



# ***MEDI PILOT PROJECT***

## **MARINE METADATA DIRECTORY**

## **METADATA ELEMENTS**



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**Category:** Dataset

**Element:** DATASET NAME

**Definition of Element:**

This is the name given to the dataset by the custodial organisation. It should convey a clear impression of the information contained in the dataset and should be in plain language, preferably not solely in acronym form. The objective of this element is to provide a unique reference to the dataset.

**Allowable Content:**

The title of the dataset should be easily understood by a general user and should be as descriptive as possible. The use of acronyms only to describe a dataset should not be used.

**Format Rules:** A descriptive name should be used in preference to acronyms unless the acronym name is commonly used and widely recognised by the public.

**Field Type:** Text

**Field Length:** Maximum 255 characters

**Examples:**

Example 1: Bathymetry of the Gulf of Carpentaria and the Arafura Sea

Example 2: RAN Mk12 XBT Temperature Profile Data

**Category:** Dataset

**Element:** CUSTODIAN

**Definition of Element:**

The custodian is the organisation responsible for ensuring the accuracy, currency, storage, security and distribution of the dataset.

The custodian of a dataset need not necessarily be the holder of the copyright, or the originator of the data, although in many cases the custodian will be both of these.

A custodian is not necessarily a government agency. A private organisation or an individual can be a custodian.

**Allowable Content:**

Use the full name of the organisation.

If the organisation is also known by a common acronym, include this at the end of the full name.

If the organisation is normally known only by an acronym this can be used on its own.

**Format Rules:** The ordinary name of the custodian organisation followed where relevant by its acronym in round brackets.

**Field Type:** Text

**Field Length:** Maximum 120 characters

**Examples:**

Example 1: Australian Oceanographic Data Centre

Example 2: CSIRO Division of Marine Research

**Category:** Dataset

**Element:** JURISDICTION

**Definition of Element:**

The jurisdiction is the name of the State or Country in which the custodian of the dataset is located. The current list contains all IODE member countries.

If the custodian is a private company, institution, individual or other non-government agency, use the name of the jurisdiction most relevant to its activities.

**Allowable Content:**

Argentina	Australia	Brazil	Bulgaria
Canada	Chile	China	Colombia
Croatia	Cyprus	Ecuador	Egypt
Finland	France	Georgia	Germany
Ghana	Greece	Guatemala	Guinée
Iceland	India	Iran	Ireland
Italy	Japan	Kenya	Korea (DPR)
Korea (Rep.)	Malaysia	Mexico	Morocco
Mozambique	Netherlands	Nigeria	Norway
Pakistan	Peru	Philippines	Poland
Portugal	Romania	Russia	Seychelles
South Africa	Spain	Sri Lanka	Sweden
Tanzania	Trinidad & Tobago	Turkey	Ukraine
United Kingdom	United States	Uruguay	Venezuela
Vietnam			

**Format Rules:** Full name of the jurisdiction. Only one jurisdiction name can be selected.

**Field Type:** Text

**Field Length:** Maximum 100 characters

**Examples:** See Allowable Content.

**Category:** Description

**Element:** ABSTRACT

**Definition of Element:**

This is a brief description of the dataset and its content. It may be a brief narrative, a summary or an abstract.

Other material which may be entered include a description of the purpose for which the dataset was created, and a textual description of the spatial extent of the data contained in the dataset.

**Allowable Content:**

The Abstract should describe the contents of the dataset in plain language for a non-expert user.

**Format Rules:** Free text.

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Examples:**

Example 1:

The Bathymetry of the Gulf of Carpentaria and the Arafura Sea, Edition 1, is a dataset that contains digital bathymetric information of the Gulf of Carpentaria and the Arafura Sea, Australia, Papua New Guinea, and Indonesia. The digital data in this database are the latitude, longitude coordinates of the end points of vectors that represent bathymetric contours. Contours were hand drawn using digital systematic-survey soundings from the Royal Australian Navy Hydrographic Office and from a variety of other bathymetric contour maps.

Example 2:

The Water Quality Study of North Eastern NSW provides an information database and status report of water quality in the Tweed, Brunswick, Richmond and Clarence rivers. The information includes the water quality of these catchments in terms of their ecosystem protection value and agricultural water, potable water, recreational water, and industrial water uses. This project was funded by the Natural Resources Audit Council (NRAC).

**Category:** Description

**Element:** SEARCH WORDS

**Definition of Element:**

A set of general keywords relevant to the subject matter of the data, by which it is possible for a person not possessing expertise in the subject area to search for the dataset. It is possible to specify more than one keyword to describe the dataset fully, but only keywords in the predefined list are allowed. This list is orientated specifically towards marine and coastal subjects.

**Allowable Content:**

Acoustic	Air-Sea Interaction	Algae	Aquaculture
Atlas	Bacteria	Bathymetry	Beaches
Benthic	Bioassay	Biochemistry	Biodiversity
Birds	Catch and Effort	Climate Change	Coastal Processes
Coasts	Conservation	Coral	Currents
Cyclones	Demersal	Diagenesis	Dredging
Droughts	Ecology	Education	Engineering
Estuaries	Exploration	Facies	Fish
Fisheries	Floods	Genetics	Geochemistry
Gravity	Habitat	Heritage	Human Impact
Hydrography	Hydrology	Ice	Ice-Sea Interaction
Ichthyology	Industrial	Intertidal	Invertebrates
Isotopes	Lakes	Magnetics	Mammals
Management	Mangroves	Marine Facilities	Maritime Law
Mining	Monitoring	Nutrients	Oil Spills
Optics	Pelagic	Pharmacology	Phytoplankton
Pollution	Population	Productivity	Reef
Remote Sensing	Reptiles	Reserves	Resources
Salinity	Saltmarshes	Seabed Composition	Seagrasses
Sealevel	Seaweeds	Sediment-Water	Sedimentology
Seismics	Shipping	Socio-economic	Sound Speed
Storm Surges	Stratigraphy	Suspended Matter	Taxonomy
Temperature	Tides	Topography	Tourism
Tsunamis	Vegetation	Volcanics	Water Colour
Water Quality	Waves	Weather	Zooplankton

**Format Rules:** At least one search word must be used.

**Field Type:** Text

**Field Length:** Maximum 250 characters

Category:	Description
Element:	GEOGRAPHIC EXTENT NAME

**Definition of Element:**

The common use geographic names of pre-defined locations or regions covered by the dataset. These are based on the ocean and sea regions defined by the International Hydrographic Organisation (IHO). In most cases it is not possible, or intended, to define an area exactly. The user must make a judgment on the most appropriate area. If a marine area forms part of a larger area it is not necessary to include the larger area.

**Allowable Content:**

Adriatic Sea	Aegean Sea	Alboran Sea	Amery Ice Shelf
Amundsen Sea	Anadyrskiy Gulf	Andaman Sea	Arabian Sea
Arafura Sea	Arctic Ocean	Aru Sea	Atlantic Ocean
Baffin Bay	Balearic Sea	Bali Sea	Baltic Sea
Banda Sea	Barents Sea	Bass Strait	Bay of Bengal
Bay of Biscay	Bay of Fundy	Bay of Plenty	Beaufort Sea
Bering Sea	Bismarck Sea	Black Sea	Bo Sea
Bristol Channel	Broken Bay	Canarias Sea	Canterbury Bight
Caribbean Sea	Celebes Sea	Celtic Sea	Ceram Sea
Chukchi Sea	Coastal Waters of SE Alaska	Cockburn Sound	Cook Strait
Coral Sea	Davis Strait	Derwent Estuary	East China Sea
East Siberian Sea	Eastern Basin	English Channel	Exmouth Gulf
Flinders Bay	Flores Sea	Fouveau Strait	Geographe Bay
Great Australian Bight	Great Barrier Reef	Greenland Sea	Gulf of Aden
Gulf of Alaska	Gulf of Aqaba	Gulf of Berau	Gulf of Bone
Gulf of Bothnia	Gulf of California	Gulf of Carpentaria	Gulf of Finland
Gulf of Guinea	Gulf of Mannar	Gulf of Mexico	Gulf of Oman
Gulf of Panama	Gulf of Papua	Gulf of Riga	Gulf of St. Lawrence
Gulf of Suez	Gulf of Tartary	Gulf of Thailand	Gulf of Tomini
Gulf of Tonkin	Gulf St. Vincent	Halmahara Sea	Hawke Bay
Hudson Bay	Hudson Strait	Iceland Sea	Indian Ocean
Inner Seas off the West Coast of Scotland	Ionian Sea	Irish Sea and St. Georges Channel	Japan Sea
Java Sea	Jervis Bay	Joseph Bonaparte Gulf	Kara Sea
Karamea Bight	Kattegat	King Sound	Labrador Sea
Lakshadweep Sea	Laptev Sea	Ligure Sea	Lincoln Sea

