**ANMN - Report templates**

This document contains information to produce reports for the following sub-facilities: ANMN – QLD & NA, NSW, SA, WA, NRS, and Acidification Moorings, Passive Acoustic Observatories, NRS Biogeochemical sampling, and NRS Real-Time data.

Number of data reports: 21.

# 1. ANMN facility

## 1.1 Data summary

### Filename: ‘ANMN\_NRSandRMA\_Summary’

### Description: ‘Data summary’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘subfacility’, then by ASCENDING ’site\_code’, and then by ASCENDING ’data\_category’.

Data grouping options: Group by ‘subfacility’, sub-group by ‘site\_name\_code’.

Total: Calculate for each sub-facility the total number of sites, data categories, deployments, FV 00 and FV01 files, along with the temporal, latitudinal, longitudinal and depth range of those data. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘ANMN’.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **AM** | **NRS** | **NSW** | **QLD & NA** | **SA** | **WA** | **TOTAL** |
| ***# sites (‘no\_projects’)*** |  |  |  |  |  |  |  |
| ***# data categories recorded (‘no\_instruments’)*** |  |  |  |  |  |  |  |
| ***# deployments (‘no\_deployments’)*** |  |  |  |  |  |  |  |
| ***# FV00 files (‘no\_data’)*** |  |  |  |  |  |  |  |
| ***# FV01 files (‘no\_data2’)*** |  |  |  |  |  |  |  |
| ***Temporal range (‘temporal\_range’)*** |  |  |  |  |  |  |  |
| ***Latitudinal range (‘lat\_range’)*** |  |  |  |  |  |  |  |
| ***Longitudinal range (‘lon\_range’)*** |  |  |  |  |  |  |  |
| ***Depth range (‘depth\_range’)*** |  |  |  |  |  |  |  |

Footnote: **Headers:** Name of ANMN sub-facility.  
**Sub-headers**: Moorings site name (site code), and latitude/longitude coordinates. **Data category:** Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories. **‘# FV00’**: Total number of non-quality controlled datasets.  
**‘# FV01’**: Total number of quality controlled datasets.  
**‘Start’**: Earliest deployment start date (format: dd/mm/yyyy).  
**‘End’**: Latest deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the ’Start’ and ‘End’ dates.  
**‘% coverage’:** Number of days with data as a percentage of the time coverage (*i.e.* % coverage = .  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
  
  
  
**QLD & NA**: Queensland and Northern Australia Moorings (<http://imos.org.au/anmnqld.html>).  
**SA**: Southern Australia Moorings (<http://imos.org.au/anmnsa.html>).  
**WA**: Western Australia Moorings (<http://imos.org.au/anmnwa.html>).

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **data\_category** | **no\_deployments** | **no\_fv00** | **no\_fv01** | **earliest\_date** | **latest\_date** | **coverage\_duration** | **percent\_coverage** |
| Data category | # deployments | # FV00 | # FV01 | Start | End | Time coverage (days) | % coverage |
| Headers = subfacility | | | | | | | |
| Sub-headers = site\_name\_code | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.2 Data report – New data on the portal (last month)

### Filename: ‘ANMN\_newDeployments’

### Description: ‘New data on the portal (since DATE)’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **Views** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘data\_on\_portal’ is less than one month ago.

Data sorting options: None, data are already sorted by ASCENDING ‘subfacility’, then by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘subfacility’, sub-group by ‘site\_name\_code’.

Footnote: **Headers:** Name of ANMN sub-facility.  
**Sub-headers**: Moorings site name (site code), and latitude/longitude coordinates.  
**Data category:** Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
 **‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**AM**: Acidification Moorings (<http://imos.org.au/acidificationmoorings.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).  
**NSW**: New South Wales Moorings (<http://imos.org.au/anmnnsw.html>).  
**QLD & NA**: Queensland and Northern Australia Moorings (<http://imos.org.au/anmnqld.html>).  
**SA**: Southern Australia Moorings (<http://imos.org.au/anmnsa.html>).  
**WA**: Western Australia Moorings (<http://imos.org.au/anmnwa.html>).

