

# Package: camtrapReport (via r-universe)

July 1, 2026

**Type** Package

**Title** Camera-Trap Report Generator

**Version** 1.0.28

**Date** 2026-06-29

**Description** Provides an extensible workflow for processing camera-trap data in Camtrap-DP format and automatically generating reproducible data-status and ecological reports. The package supports data-quality checks, ecological summaries, visualisations, maps, tables and modular report sections for wildlife-monitoring applications.

**License** MIT

**URL** <https://spatialecology.github.io/camtrapReport/>,  
<https://github.com/spatialecology/camtrapReport>

**BugReports** <https://github.com/spatialecology/camtrapReport/issues>

**Depends** R (>= 4.1.0)

**Imports** data.table, dplyr, shiny, glue, htmltools, jsonlite, knitr, lubridate, methods, rlang, rmarkdown, sf, sp, taxize, terra, tibble, tidyr

**Suggests** activity, corrplot, DT, dygraphs, ggplot2, ggrepel, gridExtra, gt, htmlwidgets, iNEXT, kableExtra, leaflet, leaflet.extras, magick, purrr, remotes, rgbif, scales, shiny, spOccupancy, spatstat, stringr, stats, suncalc, taxadb, testthat (>= 3.0.0), unmarked, xml2

**VignetteBuilder** knitr

**Encoding** UTF-8

**Config/testthat/edition** 3

**RoxygenNote** 7.3.3

**Config/pak/sysreqs** libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libglpk-dev make libicu-dev libuv1-dev libxml2-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev zlib1g-dev

**Repository** <https://camera-traps.r-universe.dev>

**Date/Publication** 2026-07-01 10:55:05 UTC

**RemoteUrl** <https://github.com/spatialecology/camtrapReport>

**RemoteRef** HEAD

**RemoteSha** 8be191c127eefb224abbd099fac60409c29f8d7e

## Contents

|                               |           |
|-------------------------------|-----------|
| add_Module . . . . .          | 2         |
| add_Module . . . . .          | 3         |
| camData . . . . .             | 4         |
| camReport-classes . . . . .   | 6         |
| empty_trash . . . . .         | 6         |
| gui . . . . .                 | 7         |
| info . . . . .                | 8         |
| install_All . . . . .         | 9         |
| install_All . . . . .         | 10        |
| list_Modules . . . . .        | 11        |
| listReportSections . . . . .  | 11        |
| move_Module . . . . .         | 12        |
| remove_Module . . . . .       | 12        |
| report . . . . .              | 13        |
| reportSection . . . . .       | 14        |
| restore_Module . . . . .      | 16        |
| section_names . . . . .       | 17        |
| section_names . . . . .       | 17        |
| status . . . . .              | 18        |
| testSection . . . . .         | 19        |
| updateReportSection . . . . . | 20        |
| updateReportSection . . . . . | 21        |
| <b>Index</b>                  | <b>23</b> |

---

|            |                            |
|------------|----------------------------|
| add_Module | <i>Add a report module</i> |
|------------|----------------------------|

---

### Description

Add a new YAML report module to the camtrapReport module library.

### Usage

```
add_Module(x, before, after, test, object)
```

```
## S4 method for signature 'character'
```

```
add_Module(x, before, after, test, object)
```

**Arguments**

|        |  |
|--------|--|
| x      | Path to a YAML module file.  |
| before | Optional module name before which the new module should be inserted. |
| after  | Optional module name after which the new module should be inserted.  |
| test   | Logical. If TRUE, test the module before adding it.                  |
| object | Optional camReport object used for testing the module.               |

**Value**

Invisibly returns information about the added module.

---

|            |                         |
|------------|-------------------------|
| add_Module | <i>Managing modules</i> |
|------------|-------------------------|

---

**Description**

A list of functions are available to manage modules in the package including listing the existing modules, adding a new one or deleting an existing one, or moving the position of a module in a report

**Usage**

```
add_Module(x,before,after,test)

move_Module(name,before,after,parent,level0)

remove_Module(name,recursive)

empty_trash(name,id)

list_Modules(tree,brief,include_trash,validate)
```

**Arguments**

|        |  |
|--------|--|
| x      | The new module YAML filename   |
| before | The name of module before which the new module should be added   |
| after  | The name of module after which the new module should be added  |
| test   | logical; specifying whether the module should be tested  |
| name   | The module name  |
| parent | The parent name of module (modules are organised hierarchically as parent and childs)                          |
| level0 | Optional; names of the modules in root: c("introduction", "methods", "results", "acknowledgement", "appendix") |

|               |  |
|---------------|--|
| recursive     | logical; when it is TRUE, by deleting a parent module, its child modules are also deleted to avoid any inconsistencies in the report |
| id            | The module id  |
| tree          | logical; specifies whether the list of modules should represents their hierarchical tree structure                                   |
| brief         | logical; if tree is FALSE, it specifies whether brief module information should be returned  |
| include_trash | logical; if tree is FALSE, it specifies whether deleted modules in trash should also be listed                                       |
| validate      | logical; whether the modules should be tested for their validity   |

### Details

Given that the package is extensible, designed based on a modular architecture, a set of functions are provided to facilitate module management.

