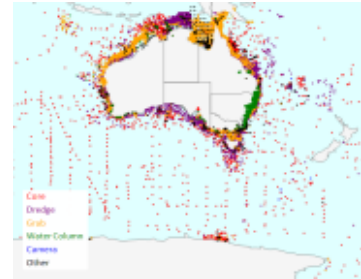


**Marine Sediments database (MARS) (GA)**


[Metadata](#) | [Metadata \(XML\)](#)  
[Visualization service URL \(WMS\) \(\)](#) |

Title	Marine Sediments database (MARS) (GA)
Date	2011-04-13
Date type	Publication

Abstract	<p>The MARine Sediment (MARS) database contains detailed information on seabed sediment characteristics for samples collected from Australia's marine jurisdiction, including the Australian Antarctic Territory. It also includes the Great Barrier Reef (GBR). It is an important scientific resource that includes survey and sample information such as locations, water depths and sample descriptions. Data are also provided from quantitative analyses of the sediments, such as grain size, mud, sand, gravel and carbonate concentrations, mineralogy, age determinations, geochemical properties, and physical attributes for down-core samples including bulk density, p-wave velocity, porosity and magnetic susceptibility. Images and graphics are presented, where available. MARS currently holds &gt;40,000 sample and sub-sample records, and approximately 200,000 records describing the characteristics of these samples. New data are being added as they become available.</p> <p>It includes: Core, Dredge, Grab, Water, Column and Camera samples.</p> <p>Format:        Data can be downloaded in CSV format for:</p> <ul style="list-style-type: none"> <li>- All sample data,</li> <li>- CaCO<sub>3</sub> as mud/sand/gravel/bulk,</li> <li>- CaCO<sub>3</sub> +grain size as mud/sand/gravel/[bulk mean],</li> <li>- Grain size as mud/sand/gravel/mean,</li> <li>- Grain size for laser,</li> <li>- Grain size all,</li> <li>- Minerals with method of ICP-MS/XRF</li> <li>- Salinity.</li> </ul> <p>The full database is a 500 MB CSV.</p> <p>For the eAtlas the "CaCO<sub>3</sub> +grain size as mud/sand/gravel/[bulk mean]" CSV file was downloaded and converted to a shapefile for visualisation. This is available for download from this record.</p> <p>This metadata is not an authoritative source and was developed for the eAtlas. Please check or contact Geoscience Australia for authoritative metadata. The original data is available for download via the Marine Sediments (MARS) Database Search (<a href="http://www.ga.gov.au/oracle/mars/">http://www.ga.gov.au/oracle/mars/</a>).</p> <p>The full database contains samples of the following type (this list is taken for data from 2010 - 2015):</p> <p>PROPERTY UOM        Ag ppm        Al mg/kg        Al<sub>2</sub>O %        Al<sub>2</sub>O<sub>3</sub> w%</p>
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Al<sub>2</sub>O<sub>3</sub> %  
As ppm  
As mg/kg  
Authigenic-P umol/g  
Ba ppm  
Be ppm  
Bi ppm  
Ca mg/kg  
CaCO<sub>3</sub> %  
CaO w%  
CaO %  
carbonate content %  
Cd ppm  
Cd mg/kg  
Ce ppm  
Chlorin index  
Chlorophyll a ug/g  
Chlorophyll b ug/g  
Chlorophyll c ug/g  
Cl ppm  
Co mg/kg  
Co ppm  
Cr mg/kg  
Cr ppm  
Cs ppm  
Cu mg/kg  
Cu ppm  
delta 13C o/oo  
delta 15N o/oo  
Detrital-P umol/g  
Dy ppm  
Er ppm  
Eu ppm  
Fe mg/kg  
Fe<sub>2</sub>O<sub>3</sub> %  
Fe<sub>2</sub>O<sub>3</sub>TOT w%  
Ga ppm  
Ga mg/kg  
Gd ppm  
Ge ppm  
grain size %  
grain size um  
grain size No unit  
grain size m<sup>2</sup>/g  
Hf ppm  
Ho ppm  
K<sub>2</sub>O w%  
K<sub>2</sub>O %  
La ppm  
Lu ppm  
Mg mg/kg  
MgO w%  
MgO %  
MINERAL w%  
MLOI w%  
Mn mg/kg  
MnO w%  
MnO %  
Mo ppm  
Mo mg/kg  
Na<sub>2</sub>O w%  
Na<sub>2</sub>O %  
Nb ppm  
Nd ppm  
Ni mg/kg  
Ni ppm  
O<sub>2</sub> mmol/m<sup>2</sup>/d  
Organic-P umol/g  
Oxide Associated-P umol/g

