IMOS Integrated **Marine Observing** System

FACILITY 10: eMarine Information Infrastructure (eMII)

IMOS NETCDF FILE NAMING CONVENTION

Version 1.4
February 22nd, 2012

Table of contents

PREFACE to version 1.4

A number of facilities have provided **platform codes** which are now included in Reference Table 3.

PREFACE to version 1.3

The IMOS file naming discussion document has now been implemented as the IMOS NetCDF file naming convention.

Version 1.3 of the IMOS file naming convention has incorporated an extra **data code**: 'P' for pressure of sea water. **Data code** 'F' has been defined more clearly.

A number of facilities have provided **platform codes** which are now included in Reference Table 3.

PREFACE to version 1.2

Version 1.2 of the IMOS file naming convention incorporates a small number of additional **data codes** requested by users after the release of v 1.1 :

F = Fluxes
K = Chemistry
R = Raw Data

Some facilities have provided us with extended lists of **platform codes**. The platform code table (Reference Table 3) has been updated to incorporate these codes.

If platform codes for your facility are not listed in this document, please provide the code table to eMII.

PREFACE to version 1.1

Thank you to everyone for your responses to our original file naming discussion document (1.0). The input we've received has been valuable and thought-provoking and we hope has lead to a better and more useful convention, outlined here in discussion document 1.1.

Summary of IMOS facility reponses to discussion document version 1.0 :

- File names should be human-readable with less codes
- Platform codes need to be more flexible
- Data versions should be included: eg Level 0 = raw, Level 1 = …
- Product codes are necessary for creation of unique file names in some facilities eg. 14 day average, 2m gridded data
- Time of file creation and other facility specific file reference codes should be integrated (though perhaps optional)
- End times for data could be included in file names
- Long file names are acceptable

Summary of changes made to document in producing version 1.1 :

- **'Facility codes' were changed to facility acronyms (sub-facilities when necessary).** Some suggested using whole words, eg. 'Moorings', but we decided against this as it could apply to SOTS moorings, ANMN moorings, NRS moorings, Acoustic listening moorings, AATAMS tag receiver moorings or Qld sensor network moorings. Acronyms are more clear for users familiar with IMOS data sets.

- **'Platform codes' are more flexible**, with no limit to the number of characters that can be used.

- **5 levels of data versioning have been defined**. Data versions are identified by the codes FV00 to FV04 as described in this document.

- Optional **'Product codes' have been incorporated into file names.**

- An optional **'Time of creation' field has been incorporated in file names.**

- Optional **'End time' for data has been incorporated into file names.**

In addition :

- File names can be up to 255 characters long
- Date / time format complies with ISO 8601. eMII strongly prefer that all date / time fields are in UTC but have provided guidelines for local time if required.

As in version 1.0, we have provided example file names for each facility.

Please provide eMII with feedback on this discussion document if you believe that these suggestions will not work for your facility.

1 - FILE NAMING CONVENTION

For many data types, **IMOS** uses the netCDF (network Common Data Form) system, a set of software libraries and machine-independent data formats that support the creation, access, and sharing of array-oriented scientific data. [1]

The main purpose of this document is to specify the format of filenames that will be used to distribute **IMOS** data in netCDF format.

IMOS netCDF file naming conventions are based on those prescribed by the **OceanSITES** User's Manual, version 1.1. The **OceanSITES** program is a global network of open-ocean sustained time series reference stations that have been implemented by an international partnership of researchers. More information about this project is available at **http://www.oceansites.org**.

1.1 - Data file naming convention

The file name extension of each **netCDF file** must be **".nc".**

Filenames can be up to 255 characters in length and are composed of up to 10 fields separated by '_' (underscore) characters.

Characters which can be used within fields are letters (A to Z) and whole numbers (0 to 9). The hyphen character (-) may also be used within fields.

The NetCDF file name format is:

IMOS_<Facility-Code>_<Data-Code>_<Start-date>_<Platform-Code>_FV<File-Version>_

<Product-Type>_END-<End-date>_C-<Creation_date>_<PARTX>.nc

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[1] http://www.unidata.ucar.edu/software/netcdf/

The first 6 fields are mandatory and must conform to the following content guidelines:

1. IMOS: Name of the project [2]

2. <Facility-Code> : code representing a facility (and a sub-facility if applicable) (see 1.1.1 - Reference Table 1: Facility Codes).