A module refers to an object designed to contain the contents of a section in the report. These contents can be texts, tables, executable R codes, etc. Multiple interfaces are available for a user to define a module.

An easy way is to use a YAML file (a template can be used) to define a module. While the file is created, it can be added to the package using the `add_Module` function.

Other functions can also be used to list the existing modules, delete or recover a module, or move a module to a different location within the hierarchical structure the modules are organised.

### Author(s)

Elham Ebrahimi

### References

Ebrahimi et al. (2026) *camtrapReport*: xxx

### Examples

```
list_Modules()
```

---

camData

*Create camera trap data object*

---

### Description

The camera-trap data, read as *camtraptor* data package, is the input.

### Usage

```
camData(data,habitat,study_area,...)
```

**Arguments**

|            |   |
|------------|---|
| data       | either character which is the filename of the cameratrap data (as ZIP or Json file), or a datapackage object read through camtraptor (the read_camtrap_dp function) |
| habitat    | data.frame of habitat types   |
| study_area | either name of a shapefile or a SpatVector object defining spatial boundary of a study site.  |
| ...        | additional arguments  |

**Details**

The records of the input data package are used to build a camReport object, containing processed camera-trap data and texts, graphs, etc. used to automate generating a report.

**Value**

a ReferenceClass

**Author(s)**

Elham Ebrahimi <eebrahimi.bio@gmail.com>

**References**

ebrahimni et al. XXX

**Examples**

```
## Not run:  
  
# filename of dataset: "veleuw.zip"  
habitat <- read.csv('hanitat.csv')  
  
cm <- camData("veleuw.zip",habitat,study_area='study_area.shp')  
  
cm  
  
## End(Not run)
```

---

|                   |                          |
|-------------------|--------------------------|
| camReport-classes | <i>camReport classes</i> |
|-------------------|--------------------------|

---

### Description

A set of S4 and Reference classes to manage camera-trap data and information.

### Slots

Slots for camReport objects:

title a camReport object  
 subtitle contains the species data  
 reportObjects a list of modules  
 statusReportObjects a list of modules

### Author(s)

Elham Ebrahimi

### References

Ebrahimi et al. (2025) xxx

---

|             |                               |
|-------------|-------------------------------|
| empty_trash | <i>Empty the module trash</i> |
|-------------|-------------------------------|

---

### Description

Permanently remove deleted modules from the trash folder.

### Usage

```
empty_trash(name, id)

## S4 method for signature 'ANY'
empty_trash(name, id)
```

### Arguments

|      |                                      |
|------|--------------------------------------|
| name | Optional module name to purge.       |
| id   | Optional deletion batch ID to purge. |

### Value

Invisibly returns the updated trash index.

---

`gui`*Launch the camtrapReport GUI*

---

### Description

Opens an interactive Shiny interface for configuring and generating camtrapReport outputs from an existing ‘camReport’ object.

### Usage

```
gui(object, launch.browser, max_upload_mb, ...)
```

### Arguments

|                             |   |
|-----------------------------|---|
| <code>object</code>         | A ‘camReport’ object, usually created with ‘camData()’                    |
| <code>launch.browser</code> | Logical. If ‘TRUE’, the application is opened in the default web browser. |
| <code>max_upload_mb</code>  | Numeric. Maximum file-upload size in megabytes. The default is 2000.      |
| <code>...</code>            | Additional arguments passed to [shiny::runApp()]                          |

### Details

The function starts a shiny-based web-server and lunch a GUI interface.

### Author(s)

Elham Ebrahimi

### References

Ebrahimi et al. (2026) xxx

### Examples

```
## Not run:  
cm <- camData("data-folder")  
  
gui(cm)  
  
## End(Not run)
```

---

`info`*Get or set field values in a camReport object*

---

### Description

This function facilitates to extract specific fields (e.g., title, authors, etc.) from a `camReport` object, or update the value of a field.

### Usage

```
## S4 method for signature 'camReport'  
info(x, name)  
  
## S4 replacement method for signature 'camReport'  
info(x, name)<- value
```

### Arguments

|                    |   |
|--------------------|---|
| <code>x</code>     | A <code>camReport</code> object   |
| <code>name</code>  | character; names of the field from/to which the information is retrieved/assigned |
| <code>value</code> | the new value to assign to the specified field (name)                             |

### Details

The `camReport` object, created by the `camData` function, contains information extracted from the camera-trap dataset. To control some of these details go to `report` (e.g., title, subtitle, authors, institute, siteName, description, sampling,...), a user can check their values using the `info` function or update the value of a certain field.