Makassar Strait	Malacca Straits	Maluku Sea	Mawson Coast
Mediterranean Sea	Mindanao Sea	Moreton Bay	Mozambique Channel
Natuna Sea	NE Atlantic Ocean	NE Indian Ocean	NE Pacific Ocean
New South Wales Coast	North Greenland Sea	North Sea	North Taranaki Bight
Northern Territory Coast	Northwestern Passages	Norwegian Sea	NW Atlantic Ocean
NW Indian Ocean	NW Pacific Ocean	Pacific Ocean	Palk Strait and Palk Bay
Persian Gulf	Philippine Sea	Prydz Bay	Red Sea
Rio de la Plata	Ross Ice Shelf	Ross Sea	Sawu Sea
SE Atlantic Ocean	SE Indian Ocean	SE Pacific Ocean	Sea of Azov
Sea of Marmara	Sea of Okhotsk	Seram Sea	Seto Naikai
Shackleton Ice Shelf	Shark Bay	Skagerrak	Solomon Sea
South China Sea	Southern Ocean	Spencer Gulf	Strait of Gibraltar
Strait of Sicilia	Strait of Singapore	Sulawesi Sea	Sulu Sea
Sumba Strait	Sunda Strait	SW Atlantic Ocean	SW Indian Ocean
SW Pacific Ocean	Taiwan Strait	Tasman Sea	Timor Sea
Tirreno Sea	Torres Strait	Van Diemen Gulf	Weddell Sea
Western Basin	White Sea	World Ocean	Yellow Sea

**Format Rules:** At least one search word must be used and multiple entries are allowed.

**Field Type:** Text

**Field Length:** Maximum 250 characters

<b>Category:</b>	<b>Description</b>
<b>Element:</b>	<b>GEOGRAPHIC EXTENT POLYGON</b>

**Definition of Element:**

This element is used to define the polygon that describes the extents. Currently, the Blue Pages can only store a bounding box of maximum and minimum latitudes and longitudes. The geographic extent polygon is calculated automatically from the Coordinate fields - North; South; East; West. The four fields for storing the coordinates are:

**South Bounding Coordinate:**

The coordinate of the southernmost limit of the coverage expressed in latitude.  
[Range: -90.0 <= latitude <= 90.0; Units = decimal degrees]

**North Bounding Coordinate:**

The coordinate of the northernmost limit of the coverage expressed in longitude.  
[Range: -90.0 <= longitude <= 90.0; Units = decimal degrees]

**West Bounding Coordinate:**

The coordinate of the westernmost limit of the coverage expressed in latitude.  
[Range: -180.0 <= latitude <= 180.0; Units = decimal degrees]

**East Bounding Coordinate:**

The coordinate of the easternmost limit of the coverage expressed in longitude.  
Range: -180.0 <= longitude <= 180.0; Units = decimal degrees]

**Allowable Content:**

A set of four coordinate pairs which define a closed polygon. In the case of a single point observation, only the *South Bounding Coordinate* and the *West Bounding Coordinate* values are entered.

<b>Format Rules:</b>	Latitude and longitude coordinates are expressed in decimal degrees up to four decimal places.
<b>Field Type:</b>	Real number
<b>Field Length:</b>	Maximum 250 characters

**Category:** Data Currency

**Element:** BEGINNING DATE

**Definition of Element:**

The earliest date of the data collection. The intention of the element is to record the age of the data itself.

**Allowable Content:**

The data is expressed as dd/mm/yyyy. Where the year and month are known, but the day is not known, use 01 as the default day. Where the year is known but the day and month are not known, use 01/01 as the default day and month.

If data collection is ongoing or only one date is appropriate, then Beginning Date should be completed, but Ending Date should not.

**Format Rules:** dd/mm/yyyy

**Field Type:** Date

**Field Length:** 10 characters

**Category:** Data Currency

**Element:** ENDING DATE

**Definition of Element:**

The last date of the data collection.

**Allowable Content:**

The data is expressed as dd/mm/yyyy. Where the year and month are known, but the day is not known, use 01 as the default day. Where the year is known but the day and month are not known, use 01/01 as the default day and month.

If data collection is ongoing or only one date is appropriate, then Beginning Date should be completed, but Ending Date should not.

**Format Rules:** dd/mm/yyyy

**Field Type:** Date

**Field Length:** 10 characters

**Category:** Dataset Status

**Element:** PROGRESS

**Definition of Element:**

The status of the process of creation of the dataset.

If the dataset collection has concluded, pick the option "Complete". If the dataset collection is underway at the time of creation of the metadata record, use the option "In Progress". If the dataset collection has been proposed but has not commenced, use the option "Planned". If the status of the process of creation is unknown, use the term "Not Known".

**Allowable Content:**

Complete

In Progress

Planned

Not Known

**Format Rules:** Only one item from the list can be selected.

**Field Type:** Text

**Field Length:** 20 characters

**Category:** Dataset Status

**Element:** MAINTENANCE AND UPDATE FREQUENCY

**Definition of Element:**

This is a description of the frequency of changes or additions that are made to the dataset after its initial completion. If a dataset is maintained, for example, both daily and monthly, the most frequent rate of change should be recorded.

**Allowable Content:**

Continual

Daily

Weekly

Monthly

Quarterly

Bi-annually

Annually

As Required

Irregular

Not planned

Not Known

**Format Rules:** Only one item from the list can be selected.

**Field Type:** Text

**Field Length:** 20 characters

**Category:** Access

**Element:** STORED DATA FORMAT

**Definition of Element:**

This element allows for the description of the format in which the dataset is stored by the custodian organisation. It is two parts – the first component indicates whether the dataset is in of one or both of two pre-defined basic types (digital and non digital) and an extension which indicates such further relevant information about the stored format of the data.

**Allowable Content:**

- |                            |                            |
|----------------------------|----------------------------|
| DIGITAL                    | DIGITAL - Arc/Info         |
| DIGITAL - ASCII            | DIGITAL - Design Files     |
| DIGITAL - DWG              | DIGITAL - DXF              |
| DIGITAL - Erdas            | DIGITAL - GDS              |
| DIGITAL – Grass            | DIGITAL - Informix         |
| DIGITAL - Mapinfo          | DIGITAL - Moss             |
| DIGITAL - SDTS             | DIGITAL - Tiff             |
| NON DIGITAL                | NON DIGITAL - Microfilm    |
| NON DIGITAL - Microfiche   | NON DIGITAL - Photocopy    |
| NON DIGITAL - Photography  | NON DIGITAL - Plotted maps |
| NON DIGITAL - Printed maps | NON DIGITAL - Printouts    |
| NON DIGITAL - Reports      | NON DIGITAL - Transparency |

**Format Rules:** The first part of the element is in upper case. Multiple entries are allowed.

**Field Type:** Text

**Field Length:** 200 characters

**Category:** Access

**Element:** AVAILABLE FORMAT TYPE

**Definition of Element:**

This element is a description of the formats in which the dataset is available. It is in two parts - the first component indicates whether the dataset is in one or both of two pre-defined basic types (digital and non digital) and an extension which indicates such further relevant information about the availability of the data.

**Allowable Content:**

DIGITAL	DIGITAL - Arc/Info
DIGITAL - ASCII	DIGITAL - Design Files
DIGITAL - DWG	DIGITAL - DXF
DIGITAL - Erdas	DIGITAL - GDS
DIGITAL - Grass	DIGITAL - Informix
DIGITAL - Mapinfo	DIGITAL - Moss
DIGITAL - SDTS	DIGITAL - Tiff
NON DIGITAL	NON DIGITAL - Microfilm
NON DIGITAL - Microfiche	NON DIGITAL - Photocopy
NON DIGITAL - Photography	NON DIGITAL - Plotted maps
NON DIGITAL - Printed maps	NON DIGITAL - Printouts
NON DIGITAL - Reports	NON DIGITAL - Transparency

**Format Rules:** The first part of the element is in upper case. Multiple entries are allowed.

**Field Type:** Text

**Field Length:** 200 characters

**Category:** Access

**Element:** ACCESS CONSTRAINT

**Definition of Element:**

This element describes any restrictions and/or caveats that may apply to the use of the dataset. This could include details of payments required, legal provisions such as contracts or licensing agreements. If access is unrestricted, this should be stated.

**Allowable Content:**

Commercial in confidence

Commercially available

Defence classified

No release restrictions

Release with permission of the appropriate parties

Restrictions apply to some or all of the data

**Format Rules:** Only one item from the list is to be selected.

**Field Type:** Text

**Field Length:** 100 characters

**Category:** Data Quality

**Element:** LINEAGE

**Definition of Element:**

Lineage is a history of both the source data and the processing steps used to produce the dataset.

The source data used to produce a dataset may consist of one or more data sources. The history of the source data could include:

- a description of the source data
- the scale of the source data
- the media type of the source data
- the date of the source data

**Allowable Content:**

Free text. If no answer is possible use “Not Known”, “Not Documented” or “Not Relevant”.

**Format Rules:** Free text

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Example:**

Example 1:

The four major river catchments, the Tweed, Brunswick, Richmond and Clarence river valleys in the Upper North East region were selected for the water quality study. Combined these four catchments cover over 90% of the region.

