

CATALOGUE FOR THE 123 PORTAL (AUSTRALIAN OCEAN DATA NETWORK)

IMOS - SRS - MODIS - 01 day - Chlorophyll-a concentration (OC3 model)

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Title	IMOS - SRS - MODIS - 01 day - Chlorophyll-a concentration (OC3 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 <= Longitude <= 180, -60 <= Latitude <= +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 OC3 method recommended by the NASA Ocean Biology Processing Group and implemented in the SeaDAS processing software l2gen. The OC3 algorithm is described at http://oceancolor.gsfc.nasa.gov/cms/atbd/chlor_a (and links therein). 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_oc3.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	https://catalogue-imos.aodn.org.au:443/geonetwork/srv/en/metadata.show?uuid=d7a14921-8f3f-4522-9a54-e7d1df969c8a
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	http://thredds.aodn.org.au/thredds/catalog/IMOS/SRS/OC/gridded/aqua/catalog.html
Protocol	WWW:LINK-1.0-http--link
Linkage	http://imos.org.au/srs.html
Protocol	WWW:LINK-1.0-http--link
Linkage	https://portal.aodn.org.au/search?uuid=d7a14921-8f3f-4522-9a54-e7d1df969c8a
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 Coral Sea
Keyword	Regional Seas Arafura Sea
Keyword	Regional Seas Solomon Sea
Keyword	Regional Seas Timor Sea
Keyword	Regional Seas Banda Sea
Keyword	Regional Seas Java Sea
Keyword	Regional Seas Philippine Sea
Keyword	Regional Seas Celebes 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>
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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	d7a14921-8f3f-4522-9a54-e7d1df969c8a

Metadata language	eng
Character set	UTF8

Metadata author

Organisation name	Integrated Marine Observing System (IMOS)
Role	Distributor
Date stamp	2018-07-19T15:59:15