3. <Data-Code>: list of data codes from reference table 2. The data codes are descriptors of the primary parameters measured. Data codes do not list secondary parameters (see 1.1.2 - Reference Table 2: Data Codes).

4. <Start-date>: start date and time of the measurement, not of file creation. The date and time are formatted to international standard ISO8601. eMII requests that the time be in UTC.

   Date format is: YYYYMMDDTHHMMSSZ where T is the delimiter between date and time and Z indicates that time is in UTC. If time is not in UTC, local time must be shown as hours plus or minus from the longitudinal meridian. Z is not appended when local time is used. Examples of the time format are below.

   - 20081024T080000Z (UTC)

   - 20081024T180000+10 (Local)

   - 20081024T020000-06 (Local)

5. <Platform-Code>: code representing the platform [3] (see 0 Reference Table 3: Platform Codes).

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[2] Any data produced by the IMOS project should be instantly identifiable as 'IMOS' data

[3] **Notes on platform codes:** The platform codes for data file naming conventions (reference table 2) are *under development.*

Platform codes must be unique within an **IMOS** facility and must apply to either one particular unit of equipment or to one particular location.

To finalise platform codes, eMII needs more information about the formats of different 'platform' codes that are currently used by each facility. eMII anticipate that the codes already in use within many facilities will be suitable.

Characters which can be used are capital letters (A to Z) and whole numbers (0 to 9). The hyphen character (-) may also be used.

6. <File-Version>: value representing the version of the file (see 1.1.4 Reference Table 4: File Version Codes).

The following 4 fields are optional:

7. <Product-Type>: This code will give information about the product included in the dataset.

8. <End-date>: end date and time of the measurement. The data format is the same as the start date. The code should be preceded by the following four characters END-. An example of the format of the end date should be: "END-20081112T231255Z"

9. <Creation-date>: creation date and time of the file. The data format is the same as the start and end date. The code should be preceded by the two characters C-. An example of the format of the creation date should be "C-20081112T231255Z".

10. <_PARTX>: when an IMOS data file size becomes excessive (eg: >100Mb), it can be split in smaller parts: PART1, PART2,….,PARTN

1.1.1 - Reference Table 1: Facility Codes

Facility	Sub-Facility (if applicable)	Code
Argo		ARGO
SOOP	Multi-disciplinary Underway Network XBT	SOOP-XBT
	Multi-disciplinary Underway Network CO2	SOOP-CO2
	Multi-disciplinary Underway Network CPR	SOOP-CPR
	Sensors on Tropical Research Vessels	SOOP-TRV
	Sea Surface Temperature Sensors	SOOP-SST
	Research Vessel Real Time Air-Sea Fluxes	SOOP-ASF
	Bio-Acoustic	SOOP-BA
	Sensors on Temperate Merchant Vessels	SOOP-TMV
ABOS	Southern Ocean Time Series	ABOS-SOTS
	Air-Sea Flux Stations	ABOS-ASFS
	Deepwater Arrays	ABOS-DA
ANFOG		ANFOG
AUV		AUV
ANMN	Queensland and Northern Australia	ANMN-QLD
	New South Wales	ANMN-NSW
	Southern Australia	ANMN-SA
	Western Australia	ANMN-WA
	Passive Acoustic Observatories	ANMN-PA
	National Reference Stations Analysis and Coordination	ANMN-NRS
	Acidification Moorings	ANMN-AM
ACORN		ACORN
AATAMS		AATAMS
FAIMMS		FAIMMS
SRS	Australian Satellite SST L2P Products	SRS-A

	Australian Ocean Distributed Archive and Access Centre	SRS-B
	Upgrade Hobart Ground Station	SRS-C
	Satellite Altimetry Calibration and Validation	SRS-Altimetry
	Bio-Optical database of Australian waters	SRS-OC-BODBAW
	Lucinda Jetty Coastal Observatory	SRS-OC-LJCO
	Upgrade Townsville Ground Station	SRS-D