A total of 143 sites were selected and these were chosen to be evenly distributed throughout the region on the major rivers and tributaries. The logistics of collecting samples from the sites was a major concern as there was some 7000 km between sites which took the field team 5 weeks to complete. The sampling cycle was 6 - 8 weeks length and 7 full cycles were done.

Example 2:

Contours were hand drawn using digital systematic-survey soundings obtained from the Royal Australian Navy (RAN), Hydrographic Office (unpublished data 1992), and using a variety of nautical charts from the following sources: Australian Department of the Navy, Hydrography Branch (1970); [Great Britain] Admiralty (1983,1990); [Great Britain] Hydrographer of the Navy) (1988); Indonesia Angkatan Laut, Djawatan Hidrografi (1961); and the Royal Australian Navy Hydrographic Service (1968, 1974, 1979, 1991). Also contours were scanned from an unpublished map (1987) by T Chase, B. Seakins, J. Young (all of the U.S. Geological Survey), and H. Prasentyo (Marine Geological Institute of Indonesia); they were modified and scanned from published geological studies (Jongsma, 1974; Torgensen and others, 1983).

**Category:** Data Quality

**Element:** POSITIONAL ACCURACY

**Definition of Element:**

Positional accuracy is an assessment of the closeness of the location of spatial objects in the dataset to their true positions on the earth's surface. The positional accuracy generally includes a horizontal accuracy assessment, a vertical accuracy assessment, and an explanation of how the accuracy assessments were determined. A precise positional accuracy assessment may not always be possible. In these cases an intuitive estimate of the expected positional accuracy based on past experience is acceptable.

Positional accuracy may not be relevant to datasets that are indirectly geographically referenced. In this case choose the "Not Relevant" option.

**Allowable Content:**

Free text. If no answer is possible use "Not Known", "Not Documented" or "Not Relevant".

**Format Rules:** Free text

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Example:**

Example 1:

Accuracy estimates of the location and depth of soundings cannot be made because information on collection and processing procedures were not available for much of the source data.

Example 2:

The sampling positions were chosen to be at bridges over waterways or easily accessible by boat near defined landmarks and so could be referenced through these descriptive locations.

Example 3:

The Atlas is a composite product and the positional accuracy depends on the source of the data.

**Category:** Data Quality

**Element:** ATTRIBUTE ACCURACY

**Definition of Element:**

Attribute accuracy is an assessment of the reliability of the values measured or recorded in the dataset in relation to their 'real world' values.

The attribute accuracy generally includes:

- the classification method used to assign values to features in the dataset
- a description of the methodology used in arriving at the values recorded

**Allowable Content:**

Free text. If no answer is possible use "Not Known", "Not Documented" or "Not Relevant".

**Format Rules:** Free text

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Example:**

Example 1:

Water quality attributes were measured at site and others were analysed from samples sent to selected laboratories.

On site testing of the water quality was done using a Horiba U10 Water Checker (Japanese) and the Yeocal Dissolved Oxygen meter (Australian) and was done according to the US Standard Methods for the testing of water and waste water.

Example 2:

As for positional accuracy

**Category:** Data Quality

**Element:** LOGICAL CONSISTENCY

**Definition of Element:**

Logical consistency is an assessment of how well the logical relationships between items in the dataset, or spatial objects in the dataset, are maintained.

Spatial objects can be points, lines or polygons within the dataset that are used to represent 'real world' features. When recording spatial objects into a dataset a number of inconsistencies can occur. An assessment for logical consistency documents for these inconsistencies.

For spatial objects in a GIS coverage this refers to the topological relationship between objects (points, lines, polygons).

**Allowable Content:**

Free text. If no answer is possible use "Not Known", "Not Documented" or "Not Relevant".

**Format Rules:** Free text

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Example:**

Example 1:

All lines were visually checked at 1:1 000 000 and 1:250 000 scale to verify that no lines crossed, that there were no extraneous line segments and that all lines had the correct contour value. Multiple and dangling lines were edited using in-house software.

Example 2:

A number of tests were made on the attribute values recorded in the water quality database to check for logical consistency.

**Category:** Data Quality

**Element:** COMPLETENESS

**Definition of Element:**

Completeness is an assessment of the extent and range of the dataset. ANZLIC identifies three dimensions of completeness - coverage, classification, verification.

Completeness of coverage is an assessment of the proportion of the dataset available in its entirety (ie spatial and attribute).

- Is the spatial data coverage complete for the entire dataset?
- If not what is amount of spatial data is incomplete?
- Are attribute data available for the entire dataset?
- If not what amount of attribute data is incomplete?

Completeness of classification is an assessment of how well the chosen classification method (refer to attribute accuracy) is able to represent the 'real world' features contained within the dataset.

Completeness of verification is an assessment of the amount of "work" (i.e. fieldwork or other methods) carried out to validate the correct representation of 'real world' features contained within the dataset. In completing entries for this element, use whatever concept of completeness as described above is most relevant to the dataset.

**Allowable Content:**

Free text. If no answer is possible use "Not Known", "Not Documented" or "Not Relevant".

**Format Rules:** Free text

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Example:**

Example 1:

Due to time and budget restraints, the samples were not taken to the required frequency to satisfy ANZECC guidelines for all water values nor did the study take samples for pesticides, toxicants and heavy metal analyses.

Example 2:

All lines and polygons are complete where there was sufficient depth sounding data except for three features where lines are not shown for clarity because of the steepness of the gradient.

Example 3:

Currently (1996/97) the program includes 100 sites; 70 sites from January 1993 with another 25 sites added from January 1994. Five sites are sampled by NIWA as part of the national water quality monitoring network. All sites sampled monthly.

**Category:** Contact Information

**Element:** CONTACT ORGANISATION

**Definition of Element:**

This is the ordinary name of the organisation which contact should be made to obtain the dataset itself, or to obtain more detailed information about the dataset. The contact organisation need not be the same as the Custodian Organisation. If the contact organisation is also known by a common acronym, include this at the end of the full name in round brackets.

**Allowable Content:**

Use the full name of the organisation.

If the organisation is also known by a common acronym, include this at the end of the full name.

If the organisation is normally known only by an acronym this can be used on its own.

**Format Rules:** The ordinary name of the custodian organisation followed where relevant by its acronym in round brackets.

**Field Type:** Text

**Field Length:** Maximum 120 characters

**Examples:**

Example 1: Australian Oceanographic Data Centre

Example 2: CSIRO Division of Marine Research

**Category:** Contact Information

**Element:** CONTACT POSITION

**Definition of Element:**

The position title given by the Contact Organisation to the holder of the position who is required to answer questions about the dataset.

**Allowable Content:**

Use the title of the position in preference to the name of the person.

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

Example 1: Data Manager

Example 2: Manager, Information Services

**Category:** Contact Information

**Element:** CONTACT PERSON

**Definition of Element:**

The full name of the contact person. (Title - Given name - Surname)

**Allowable Content:**

This field is in addition to the Contact Position and should only be used if there is no Contact Position title. Use the full name and title of the person.

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

Example 1: Dr Krystyna Jankowska

Example 2: Mr Peter Ables

**Category:** Contact Information

**Element:** MAIL ADDRESS 1

**Definition of Element:**

This element describes the postal address of the Contact Position. It should include floor number, building name, street name and number where applicable. If the address is a post office box or bag, this should be included.

**Allowable Content:**

Mail addresses should be written without full stops or commas. Words such as Street or Road can be abbreviated.

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

Example 1: Maritime Headquarters Wylde Street

Example 2: Level 27 101 George St

Example 3: PO Box 908

**Category:** Contact Information

**Element:** LOCALITY

**Definition of Element:**

The name of the suburb of the Mailing Address of the Contact Position, or if the place is not known by a suburb name, the ordinary name of the place or the locality.

**Allowable Content:**

The ordinary name of the suburb or place name of the mailing address.

**Field Type:** Text

**Field Length:** Maximum 60 characters

**Examples:**

Example 1: Sydney

Example 2: Potts Point

**Category:** Contact Information

**Element:** STATE

**Definition of Element:**

This is the name of the State or Territory, in acronym form.

**Allowable Content:**

The official name of .the State or Territory.

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

See Allowable Content.

**Category:** Contact Information

**Element:** COUNTRY

**Definition of Element:**

The name of the country where the Contact Position is located.

**Allowable Content:**

Country name only.

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

Example 1: Australia

Example 2: USA

**Category:** Contact Information

**Element:** POSTCODE

**Definition of Element:**

The official postcode for the address of the Contact Position.

**Allowable Content:**

The official postcode number.

**Field Type:** Text

**Field Length:** Maximum 10 characters

**Examples:**

Example 1: 2011

Example 2: 5000

**Category:** Contact Information

**Element:** TELEPHONE

**Definition of Element:**

The telephone number for the Contact Position.

