**AATAMS - Report templates**

This document contains information to produce reports for the following sub-facilities: AATAMS – acoustic tagging and AATAMS – satellite tagging. SQL queries on the two AATAMS – satellite tagging views take about 60 seconds each to run.

Number of data reports: 9.

# 1. Acoustic tagging

## 1.1 Data summary – Detections by project

### Filename: ‘AATAMS\_AcousticTagging\_Summary\_Project’

### Description: ‘Data summary – Detections by project’

View to use:

|  |  |
| --- | --- |
| **Server** | db.emii.org.au |
| **Database** | aatams3 |
| **Schema** | public |
| **View** | aatams\_acoustictag\_data\_summary\_project\_view |

Filters: None, all filters have already been applied.

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

Data grouping options: Group by ‘funding\_type’.

Total: Calculate the total number of projects, installations, receiving stations, receivers deployed, and detections for each type of funding. *Use the following view: ‘aatams\_acoustictag\_totals\_project\_view’.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **IMOS receiver pool** | **IMOS funded and co-invested** | **Fully co-invested** | **TOTAL** |
| ***Total number of projects (‘no\_projects’)*** |  |  |  |  |
| ***Total number of installations (‘no\_installations’)*** |  |  |  |  |
| ***Total number of receiving stations (‘no\_stations’)*** |  |  |  |  |
| ***Total number of receivers deployed (‘no\_deployments’)*** |  |  |  |  |
| ***Total number of detections (‘no\_detections’)*** |  |  |  |  |

Footnote: **Headers**: Type of funding.  
**‘# installations’**: Total number of installations. An installation is a configuration of multiple receivers generally identified by a geographic location.   
**‘# stations’**: Total number of receiving stations. A receiving station is a location within an installation where a receiver is deployed.  
**‘# deployments’**: Total number of receiver deployments. The receiver is attached to a mooring at a pre-defined depth.  
**‘# detections’:** Total number of tag detections received and stored on a receiver.  
**‘Start’**: Earliest deployment date (format: dd/mm/yyyy).  
**‘End’**: Latest deployment date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the earliest and latest receiver deployment dates.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **project\_name** | **no\_installations** | **no\_stations** | **no\_deployments** | **no\_detections** | **start\_date** | **end\_date** | **coverage\_duration** |
| Project name | # installations | # stations | # deployments | # detections | Start | End | Time coverage (days) |
| Headers = funding\_type | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.2 Data summary – Detections by species

### Filename: ‘AATAMS\_AcousticTagging\_Summary\_Species’

### Description: ‘Data summary – Detections by species’

View to use:

|  |  |
| --- | --- |
| **Server** | db.emii.org.au |
| **Database** | aatams3 |
| **Schema** | public |
| **View** | aatams\_acoustictag\_data\_summary\_species\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘phylum’, then by ASCENDING ‘order\_name’, and then by ASCENDING ‘spcode’.

Data grouping options: Group by ‘phylum’, sub-group by ‘order\_name’.

Total: Calculate the total number of species tagged, species detected, releases, detections at species level, unique tag IDs detected, tag AATAMS knows about, detected tags AATAMS knows about, and tags detected by species, and add the following lines to the report. *Use the following view: ‘aatams\_acoustictag\_totals\_species\_view’; filter by: ‘statistics\_type’ (e.g. ‘statistics\_type’ = ‘no\_species’).*

***Total number of species tagged (‘no\_species’): XX  
Total number of species detected (‘no\_species\_detected’): XX  
Total number of releases (‘no\_releases’): XX  
Total number of detections at species level (‘no\_detections’): XX  
Total number of unique tag IDs detected (‘no\_unique\_tag\_ids\_detected’): XX  
Total number of tags AATAMS knows about (‘tag\_aatams\_knows\_about’): XX  
Total number of detected tags AATAMS knows about (‘no\_detected\_tags\_aatams\_knows\_about’): XX  
Total number of tags detected by species (‘tags\_detected\_by\_species’): XX***

