

# CATALOGUE FOR THE 123 PORTAL (AUSTRALIAN OCEAN DATA NETWORK)

## IMOS - SRS - MODIS - 01 day - Chlorophyll-a concentration (GSM model)

[Metadata](#) | [Metadata \(XML\)](#)  
|

Title	IMOS - SRS - MODIS - 01 day - Chlorophyll-a concentration (GSM model)
Date	2014-04-03T00:00:00
Date type	Creation
Abstract	<p>The Aqua satellite platform carries a MODIS sensor that observes sunlight reflected from within the ocean surface layer at multiple wavelengths. These multi-spectral measurements are used to infer the concentration of chlorophyll-a (Chl-a), most typically due to phytoplankton, present in the water.</p> <p>The data are produced from the near real time (nrt) data stream formed by combining data from all the available direct broadcast reception stations in Australia (Alice Springs, Melbourne, Townsville, Perth, Hobart) supplemented by delayed-mode data from NASA in the US. The granules have been remapped from satellite projection into a geographic (Latitude/ Longitude axes) projection and are presented as a sequence of daily mosaics covering the region (80 &lt;= Longitude &lt;= 180, -60 &lt;= Latitude &lt;= +10) formatted as CF-compliant netCDF files. It should be noted that the data are not processed until the definitive spacecraft ephemeris becomes available, usually 12-24 hours after the overpass. This means that the geolocation should be of a uniformly high standard.</p> <p>There are multiple retrieval algorithms for estimating Chl-a. These data use the Garver-Siegel-Maritorena (GSM) method implemented in the SeaDAS processing software I2gen and described in “Chapter 11, and references therein, of IOCCG Report 5, 2006, (<a href="http://ioccg.org/wp-content/uploads/2015/10/ioccg-report-05.pdf">http://ioccg.org/wp-content/uploads/2015/10/ioccg-report-05.pdf</a>). The radiometric sensitivity of the MODIS sensor is evolving continuously during its mission and is monitored regularly by NASA. The SeaDAS software uses tables of calibration coefficients that are updated periodically. From time to time upgrades to the algorithms and/or the format of the calibration tables are required, in which case a new version of SeaDAS is released. These data were initially being produced using SeaDAS 6.4 and more recently, with SeaDAS 7.x.</p> <p>The filenames are of the form Ayyyymmdd.vv.aust.chl_gsm01.nc4, where 'A' denotes MODIS/ Aqua, 'yyyymmdd' is the GMT date of the mosaic, 'vv' is the SeaDAS processing version, 'aust' indicates a whole-of-Australia mosaic and the 'nc4' suffix is for netCDF4 format data files.</p>

Metadata language	eng
Character set	UTF8
Hierarchy level	Dataset

### OnLine resource

Linkage	<a href="https://catalogue-imos.aodn.org.au:443/geonetwork/srv/en/metadata.show?uuid=f73daf07-eb81-4995-a72a-ca903834509f">https://catalogue-imos.aodn.org.au:443/geonetwork/srv/en/metadata.show?uuid=f73daf07-eb81-4995-a72a-ca903834509f</a>
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	<a href="http://thredds.aodn.org.au/thredds/catalog/IMOS/SRS/OC/gridded/aqua/catalog.html">http://thredds.aodn.org.au/thredds/catalog/IMOS/SRS/OC/gridded/aqua/catalog.html</a>
Protocol	WWW:LINK-1.0-http--link
Linkage	<a href="http://imos.org.au/srs.html">http://imos.org.au/srs.html</a>
Protocol	WWW:LINK-1.0-http--link
Linkage	<a href="https://portal.aodn.org.au/search?uuid=f73daf07-eb81-4995-a72a-ca903834509f">https://portal.aodn.org.au/search?uuid=f73daf07-eb81-4995-a72a-ca903834509f</a>
Protocol	WWW:LINK-1.0-http--link

Linkage	http://geoserver-123.aodn.org.au/geoserver/ncwms
Protocol	IMOS:NCWMS--proto
Linkage	https://processes.aodn.org.au/wps
Protocol	OGC:WPS--gogoduck
Linkage	https://help.aodn.org.au/web-services/gogoduck-aggregator/
Protocol	WWW:LINK-1.0-http--link

Point of contact

Individual name	King, Edward
Organisation name	CSIRO Oceans and Atmosphere - Hobart
Position name	Facility Leader
Role	Resource provider
Topic category	Oceans