**Allowable Content:**

One or more of the following:

ISD code+STD code + local telephone number

Mobile access code + number

1800 + number (freecall)

**Format Rules:** Do not use commas, brackets or hyphens. Use the full ISD, STD, Mobile Access Code, or Freecall then a space, then up to four numbers of the telephone number, then a space and finally up to the final four numbers of the telephone number.

**Field Type:** Text

**Field Length:** Maximum 25 characters

**Examples:**

Example 1: 61 2 9359 3141

Example 2: 1800 123 456

Example 3: 0419 234 789

**Category:** Contact Information

**Element:** FACSIMILE

**Definition of Element:**

The facsimile number for the Contact Position.

**Allowable Content:**

One or more of the following:

ISD code+STD code + local fax number

Mobile access code + number

1800 + number (freecall)

**Format Rules:** Do not use commas, brackets or hyphens. Use the full ISD, STD, Mobile Access Code, or Freecall then a space, then up to four numbers of the fax number, then a space and finally up to the final four numbers of the fax number.

**Field Type:** Text

**Field Length:** Maximum 25 characters

**Examples:**

Example 1: 61 2 9359 3120

Example 2: 1800 321 456

Example 3: 0419 432 789

**Category:** Contact Information

**Element:** ELECTRONIC MAIL

**Definition of Element:**

The electronic mail address for the Contact Position.

**Allowable Content:**

Use the standard email address format. If the email address is not available, the entry "Not Known" or None" should be given.

**Format Rules:** Use conventional email addresses.

**Field Type:** Text

**Field Length:** Maximum 30 characters

**Examples:**

Example 1: dm@aodc.gov.au

**Category:** Contact Information

**Element:** WWW

**Definition of Element:**

The URL address of the home page of the custodian organisation.

**Allowable Content:**

Use the standard URL address format. If the URL address is not available, the entry "Not Known" or None" should be given.

**Format Rules:** Use conventional URL addresses.

**Field Type:** Text

**Field Length:** Maximum 80 characters

**Examples:**

Example 1: <http://www.aodc.gov.au>

**Category:** Additional Metadata

**Element:** METADATA DATE

**Definition of Element:**

The date when the metadata were created or last updated.

**Allowable Content:**

The data is expressed as dd/mm/yyyy. Where the year and month are known, but the day is not known, use 01 as the default day. Where the year is known but the day and month are not known, use 01/01 as the default day and month.

**Format Rules:** dd/mm/yyyy

**Field Type:** Date

**Field Length:** 10 characters

**Category:** Additional Metadata

**Element:** METADATA PERSON

**Definition of Element:**

The name of the person entering or updating the metadata. This person should only be contacted regarding errors or omissions in the metadata description.

**Allowable Content:**

Use the full name and title of the person. (Title - Given name - Surname)

**Field Type:** Text

**Field Length:** Maximum 40 characters

**Examples:**

Example 1: Ms Heather Tonkin

Example 2: Mr Peter Baker

**Category:** Additional Metadata

**Element:** METADATA EMAIL

**Definition of Element:**

The email address of the Metadata Person.

**Allowable Content:**

Use the standard email address format. If the email address is not available, the entry "Not Known" or "None" should be given.

**Format Rules:** Use conventional email addresses.

**Field Type:** Text

**Field Length:** Maximum 30 characters

**Examples:**

Example 1: dm@aodc.gov.au

**Category:** Additional Metadata

**Element:** METADATA ORGANISATION

**Definition of Element:**

The name of the organisation where the Metadata Person is employed. If the contact organisation is also known by a common acronym, include this at the end of the full name in round brackets.

**Allowable Content:**

Use the full name of the organisation.

If the organisation is also known by a common acronym, include this at the end of the full name.

If the organisation is normally known only by an acronym this can be used on its own.

**Format Rules:** The ordinary name of the custodian organisation followed where relevant by its acronym in round brackets.

**Field Type:** Text

**Field Length:** Maximum 120 characters

**Examples:**

Example 1: Australian Oceanographic Data Centre

Example 2: CSIRO Division of Marine Research

**Category:** Data Content

**Element:** EQUIPMENT

**Definition of Element:**

This is a list of the major equipment used to record or measure the data i.e. to sample and/or analyse the values of the parameters recorded.

**Allowable Content:**

2 Pie PAR meters	Aanderaa Meteorological Package	Aanderaa RCM	Aanderaa Tide Gauge
Absolute Gravity Meter	Acoustic Doppler Current Profiler	ADCP RD Instruments	Agassiz Trawl
Anemometer	Applied Microsystems CTD	Applied Microsystems Tide Gauge	Atomic Absorption Spectrophotometer
Auto-Analyser	Barometer	Beam Trawl	Bongo Net
Bottle	Bottle General Oceanics	Bottle Nansen	Bottle Nisken
Bucket sample	Camera	Chromatograph	CNH Analyser
Colourimetre	Conductivity Temperature Depth Profiler	Corer	CTD F - Probe
CTD Neil Brown - Smart	CTD Neil Brown Mark III	CTD Neil Brown Mark V	Custom Drilling Corer
Day Grab	Dewpoint Mirror	Differential Pressure Sensor	Digital Reversing Thermometer
Directional Vane	Dredge	Drift Cards	Echo Sounder
Electrode	Epibenthic Sledge	Evaporation Pan	Expendable Bathythermograph
Expendable CTD	Fish Trap	Fish Trap With Light	Fluorometer
FLUORAC (Custom Annual Fluorimicro Densitometer)	Gamma Spectrometer	GLORIA (SONAR)	Grab
Gravity Corer	Gravity Meter	Hydrophone	Hydrophone Array
Improved Meteorological Instrumentation Mooring	Inductive Coupled Plasma	Infra-Red Spectrophotometer	Inverted Echosounder
Irradiance Meter	LIDAR (Light Detection and Ranging)	Lyman Alpha Humidiometer	Lyman Alpha Hygrometer
Magnetometer	Mass Absorption Spectrometer	Mechanical Bathythermograph	Mercury Reversing Thermometer
Meteorological Package	Mid Water Trawl	Mutualy buoyant drifte	Nephelometer
Net	Nuclear Magnetic Resonator	Optical Backscatterance Sensor	Passive Sonar
Photometer	Photosynthetically Available Radiation meter	Piezometer	Pinger
Piston Corer	Psychrometer	PT100 Resistance Wire	Pyranometer
Pyrgometer	RADAR (Radio Detection and Ranging)	Radiometer	Radisonde

Rectangular Midwater Trawl	S4 RCM	Salinometer	Satellite
Satellite Buoys	Scatterometer	Sea Soar CTD	Seabird CTD
Seaframe Tide Gauge	Secchi Disc	Sediment Trap	Seismometer
Self Recording Current Meter	Shipborne Wave Recorder	Shipek Grab	Smith McIntyre Grab
Sonic Anemometer	Spade Box Corer	Spectrophotometer	Static Pressure Sensor
Synthetic Apperture RADAR	Thermistor	Thermistor Chain	Thermometer
Thermosalinograph	Tide Gauge	Transmissometer	Trawl
Van Veen Grab	Vibro Corer	Video Camera	Waverider Buoy
Waverider Buoy Directional	Wet bulb Thermometer	Wood Head drifter	XRAY Crystallography

**Format Rules:** Multiple entries are allowed.

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Category:** Data Content

**Element:** PARAMETER DESCRIPTION

**Definition of Element:**

A listing of the codes and descriptions of the actual quantities recorded or measured in the dataset. The parameter codes are based on the General Format 3 (GF3) codes, as developed by the British Oceanographic Data Centre, but with additional codes. For some datasets the list of parameters could be quite and every effort should be made to ensure that the list is both indicative and representative.

