**AATAMS - Report templates**

This document contains information to produce reports for the following sub-facilities: AATAMS – acoustic tagging, AATAMS satellite tagging, and AATAMS Biologging.

Number of data reports: 10.

# 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** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | aatams\_acoustic\_project\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted by.

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

Total: Calculate the total number of projects, installations, receiving stations, receivers deployed, animal releases, and detections for each type of funding. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘AATAMS’, ‘subfacility’ = ‘Acoustic tagging - Project’.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **IMOS receiver pool** | **IMOS funded and co-invested** | **Fully co-invested** | **TOTAL** |
| ***Total number of projects (‘no\_projects’)*** |  |  |  |  |
| ***Total number of installations (‘no\_platforms’)*** |  |  |  |  |
| ***Total number of receiving stations (‘no\_instruments’)*** |  |  |  |  |
| ***Total number of receivers deployed (‘no\_deployments’)*** |  |  |  |  |
| ***Total number of animal releases (‘no\_data’)*** |  |  |  |  |
| ***Total number of detections (‘no\_data2’)*** |  |  |  |  |

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.  
**‘First deployment’**: Earliest receiver deployment date (format: dd/mm/yyyy).  
**‘Last deployment’**: Latest receiver deployment date (format: dd/mm/yyyy).  
**‘# releases:** Total number of animals released under each project’s name.  
**‘# detections’:** Total number of tag detections received and stored on a receiver.  
**‘Last detection’**: Latest detection date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the earliest and latest detection dates.  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>; web app: <https://aatams.emii.org.au/aatams/>).

### Template

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **project\_name** | **no\_installations** | **no\_stations** | **no\_deployments** | **earliest\_deployment\_date** | **latest\_deployment\_date** | **no\_releases** | **no\_detections** | **end\_date** | **coverage\_duration** |
| Project name | # installations | # stations | # deployments | First deployment | Last deployment | # releases | # detections | Last detection | 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** | dbprod.emii.org.au |
| **Database** | harvest |
| **Schema** | reporting |
| **View** | aatams\_acoustic\_species\_data\_summary\_view |

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

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

Total: Calculate the total number of releases, public releases, embargoed releases, number of releases detected, public releases detected, and embargoed releases detected, and add the following lines to the report. *Use the following view: ‘totals\_view’; filter by: ‘facility’ = ‘AATAMS’, ‘subfacility’ = ‘Acoustic tagging - Species’, ‘type’ != ‘Other stats’ and ‘type’ != ‘Detections’.*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | ***Total number of releases (‘no\_projects’)*** | ***Number of releases that are public (‘no\_platforms’)*** | ***Number of releases under embargo (‘no\_instruments’)*** | ***Total number of releases detected (‘no\_deployments’)*** | ***Total number of public releases detected (‘no\_data’)*** | ***Total number of embargoed releases detected (‘no\_data2’)*** |
| ***Species*** |  |  |  |  |  |  |
| ***Animals*** |  |  |  |  |  |  |

Below the above table list the following totals:  
***Detections at species level:*** (*Use ‘totals\_view’; filter by: ‘facility’ = ‘AATAMS’, ‘subfacility’ = ‘Acoustic tagging - Species’, ‘type’ = ‘Detections’)* ***Total number of detections (‘no\_deployments’): XX  
 Total number of detections that are public (‘no\_data’): XX  
 Total number of detections that are under embargo (‘no\_data’): XX***

***Other statistics:*** (*Use ‘totals\_view’; filter by: ‘facility’ = ‘AATAMS’, ‘subfacility’ = ‘Acoustic tagging - Species’, ‘type’ = ‘Other stats’)* ***Total number of tags detected (‘no\_ projects’): XX  
Total number of tags registered in the AATAMS database (‘no\_ platforms’): XX  
Total number of detected tags registered in the AATAMS database (‘no\_ instruments’): XX  
Total number of tags detected by species (‘no\_ deployments’): XX  
Total number of releases embargoed for less than 1 year (‘no\_ data’): XX  
Total number of releases embargoed for more than 1 year but less than*** ***2 (‘no\_ data2’):: XX  
Total number of releases embargoed for more than 2 years but less than*** ***3 (‘no\_ data3’):: XX  
Total number of releases embargoed for more than 3 years (‘no\_ data4’):: XX***

Footnote: **Headers**: Phylum.  
**Sub-headers**: Order.  
**‘# releases’**: Total number of animals that have been released equipped with an acoustic tag.  
**‘# embargoed releases’**: Number of released animals that are currently under embargo.  
**‘# releases with detections’**: Total number of released animals that have been detected.  
**‘# public releases with detections’**: Number of released animals that have been detected and are currently not under embargo.  
**‘# detections’:** Total number of detections.  
**‘# public detections’:** Total number of public detections. **‘First detection’**: Date at which the first tag detection occurred (format: dd/mm/yyyy).  
**‘Last detection’**: Date at which the last tag detection occurred (format: dd/mm/yyyy).  
**‘Mean time coverage’**: Mean number of days between the first and last detection for each animal released.  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>; web app: <https://aatams.emii.org.au/aatams/>)

### Template

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **common\_name** | **no\_releases** | **no\_embargo** | **no\_releases\_with\_detections** | **no\_public\_releases\_with\_detections** | **latest\_embargo\_date** | **total\_no\_detections** | **no\_detections\_public** | **earliest\_detection** | **latest\_dection** | **mean\_coverage\_duration** |
| Common name | # releases | # embargoed releases | # releases with detections | # public releases with detections | Latest embargo date | # detections | # public detections | First detection | Last detection | Mean time coverage (days) |
| Headers = phylum | | | | | | | | | | |
| Sub-header = order\_name | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |

## 1.3 Data report – all projects and receiving stations

### Filename: ‘AATAMS\_AcousticTagging\_allProjects’

### Description: ‘All projects and receiving stations’

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

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. **‘First deployment’**: First receiver deployment date (format: dd/mm/yyyy).  
**‘Last deployment’**: Last receiver deployment date (format: dd/mm/yyyy).  
**‘First detection’**: First detection date (format: dd/mm/yyyy).  
**‘Last detection’**: Last detection date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the first and last detection dates.  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>; web app: <https://aatams.emii.org.au/aatams/>).