### Author(s)

Elham Ebrahimi

### References

Ebrahimi et al. (2025) xxx

### See Also

`camData`

**Examples**

```
## Not run:
cm <- camData("data-folder")

info(cm)

xi <- info(cm, name=c('title','authors'))

xi

info(cm,'title') <- 'This is NEW title...'

## End(Not run)
```

---

install\_All

*Install packages required by camtrapReport*


---

**Description**

Installs packages required for the full camtrapReport workflow, including packages used by optional report modules.

**Usage**

```
install_All(
  pkgs = NULL,
  update = FALSE,
  include_dev = FALSE,
  include_github = TRUE,
  include_gitlab = TRUE,
  ...
)
```

**Arguments**

|                |   |
|----------------|---|
| pkgs           | Optional character vector of package names to install. If 'NULL', the default camtrapReport package list is used.     |
| update         | Logical. If 'TRUE', reinstall GitHub/GitLab packages and attempt to install or update CRAN packages.                  |
| include_dev    | Logical. If 'TRUE', also install developer packages such as 'testthat', 'pkg-down', 'covr', 'usethis' and 'devtools'. |
| include_github | Logical. If 'TRUE', install required GitHub packages.   |
| include_gitlab | Logical. If 'TRUE', install required GitLab packages if a GitLab package list is available.                           |
| ...            | Additional arguments passed to 'install.packages()'.  |

**Value**

Invisibly returns 'TRUE' if all required packages are available, otherwise 'FALSE'.

---

`install_All`*Install packages required by camtrapReport*

---

**Description**

Installs packages required for the full camtrapReport workflow, including packages used by optional report modules.

**Usage**

```
install_All(pkgs, update, ...)
```

**Arguments**

|                     |   |
|---------------------|---|
| <code>pkgs</code>   | Optional character vector of package names to install. If 'NULL', the default camtrapReport package list is used. |
| <code>update</code> | Logical. If 'TRUE', reinstall GitHub/GitLab packages and attempt to install or update CRAN packages.              |
| <code>...</code>    | Additional arguments passed to 'install.packages()'   |

**Details**

The function extracts the list of packages specified in the modules and make sure they are installed, otherwise, some report sections may be excluded from the report.

**Author(s)**

Elham Ebrahimi <eebrahimi.bio@gmail.com>

**References**

ebrahimni et al. (under-review) camtrapReport: an R package for...

**Examples**

```
## Not run:  
  
install_All()  
  
## End(Not run)
```

---

|              |                                      |
|--------------|--------------------------------------|
| list_Modules | <i>List available report modules</i> |
|--------------|--------------------------------------|

---

**Description**

List modules available in the camtrapReport module library.

**Usage**

```
list_Modules(tree, brief, include_trash, validate)

## S4 method for signature 'ANY'
list_Modules(tree, brief, include_trash, validate)
```

**Arguments**

|               |   |
|---------------|---|
| tree          | Logical. If TRUE, return modules as a tree table. |
| brief         | Logical. If TRUE, return a brief table.           |
| include_trash | Logical. If TRUE, include active trash records.   |
| validate      | Logical. If TRUE, validate module YAML files.     |

**Value**

A data frame, or a list containing modules and trash records.

---

|                    |                             |
|--------------------|-----------------------------|
| listReportSections | <i>List report sections</i> |
|--------------------|-----------------------------|

---

**Description**

Lists report sections currently stored in a 'camReport' object.

**Usage**

```
listReportSections(x)

## S4 method for signature 'camReport'
listReportSections(x)
```

**Arguments**

|   |                       |
|---|-----------------------|
| x | A 'camReport' object. |
|---|-----------------------|

**Value**

A data frame describing report section names, titles, parents and paths.

---

|             |                             |
|-------------|-----------------------------|
| move_Module | <i>Move a report module</i> |
|-------------|-----------------------------|

---

**Description**

Move an existing module before or after another module, or under a new parent.

**Usage**

```
move_Module(name, before, after, parent, level0)
```

```
## S4 method for signature 'character'
move_Module(name, before, after, parent, level0)
```

**Arguments**

|        |  |
|--------|--|
| name   | Name of the module to move.                            |
| before | Optional module name before which to move the module.  |
| after  | Optional module name after which to move the module.   |
| parent | Optional new parent module.                            |
| level0 | Character vector defining the root-level module order. |

**Value**

Invisibly returns the updated module information table.

---

|               |                               |
|---------------|-------------------------------|
| remove_Module | <i>Remove a report module</i> |
|---------------|-------------------------------|

---

**Description**

Move a module, and optionally its child modules, to the module trash folder.