**Allowable Content:**

ACOUTGSG: Acoustic Target Strength	ADMNDOCM: Document Information	ADMNINVN: Directory Information
ADMNZZZZ: Dummy Parameter	ANINBXXX: Dissolved Boron	ANINBXXXPX: Particulate Boron
ANINBXXXSM: Sedimentary Boron	ANINCHLR: Chlorosity	ANINSO4X: Sulphate
ANINSO4XGW: Ground Water Sulphate	ANINSO4XPX: Particulate Sulphates	ANINSO4XSM: Sedimentary Sulphate
ANINSPHD: Sulphides	BACTCBCC: Cyanobacteria Cell Numbers	BACTTBCC: Total Bacteria Cell Numbers
BACTTCOL: Total Coliforms	BATHMBAN: Bathymetric Depth	BEHVBRED: Behaviour Breeding
BEHVFEED: Behaviour Feeding	BEHVPTRN: Behaviour Pattern	BIOAASFP: Amnesic Shellfish Poisoning
BIOABIND: Percent Binding	BIOACKIL: Percent Cell Kill	BIOAINHB: Percent Inhibition
BIOAPLCN: Plate Count	BIOAPSFP: Paralytic Shellfish Poisoning	CARBALKY: Total Alkalinity
CARBALKYGW: Ground Water Alkalinity	CARBCBNTPX: Particulate Carbonate Content	CARBCBNTSM: Sedimentary Carbonate Content
CARBPCO2: pCO2	CARBPHXX: pH	CARBPHXXSM: Sedimentary pH
CARBRDOX: Dissolved Phase Oxidation-Reduction Pote	CARBTCO2: Total CO2	CNPSAMON: Dissolved Ammonium
CNPSAMONIS: Interstitial Ammonium	CNPSAMONSM: Sedimentary Ammonium	CNPSCASM: Carbon Assimilation
CNPSCHNBMSM: Carbon/Nitrogen Total Bulk Sediment	CNPSCING: Dissolved Inorganic Carbon	CNPSCORG: Dissolved Organic Carbon
CNPSCORGGW: Total Organic Carbon Ground Water	CNPSCORGPX: Particulate Organic Carbon	CNPSCORGSM: Sedimentary Organic Carbon
CNPSCPRD: Carbon Production	CNPSCTOT: Total Dissolved Carbon	CNPSCTOTGW: Total Ground Water Carbon
CNPSCTOTPX: Total Particulate Carbon	CNPSCTOTSM: Total Sedimentary Carbon	CNPSNING: Dissolved Inorganic Nitrogen
CNPSNORG: Dissolved Organic Nitrogen	CNPSNORGPX: Particulate Organic Nitrogen	CNPSNTOG: Total Organic Nitrogen
CNPSNTOT: Total Dissolved Nitrogen	CNPSNTOTPX: Total Particulate Nitrogen	CNPSNTOTSM: Total Sedimentary Nitrogen
CNPSNTRI: Dissolved Nitrite	CNPSNTRIIS: Interstitial Nitrite	CNPSNTRZ: Dissolved Nitrate + Nitrite

CNPSNTRZIS: Interstitial Nitrate + Nitrite	CNPSNTRZPX: Particulate Nitrate + Nitrite	CNPSOPHS: Dissolved Organic Phosphorus
CNPSOPHSPX: Particulate Organic Phosphorus	CNPSPHOS: Dissolved Phosphate	CNPSPHOSIS: Interstitial Phosphate
CNPSPHOSPX: Particulate Phosphate	CNPSPHOSSM: Sedimentary Phosphate	CNPSPTOG: Total Organic Phosphorus
CNPSSLCA: Dissolved Silicate	CNPSSLCAIS: Interstitial Silicate	CNPSSLCAPX: Particulate Silicate
CNPSSLCASM: Sedimentary Silicate	CNPSTPHS: Total Phosphorous	CNPSUREA: Dissolved Urea
CORLCOMP: Coral Reef Complexity	CORLCOND: Coral Reef Condition	CORLFSCA: Coral Reef Feeding Scar
CORLZONE: Coral Reef Zone	COTSACTV: Crown of Thorns Starfish Activity	COTSCOND: Crown of Thorns Starfish Condition
COTSDIAM: Crown of Thorns Starfish Diameter	COTSOUTB: Crown of Thorns Starfish Outbreak Status	CURRASAM: Signal Amplitude
CURRDBIN: Bin Depth	CURRLCDA: Horizontal Current Direction	CURRLCEW: East-West Current Velocity
CURRLCNS: North-South Current Velocity	CURRLCSA: Horizontal Current Speed	CURRLERR: ADCP Error Velocity
CURRLREW: Relative East-West Current Velocity	CURRLRNS: Relative North-South Current Velocity	CURRLRZA: Vertical Current Velocity
CURRSTRS: Current Stress	DGASCH4C: Dissolved Methane Concentration	DGASCH4CAA: Atmospheric Methane
DGASCH4S: Methane Saturation	DGASCO2XAA: Atmospheric Carbon Dioxide	DGASCOXXAA: Atmospheric Carbon Monoxide
DGASDMSP: Dimethylsulphoniopropionate	DGASDMSX: Dimethylsulphide	DGASDOXY: Dissolved Oxygen
DGASDOXYIS: Interstitial Oxygen	DGASDOXYSM: Sedimentary Oxygen	DGASNOXXAA: Atmospheric Nitrous Oxides
DGASO3XXAA: Atmospheric Ozone	DGASOXBO: Biological Oxygen Demand	DGASOXCO: Chemical Oxygen Demand
DGASOXSD: Sediment Oxygen Demand	DGASOXYs: Oxygen Saturation	ECOLABUN: Abundance
ECOLBIOM: Water Column Biomass	ECOLBIOMSM: Seabed Biomass	ECOLBIOMTR: Tree Biomass
ECOLCOMA: Community Association	ECOLDIAMTR: Tree Trunk Diameter	ECOLDIET: Diet - Natural
ECOLDIHA: Habitat Distribution	ECOLDIST: Species Distribution	ECOLDVED: Dive Depth
ECOLDVEP: Dive Profile	ECOLDVET: Dive Duration	ECOLFEEED: Diet - Cultured
ECOLFPRF: Food Preference	ECOLHABT: Habitat Description	ECOLHBPR: Habitat Preference
ECOLIFEB: Lifeform - Benthic	ECOLIFEV: Lifeform - Vegetation	ECOLPCOV: Percentage Cover
ECOLPTCH: Patchiness	ECOLFRQ: Relative Frequency	ECOLSEIX: Sensitivity Index
ECOLSTOM: Gut Contents	ECOLSTRV: Community Structure	ECOLVARB: Variability
FISHCATH: Fishing Catch	FISHEFRT: Fishing Effort	GENEALOS: Gene - Allozyme Forms
GENEDNAM: Gene - DNA Map	GENEFREQ: Gene - Frequencies	GENEMDNA: Gene - Mitochondrial DNA
GEOLCART: Calcification Rate	GEOLCSTB: Coastline Stability	GEOLFORM: Subbottom Structure

GEOLLITH: Lithology	GEOLSBFT: Seafloor Feature	GEOLSOIL: Soil Type
GEOLSUBS: Substrate Type	GEOPMMAN: Magnetic Anomaly	HALCAOHA: Adsorbable Organic Halides
HALCCHLR: Dissolved Chlordane	HALCCHLRSM: Sedimentary Chlordane	HALCCHLRSTS: Tissue Chlordane
HALCDBCM: Dibromochloromethane (CHClBr <sub>2</sub> )	HALCDBMX: Dibromomethane (CH <sub>2</sub> Br <sub>2</sub> )	HALCDBCM: Dichlorobromomethane (CHCl <sub>2</sub> Br)
HALCDDDX: Dissolved DDD	HALCDDDXSM: Sedimentary DDD	HALCDDDXSTS: Tissue DDD
HALCDDEX: Dissolved DDE	HALCDDEXSM: Sedimentary DDE	HALCDDEXTS: Tissue DDE
HALCDDTX: Dissolved DDT	HALCDDTXSM: Sedimentary DDT	HALCDDTXSTS: Tissue DDT
HALCDILD: Dissolved Dieldrin	HALCDILDSM: Sedimentary Dieldrin	HALCDILDSTS: Tissue Dieldrin
HALCEOHA: Extractable Organic Halides	HALCEOHASM: Sedimentary Extractable Organic Halide	HALCF113: Dissolved Freon-113
HALCFR11: Dissolved Freon-11	HALCFR12: Dissolved Freon-12	HALCMIMX: Dissolved Iodomethane (CH <sub>3</sub> I)
HALCOHXX: Dissolved Organic Halide Compounds	HALCPAHX: Dissolved PAH	HALCPAHXTS: Tissue PAH
HALPCBX: Dissolved PCB	HALPCBXSM: Sedimentary PCB	HALPCBXSTS: Tissue PCB
HALCQCEE: Dissolved Tetrachloroethene (C <sub>2</sub> Cl <sub>4</sub> )	HALCQCMX: Dissolved Tetrachloromethane (CCl <sub>4</sub> )	HALCTBMX: Dissolved Tribromomethane (CHBr <sub>3</sub> )
HALCTCEA: Dissolved Trichloroethane (C <sub>2</sub> H <sub>3</sub> Cl <sub>3</sub> )	HALCTCEE: Dissolved Trichloroethene (C <sub>2</sub> HCl <sub>3</sub> )	HALCTCMX: Dissolved Trichloromethane (CHCl <sub>3</sub> )
HUMNAIMS: Human - Aims and Objectives	HUMNCRSP: Human - Correspondance	HUMNDETH: Number of Human Deaths
HUMNDMGT: Total Damage Cost	HUMNIMEF: Human Impact Effect	HUMNIMEX: Human Impact Extent
HUMNIMTY: Human Impact Type	HUMNINJR: Number of Human Injuries	HUMNINPY: Insurance Payout
HUMNNUMB: Tourism Visitation Numbers	HUMNRACT: Recreational Activity	HUMNRNUM: Recreational Activity Numbers
HUMNTOUR: Tourism Activity	HUMNVIEW: Human Opinions	HYCBAROW: Dissolved Aromatic Hydrocarbons
HYCBAROWSM: Sedimentary Aromatic Hydrocarbons	HYCBAROWTS: Tissue Aromatic Hydrocarbons	HYCBOPST: Dissolved Organochlorine Pesticides
HYCBOPSTSM: Sedimentary Organochlorine Pesticides	HYCBOPSTTS: Tissue Organochlorine Pesticides	HYCBPLHC: Dissolved Petroleum Hydrocarbons
HYCBPLHCSM: Sedimentary Petroleum Hydrocarbons	HYCBPLHCTS: Tissue Petroleum Hydrocarbons	HYCBTDDTTS: Tissue Total DDT
HYCBTLGN: Total Lignins	HYCBTPCBTS: Tissue Total PCB	HYCBTPHN: Total Phenols
HYCBTPSTTS: Tissue Total Pesticides	HYCBTRSA: Total Resin Acids	HYCBTRSASM: Sedimentary Total Resin Acids
HYCBTTAN: Total Tannins	HYDRAMPL: Amplitude of Tidal Constituents	HYDRASLV: Sea Level
HYDRASLVGW: Ground Water Level	HYDRATTN: Attenuance	HYDRCHRG: River Discharge
HYDRCNDC: Electrical Conductivity	HYDRDT15: Depth of the 15 oC Isotherm	HYDRDT20: Depth of the 20 oC Isotherm