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **data\_category** | **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Data category | Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = subfacility | | | | | | | |
| Sub-headers = site\_name\_code | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.3 Data report – Data with missing information

### Filename: ‘ANMN\_MissingInformation’

### Description: ‘Data with missing information’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **Views** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘missing\_info’ IS NOT NULL.

Data sorting options: Sort data by ASCENDING ‘missing\_info’, then by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘missing\_info’, sub-group by ‘site\_name\_code’.

Footnote: **Headers:** Facility/sub-facility responsible for the missing information.  
**Sub-headers**: Moorings site name (site code), and latitude/longitude coordinates.  
**Data category:** Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**‘Mean time to upload data’**: Mean number of days necessary to process and upload data onto the eMII server.  
**‘Mean time to publish data’:** Mean number of days necessary to make data available through Opendap and the IMOS portal from the date the data is on the eMII server.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**AM**: Acidification Moorings (<http://imos.org.au/acidificationmoorings.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).  
**NSW**: New South Wales Moorings (<http://imos.org.au/anmnnsw.html>).  
**QLD & NA**: Queensland and Northern Australia Moorings (<http://imos.org.au/anmnqld.html>).  
**SA**: Southern Australia Moorings (<http://imos.org.au/anmnsa.html>).  
**WA**: Western Australia Moorings (<http://imos.org.au/anmnwa.html>).

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **data\_category** | **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Data category | Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = missing\_info | | | | | | | |
| Sub-headers = site\_name\_code | | | | | | | |
|  |  |  |  |  |  |  |  |

# 2. ANMN sub-facilities

## 2.1 Data report – all ANMN – QLD & NA data available on the portal

### Filename: ‘A\_ANMN\_QLDandNA\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – QLD & NA’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘QLD’.

Data sorting options: Sort data by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**QLD**: Queensland and Northern Australia Moorings (<http://imos.org.au/anmnqld.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

## 2.2 Data report – all ANMN – NSW data available on the portal

### Filename: ‘A\_ANMN\_NSW\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – NSW’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘NSW’.

Data sorting options: Sort data by ASCENDING ‘site \_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**NSW**: New South Wales Moorings (<http://imos.org.au/anmnnsw.html>).

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** | |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage | |
| Headers = site\_name\_code | | | | | | | |
| Sub-headers = data\_category | | | | | | | |
|  |  |  |  |  |  |  | |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

## 2.3 Data report – all ANMN – SA data available on the portal

### Filename: ‘A\_ANMN\_SA\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – SA’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘SA’.

Data sorting options: Sort data by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**SA**: Southern Australia Moorings (<http://imos.org.au/anmnsa.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

## 2.4 Data report – all ANMN – WA data available on the portal

### Filename: ‘A\_ANMN\_WA\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – WA’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘WA’.

Data sorting options: Sort data by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**WA**: Western Australia Moorings (<http://imos.org.au/anmnwa.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

## 2.5 Data report – all ANMN – NRS data available on the portal

### Filename: ‘A\_ANMN\_NRS\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – NRS’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘NRS’.

Data sorting options: Sort data by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

## 2.6 Data report – all ANMN – Acidification Moorings data available on the portal

### Filename: ‘A\_ANMN\_AcidificationMoorings\_allData\_dataOnPortal’

### Description: ‘All data available on the portal – Acidification Moorings’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_all\_deployments\_view |

Filters: List all data for which ‘subfacility’ = ‘AM’.

Data sorting options: Sort data by ASCENDING ‘site\_code’, then by ASCENDING ‘data\_category’, and then by ASCENDING ‘deployment\_code’.

Data grouping options: Group by ‘site\_name\_code’, sub-group by ‘data\_category’.