Keyword

Keyword	Oceans   Ocean Optics   Ocean Color
Keyword	Oceans   Ocean Chemistry   Chlorophyll
Type	Theme
Keyword	Ocean Colour Sub-Facility, Integrated Marine Observing System (IMOS)
Type	Discipline
Keyword	Global / Oceans   Indian Ocean
Keyword	Global / Oceans   Southern Ocean
Keyword	Global / Oceans   Pacific Ocean
Keyword	Marine Features (Australia)   Great Australian Bight, SA/WA
Keyword	Marine Features (Australia)   Bass Strait, TAS/VIC
Keyword	Regional Seas   Tasman Sea
Keyword	Regional Seas   Timor Sea
Keyword	Regional Seas   Solomon Sea
Keyword	Regional Seas   Coral Sea
Keyword	Regional Seas   Arafura Sea
Keyword	Regional Seas   Banda Sea
Keyword	Regional Seas   Java Sea
Keyword	Regional Seas   Celebes Sea
Keyword	Regional Seas   Philippine Sea
Type	Place
Keyword	Countries   Australia
Keyword	Countries   New Zealand
Keyword	States, Territories (Australia)   Western Australia
Keyword	States, Territories (Australia)   South Australia
Keyword	States, Territories (Australia)   Victoria
Keyword	States, Territories (Australia)   Tasmania
Keyword	States, Territories (Australia)   New South Wales
Keyword	States, Territories (Australia)   Northern Territory

Keyword	States, Territories (Australia)   Queensland
Keyword	Countries   Papua New Guinea
Keyword	Countries   Indonesia
Keyword	Countries   Timor-Leste
Keyword	Countries   Malaysia
Keyword	Countries   New Caledonia
Keyword	Countries   Fiji
Keyword	Countries   Vanuatu
Keyword	Countries   Philippines
Type	Place

## Extent

### Geographic bounding box

West bound	75
East bound	179.9
South bound	-70
North bound	10

## Lineage

Statement	<p>****NETCDF FILENAMING CONVENTION FOR AQUA FILES****</p> <p>The filenamesing scheme puts a lot of useful metadata into the filename with the aim of making it easy to parse by machine and eye.</p> <p>Folder D-20120802.G-0720.P-aqua.C-20120802082919.T-d263047n000000.S-m.E-definitive.Z-ok.R-20120802185051/ --</p> <p>Folder D-20120802.G-0715.P-aqua.C-20120802111359.T-d549724n000000.S-mn.E-definitive.Z-ok.R-20120802185343/ --</p> <p>Folder D-20120802.G-0710.P-aqua.C-20120802111224.T-d549724n000000.S-mn.E-definitive.Z-ok.R-20120802185344/ --</p> <p>Folder D-20120802.G-0545.P-aqua.C-20120802101905.T-d549724n000000.S-na.E-definitive.Z-ok.R-20120802185437/ --</p> <p>Folder D-20120802.G-0540.P-aqua.C-20120802101900.T-d549724n000000.S-cmna.E-definitive.Z-ok.R-20120802185314/ --</p> <p>Folder D-20120802.G-0535.P-aqua.C-20120802101855.T-d549724n000000.S-cmna.E-definitive.Z-ok.R-20120802185436/ --</p> <p>Folder D-20120802.G-0405.P-aqua.C-20120802084036.T-d549724n000000.S-qna.E-definitive.Z-ok.R-20120802185313/ --</p> <p>Folder D-20120802.G-0400.P-aqua.C-20120802084028.T-d549724n000000.S-cqna.E-definitive.Z-ok.R-20120802185314/</p> <p>Split the names on ‘.’, and then you have NAME-VALUE pairs where</p> <p>D = GMT Date  G = GMT Acquisition  P = Platform  C = Creation date/time (yyyymmddhhmmss)  T = number of modis packet types (d=day packets, n=night packets)  S = contributing reception stations (a=Alice Springs, c=Crib Pt, m=Murdoch, q=AIMS, n=NASA DAAC)  E = Ephemeris (predicted or definitive)  Z = L1B processing status (should always be ok for these data)  R = date/time of processing of L2 Chl granule (but I forget what R stands for)</p>
-----------	--

## Resource constraints

Use limitation	Data, products and services from IMOS are provided "as is" without any warranty as to fitness for a particular purpose.
File identifier	f73daf07-eb81-4995-a72a-ca903834509f

Metadata language	eng
Character set	UTF8

**Metadata author**

Organisation name	Integrated Marine Observing System (IMOS)
Role	Distributor
Date stamp	2018-07-19T16:01:15