HYDRDT25: Depth of the 25 oC Isotherm	HYDRHTCT: Heat Content of the Water Column	HYDRMXLD: Mixed Layer Depth
HYDRPHAS: Phase of Tidal Constituents	HYDRPOAT: Potential Attenuance	HYDRPOTM: Potential Temperature
HYDRPPSA: Water Column Height + Atmospheric Pressu	HYDRPPSB: Corrected Water Column Height	HYDRPPSS: Relative Pressure
HYDRPRES: Sea Pressure	HYDRPRSR: Non-tidal Residual Pressure	HYDRPRST: Total Pressure
HYDRPSAL: Salinity	HYDRPSALGW: Ground Water Salinity	HYDRPSALSS: Sea Surface Salinity
HYDRPTDZ: Temperature Gradient	HYDRRUNO: River Runoff	HYDRSIGT: Sigma-theta
HYDRSVEL: Sound Velocity	HYDRTEMP: Sea Temperature	HYDRTEMPGW: Ground Water Temperature
HYDRTEMPSS: Sea Surface Temperature	HYDRTMBS: Depth of Thermocline Base	HYDRTMDA: Depth Averaged Temperature
HYDRTMIT: Thermocline Intensity	HYDRTMTK: Thermocline Thickness	ICEXBERG: Ice Berg Size
ICEXCVER: Ice Coverage	ICEXDRFT: Ice Drift	ICEXFLSZ: Ice Flow Size
ICEXKLDP: Ice Keel Depth	ICEXRDGE: Ice Ridging	ICEXSNOW: Snow Thickness
ICEXTHCK: Ice Thickness	ICEXTYPE: Ice Type	ISCHC13CIS: Interstitial Carbon13/Carbon12 Ratio
ISCHC13CSM: Sedimentary Carbon13/Carbon12 Ratio	ISCHC13CTS: Tissue Carbon13/Carbon12 Ratio	ISCHCS37: Dissolved Caesium-137
ISCHCS37SM: Sedimentary Caesium-137	ISCHN15NIS: Interstitial Nitrogen15/Nitrogen14 Rat	ISCHN15NTS: Tissue Nitrogen15/Nitrogen14 Ratio
ISCHO18OSM: Sedimentary Oxygen18/Oxygen16 Ratio	ISCHPAXSM: Sedimentary Palladium	ISCHPB10: Dissolved Lead-210
ISCHPB10SM: Sedimentary Lead-210	ISCHPB67: Dissolved 206Pb/207Pb Ratio	ISCHPO10: Dissolved Polonium-210
ISCHRAXX: Dissolved Radium	ISCHRAXXSM: Sedimentary Radium	ISCHTHXXSM: Sedimentary Thorium
ISCHUXXX: Dissolved Uranium	ISCHUXXXSM: Sedimentary Uranium	METOBLOCK: Blocking Index
METOCABS: Absolute Humidity	METOCAPH: Atmospheric Pressure	METOCDEW: Dew Point
METOCDTA: Air Temperature	METOCBUM: Specific Humidity	METOCCLAB: Cloud Albedo
METOCCLDC: Cloud Cover	METOCCLHG: Cloud Height	METOCCLTY: Cloud Type
METOCCLWC: Water Vapour Content	METOCMXR: Mixing Ratio	METOCPAT: Potential Air Temperature
METOCREL: Relative Humidity	METOCSLR: Solar Radiation	METOCOSI: Southern Oscillation Index
METOCWET: Wet Bulb Air Temperature	METOEVPAP: Evaporation	METOHLSZ: Hail Stone Size
METONINWL: Infrared Radiation Wavelength	METOLHTF: Latent Heat Flux	METOLWRD: Long Wave Radiation
METONHTF: Net Heat Flux	METOPLAB: Planetary Albedo	METOPPTN: Precipitation
METOSCHG: Storm Cell Height	METOSCMV: Storm Cell Movement	METOSFAB: Surface Albedo
METOSHTF: Sensible Heat Flux	METOSNAG: Angle of the Sun from	METOSWRD: Short Wave Radiation

	the horizon	
METOTINT: Tornado Intensity	METOTMAX: Maximum Air Temperature	METOTMIN: Minmium Air Temperature
METOVBWL: Visible Radiation Wavelength	METOVISB: Visibility	METOWETH: Weather
MTALAGXX: Dissolved Silver	MTALAGXXSM: Sedimentary Silver	MTALAGXXTS: Tissue Silver
MTALALXX: Dissolved Aluminium	MTALALXXPX: Particulate Aluminium	MTALALXXSM: Sedimentary Aluminium
MTALASXX: Dissolved Arsenic	MTALASXXSM: Sedimentary Arsenic	MTALASXXTS: Tissue Arsenic
MTALBAXX: Dissolved Barium	MTALBAXXGW: Ground Water Barium	MTALBAXXPX: Particulate Barium
MTALBAXXSM: Sedimentary Barium	MTALCAXX: Dissolved Calcium	MTALCAXXGW: Ground Water Calcium
MTALCAXXPX: Particulate Calcium	MTALCAXXSM: Sedimentary Calcium	MTALCDXX: Dissolved Cadmium
MTALCDXXPX: Particulate Cadmium	MTALCDXXSM: Sedimentary Cadmium	MTALCDXXTS: Tissue Cadmium
MTALCOXX: Dissolved Cobalt	MTALCOXXPX: Particulate Cobalt	MTALCOXXSM: Sedimentary Cobalt
MTALCOXXTS: Tissue Cobalt	MTALCRXX: Dissolved Chromium	MTALCRXXSM: Sedimentary Chromium
MTALCRXXTS: Tissue Chromium	MTALCUCC: Copper Complexing Capacity	MTALCUXX: Dissolved Copper
MTALCUXXPX: Particulate Copper	MTALCUXXSM: Sedimentary Copper	MTALCUXXTS: Tissue Copper
MTALDMAS: Dissolved Dimethyl Arsenic	MTALFEXX: Dissolved Iron	MTALFEXXPX: Particulate Iron
MTALFEXXSM: Sedimentary Iron	MTALFEXXTS: Tissue Iron	MTALHGAL: Acid Labile Mercury
MTALHGMY: Dissolved Methyl Mercury	MTALHGMYSM: Sedimentary Methyl Mercury	MTALHGRX: Reactive Mercury
MTALHGTX: Total Mercury	MTALHGXXPX: Particulate Mercury	MTALHGXXSM: Sedimentary Mercury
MTALHGXXTS: Tissue Mercury	MTALKXXX: Dissolved Potassium	MTALKXXXGW: Ground Water Potassium
MTALKXXXSM: Sedimentary Potassium	MTALLIXX: Dissolved Lithium	MTALLIXXPX: Particulate Lithium
MTALLIXXSM: Sedimentary Lithium	MTALMGXX: Dissolved Magnesium	MTALMGXXGW: Ground Water Magnesium
MTALMGXXSM: Sedimentary Magnesium	MTALMMAS: Dissolved Monomethyl Arsenic	MTALMNXX: Dissolved Manganese
MTALMNXXPX: Particulate Manganese	MTALMNXXSM: Sedimentary Manganese	MTALMNXXTS: Tissue Manganese
MTALNAXX: Dissolved Sodium	MTALNAXXGW: Ground Water Sodium	MTALNAXXSM: Sedimentary Sodium
MTALNIXX: Dissolved Nickel	MTALNIXXPX: Particulate Nickel	MTALNIXXSM: Sedimentary Nickel
MTALNIXXTS: Tissue Nickel	MTALPBXX: Dissolved Lead	MTALPBXXPX: Particulate Lead
MTALPBXXSM: Sedimentary Lead	MTALPBXXTS: Tissue Lead	MTALSEXX: Dissolved Selenium

