



Wetland extent, 2001-16

Metadata

File Identifier

1b1a12d9-0695-6f80-f4c9-963ec66a8a6e

Language

eng

Hierarchy Level Name

dataset

Contact

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Date Stamp

Date Time

20170721

Metadata Standard Name

ISO 19115:2003/19139

Metadata Standard Version

1.0

Spatial Representation Info

Vector Spatial Representation

Integer

14632

Identification Info

Data Identification

Citation

Citation

Title

WONI wetland loss 2003-2016

Alternate Title

New Zealand (WONI) wetlands reviewed for inaccuracy, or loss between 2003 and 2016

Cited Responsible Party

Responsible Party

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Abstract

The Environmental Reporting Act 2015 creates a joint obligation on MfE and Statistics NZ for

regular national reporting on New Zealand's environment through synthesis and domain reports. To date, reporting of wetlands has simply compared extent in 2008 with pre-human extent (Environment Aotearoa 2015). To improve the currency of wetland reporting, MfE has contracted Landcare Research to produce an analysis of wetland loss for the period 2005–2016, reported by region. This is a desktop solution involved a visual comparison of the WONI wetlands, as mapped for 2001/02 from Landsat imagery, against 2016 Sentinel-2 satellite imagery. Although this visual inspection was insufficient to capture deterioration in the condition of wetlands, it was sufficient to detect disappearance of wetlands and reduction in their extent with reasonable confidence. Supplementary comments were also made if wetland polygons were seen to be inaccurate or erroneous. Seventy-six percent of the wetlands, comprising a little over half the total national area identified by WONI as wetlands, were recorded as unchanged. Only 214 wetlands (1.5% of the national total) were no longer present. However, 746 (5%) of the WONI wetlands were recorded as partially lost. Six percent of the wetland polygons appeared to be errors. In addition, 11.5% were flagged as correct but in need of improvements in the polygon line work.

Purpose

This layer is a compilation of wetland outer boundaries (as depicted by WONI Ausseil et.al. 2008) intersected with Regional Council (2017) boundaries, with attributes indicating wetland intactness or loss in the period 2003-2016, or inaccuracies in original mapping. It arises from a review of WONI polygon outlines undertaken by Landcare Research to semi-quantify wetland loss to satisfy the national reporting needs of the Ministry for the Environment.

Credit

Stella Belliss, Landcare Research James Shepherd, Landcare Research

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Resource Format**Format****Name**

*.xml

Version

Unknown

Resource Constraints**Legal Constraints****Use Limitation**

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Representative Fraction**Denominator****Integer**

10000

Language

eng

Topic Category Code

environment

Topic Category Code

inlandWaters

Topic Category Code

boundaries

Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.1.3497

Extent

EX_ Extent

Description

New Zealand and near offshore islands (excluding Kermadec, Chatham, and sub-antarctic islands)

Extent

EX_ Extent

Geographic Element

EX_ Geographic Bounding Box

166.559037236178.516525494-47.2550214171-34.4126910882

Distribution Info

Distribution

Distributor

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Transfer Options

Digital Transfer Options

Transfer Size

Real

25.968

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/95347-wetland-extent-2001-16/>

Data Quality Info

DQ _ Data Quality

Lineage

LI _ Lineage

Statement

Wetland outer boundaries (as depicted by WONI (Ausseil et.al. 2008)) were generated by dissolving internal differentiation arising from evidential and classification data to simply depict wetland outlines, attributed as Wetland = 'yes' Wetlands outlines (of nominally 2003 date) were visually compared with summer 2015/2016 Sentinel 2 imagery and tagged according to whether there has been no loss, partial loss, or complete loss of area, or whether the polygons were either poorly delineated or original error. This layer was finally intersected with 2017 Regional Council boundaries for analysis and reporting.

Metadata Constraints

Legal Constraints

Use Limitation

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Use Limitation

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Use Constraints

Restriction Code

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