Footnote: **Headers:** Moorings site name (site code), and latitude/longitude coordinates.  
**Sub-headers**: Data category – Broad category for the set of parameters measured. ‘*Temperature*’ = temperature and pressure only; *‘CTD\_timeseries’* = conductivity (salinity), temperature and pressure (depth); *‘Biogeochem\_timeseries’* = CTD plus chemical & biological parameters; *‘Velocity’* = current profiles. 'CTD\_timeseries' and 'Biogeochemical\_timeseries' come from similar instruments that differ only in the inclusion of additional sensors. For some moorings, this has varied from one deployment to the next. In such cases the total time coverage of temperature and salinity is the combined coverage of these two categories.  
**‘# FV00’**: Number of non-quality controlled datasets.  
**‘# FV01’**: Number of quality controlled datasets.  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start and end dates.  
**‘Data coverage’:** Number of days with data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**AM**: Acidification Moorings (<http://imos.org.au/acidificationmoorings.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **deployment\_code** | **no\_fv00** | **no\_fv01** | **start\_date** | **end\_date** | **coverage\_duration** | **data\_coverage** |
| Deployment code | # FV00 | # FV01 | Start | End | Time coverage (days) | Data coverage |
| Headers = site\_name\_code | | | | | | |
| Sub-headers = data\_category | | | | | | |
|  |  |  |  |  |  |  |

# 3. ANMN Passive Acoustic Observatories

## 3.1 Data summary

### Filename: ‘ANMN\_PassiveAcoustic\_Summary’

### Description: ‘Data summary’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_acoustics\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’.

Total: Calculate the total number of sites, loggers deployed, deployments, loggers with good data, number of datasets on the Acoustic Viewer, along with the temporal range of those data. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘ANMN’, ‘subfacility’ = ‘PA’.*

***Total number of sites (‘no\_projects’): XX  
Total number of deployment campaigns (‘no\_deployments’): XX  
Total number of loggers deployed (‘no\_instruments’): XX  
Total number of loggers with good data (‘no\_data’): XX  
Total number of datasets on the Acoustic Viewer (‘no\_data2’): XX  
Temporal range (‘temporal\_range’): XX***

Footnote: **Headers:** Names of acoustic observatories.  
**‘# loggers’**: Total number of loggers deployed.  
**‘# loggers with good data’**: Total number of loggers that successfully obtained 6kHz recordings.  
**‘# loggers with clock sync data’**: Number of loggers that obtained 22kHz recordings (used for synchronising clocks between loggers). **‘# sets on Acoustic Viewer’**: Total number of datasets accessible via the IMOS Acoustic Data Viewer.  
**‘Start’**: First deployment start date (format: dd/mm/yyyy).  
**‘End’**: Last deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the first deployment start date and the last deployment end date.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**PAO**: Passive Acoustic Observatories (<http://imos.org.au/anmnacous.html>).  
**IMOS Acoustic Data Viewer**: <http://acoustic.aodn.org.au/acoustic/>.

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **deployment\_year** | **no\_loggers** | **no\_good\_data** | **no\_good\_22** | **no\_on\_viewer** | **earliest\_date** | **latest\_date** | **coverage\_duration** |
| Deployment year | # loggers | # loggers with good data | # loggers with clock sync data | # sets on Acoustic Viewer | Start | End | Time coverage (days) |
| Headers = site\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

## 3.2 Data report – all ANMN – Passive Acoustic data available on the portal

### Filename: ‘A\_ANMN\_PassiveAcoustic\_allData\_dataOnPortal’

### Description: ‘All data available on the portal’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_acoustics\_all\_deployments\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’, sub-group by ‘deployment\_year’.

Footnote: **Headers:** Names of acoustic observatories.  
**Sub-headers**: Deployment year.  
**‘Good data’**: Did the logger obtain useful recordings (at 6kHz sampling rate)?   
**‘Good clock sync data’**: Did the logger obtain useful 22kHz recordings? (used for synchronising clocks between loggers)?  
**‘Data on Acoustic Viewer’**: Is the dataset accessible via the IMOS Acoustic Data Viewer?  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**PAO**: Passive Acoustic Observatories (<http://imos.org.au/anmnacous.html>).  
**IMOS Acoustic Data Viewer**: <http://acoustic.aodn.org.au/acoustic/>.

