



## Ocean and coastal extreme waves (4m), 2009

### Metadata

#### File Identifier

43821b64-e178-caee-8b56-7d80b24b0618

#### Language

eng

#### Character Set

##### Character Set Code

utf8

#### Hierarchy Level

##### Scope Code

series

#### Hierarchy Level Name

series

### Contact

#### Responsible Party

##### Organisation Name

Stats NZ

#### Contact Info

##### Contact

##### Address

##### Address

##### Country

Australia

#### Role

##### Role Code

pointOfContact

### Date Stamp

#### Date

2019-10-14

### 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

4326

## Identification Info

### Data Identification

#### Citation

##### Citation

##### Title

Ocean and coastal extreme waves (4m), 2009

##### Date

##### Date

##### Date

### Abstract

These data estimate the occurrence of extreme wave events in coastal and oceanic waters for 2009, particularly for wave events where significant wave height exceeds a threshold of 4 metres and for a period of at least 12 hours. Significant wave height is defined as four times the square root of the variance of sea surface elevation due to wave motion.

### Purpose

The data have been commissioned from NIWA in order to quantify the occurrence of extreme wave events in New Zealand on an annual basis. However, it is apparent that NIWA's primary reason for collecting these data is to develop as accurate a picture as possible of what is happening at present with extreme waves. I.e. while it is possible to compare data over time to create a longer-term series of data on extreme waves - data are not completely comparable over time because the resolution of data has increased over time (allowing more and more accuracy of data over time - but reducing long-term comparability). NIWA has advised that international data maybe available that provides a longer time series of extreme wave events (at lower resolution). Further work is needed to look into this.

### Status

#### Progress Code

completed

### Point Of Contact

#### Responsible Party

##### Organisation Name

Stats NZ

#### Contact Info

##### Contact

##### Address

##### Address

##### Country

New Zealand

#### Role

##### Role Code

publisher

### Resource Maintenance

#### Maintenance Information

##### Maintenance And Update Frequency

##### Maintenance Frequency Code

asNeeded

### 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

CLIMATE-AND-WEATHER

Keyword

CLIMATE-AND-WEATHER-Meteorology

Keyword

CLIMATE-AND-WEATHER-Extreme-weather-events

Keyword

MARINE-Meteorology

Keyword

MARINE-Coasts

Keyword

OCEANOGRAPHY

Keyword

OCEANOGRAPHY-Physical

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

Security Constraints

Classification

Classification Code

unclassified

Resource Constraints

Legal Constraints

Use Limitation

Creative Commons Attribution 4.0 International

Use Constraints

Restriction Code

license

Spatial Representation Type Code

grid

12

Language

eng

Character Set

Character Set Code

utf8

Topic Category Code

climatologyMeteorologyAtmosphere

Topic Category Code

oceans

Topic Category Code

environment

Extent

EX\_ Extent

Geographic Element

EX\_ Geographic Bounding Box

143.2617184.6289-54.49219-20.82031

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/104076-ocean-and-coastal-extreme-waves-4m-2009/>

Data Quality Info

DQ\_ Data Quality

Scope

DQ\_ Scope

Level

Scope Code

series

Level Description

Scope Description

Other

series

Lineage

LI\_ Lineage

Statement

This index was generated using NIWA's operational wave forecasting model NZWAVE-12 (Gorman, 2016). This model has a 12-kilometre resolution and models wave heights. The model was created using: • wind from NIWA's NZLAM-12 weather forecast model • swell from NIWA's global wave forecast model We use a duration threshold of 12 hours as it allows semi-diurnal tides to cover their full low water to high water range. This means that there was both a high tide (when overtopping and damage to coastal infrastructure, for example, is most likely) and a low tide during an event. Gorman, R (2016). Extreme wave indices for New Zealand coastal and oceanic waters. NIWA Client Report HAM2016-014 prepared for the Ministry for the Environment.

Metadata Constraints

Security Constraints

Classification

Classification Code

unclassified

Metadata Constraints

Legal Constraints

Use Limitation

Attribution 4.0 International

Use Limitation

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

Use Constraints  
Restriction Code  
license