Footnote: **Headers**: Phylum.  
**Sub-headers**: Order.  
**‘CAAB code’**: Codes for Australian Aquatic Biota (<http://www.marine.csiro.au/caab/>).  
**‘# releases’**: Number of animals that have been released equipped with an acoustic tag.  
**‘# detections’:** Number of times animals tagged have been detected by acoustic receivers. **‘Start’**: Date at which the first tag detection occurred (format: dd/mm/yyyy).  
**‘End’**: Date at which the last tag detection occurred (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the first and last tag detection dates.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **spcode** | **common\_name** | **scientific\_name** | **no\_releases** | **no\_detections** | **first\_detection** | **last\_dection** | **coverage\_duration** |
| CAAB code | Common name | Scientific name | # releases | # detections | Start | End | Time coverage (days) |
| Headers = phylum | | | | | | | |
| Sub-header = order\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.3 Data report – all deployments on the portal

### Filename: ‘A\_AATAMS\_AcousticTagging\_allDeployments\_deploymentsOnPortal’

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

View to use:

|  |  |
| --- | --- |
| **Server** | db.emii.org.au |
| **Database** | aatams3 |
| **Schema** | public |
| **View** | aatams\_acoustictag\_all\_deployments\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by ASCENDING ‘project\_name’, then by ASCENDING ‘installation\_name’, and then by ASCENDING ‘station\_name’.

Data grouping options: Group by ‘project\_name’, sub-group by ‘installation\_name’.

Footnote: **Headers**: Names of acoustic tagging project.  
**Sub-headers**: Names of acoustic tagging installation. An installation is a configuration of multiple receivers generally identified by a geographic location  
**‘Station code’**: Code attributed to a receiving station. A receiving station is a location within an installation where a receiver is deployed.  
**‘# deployments’**: Number of receiver deployments at a given receiving station. The receiver is attached to a mooring at a pre-defined depth.  
**‘# detections’:** Total number of tag detections received and stored at a given receiving station. **‘Start’**: Earliest deployment date (format: dd/mm/yyyy).  
**‘End’**: Latest deployment date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the earliest and latest receiver deployment dates.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **station\_name** | **no\_deployments** | **no\_detections** | **station\_lat\_lon** | **deployment\_depth** | **start\_date** | **end\_date** | **coverage\_duration** |
| Station code | # deployments | # detections | Lat/Lon | Deployment depth | Start | End | Time coverage (days) |
| Headers = project\_name | | | | | | | |
| Sub-headers = installation\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

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

### Filename: ‘B\_ AATAMS\_AcousticTagging\_newDeployments’

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

View to use:

|  |  |
| --- | --- |
| **Server** | db.emii.org.au |
| **Database** | aatams3 |
| **Schema** | public |
| **View** | aatams\_acoustictag\_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 ‘project\_name’, then by ASCENDING ‘installation\_name’, and then by ASCENDING ‘station\_name’.

Data grouping options: Group by ‘project\_name’, sub-group by ‘installation\_name’.

Footnote: **Headers**: Names of acoustic tagging project.  
**Sub-headers**: Names of acoustic tagging installation. An installation is a configuration of multiple receivers generally identified by a geographic location  
**‘Station code’**: Code attributed to a receiving station. A receiving station is a location within an installation where a receiver is deployed.  
**‘# deployments’**: Number of receiver deployments at a given receiving station. The receiver is attached to a mooring at a pre-defined depth.  
**‘# detections’:** Total number of tag detections received and stored at a given receiving station. **‘Start’**: Earliest deployment date (format: dd/mm/yyyy).  
**‘End’**: Latest deployment date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the earliest and latest receiver deployment dates.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **station\_name** | **no\_deployments** | **no\_detections** | **station\_lat\_lon** | **deployment\_depth** | **start\_date** | **end\_date** | **coverage\_duration** |
| Station code | # deployments | # detections | Lat/Lon | Deployment depth | Start | End | Time coverage (days) |
| Headers = project\_name | | | | | | | |
| Sub-headers = installation\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.5 Data report – Data with missing information

### Filename: ‘C\_ AATAMS\_AcousticTagging\_noDeploymentDate’

### Description: ‘Data without deployment dates’

View to use:

|  |  |
| --- | --- |
| **Server** | db.emii.org.au |
| **Database** | aatams3 |
| **Schema** | public |
| **View** | aatams\_acoustictag\_all\_deployments\_view |

Filters: List all data for which ‘start\_date’ or ‘end\_date’ IS NULL.

Data sorting options: None, data are already sorted by ASCENDING ‘project\_name’, then by ASCENDING ‘installation\_name’, and then by ASCENDING ‘station\_name’.