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **logger\_id** | **good\_data** | **good\_22** | **on\_viewer** | **start\_date** | **end\_date** | **coverage\_duration** |
| Logger ID | Good data | Good clock sync data | Data on Acoustic Viewer | Start | End | Time coverage (days) |
| Headers = site\_name | | | | | | |
| Sub-headers = deployment\_year | | | | | | |
|  |  |  |  |  |  |  |

NOTE: If possible, display all Boolean False values as blank cells, and True values as “Y” or “Yes”.

## 3.3 Data report – New data on the portal (last month)

### Filename: ‘ANMN\_PassiveAcoustic\_newDeployments’

### Description: ‘New data on the portal (since DATE)’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_acoustics\_all\_deployments\_view |

Filters: List all data for which ‘end\_date’ is less than one month.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_name’, then by ASCENDING ‘deployment\_year’, and then by ASCENDING ‘logger\_id’.

Data grouping options: Group by ‘site\_name’, sub-group by ‘deployment\_year’.

Footnote: **Headers:** Names of acoustic observatories, and latitude/longitude coordinates.  
**Sub-headers**: Deployment year.  
**‘Good data’**: Did the logger record at a frequency of 6 and 22 Hz?  
**‘Data on Acoustic Viewer’**: Is the dataset on the IMOS Acoustic Data Viewer?  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**PAO**: Passive Acoustic Observatories (<http://imos.org.au/anmnacous.html>).  
**IMOS Acoustic Data Viewer**: <http://acoustic.aodn.org.au/acoustic/>.

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **logger\_id** | **good\_data** | **on\_viewer** | **depth** | **start\_date** | **end\_date** | **coverage\_duration** |
| Logger ID | Good data | Data on Acoustic Viewer | Depth (m) | Start | End | Time coverage (days) |
| Headers = site\_name | | | | | | |
| Sub-headers = deployment\_year | | | | | | |
|  |  |  |  |  |  |  |

## 3.4 Data report – Data with missing information

### Filename: ‘ANMN\_PassiveAcoustic\_MissingInformation’

### Description: ‘Data with missing information’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_acoustics\_all\_deployments\_view |

Filters: List all data for which ‘missing\_info’ IS NOT NULL.

Data sorting options: Sort data by ASCENDING ‘missing\_info’, then by ASCENDING ‘site\_name’, then by ASCENDING ‘deployment\_year’, and then by ASCENDING ‘logger\_id’.

Data grouping options: Group by ‘missing\_info’, sub-group by ‘site\_name’.

Footnote: **Headers:** Facility/sub-facility responsible for the missing information.  
**Sub-headers**: Names of acoustic observatories.  
**‘Good data’**: Did the logger obtain useful recordings (at 6kHz sampling rate)?   
**‘Good clock sync data’**: Did the logger obtain useful 22kHz recordings? (used for synchronising clocks between loggers)?  
**‘Data on Acoustic Viewer’**: Is the dataset accessible via the IMOS Acoustic Data Viewer?  
**‘Start’**: Deployment start date (format: dd/mm/yyyy).  
**‘End’**: Deployment end date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the deployment start end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**PAO**: Passive Acoustic Observatories (<http://imos.org.au/anmnacous.html>).  
**IMOS Acoustic Data Viewer**: <http://acoustic.aodn.org.au/acoustic/>.

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **logger\_id** | **good\_data** | **good\_22** | **on\_viewer** | **start\_date** | **end\_date** | **coverage\_duration** |
| Logger ID | Good data | Good clock sync data | Data on Acoustic Viewer | Start | End | Time coverage (days) |
| Headers = missing\_info | | | | | | |
| Sub-headers = site\_name | | | | | | |
|  |  |  |  |  |  |  |

NOTE: If possible, display all Boolean False values as blank cells, and True values as “Y” or “Yes”.

# 4. ANMN NRS Biogeochemical Sampling

## 4.1 Data summary

### Filename: ‘ANMN\_Biogeochemical\_Summary’

### Description: ‘Data summary’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_bgc\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_name’, and then by ASCENDING ‘product’.

Data grouping options: Group by ‘site\_name\_code’.