MTALSEXSM: Sedimentary Selenium	MTALSEXSTS: Tissue Selenium	MTALSRXX: Strontium
MTALSRXXGW: Ground Water Strontium	MTALSRXXPX: Particulate Strontium	MTALSRXXSM: Sedimentary Strontium
MTALZNXX: Dissolved Zinc	MTALZNXXPX: Particulate Zinc	MTALZNXXSM: Sedimentary Zinc
MTALZNXXTS: Tissue Zinc	NAV GALAT: Latitude North	NAV GALON: Longitude East
NAV GAPDA: Platform Heading	NAV GAPEW: Platform East-West Velocity	NAV GAPNS: Platform North-South Velocity
NAV GAPSA: Platform Speed	NAV GDSRN: Distance Run	NESTCOUN: Number of Nests
NESTFAIL: Number of Nest Failures	OILSAREA: Area of Oil Spill	OILSSRCE: Source of Oil Spill
OILSTYPE: Type of Oil Spilt	OILSVOLM: Volume of Oil Spill	OPTCA280: Absorbance at 280 nm
OPTCA330: Absorbance at 330 nm	OPTCA350: Absorbance at 350 nm	OPTCA460: Absorbance at 460 nm
OPTCBLDC: Bioluminescence Description	OPTCCOLR: Colour of the Water Column	OPTCDWIR: Downwelling Irradiance (PAR - energy)
OPTCFLIT: Relative Fluorescence Intensity	OPTCFLUR: Fluorescence	OPTCIRR: Downwelling Irradiance (PAR - photons)
OPTCIRRU: Upwelling Irradiance (PAR - photons)	OPTCLINT: Light Intensity	OPTCOCLR: Ocean Colour
OPTCR410: Reflectance at 410 nm	OPTCR450: Reflectance at 450 nm	OPTCR490: Reflectance at 490 nm
OPTCR520: Reflectance at 520 nm	OPTCR550: Reflectance at 550 nm	OPTCR632: Reflectance at 632 nm
OPTCSCDD: Secchi Disc Depth	OPTCUWIR: Upwelling Irradiance (PAR - energy)	ORGCHEST: Chemical Structure
ORGCHROM: Chromatogram	ORGCSPEC: Spectrogram	PHYSAGEX: Age
PHYSBSTO: Broodstock	PHYSCOLR: Life Form Colour	PHYSDAMG: Amount of Damage to Life Form
PHYSDEVL: Developmental Stage	PHYSGNST: Gonad State	PHYSGNSZ: Gonad Size
PHYSGROW: Growth Rate	PHYSGUTW: Gut Weight	PHYSLENG: Length
PHYSMOLT: Molt Stage	PHYSMRCT: Meristic Characteristics	PHYSORGN: Gonad Weight
PHYSPNLS: Location of Lesions	PHYSREPR: Reproduction Stage	PHYSSEX: Sex
PHYSSVLS: Severity of Lesions	PHYSWGHT: Weight	PIGSALLO: Alloxanthin
PIGSBCAR: Beta-carotene	PIGSBUTA: Butanoyloxyfucoxanthin	PIGSC1C2: Chlorophyll-c1c2
PIGSCHLB: Chlorophyll-b	PIGSCIDA: Chlorophyllide-a	PIGSCLC3: Chlorophyll-c
PIGSCPHL: Chlorophyll-a	PIGSCPHLSM: Sedimentary Chlorophyll-a	PIGSDIAD: Diadinoxanthin
PIGSFUCX: Fucoxanthin	PIGSHEXO: Hexanoyloxyfucoxanthin	PIGSLUTN: Lutein
PIGSPBA1: Phaeophorbide-a1	PIGSPBA2: Phaeophorbide-a2	PIGSPBA3: Phaeophorbide-a3
PIGSPBA4: Phaeophorbide-a4	PIGSPBAX: Phaeophorbide-a	PIGSPBLX: Phaeophorbide-like pigment
PIGSPERI: Peridinin	PIGSPHAE: Phaeopigments	PIGSPHAESM: Sedimentary Phaeopigments
PIGSPHYC: Phycoerythrin	PIGSPTA1: Phaeophytin-a1	PIGSPTA2: Phaeophytin-a2
PIGSPTAX: Phaeophytin-a	PIGSPTLX: Phaeophytin-like pigment	PIGSSCHL: Size-fractionated

		chlorophyll-a
PIGSZEOX: Zeoxanthin	PLNTBIOM: Biomass - Plant	PLNTDIAM: Diameter - Tree
PLNTLFAL: Biomass - Leaves	PLNTLFAR: Leaf Area	PLNTRTMS: Biomass - Roots
POLNGRESSM: Sedimentary Grease	POLNWQUL: Water Quality	POPNCOUN: Number of Individuals
POPNCOUNBD: Number of Breeders	POPNCOUNEG: Number of Eggs	POPNCOUNSB: Number of Siblings
POPNCOUNSZ: Number Undersize	POPNDEAD: Number of Individuals Dead	POPNDENS: Density - Population
POPNDNSK: Density - Skeletal	POPNFECD: Fecundity	POPNLAVS: Larval Settlement
POPNLIVE: Number of Individuals Alive	POPNMASS: Mass (population)	POPNMIGR: Migration Pattern
POPNMORT: Mortality Rate	POPNRECR: Recruitment	POPNREPL: Replacement Rate
POPNSPWN: Spawning Time	POSNAHIN: Instrument Height	POSNAHSF: Height above Sea Floor
POSNAHSL: Height Above Sea Level	POSNDEPH: Depth Below Sea Surface	RADRPOLR: Radar Polarisation
RADRREFL: Radar Reflectivity	RADRVELS: Radar Velocities	RISKCYCL: Risk - Cyclone
RISKFLOD: Risk - Flooding	RISKOILS: Risk - Oil Spill	RISKSTRM: Risk - Storm Surge
SEDMACOU: Sediment Acoustic Properties	SEDMBIOC: Sediment Biogenic Composition	SEDMCOLR: Sediment Colour Description
SEDMGEOR: Sedimentary Geological Origin	SEDMGNHD: Grain Hydrodynamics	SEDMKURT: Grain Size Kurtosis
SEDMPORO: Porosity	SEDMPROF: Sediment Surface Profile	SEDMRATE: Sedimentation Rate
SEDMSHAP: Grain Shape	SEDMSIZE: Grain Size	SEDMSKEW: Grain Size Skewness
SEDMSTNG: Sediment Strength	SEDMTCON: Sediment Thermal Conductivity	SEDMTEXT: Sediment Texture Description
SEDMTHCK: Sediment Thickness	SEDMTPRT: Sediment Transport Rate	SEDMVOLM: Sediment Volume
SHIPBRED: Ship Breadth	SHIPCARG: Ship Cargo	SHIPCONS: Ship Construction
SHIPDEPT: Ship Depth	SHIPLENG: Ship Length	SHIPNAME: Ship Name
SHIPREGO: Ship Registered	SHIPROUT: Shipping Route	SHIPTONS: Ship Tonnage
SHIPTYPE: Ship Type	SHPWCAUS: Shipwreck Cause	SHPWDEAT: Shipwreck Deaths
SHPWSITE: Shipwreck Site	SPMTISED: Inorganic Suspended Particulate Matter	SPMTNEPH: Nephelometer Voltage
SPMTOSED: Organic Suspended Particulate Matter	SPMTTRAJ: Suspended Particle Trajectories	SPMTTSED: Total Suspended Matter
SPMTTURB: Turbidity	TAXIOINVD: Invader Species	TAXOENDG: Endangered Species
TAXOGENU: Genus	TAXOINSP: Indicator Species	TAXOPRSP: Prey Species
TAXOSPEC: Species	TAXOSPRC: Species Richness	TAXOSPRE: Rare Species
TAXOTXID: Taxonomic Identity	TIMEAADY: Day number	TIMEAAFD: Day fraction
TIMEACYC: Datacycle Count	TIMEATIM: Day of Month and Time	TIMEAZDR: Sample/Record Duration

TOPOLFAS: Landform - Aspect	TOPOLFSL: Landform - Slope	TOPOLNDF: Landform - Description
TOPOLNDU: Land Use	WAVEGAVD: Average Wave Direction	WAVEGAVG: Average Wave Height
WAVEGAVH: Average Height Highest 1/3rd Waves	WAVEGAVP: Average Wave Period	WAVEGBPT: Wave Spectral Peak Period
WAVEGBRF: Waves Spectral Width (Broadness)	WAVEGCAR: Characteristic Wave Height (4 * Hrms)	WAVEGCMX: Maximum Wave Height Crest to Trough
WAVEGDSW: Swell Direction	WAVEGHSW: Swell Height	WAVEGMNL: Minimum Wave Level
WAVEGMXH: Maximum 3 hour Wave Height	WAVEGMXL: Maximum Wave Level	WAVEGNZC: Number of zero crossing waves
WAVEGPSW: Swell Period	WAVEGRMS: Root Mean Square Wave Displacement	WAVEGSPD: Wave Velocity
WAVEGTCA: Average Wave Crest Period	WAVEGTDD: Significant Wave Direction	WAVEGTDH: Significant Wave Height
WAVEGTPD: Significant Wave Period	WAVEGTPK: Wave Spectral Maximum Period	WAVEGTZA: Zero Crossing Wave Period
WAVEGTZM: Maximum Zero Crossing Wave Period	WAVEGWDR: Wave Direction	WAVEGZMX: Maximum Zero Crossing Wave Height
WAVERUGH: Surface Roughness	WAVESPEC: Power Spectra of the Waves	WAVESTAT: Sea State
WAVESTRS: Wave Stress	WINDEGTD: Maximum Wind Gust Direction	WINDEGTS: Maximum Wind Gust Speed
WINDERWD: Relative Wind Direction	WINDERWS: Relative Wind Speed	WINDESSA: Horizontal Wind Speed
WINDESZA: Vertical Wind Velocity	WINDEWDA: Wind Direction True	WINDEWEW: East-West Wind Velocity
WINDEWNS: North-South Wind Velocity	WINDEWSB: Wind Speed True	WINDEWSW: Vertical Wind Speed
WINDSTRS: Wind Stress	WINDVLP: Wind Velocity Potential	