Data grouping options: Group by ‘project\_name’, sub-group by ‘installation\_name’.

Footnote: **Headers**: Names of acoustic tagging project.  
**Sub-headers**: Names of acoustic tagging installation. An installation is a configuration of multiple receivers generally identified by a geographic location  
**‘Station code’**: Code attributed to a receiving station. A receiving station is a location within an installation where a receiver is deployed.  
**‘# deployments’**: Number of receiver deployments at a given receiving station. The receiver is attached to a mooring at a pre-defined depth.  
**‘# detections’:** Total number of tag detections received and stored at a given receiving station. **‘Start’**: Earliest deployment date (format: dd/mm/yyyy).  
**‘End’**: Latest deployment date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the earliest and latest receiver deployment dates.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **station\_name** | **no\_deployments** | **no\_detections** | **station\_lat\_lon** | **deployment\_depth** | **start\_date** | **end\_date** | **coverage\_duration** |
| Station code | # deployments | # detections | Lat/Lon | Deployment depth | Start | End | Time coverage (days) |
| Headers = project\_name | | | | | | | |
| Sub-headers = installation\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

# 2. Satellite tagging

## 2.1 Data summary

### Filename: ‘AATAMS\_SatelliteTagging\_Summary’

### Description: ‘Data summary’

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘data\_type’, sub-group by ‘species\_name\_tag\_type’.

Total: Calculate the total number of satellite tagging programs, species tagged, tag types, tags deployed, CTD profiles and individual measurements collected. Also compute the temporal, latitudinal, longitudinal, and depth range of those data. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘AATAMS’, ‘subfacility’ = ‘Biologging’.*

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Near real-time CTD data** | **Delayed mode CTD data** | **TOTAL** |
| ***Total number of satellite tagging programs (‘no\_projects’)*** |  |  |  |
| ***Total number of species equipped with satellite tags (‘no\_platforms’)*** |  |  |  |
| ***Total number of different tag types deployed*** |  |  |  |
| ***Total number of satellite tags deployed (‘no\_deployments’)*** |  |  |  |
| ***Total number of CTD profiles (‘no\_data’)*** |  |  |  |
| ***Total number of individual measurements*** |  |  |  |
| ***Temporal range (‘temporal\_range’)*** |  |  |  |
| ***Latitudinal range (‘lat\_range’)*** |  |  |  |
| ***Longitudinal range (‘lon\_range’)*** |  |  |  |
| ***Depth range (‘depth\_range’)*** |  |  |  |

Footnote: **Headers**: Data type.  
**Sub-headers:** Species common name – Satellite tag type.  
**‘Campaign name’**: Name of satellite tagging program. All tags deployed under the same campaign have the same software configuration.  
**‘# tags’**: Total number of animals equipped with satellite tags.   
**‘# CTD profiles’**: Total number of CTD profiles relayed. SMRU CTD tags relay both temperature and salinity profiles while SMRU SRDL tags only relay temperature profiles.  
**‘# measurements’**: Total number of measurements across all CTD profiles.  
**‘Start’**: Recording date of the first CTD profile (format: dd/mm/yyyy).  
**‘End’**: Recording date of the last CTD profile (format: dd/mm/yyyy).  
**‘Mean time coverage’**: Mean number of days during which CTD profiles were recorded.   
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)   
**CTD**: Conductivity Temperature and Depth  
**SMRU:** Sea Mammal Research Unit (<http://www.smru.st-andrews.ac.uk/>)

### Template

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sattag\_program** | **release\_site** | **no\_tags** | **total\_nb\_profiles** | **total\_nb\_measurements** | **lat\_range** | **lon\_range** | **depth\_range** | **coverage\_start** | **coverage\_end** | **mean\_coverage\_duration** |
| Campaign name | Deployment location | # tags | # CTD profiles | # measurements | Latitudinal range | Longitudinal range | Depth range | Start | End | Mean time coverage (days) |
| Headers: data\_type | | | | | | | | | | |
| Sub-headers = species\_name\_tag\_type | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |

## 2.2 Data report – all data on the portal

### Filename: ‘A\_AATAMS\_SatelliteTagging\_allData\_dataOnPortal’

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

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘data\_type’, sub-group by ‘headers’.