Total: Calculate the total number of sampling trips with field logsheets, CTD profile data, hydrological data, suspended matter data, carbon data, pigment data, zooplankton data, and phytoplankton data. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘ANMN’, ‘subfacility’ = ‘BGC’.*

***Total number of sampling trips with field logsheets (‘no\_projects’): XX  
Total number of sampling trips with CTD profile data (‘no\_deployments’): XX  
Total number of sampling trips with hydrological data ( ‘no\_instruments’): XX  
Total number of sampling trips with suspended matter data ( ‘no\_deployments’): XX  
Total number of sampling trips with carbon data ( ‘no\_data’): XX  
Total number of sampling trips with pigment data ( ‘no\_ data2’): XX  
Total number of sampling trips with zooplankton data ( ‘no\_ data3’): XX  
Total number of sampling trips with phytoplankton data ( ‘no\_ data4’): XX  
Temporal range (‘temporal\_range’): XX***

Footnote: **Headers:** Moorings site name (site code).  
**‘Data product’**: Type of data product.   
**‘Field logsheets’**: Logsheet filled out during each field trip, containing metadata for all samples obtained.  
**‘CTD’**: Conductivity, Temperature, Depth profiles obtained during the sampling trip.  
**‘Hydrology’**: Lab measurements of salinity and nutrients from water samples.  
**‘Suspended matter’:** Lab measurements of organic and inorganic suspended matter in water samples.  
**‘Carbon’**: Lab measurements of total CO2 and total alkalinity in water samples.  
**‘Pigments’**: HPLC measurements of phytoplankton pigments in water samples.  
**‘Zooplankton’**: Zooplankton biomass and abundance.  
**‘Phytoplankton’**: Phytoplankton biomass and abundance.  
**‘Start’**: Date of the first sampling trip (format: dd/mm/yyyy).  
**‘End’**: Date of the last sampling trip (format: dd/mm/yyyy).  
**‘# annual trips’**: Mean number of sampling trips per year.  
**‘# trips’**: Total number of sampling trips for which we have each product.  
**‘# trips with all data’**: Number of sampling trips where we have valid data for all samples obtained.  
**‘# trips with some data’**: Number of sampling trips where we have valid data for some, but not all, of the samples obtained.  
**‘# trips with no data’**: Number of sampling trips where samples were obtained but no valid data have been recorded.  
**‘% good samples’**: Overall percentage of *samples* for which we have valid data.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**BGC**: Biogeochemical Sampling ([http://imos.org.au/anmndocuments.html](http://imos.org.au/anmndocuments.html?&no_cache=1&sword_list%5B%5D=biogeochemical)).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **product** | **first\_sample** | **last\_sample** | **trip\_per\_year** | **ntrip\_total** | **ntrip\_full\_data** | **ntrip\_partial\_data** | **ntrip\_no\_data** | **percent\_ok** |
| Data product | Start | End | # annual trips | # trips | # trips with all data | # trips with some data | # trips with no data | % good samples |
| Headers = site\_name\_code | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

## 4.2 Data report – all ANMN – NRS BGC data available on the portal

### Filename: ‘A\_ANMN\_Biogeochemical\_allData\_dataOnPortal’

### Description: ‘All data available on the portal’

View to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_bgc\_all\_deployments\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_code’, and then by ASCENDING ‘sample\_date’.

Data grouping options: Group by ‘site\_name\_code’.

Footnote: **Headers:**  Moorings site name (site code).  
**‘CTD’**: Conductivity, Temperature, Depth profiles obtained during the sampling trip.  
**‘Nutrients’**: Lab measurements of salinity and nutrients from water samples.  
**‘Suspended matter’:** Lab measurements of organic and inorganic suspended matter in water samples.  
**‘Carbon’**: Lab measurements of total CO2 and total alkalinity in water samples.  
**‘Pigments’**: HPLC measurements of phytoplankton pigments in water samples.  
**‘Zooplankton’**: Zooplankton biomass and abundance.  
**‘Phytoplankton’**: Phytoplankton biomass and abundance.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**BGC**: Biogeochemical Sampling ([http://imos.org.au/anmndocuments.html](http://imos.org.au/anmndocuments.html?&no_cache=1&sword_list%5B%5D=biogeochemical)).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).