### Template

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **station\_name** | **no\_deployments** | **no\_detections** | **first\_deployment\_date** | **last\_deployment\_date** | **start\_date** | **end\_date** | **coverage\_duration** |
| Station code | # deployments | # detections | First deployment | Last deployment | First detection | Last detection | Time coverage (days) |
| Headers = project\_name | | | | | | | |
| Sub-headers = installation\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

## 1.4 Data report – All species and animals released

### Filename: ‘AATAMS\_AcousticTagging\_allSpecies’

### Description: ‘All species and animals released’

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

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

Footnote: **Headers**: Species common name.  
**‘Embargo date’**: Date from which data has been/will be made public.  
**‘# detections’:** Total number of tag detections received and stored at a given receiving station. **‘First detection’**: First detection date (format: dd/mm/yyyy).  
**‘Last detection’**: Last detection date (format: dd/mm/yyyy).  
**‘Time coverage’**: Number of days between the first and last detection dates.  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>; web app: <https://aatams.emii.org.au/aatams/>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **animal\_release\_id** | **release\_locality** | **embargo\_date** | **no\_detections** | **first\_detection** | **last\_detection** | **coverage\_duration** |
| Release ID | Release location | Embargo date | # detections | First detection | Last detection | Time coverage (days) |
| Headers = common\_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’.

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’*, and ‘no\_projects’ IS NOT NULL.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **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 (‘no\_instruments’)*** |  |  |  |
| ***Total number of animals equipped with satellite tags (‘no\_deployments’)*** |  |  |  |
| ***Total number of CTD profiles (‘no\_data’)*** |  |  |  |
| ***Total number of individual measurements (‘no\_data2’)*** |  |  |  |
| ***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.  
**‘Campaign name’**: Name of satellite tagging program. All tags deployed under the same campaign have the same software configuration.  
**‘# animals’**: 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).  
**# days of data (range)**: Number of days during which CTD profiles were recorded (Minimum – maximum).   
**AATAMS:** Australian Animal Tracking 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\_animals** | **total\_nb\_profiles** | **total\_nb\_measurements** | **coverage\_start** | **coverage\_end** | **no\_data\_days** |
| Campaign name | Deployment location | # animals | # CTD profiles | # measurements | Start | End | # days of data (range) |
| Headers: data\_type | | | | | | | |
| Sub-headers = species\_name | | | | | | | |
|  |  |  |  |  |  |  |  |

## 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 – Deployment location – Principal investigator.  
**‘Tag code’**: All tags deployed under the same satellite tagging 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 (format: dd/mm/yyyy).  
**‘End’**: Recording date of the last CTD profile (format: dd/mm/yyyy).  
**# days of data**: Number of days during which CTD profiles were recorded.  
**AATAMS:** Australian Animal Tracking 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** | **species\_name** | **release\_site** | **nb\_profiles** | **nb\_measurements** | **coverage\_start** | **coverage\_end** | **coverage\_duration** |
| Tag code | Species name | Deployment location | # CTD profiles | # measurements | Start | End | # days of data |
| Headers: data\_type | | | | | | | |
| Sub-headers = headers | | | | | | | |
|  |  |  |  |  |  |  |  |







# 3. Biologging

## 3.1 Data summary

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

### Description: ‘Data summary’

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: None.

Total: None.

Footnote: **‘Tagged animals’**: Common name of animals equipped with biologgers.  
**‘# animals’**: Total number of animals equipped with biologgers.   
**‘# locations**: Total number of locations obtained across all animals.  
**‘Start’**: Date of the first location (format: dd/mm/yyyy).  
**‘End’**: Date of the last location (format: dd/mm/yyyy).  
**# days of data (range)**: Number of days during which locations were obtained (Minimum – maximum).  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>).

### Template

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **tagged\_animals** | **nb\_animals** | **total\_nb\_locations** | **earliest\_date** | **latest\_date** | **no\_data\_days** |
| Tagged animals | # animals | # locations | Start | End | # days of data (range) |
|  |  |  |  |  |  |

## 3.2 Data report – all data on the portal

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

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

View to use:

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

Filters: None, all filters have already been applied.

Data sorting options: None, data are already sorted.

Data grouping options: Group by ‘tagged\_animals’.

Footnote: **Headers**: Common name of animals equipped with biologgers.  
**‘# locations**: Number of locations obtained for each animal.  
**‘Start’**: Date of the first location (format: dd/mm/yyyy).  
**‘End’**: Date of the last location (format: dd/mm/yyyy).  
**# days of data**: Number of days during which locations were obtained.  
**AATAMS:** Australian Animal Tracking and Monitoring System (<http://imos.org.au/aatams.html>).

### Template

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **animal\_id** | **nb\_locations** | **lat\_range** | **lon\_range** | **start\_date** | **end\_date** | **coverage\_duration** |
| Animal ID | # locations | Latitudinal range | Longitudinal range | Start | End | # days of data |
| Headers = tagged\_animals | | | | | | |
|  |  |  |  |  |  |  |