1.1.2 - Reference Table 2: Data Codes

Data Code	Meaning
A	Acoustic measurements
B	Biology (plankton, fluorescence)
C	Conductivity (electrical conductivity of sea water)
E	Engineering or technical parameters
F	Fluxes (e.g. radiation, latent heat, sensible heat)
G	Gas (measurement and fluxes)
I	Images
K	Chemistry (nutrients, trace metals)
M	Meteorological parameters (e.g. wind, air pressure, air temperature)
O	Oxygen concentration (in sea water)
P	Pressure
R	Raw data
S	Salinity (of sea water)
T	Temperature (of sea water)
U	Turbidity (of sea water)
V	Velocity (of sea water)
W	Wave parameters (significant wave height,

	peak period, peak direction …)

1.1.3 Reference Table 3: Platform Codes

	Facility	Sub-facility	Platform Codes	Platform Description	Code Description
1	Argo		Argo convention		No change to Argo data/file name formats
2	SOOP	2a(i) XBT	PX34	Sydney - Wellington	XBT line identifier
			IX28	Hobart - Dumont D'Urville	
			PX30-31	Brisbane – Noumea - Suva/ Lautoka	
			IX1	Fremantle - Sunda Strait	
			IX12	Fremantle - Red Sea	
			PX2	Flores Sea - Torres Strait	
			IX22-PX11	Port Hedland - Japan	
			IX15-IX31	Mauritius – Fremantle-Melbourne	
			IX15	Mauritius- Fremantle	
			IX21-IX06	Cape of Good Hope – Mauritius – Malacca Strait	
			IX21	Cape of Good Hope - Mauritius	
			IX8	Mauritius - Bombay	
			IX9	Fremantle – Persian Gulf	
			PX06	Suva - Auckland	
			PX13	New Zealand - California	
			PX17	Tahiti - Panama	
			PX28	Tahiti – Auckland	
			PX31	Noumea - Suva	
			PX33	Hobart – Macquarie Island	
			PX35	Melbourne - Dunedin	
			PX3	Coral Sea	
			PX55	Melbourne – Wellington	
			PX57	Brisbane – Wellington	
			PX5	Brisbane – Japan	
			SO	Southern Ocean	
			Tasman-Sea	Tasman Sea	
		2a(ii) CO2	VLHJ	RV Southern Surveyor	Ship callsign
			FHZI	RV L'Astrolabe	
			VNAA	RSV Aurora Australis	
		2a(iii) CPR	Unknown		ID for CPR deployed, 2-6 letter/number codes eg. Unit 1 = U001 *or* CPR line if more

						appropriate
		2b Trop Res	VNCF	Cape Ferguson		Ship code :
			VMQ9273	Solander		Callsign/AIMS code
		2c SST	VLHJ	RV Southern Surveyor		Ship callsign *or* WMO
			VHW5167	MV Seaflyte (Rottnest Island Ferry)		code
			FHZI	RV L'Astrolabe		
			VNAA	RSV Aurora Australis		
			VLST	MV Spirit of Tasmania I		
			VNSZ	MV Spirit of Tasmania II		
			VJQ7467	MV Fantasea (Whitsundays Ferry)		
			C6FS9	MV Stadacona		
			VNAH	MV Portland		
			MNPJ3	MV Pacific Sun		
			VROB	MV Kiribati Chief		
			VNVR	MV Iron Yandi		
			V2BJ5	MV ANL Yarunga		
			VRZN9	Pacific Celebes		
			ZMFR	Tangaroa		
		2d A-S Flux		As for 2c SST Platform Codes		Ship callsign *or* WMO code
3	ABOS	ABOS-SOTS	SAZOTS	Sub-Antarctic Sediment trap mooring		
			PULSE5H	Pulse 5 'heavy' mooring		
			PULSE5L	Pulse 5 'light' mooring		
			PULSE6	Pulse 6 mooring		
		ABOS-SOFS	SOFS	Southern Ocean Flux Station mooring		
		ABOS-DA	EAC1	East Australian Current 1 mooring		
			EAC2	East Australian Current 2 mooring		
			EAC3	East Australian Current 3 mooring		
			EAC4	East Australian Current 4 mooring		
			EAC5	East Australian Current 5 mooring		
			ITFOMB	Ombai mooring		
			ITFTIN	Timor North mooring		
			ITFTSL	Timor Sill mooring		
			POLYNYA1	Polynya 1 mooring		
			POLYNYA2	Polynya 2 mooring		
			POLYNYA3	Polynya 3 mooring		
4	ANFOG		SG151	Seaglider		Manufacturer unit