Add also the following note: ‘For each data product, the status is reported as: # samples with data/ total # samples on record. If the value is blank, there were either no samples taken on that date, or data have not been recorded.’

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sample\_date** | **n\_logsht** | **status\_ctdpro** | **status\_hydall** | **status\_susmat** | **status\_carbon** | **status\_phypig** | **status\_zoo** | **status\_phyto** |
| Sampling date | # field logsheets | CTD | Nutrients | Suspended matter | Carbon | Pigments | Zooplankton | Phytoplankton |
| Headers = site\_name\_code | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

## 4.3 Data report – New data on the portal (last month)

### Filename: ‘ANMN\_BioGeoChemical\_newDeployments’

### Description: ‘New data on the portal (since DATE)’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_bgc\_all\_deployments\_view |

Filters: List all data for which ‘sample\_date’ is less than one month.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_code’, and then by ASCENDING ‘sample\_date’.

Data grouping options: Group by ‘site\_name\_code’.

Footnote: **Headers:** Moorings site name (site code).  
**‘CTD’**: Conductivity, Temperature, Depth profiles obtained during the sampling trip.  
**‘Nutrients’**: Lab measurements of salinity and nutrients from water samples.  
**‘Suspended matter’:** Lab measurements of organic and inorganic suspended matter in water samples.  
**‘Carbon’**: Lab measurements of total CO2 and total alkalinity in water samples.  
**‘Pigments’**: HPLC measurements of phytoplankton pigments in water samples.  
**‘Zooplankton’**: Zooplankton biomass and abundance.  
**‘Phytoplankton’**: Phytoplankton biomass and abundance.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**BGC**: Biogeochemical Sampling (<http://imos.org.au/anmndocuments.html?&no_cache=1&sword_list%5B%5D=biogeochemical>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).

Add also the following note: ‘For each data product, the status is reported as: # samples with data/ total # samples on record. If the value is blank, there were either no samples taken on that date, or data have not been recorded.’

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sample\_date** | **n\_logsht** | **status\_ctdpro** | **status\_hydall** | **status\_susmat** | **status\_carbon** | **status\_phypig** | **status\_zoo** | **status\_phyto** |
| Sampling date | # field logsheets | CTD | Nutrients | Suspended matter | Carbon | Pigments | Zooplankton | Phytoplankton |
| Headers = site\_name\_code | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

## 4.4 Data report – Data with missing information

### Filename: ‘ANMN\_BioGeoChemical\_MissingInformation’

### Description: ‘Data with missing information’

Views to use:

|  |  |
| --- | --- |
| **Server** | dbdev.emii.org.au |
| **Database** | report\_db |
| **Schema** | report |
| **View** | anmn\_bgc\_all\_deployments\_view |

Filters: List all data for which ‘missing\_info’ IS NOT NULL.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_code’, and then by ASCENDING ‘sample\_date’.

Data grouping options: Group by ‘site\_name\_code’.

Footnote: **Headers:** Moorings site name (site code).  
**‘CTD’**: Conductivity, Temperature, Depth profiles obtained during the sampling trip.  
**‘Nutrients’**: Lab measurements of salinity and nutrients from water samples.  
**‘Suspended matter’:** Lab measurements of organic and inorganic suspended matter in water samples.  
**‘Carbon’**: Lab measurements of total CO2 and total alkalinity in water samples.  
**‘Pigments’**: HPLC measurements of phytoplankton pigments in water samples.  
**‘Zooplankton’**: Zooplankton biomass and abundance.  
**‘Phytoplankton’**: Phytoplankton biomass and abundance.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**BGC**: Biogeochemical Sampling (<http://imos.org.au/anmndocuments.html?&no_cache=1&sword_list%5B%5D=biogeochemical>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmnnrs.html>).

Add also the following note: ‘For each data product, the status is reported as: # samples with data/ total # samples on record. If the value is blank, there were either no samples taken on that date, or data have not been recorded.’