Footnote: **Headers**: Data type. **Sub-headers:** Campaign name - Species common name – Deployment location – Principal investigator – Satellite tag type.  
**‘Campaign name’**: Name of satellite tagging program. All tags deployed under the same campaign have the same software configuration.  
**‘# CTD profiles’**: Number of CTD profiles relayed. SMRU CTD tags relay both temperature and salinity profiles while SMRU SRDL tags only relay temperature profiles.  
**‘# measurements’**: Number of measurements across all CTD profiles.  
**‘Start’**: Recording date of the first CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘End’**: Recording date of the last CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days during which CTD profiles were recorded.   
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)   
**CTD**: Conductivity Temperature and Depth  
**SMRU:** Sea Mammal Research Unit (<http://www.smru.st-andrews.ac.uk/>)

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **tag\_code** | **nb\_profiles** | **nb\_measurements** | **lat\_range** | **lon\_range** | **depth\_range** | **coverage\_start** | **coverage\_end** | **Coverage\_duration** |
| Tag code | # CTD profiles | # measurements | Latitudinal range | Longitudinal range | Depth range | Start | End | Time coverage (days) |
| Headers: data\_type | | | | | | | | |
| Sub-headers = headers | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

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

### Filename: ‘B\_ AATAMS\_SatelliteTagging\_newDeployments’

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

View to use:

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

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

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘data\_type’, sub-group by ‘headers’.

Footnote: **Headers**: Data type. **Sub-headers headers:** Campaign name - Species common name – Deployment location – Principal investigator – Satellite tag type.  
**‘Campaign name’**: Name of satellite tagging program. All tags deployed under the same campaign have the same software configuration.  
**‘# CTD profiles’**: Number of CTD profiles relayed. SMRU CTD tags relay both temperature and salinity profiles while SMRU SRDL tags only relay temperature profiles.  
**‘# measurements’**: Number of measurements across all CTD profiles.  
**‘Start’**: Recording date of the first CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘End’**: Recording date of the last CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days during which CTD profiles were recorded.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)   
**CTD**: Conductivity Temperature and Depth  
**SMRU:** Sea Mammal Research Unit (<http://www.smru.st-andrews.ac.uk/>)

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **tag\_code** | **nb\_profiles** | **nb\_measurements** | **lat\_range** | **lon\_range** | **depth\_range** | **coverage\_start** | **coverage\_end** | **Coverage\_duration** |
| Tag code | # CTD profiles | # measurements | Latitudinal range | Longitudinal range | Depth range | Start | End | Time coverage (days) |
| Headers: data\_type | | | | | | | | |
| Sub-headers = headers | | | | | | | | |
|  |  |  |  |  |  |  |  |  |

## 2.4 Data report – Data with missing information

### Filename: ‘C\_ AATAMS\_SatelliteTagging\_MissingInformation’

### Description: ‘Data with missing information’

View to use:

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

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

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘data\_type’, sub-group by ‘headers’.

Footnote: **Headers**: Data type. **Sub-headers headers:** Campaign name - Species common name – Deployment location – Principal investigator – Satellite tag type.  
**‘Campaign name’**: Name of satellite tagging program. All tags deployed under the same campaign have the same software configuration.  
**‘# CTD profiles’**: Number of CTD profiles relayed. SMRU CTD tags relay both temperature and salinity profiles while SMRU SRDL tags only relay temperature profiles.  
**‘# measurements’**: Number of measurements across all CTD profiles.  
**‘Start’**: Recording date of the first CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘End’**: Recording date of the last CTD profile for the satellite tagging campaign (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days during which CTD profiles were recorded.  
**AATAMS:** Australian Animal Tagging and Monitoring System (<http://imos.org.au/aatams.html>)   
**CTD**: Conductivity Temperature and Depth  
**SMRU:** Sea Mammal Research Unit (<http://www.smru.st-andrews.ac.uk/>)

### Template

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **tag\_code** | **nb\_profiles** | **nb\_measurements** | **lat\_range** | **lon\_range** | **depth\_range** | **coverage\_start** | **coverage\_end** | **Coverage\_duration** |
| Tag code | # CTD profiles | # measurements | Latitudinal range | Longitudinal range | Depth range | Start | End | Time coverage (days) |
| Headers: data\_type | | | | | | | | |
| Sub-headers = headers | | | | | | | | |
|  |  |  |  |  |  |  |  |  |