			SG152	Seaglider	number
			SG153	Seaglider	
			SG154	Seaglider	
			SG155	Seaglider	
			SG514	Seaglider	
			SG516	Seaglider	
			SG517	Seaglider	
			SG519	Seaglider	
			SG520	Seaglider	
			SG521	Seaglider	
			SL130	Slocum	
			SL104	Slocum	
			SL106	Slocum	
			SL109	Slocum	
5	AUV		SIRIUS		If other AUVs are recruited to the facility, they will need codes
6	ANMN	6a QLD	GBROTE	One Tree East	AIMS mooring codes
			GBRHIS	Heron Island South	
			GBRHIN	Heron Island North	
			GBRELR	Elusive Reef	
			GBRCCH	Capricorn Channel	
			GBRMYR	Myrmidon	
			GBRPPS	Palm Passage	
			GBRLSH	Lizard Shelf	
			GBRLSL	Lizard Slope	
			ITFJBG	Joseph Bonaparte Gulf	
			ITFFTB	Flat Top Banks	
			ITFMHB	Margaret Harries Banks	
			ITFTIS	Timor South	
			KIM050	Kimberley 50m	
			KIM100	Kimberley 100m	
			KIM200	Kimberley 200m	
			KIM400	Kimberley 400m	
			PIL050	Pilbara 50m	
			PIL100	Pilbara 100m	
			PIL200	Pilbara 200m	
		6b NSW	BMP090	Batemans Marine Park 90m	NSW-IMOS mooring codes
			BMP120	Batemans Marine Park 120m	
			CH100	Coffs Harbour 100m	
			CH070	Coffs Harbour 70m	
			SYD100	Sydney 100m	
			SYD140	Sydney 140m	

			PH100	Port Hacking 100m	
			JB070	Jervis Bay	
			ORS065	Ocean Reference Station Sydney	
		6c SA	SAM1DS	M1 Deep Slope	SAIMOS mooring codes
			SAM2CP	M2 Cabbage Patch	
			SAM3MS	M3 Mid-Slope	
			SAM4CY	M4 Canyons	
			SAM5CB	M5 Coffin Bay	
			SAM6IS	M6 Investigator Strait	
			SAM7DS	M7 Deep-Slope	
			SAM8SG	M8 Spencer Gulf Mouth	
		6d WA	WATR05	Two Rocks 50m	WAIMOS mooring codes
			WATR10	Two Rocks 100m	
			WATR15	Two Rocks 150m	
			WATR20	Two Rocks 200m (BGC)	
			WATR50	Two Rocks 500m	
			WACA20	Canyon 200m Head (BGC)	
			WACANO	Canyon 500m North	
			WACASO	Canyon 500m South	
		6e Acoustic	PAPCA1	Perth Canyon, WA 1	Acoustic mooring site codes
			PAPCA2	Perth Canyon, WA 2	
			PAPCA3	Perth Canyon, WA 3	
			PAPCA4	Perth Canyon, WA 4	
			PAPOR1	Portland, VIC 1	
			PAPOR2	Portland, VIC 2	
			PAPOR3	Portland, VIC 3	
			PAPOR4	Portland, VIC 4	
			PASYD1	Sydney, NSW 1	
			PASYD2	Sydney, NSW 2	
			PASYD3	Sydney, NSW 3	
			PASYD4	Sydney, NSW 4	
		6f NRS	NRSYON	Yongala, QLD	NRS site codes (multiple platforms at some sites)
			NRSDAR	Darwin, NT	
			NRSROT	Rottnest, WA	
			NRSMAI	Maria Island, TAS	
			NRSKAI	Kangaroo Island, SA	
			NRSESP	Esperance, WA	
			NRSNIN	Ningaloo, WA	
			NRSNSI	North Stradbroke Island, QLD	
			NRSPHB	Port Hacking, NSW	
		6g AM	NRSMAI	Maria Island, TAS	NRS site code where acidification mooring is
			NRSESP	Esperance, WA	

