



Average sea-surface temperature, 1993–2012

Metadata

File Identifier

782c0cb3-dbb4-e23e-a6b9-14c5b8f2d63a

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
2016-01-26

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
Average sea-surface temperature, 1993–2012
Date

Abstract

"The ocean waters surrounding New Zealand vary in temperature from north to south. They interact with heat and moisture in the atmosphere and affect our weather. Long-term changes and short-term variability in sea-surface temperatures can affect marine processes, habitats, and species. Some species may find it hard to survive in changing environmental conditions. This grid shows average annual sea-surface temperature for years 1993 to 2013. NIWA's sea-surface temperature archive is derived from the Advanced Very High Resolution Radiometer (AVHRR) satellite data it receives from the National Oceanic and Atmospheric Administration. The archive provides high spatial (approximately 1km) and high temporal (approximately 6-hourly in cloud-free locations) resolution estimates of sea-surface temperatures over the New Zealand region, dating from January 1993. Uddstrom and Oien (1999) and Uddstrom (2003) describe the methods used to derive and validate the data. This dataset relates to the "Annual average sea-surface temperature" measure on the Environmental Indicators, Te taiao Aotearoa website. Further information can be found in: Uddstrom, MJ (2003). Lessons from high-resolution satellite SSTs. Bulletin of the American Meteorological Society, 84(7), 896–897. Uddstrom, MJ, & Oien, NA (1999). On the use of high resolution satellite data to describe the spatial and temporal variability of sea surface temperatures in the New Zealand region. Journal of Geophysical Research (Oceans) 104, chapter 9,

20729-20751. "

Status

Progress Code

completed

Point Of Contact

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Role

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distributor

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

| CLIMATE-AND-WEATHER

Keyword

| CLIMATE-AND-WEATHER-Climate-change

Keyword

| CLIMATE-AND-WEATHER-Temperature

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 3.0 New Zealand by Ministry for the Environment

Access Constraints

Restriction Code

license

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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

119.03471377149.6521064455.914409567569.6126839709

Distribution Info

Distribution

Transfer Options

Digital Transfer Options

On Line

Online Resource

Linkage

URL

<https://data.mfe.govt.nz/layer/53316-average-seasurface-temperature-19932012/>

Data Quality Info

DQ _ Data Quality

Scope

DQ _ Scope

Level

Scope Code

dataset

Level Description

Scope Description

Other

dataset

Lineage

LI _ Lineage

Statement

Source: National Institute for Water and Atmospheric Research Method: "The yearly average temperature at the surface of the ocean as inferred from satellite data. The NIWA sea surface temperature archive (NSA) is derived from NOAA satellite Advanced Very High Resolution Radiometer (AVHRR) data received by NIWA. It provides high spatial (approximately 1km) and high temporal (approximately 6 hourly in cloud free locations) resolution estimates of sea surface temperatures over the New Zealand region, dating from January 1993. The methods used to derive and validate the NSA are given in Uddstrom and Oien (1999), and Uddstrom (2003). The New Zealand region includes our exclusive economic zone (EEZ), the Chatham Rise, northern subtropical waters, sub Antarctic waters, and the Tasman Sea. It goes from around 30S to 55S, 160E-170W. This data set has been selected as it is representative of the New Zealand region, and the spatial variability of temperature around New Zealand's waters. Globally, oceans have absorbed

30 Units: percent of the warming caused by global greenhouse gas emissions. The accuracy of the data source is of high quality. The data was supplied as a point grid created in Lambert conformal projection and converted to a 0.02 degree raster. "

Metadata Constraints

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