P mg/kg  
 P2O5 w%  
 P2O5 %  
 Pb ppm  
 Pb mg/kg  
 pH  
 Phaeophytin ug/g  
 porosity %  
 Pr ppm  
 Rb ppm  
 S mg/kg  
 salinity  
 Sb ppm  
 Sc ppm  
 Sc %  
 Se mg/kg  
 SiO2 w%  
 SiO2 %  
 Sm ppm  
 Sn ppm  
 SO3 w%  
 SO3 %  
 SOD %/g/d  
 specific surface area m2/g  
 Sr ppm  
 Ta ppm  
 Tb ppm  
 TCO2 mmol/m2/d  
 Th ppm  
 TiO2 w%  
 TiO2 %  
 TKN %  
 TN %  
 TOC %  
 Total sediment metabolism umol/cm3/d  
 Total sediment metabolism umol/g/d  
 U ppm  
 V mg/kg  
 V ppm  
 W ppm  
 Water temperature degC  
 Y ppm  
 Yb ppm  
 Zn mg/kg  
 Zn ppm  
 Zr ppm

Metadata language	eng
Character set	UTF8
Hierarchy level	Dataset

### OnLine resource

Linkage	<a href="https://eatlas.org.au/data/uuid/865e5c88-b2db-44a4-a0d7-d0299141bbf6">https://eatlas.org.au/data/uuid/865e5c88-b2db-44a4-a0d7-d0299141bbf6</a>
Protocol	WWW:LINK-1.0-http--metadata-URL
Linkage	<a href="https://eatlas.org.au/data/uuid/71127e4d-9f14-4c57-9845-1dce0b541d8d">https://eatlas.org.au/data/uuid/71127e4d-9f14-4c57-9845-1dce0b541d8d</a>
Protocol	WWW:LINK-1.0-http--related
Linkage	<a href="http://dbforms.ga.gov.au/pls/www/npm.mars.search">http://dbforms.ga.gov.au/pls/www/npm.mars.search</a>
Protocol	WWW:LINK-1.0-http--downloaddata
Linkage	<a href="https://maps.eatlas.org.au/maps/wms">https://maps.eatlas.org.au/maps/wms</a>
Protocol	OGC:WMS-1.1.1-http-get-map

Linkage	<a href="https://eatlas.org.au/pydio/data/public/au_ga_marine-sediment-mars_caco3-grain-size-as-mud-sand-gravel-bulk_2015_shp-csv-txt_zip.php">https://eatlas.org.au/pydio/data/public/au_ga_marine-sediment-mars_caco3-grain-size-as-mud-sand-gravel-bulk_2015_shp-csv-txt_zip.php</a>
Protocol	WWW:LINK-1.0-http--downloaddata
Linkage	<a href="https://maps.eatlas.org.au/index.html?intro=false&amp;z=7&amp;ll=148.44495,-17.39295&amp;l0=ea_other-2015%3AAU_GA_Marine-sediment-MARS_CaCO3-grain-size-as-mud-sand-gravel-bulk_2015,ea_ea-be%3AWorld_Bright-Earth-e-Atlas-basemap,google_HYBRID,google_TERRAIN,google_SATELLITE,google_ROADMAP&amp;v0=,,f,f,f,f">https://maps.eatlas.org.au/index.html?intro=false&amp;z=7&amp;ll=148.44495,-17.39295&amp;l0=ea_other-2015%3AAU_GA_Marine-sediment-MARS_CaCO3-grain-size-as-mud-sand-gravel-bulk_2015,ea_ea-be%3AWorld_Bright-Earth-e-Atlas-basemap,google_HYBRID,google_TERRAIN,google_SATELLITE,google_ROADMAP&amp;v0=,,f,f,f,f</a>
Protocol	WWW:LINK-1.0-http--related

## Point of contact

Individual name	
Organisation name	Geoscience Australia
Role	Point of contact
Topic category	Oceans

## Extent

Description	Australian Waters
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## Geographic bounding box

West bound	100.1953125
East bound	179.296875
South bound	-74.8828125
North bound	-5.625

File identifier	865e5c88-b2db-44a4-a0d7-d0299141bbf6
Metadata language	eng
Character set	UTF8

## Metadata author

Individual name	eAtlas Data Manager
Organisation name	Australian Institute of Marine Science (AIMS)
Role	metadataContact
Date stamp	2021-06-21T11:35:36