			NRSYON	Yongala, QLD	located
7	ACORN		CBG	Capricorn Bunker Group	ACORN codes
			TAN	CBG Tannum Sands	
			LEI	CBG Lady Elliot Island	
			SAG	South Australia Gulf	
			CSP	SAG Cape Spencer	
			CWI	SAG Cape Wiles	
			BONC	Bonnie Coast	
			NOCR	BONC Noora Creena	
			BFCV	BONC Blackfellows cave	
			COF	Coffs Harbour	
			RRK	COF Red Rock	
			NNB	COF North Nambucca	
			ROT	Rottnest Shelf	
			FRE	ROT Fremantle	
			GUI	ROT Guilderton	
			TURQ	Turquoise Coast	
			SBRD	TURQ Seabird	
			CRVT	TURQ Cervantes	
8	AATAMS		SYD1	Sydney line (1-30)	Location and receiver position e.g. SYD1 = Sydney line position 1, SYD30 = Sydney line position 30.
			PER1	Perth line (1-30)	
			NRETAN1	Ningaloo Reef Ecological Tracking Array North line (1-7)	
			NRETAC1	NRETA Central line (1-7)	
			NRETAS1	NRETA South line (1-18)	
			MAL1	Mallacoota line (1-30)	
			PORT1	Portland line (1-30)	
			COF1	Coffs Harbour line (1-30)	
9	FAIMMS		HIRP1	Heron Island Relay Pole 1	AIMS sensor network codes eg. Heron Island Relay Pole 1 = HIRP1.
			HIRP2	Heron Island Relay Pole 2	
			HIRP3	Heron Island Relay Pole 3	
			HIRP4	Heron Island Relay Pole 4	
			HIRP5	Heron Island Relay Pole 5	
			HIRP6	Heron Island Relay Pole 6	
			HISF1	Heron Island Sensor Float 1	
			HISF2	Heron Island Sensor Float 2	
			HISF3	Heron Island Sensor Float 3	
			HISF4	Heron Island Sensor Float 4	
			HISF5	Heron Island Sensor Float 5	
			HIWS	Heron Island Weather	

				Station	
			HIBSE	Heron Island Base Station	
			DAVSF1	Davis Reef Sensor Float 1	
			DAVSF2	Davis Reef Sensor Float 2	
			DAVSF3	Davis Reef Sensor Float 3	
			DAVSF4	Davis Reef Sensor Float 4	
			DAVSF5	Davis Reef Sensor Float 5	
			LIZRP2	Lizard Island Relay Pole 2	
			LIZSF1	Lizard Island Sensor Float1	
			LIZSF2	Lizard Island Sensor Float2	
			LIZSF3	Lizard Island Sensor Float3	
			LIZSF4	Lizard Island Sensor Float4	
			LIZWS	Lizard Island weather station	
			OTIRP1	One Tree Island Relay Pole 1	
			OTIRP2	One Tree Island Relay Pole 2	
			OTIRP3	One Tree Island Relay Pole 3	
			OTIWS	One Tree Island Weather Station	
			OTIBSE	One Tree Island Base Station	
			OIRP1	Orpheus Island Relay Pole1	
			OIRP2	Orpheus Island Relay Pole2	
			OIRP3	Orpheus Island Relay Pole3	
			OISF1	Orpheus Island Sensor Float 1	
			OISF2	Orpheus Island Sensor Float 2	
11	SRS		Unknown		Data products in netCDF format may need defining 'codes', eg. SSTL2P. These codes may necessarily be quite complex.

1.1.4 Reference Table 4: File Version Codes

The File Version code will enable a file creator to specify the processing version of the file. The different data levels listed below were derived from a discussion paper "Data Standards Framework for the IMOS Instrument Data" prepared by Scott Bainbridge (AIMS) for the AODCJF [4].