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sample\_date** | **n\_logsht** | **status\_ctdpro** | **status\_hydall** | **status\_susmat** | **status\_carbon** | **status\_phypig** | **status\_zoo** | **status\_phyto** |
| Sampling date | # field logsheets | CTD | Nutrients | Suspended matter | Carbon | Pigments | Zooplankton | Phytoplankton |
| Headers = site\_name\_code | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

# 5. ANMN NRS Real-Time

## 5.1 Data summary

### Filename: ‘ANMN\_NRS\_Real-Time\_Summary’

### Description: ‘Data summary’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_nrs\_realtime\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘site\_name’.

Data grouping options: No grouping required.

Total: Calculate the total number of sites, quality controlled datasets, along with the temporal and depth range. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘ANMN’, ‘subfacility’ = ‘NRS - Real-Time’.*

***Total number of sites (‘no\_projects’): XX  
Total number of sensors (‘no\_instruments’): XX  
Total number of quality controlled datasets (‘no\_data’): XX  
Temporal range (‘temporal\_range’): XX  
Depth range (‘depth\_range’): XX***

Footnote: **Site name:** Name of NRS moorings site.  
**# QC’d data**: Number of sensors for which quality controlled data is transmitted.  
**Start**: Data recording earliest date (format: dd/mm/yyyy).  
**End**: Data recording latest date (format: dd/mm/yyyy).  
**Mean time coverage**: Mean number of days between the data recording start and end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmn_instrumentation.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **site\_name** | **nb\_channels** | **no\_qc\_data** | **depth\_range** | **earliest\_date** | **latest\_date** | **mean\_coverage\_duration** |
| Site name | # sensors | # QC’d data | Depth range | Start | End | Mean time coverage (days) |
|  |  |  |  |  |  |  |

## 5.2 Data report – all data on the portal

### Filename: ‘A\_ ANMN\_NRS\_Real-Time\_allData\_dataOnPortal’

### Description: ‘All data available on the portal’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_nrs\_realtime\_all\_deployments\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’, sub-group by ‘channel\_id’.

Footnote: **Headers:** NRS moorings site name.  
**Sub-headers:** Sensor code.   
**QC’d data**: Quality controlled data available for the parameter recorded?  
**Start**: Data recording start date (format: dd/mm/yyyy).  
**End**: Data recording end date (format: dd/mm/yyyy).  
**Time coverage**: Number of days between the data recording start and end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmn_instrumentation.html>).

### Template

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **sensor\_depth** | **qaqc\_data** | **start\_date** | **end\_date** | **coverage\_duration** |
| Sensor depth | QC’d data | Start | End | Time coverage (days) |
| Headers = ‘site\_name’ | | | | |
| Sub-headers = ‘channel\_id’ | | | | |
|  |  |  |  |  |

## 5.3 Data report – New data on the portal (last month)

### Filename: ‘B\_ ANMN\_NRS\_Real-Time\_newDeployments’

### Description: ‘New data on the portal (since DATE)’

View to use:

|  |  |
| --- | --- |
| **Server** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | anmn\_nrs\_realtime\_all\_deployments\_view |

Filters: List all data for which ‘end\_date’ is less than one month.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘site\_name’, sub-group by ‘channel\_id’.

Footnote: **Headers:** NRS moorings site name.  
**Sub-headers:** Sensor code.   
**QC’d data**: Quality controlled data available for the parameter recorded?  
**Start**: Data recording start date (format: dd/mm/yyyy).  
**End**: Data recording end date (format: dd/mm/yyyy).  
**Time coverage**: Number of days between the data recording start and end dates.  
**ANMN:** Australian National Mooring Network (<http://imos.org.au/anmn.html>).  
**NRS**: National Reference Stations (<http://imos.org.au/anmn_instrumentation.html>).

### Template



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **sensor\_depth** | **qaqc\_data** | **start\_date** | **end\_date** | **coverage\_duration** |
| Sensor depth | QC’d data | Start | End | Time coverage (days) |
| Headers = ‘site\_name’ | | | | |
| Sub-headers = ‘channel\_id’ | | | | |
|  |  |  |  |  |