapped at 1:50,000 to a minimum size of 0.5ha. Seven classes of wetlands were mapped according to their function. Fuzzy expert rules were used to identify: bog, fen, inland saline, marsh, pakihi/gumland, seepage, and swamp based on Johnson and Gerbeaux (2004). Ephemeral wetlands, saltmarsh, and shallow water wetlands were not mapped. The historic extent was predicted from the national Fundamental Soil Layers (FSL) database, and refined using a 15m digital elevation model derived from digital 20m contours. Geographical Information System (GIS) rules were used to identify wetland soils based on the soil survey descriptions that included drainage properties, presence of peat, and the presence of wetland vegetation. Soil drainage is divided into five classes in the FSL, from poorly drained (class 1) to well-drained soils (class 5). Soils in classes three to one were considered to have a high probability of having been wetland. The current extent was mapped using 26 Landsat Enhanced Thematic Mapper (ETM+) satellite imagery and wetland point and polygon data collated from recent surveys, field work or photo-interpretation held by local and central government. Point and polygon data were checked against the satellite imagery and the wetland boundaries corrected or delineated using the imagery (Ausseil et al 2008). The accuracy of the data source is of medium quality. References: Ausseil, A-GE, Gerbeaux, P, Chadderton, WL, Stephens, T, Brown, DJ, & Leathwick, J (2008). Wetland ecosystems of national importance for biodiversity: Criteria, methods and candidate list of nationally important inland wetlands. Landcare Research Contract Report LC0708/158 for the Department of Conservation. Johnson, P & Gerbeaux, P (2004). Wetland types in New Zealand. Available from www.doc.govt.nz. Resource Management Act (1991). Available from www.legislation.govt.nz. "

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