File Version	Definition	Description
FV00	Level 0 – Raw data	Raw data is defined as unprocessed data and data products that have not undergone quality control. The data may be in engineering units or physical units, time and locations details can be in relative units and values can be pre-calibration measurements. Level 0 data is not suitable for public access within IMOS.
FV01	Level 1 – Quality Controlled data	Quality controlled data have passed quality assurance procedures such as routine estimation of timing and sensor calibration or visual inspection and removal of obvious errors. The data are in physical units using standard SI metric units with calibration and other routine pre-processing applied, all time and location values are in absolute coordinates to agreed to standards and datum, metadata exists for the data or for the higher level dataset that the data belongs to. This is the standard IMOS data level and is what should be made available to eMII and to the IMOS community.
FV02	Level 2 – Derived Products	Derived products require scientific and technical interpretation. Normally these will be defined by the community that collects or utilises the data.
FV03	Level 3 – Interpreted Products	These products require researcher driven analysis and interpretation, model based interpretation using other data and / or strong prior assumptions.
FV04	Level 4 – Knowledge Products	These products require researcher driven scientific interpretation and multidisciplinary data integration and include model-base interpretation using other data and/or strong prior assumptions.

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[4] http://www.aodc.gov.au/

1.2 - Examples

Example data file names for each **IMOS** facility can be found in this section. These examples are suggestions only.

Please provide eMII with feedback on this discussion document if you believe that these suggestions will not work for your facility.

1.2.1 -Facility 1: ARGO

eMII intend to use the internationally accepted Argo netCDF conventions for GDAC data file naming, ie:

<FloatID>_prof.nc, <FloatID>_traj.nc, <FloatID>_meta.nc, <FloatID>_tech.nc

1.2.2 -Facility 2: SOOP

2a Multidisciplinary Underway Network

XBT

IMOS_SOOP-XBT_T_20080501T100000Z_PX02_FV01.nc

This file would contain quality controlled Temperature data starting from the 1st May 2008 at 10:00 UTC and collected along XBT line PX02 by the XBT group in the **IMOS** SOOP Multidisciplinary Underway Network sub-facility.

CO2

IMOS_SOOP-CO2_GST_20080901T120000Z_VLHJ_FV01.nc

This file would contain quality controlled Gas, Salinity and Temperature data starting from the 1st September 2008 at 12:00 UTC and collected with the CO2 system (and associated underway systems) on the Southern Surveyor by the CO2 group in the **IMOS** SOOP Multidisciplinary Underway Network sub-facility.

CPR

IMOS_SOOP-CPR_B_20080901T120000Z_U001_FV01.nc

This file would contain quality controlled Biological data starting from the 1st September 2008 at 12:00 UTC collected with CPR Unit 1 by the CPR group in the **IMOS** SOOP Multidisciplinary Underway Network sub-facility.

2b Sensors on Tropical Research Vessels

IMOS_SOOP-TRV_BTS_20081011T083000Z_VNCF_FV01.nc

This file would contain quality controlled Biological, Temperature and Salinity data starting from the 11th October 2008 at 08:30 UTC collected on RV Cape Ferguson by the **IMOS** SOOP Sensors on Tropical Research Vessels sub-facility.

2c SST

IMOS_SOOP-SST_T_20081030T122500Z_VHW5167_FV00.nc

This file would contain raw Temperature data starting from the 30th of October 2008 at 12:25 UTC, collected from the Rottnest Island Ferry (callsign VHW5167) by the **IMOS** SOOP SST sub-facility.

2d Air-Sea Flux

IMOS_SOOP-ASF_MT_20080204T100000Z_VLHJ_FV01.nc

This file would contain quality controlled Meteorological and Temperature data starting from the 4th of February 2008 at 10:00 UTC, collected from the Southern Surveyor (callsign VLHJ) by the **IMOS** SOOP Air-Sea Flux sub-facility.

1.2.3 -Facility 3: SOTS

IMOS_SOTS_E_20081011T083000Z_PULSEH_FV00.nc

This file would contain raw Engineering data starting from the 11th October 2008 at 08:30 UTC collected by the Heavy Pulse platform of the **IMOS** SOTS facility.