**Format Rules:** The first part of the element is in upper case. Multiple entries are allowed.

**Field Type:** Text

**Field Length:** 255 characters

**Category:** Data Content

**Element:** SAMPLING INTENSITY

**Definition of Element:**

This is a description of the frequency and density of sampling of each of the parameters. Only complete this field if it is relevant to the dataset.

**Format Rules:** Any valid number.

**Field Type:** Number

**Category:** Data Content

**Element:** SAMPLING METHOD

**Definition of Element:**

The method used for collecting samples, profiles, points, data cycles, replicates or similar in a dataset. Only complete this field if it is relevant to the dataset.

**Field Type:** Text

**Field Length:** 100 characters

**Category:** Data Content

**Element:** HABITAT DESCRIPTION

**Definition of Element:**

A description of the major habitats (biological regions) associated with the dataset. Only complete this field if it is relevant to the dataset.

**Allowable Content:**

abyssal	artificial	atmospheric	beach	benthic
boulder	coastal	continental shelf	continental slope	coral
coral reef	delta	demersal	dune	epibenthic
estuarine	freshwater	gravel	ice	intersitital (eg. at the water/air interface)
intertidal	kelp forest	lagoon	macrophyte	mangrove
marine	mid ocean ridge	mud	oceanic	pelagic
polar	river	rock	rocky reef	saltmarsh
sand	seagrass	sprayzone	temperate	terrestrial
tropical	upwelling	wetland		

**Format Rules:** Multiple entries are allowed.

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Category:** Data Content

**Element:** TAXONOMIC GROUP

**Definition of Element:**

A general or common use description for a biological group of organisms which is the subject of the data, or possibly a higher level taxonomic grouping. It is not intended to contain detailed taxonomic information at the genus and species level. Only complete this field if it is relevant to the dataset

**Allowable Content:**

Abalones	Amphibians	Amphipods	Anchovies	Anemones
Angiosperms	Annelids	Ascidians	Australian Salmons	Bacteria
Barnacles	Birds	Bivalves	Blue-Green Algae	Brachiopods
Breams	Brine Shrimps	Brown Algae	Bryophytes	Bryozoans
Calcareous Nannoplankton	Cephalopods	Chelicerates	Chitons	Ciliates
Clams	Coccolithophorids	Cods	Comb Jellies	Copepods
Corals	Crabs	Crayfishes & Yabbies - freshwater	Crocodiles	Crustaceans
Diatoms	Dinoflagellates	Dolphins & Porpoises	Dories	Dugongs & Manatees
Echinoderms	Eels	Ferns	Fishes	Flatfishes
Flatheads	Flatworms	Foraminifera	Fossils	Fungi
Garfishes	Gastropods	Grasses	Green Algae	Gymnosperms
Herrings	Hydroids	Insects	Invertebrates	Isopods
Jellyfishes	Krill	Leatherjackets	Leeches	Lobsters - marine
Mackerels	Mammals	Mangroves	Marine Worms	Microfossils
Molluscs	Mullets	Mussels	Mysids	Nematodes
Octopuses	Oligochaetes	Ostracods	Oysters	Penguins
Perches	Phytoplankton	Pilchards & Sardines	Polychaetes	Prawns & Shrimps
Protozoa	Radiolaria	Rays	Red Algae	Redfishes
Reptiles	Rotifers	Roughies	Salmons	Salps
Samphires	Scallops	Sea Cucumbers	Sea Snakes	Sea Urchins
Seagrasses	Seals & Walruses	Seaweeds	Sharks	Skates
Slugs	Snails	Snakes	Snappers	Sponges
Squids	Starfishes &	Trematodes	Trevallys	Trouts

Tunas                      Seastars  
Turtles                      Viruses                      Whales                      Whittings

**Format Rules:**                      Multiple entries are allowed.

**Field Type:**                      Memo

**Field Length:**                      Maximum 65535 characters

**Category:** Program Information

**Element:** PROGRAM NAME

**Definition of Element:**

The name of any relevant program of work of which this dataset forms a part, or of any association or network involved in compiling or sponsoring this dataset, or under whose auspices this dataset was created.

**Format Rules:** General description of the program name.

**Field Type:** Text

**Field Length:** Maximum 255 characters

**Examples:**

Example 1: Routine XBT deployments

Example 2: National Hydrographic Survey Program

**Category:** Program Information

**Element:** PROGRAM COORDINATOR

**Definition of Element:**

The name of the person who represents any association or network, or who is primarily responsible for the delivery of any larger program of work of which this dataset forms a part.

**Format Rules:** The name of the program contact person.

**Field Type:** Text

**Field Length:** Maximum 100 characters

**Category:** Program Information

**Element:** PROGRAM COORDINATOR ORGANISATION

**Definition of Element:**

The name of the program coordinator's organisation that represents any association or network, or who is primarily responsible for the delivery of any larger program of work of which this dataset forms a part.

**Format Rules:** The ordinary name of the custodian organisation followed where relevant by its acronym in round brackets.

**Field Type:** Text

**Field Length:** Maximum 120 characters

**Category:** Program Information

**Element:** PLATFORM NAME

**Definition of Element:**

The name of the sampling platform from which the data was obtained, wherever this has a specific name and helps to identify the nature of the data. This could include a ship, satellite, drifting buoys or similar devices.

**Format Rules:** The name of the sampling platform.

**Field Type:** Text

**Field Length:** Maximum 120 characters

**Examples:**

Example 1: RV Franklin

Example 2: Landsat-7

**Category:** Publication Information

**Element:** DOCUMENTATION REFERENCE

**Definition of Element:**

A relevant reference or short list of references which describes the dataset, or enables potential uses of the data to assess the dataset. Ideally a manual or document containing database or data specifications, or a publication containing summary data, or all or part of the data content, often published in the form of a report. More than one reference may be listed.

**Format Rules:** A description of any references to the dataset.

**Field Type:** Memo

**Field Length:** Maximum 65535 characters

**Examples:**

Example 1: Jenkins, CJ. 1997. Auseabed Version 7. Seafloor Database and GIS of the Australian EEZ: Structure, Content and Function. OSI Report No 61.

**Category:** Publication Information

**Element:** ONLINE LINK

**Definition of Element:**

Any online link that provides information about the dataset or access to the data itself. More than one online link may be listed. This could be a link to a more detailed metadata description of the dataset, or a link directly to a database holding either the data. An on-line link could also be made to a graphic file image derived from the data. This could for instance be an image of a GIS coverage, a portion of an interpreted remote sensing image, or a cruise plot or site location map.

**Format Rules:** A description of any online links to the dataset or the metadata describing the dataset.

**Field Type:** Text

**Field Length:** Maximum 255 characters

**Examples:**

Example 1: <http://www.aodc.gov.au>

**Category:** Monitoring

**Element:** PARENT ORGANISATION

**Definition of Element:**

The name of the parent organisation.

**Field Type:** Text

**Field Length:** Maximum 50 characters

**Category:** Monitoring

**Element:** PRINCIPAL ORGANISATION

**Definition of Element:**

The name of the principal organisation.

**Field Type:** Text

**Field Length:** Maximum 50 characters

**Category:** Monitoring

**Element:** COLLABORATIVE ORGANISATION

**Definition of Element:**

The name of the collaborative organisation.

**Field Type:** Text

**Field Length:** Maximum 50 characters

**Category:** Monitoring

**Element:** FUNDING ORGANISATION

**Definition of Element:**

The name of the funding organisation.

**Field Type:** Text

**Field Length:** Maximum 50 characters

**Category:** Monitoring

**Element:** OBJECTIVES

**Definition of Element:**

The objectives of the monitoring program.

**Field Type:** Text

**Field Length:** Maximum 255 characters

**Category:** Monitoring

**Element:** CLIENTS

**Definition of Element:**

A list of clients of the monitoring program.

**Field Type:** Text

**Field Length:** Maximum 150 characters