1.2.4 -Facility 4: ANFOG

IMOS_ANFOG_TS_20081011T083000Z_SG154_FV01.nc

This file would contain quality controlled Temperature and Salinity data starting from the 11th October 2008 at 08:30 UTC collected by Seaglider Unit 154 of the **IMOS** ANFOG facility.

1.2.5 -Facility 5: AUV

IMOS_AUV_TS_20080812T122500Z_SIRIUS_FV00.nc

This file would contain raw Temperature and Salinity data starting from the 12th August 2008 at 12:25 UTC collected by AUV Sirius of the **IMOS** AUV facility.

1.2.6 -Facility 6: ANMN

6a Qld and Northern Aust

IMOS_ANMN-QLD_VT_20080801T000000Z_GBRMYR_FV01.nc

This file would contain quality controlled Current Velocity and Temperature data starting from the 1st August 2008 at 00:00 UTC and collected at the Myrmidon mooring site by the **IMOS** ANMN Queensland and Northern Australia sub-facility.

6b NSW

IMOS_ANMN-NSW_VT_20080801T000000Z_JB070_FV01.nc

This file would contain quality controlled Current Velocity and Temperature data starting from the 1st August 2008 at 00:00 UTC and collected at the Jervis Bay mooring site by the **IMOS** ANMN NSW sub-facility.

6c SA

IMOS_ANMN-SA_VT_20080801T000000Z_SAM1DS_FV01.nc

This file would contain quality controlled Current Velocity and Temperature data starting from the 1st August 2008 at 00:00 UTC and collected at the M1 Deep Slope mooring site by the **IMOS** ANMN SA sub-facility.

6d WA

IMOS_ANMN-WA_VT_20080801T000000Z_WATR05_FV01.nc

This file would contain quality controlled Current Velocity and Temperature data starting from the 1st August 2008 at 00:00 UTC and collected at the Two Rocks 50m mooring site by the **IMOS** ANMN WA sub-facility.

6e Acoustic Observatories

IMOS_ANMN-PA_B_20080801T000000Z_PAPCA1_FV00.nc

This file would contain raw Biological data starting from the 1st August 2008 at 00:00 UTC and collected at the Perth Canyon 1 mooring site by the **IMOS** ANMN Acoustic Observatories sub-facility.

6f NRS

IMOS_ANMN-NRS_STV_20080801T000000Z_NRSMAI_FV01.nc

This file would contain quality controlled Salinity, Temperature, Current Velocity and data starting from the 1st August 2008 at 00:00 UTC and collected at the Maria Island mooring site by the **IMOS** ANMN NRS sub-facility.

1.2.7 - Facility 7: ACORN

IMOS_ACORN_VW_20081122T133000Z_TAN_FV01.nc

This file would contain quality controlled current Velocity and Wave parameters from the Queensland radar site located at Tannum Sands and Elliot Islands, from the **IMOS** ACORN facility and for the date of 22nd of November 2008 at 13:30 UTC.

1.2.8 -Facility 8: AATAMS

IMOS_AATAMS_B_20081231T013000Z_NL4_FV01.nc

This file would contain quality controlled Biological data starting from the 31st December 2008 at 01:30 UTC collected at location 4 on the North Line acoustic receiver installation of the **IMOS** AATAMS facility.

1.2.9 -Facility 9: FAIMMS

IMOS_FAIMMS_T_20081231T013000Z_HIRP1_FV01.nc

This file would contain quality controlled Temperature data starting from the 31st December 2008 at 01:30 UTC collected on Heron Island Relay Pole 1 by the **IMOS** FAIMMS facility.

1.2.10 -   Facility 11: SRS

IMOS_SRS-A_T_20080801T231000Z_AVHRR17-L-AVHRR18-L_FV03_ L3-GHRSST-SSTsubskin-14day-mosaic _C-20081112T125500Z.nc

This file would contain Temperature data in a 'SST subskin' product as a 14 day mosaic from the L3-GHRSST-AVHRR17-L platform starting from the 1st August 2008 at 23:10 UTC, produced by the **IMOS** SRS facility.