**Usage**

```
remove_Module(name, recursive)
```

```
## S4 method for signature 'character'
remove_Module(name, recursive)
```

**Arguments**

|           |   |
|-----------|---|
| name      | Name of the module to remove.                   |
| recursive | Logical. If TRUE, remove child modules as well. |

**Value**

Invisibly returns information about the deleted module batch.

---

 report
 

---



---

*Generating automated reports based on a camReport object*


---

**Description**

These functions facilitate generating two reports (data quality status, and ecological insights) automatically. Each report is an HTML rendered by creating an RMarkdown file based on the modules added to the camReport object.

**Usage**

```
report(object, filename, view, test)
```

```
status(object, filename, view)
```

**Arguments**

|          |  |
|----------|--|
| object   | The camReport object created by the camData function   |
| filename | optional (default is "report"); a character specifying filename or path/filename to write the report and rmarkdown files. The default location to write the files is the data folder |
| view     | logical (default = TRUE); specifies whether the rendered html file should be displayed!  |
| test     | logical (default = FALSE); specifies whether the sections should be tested!  |

**Details**

By default (if filename is not specified), two files including "report.html" and "report.rmd" ("data\_status.html" and "data\_status.rmd" for the data status report) will be written in the folder of the camera-trap dataset.

If 'test = TRUE' is used, in case any error is caused in the report generation procedure, a testing procedure is started to test each section and exclude the problematic section.

**Author(s)**

Elham Ebrahimi

**References**

Ebrahimi et al. (2025) xxx

**See Also**

camData

**Examples**

```
## Not run:
cm <- camData("data-folder")

report(cm, view=T) # ecological insights

status(cm, view=T) # data quality status

## End(Not run)
```

---

|               |   |
|---------------|---|
| reportSection | <i>Creates a reproducible subsection of the report.</i> |
|---------------|---|

---

**Description**

This function creates an object which keeps and manages the contents of a subsection in the report. Each subsection (report-section) may keep both text and a chunk of R codes. The object can be created by users and be added to the report to make the report generation flexible and extensible.

**Usage**

```
reportSection(name,title,parent,txt,code_setting,packages,code)
```

**Arguments**

|              |   |
|--------------|---|
| name         | a character which is used as a unique name of the object.   |
| title        | a character which specifies the title header of the subsection, appeared in the report  |
| parent       | if NULL, the subsection is considered as the level 1, but a subsection can be added as the second or third level of previously added subsections (i.e., subsection of a subsection) |
| txt          | a character or a list with texts.   |
| code_setting | if a chunk of R code is provided in the code argument, the setting of the chunk can be provided here within a bracket; example: { c(echo=FALSE, results="asis") }                   |
| packages     | a character vector specifying the name of required packages   |
| code         | a chunk of R code can be provided as an R script within bracket { }   |

## Details

The name of the subsections should be unique, meaning two subsections can not have the same name. If a new subsection with the same name as previously added subsections is added to the report, the old one will be replaced by the new one.

In the code chunk, to get access the camReport object and its fields or methods, you need to use "object" in the code (see examples).

## Author(s)

Elham Ebrahimi

## References

Ebrahimi et al. (2025) xxx

## See Also

camData

## Examples

```
tx <- reportSection(name='introduction',title='Introduction',parent=NULL,txt="This is introduction section...")
```

```
tx
```

```
# in the following text section, we add an R chunk code which gets access to the camReport object
# through using the object keyword:
```

```
tx2 <- reportSection(name='method',title='Methods',parent=NULL,txt="Here, we show the usage of ...",
  code_setting={c(echo=FALSE,results="asis",warn=FALSE)},
  packages=c("gt","dplyr"),
  code = {

    object$camera_setup |>
    gt() |>
    tab_header(
      title = md("**Camera Deployment Summary**"),
      subtitle = md("**Table 1.** Details of camera deployments per year")) |>
    cols_label(
      year = "Year",
      number_camtraps = "Camera Traps",
      deployment_period = "Deployment Period",
      setup_period = "Setup Period",
      pickup_period = "Pickup Period") |>
    tab_options(
      table.font.size = px(14),
      heading.title.font.size = px(16),
```

```

        heading.subtitle.font.size = px(12),
        row.striping.include_table_body = TRUE) |>
        opt_row_striping() |>
        tab_style(style = list(
          cell_borders(sides = "bottom", color = "gray", weight = px(1)),
          locations = cells_body()) |>
          tab_style(
            style = list(cell_text(weight = "bold")), locations = cells_column_labels())
        }
      )

```

tx2

---

|                |  |
|----------------|--|
| restore_Module | <i>Restore a deleted report module</i> |
|----------------|--|

---

### Description

Restore a module from the module trash folder.

### Usage

```

restore_Module(name, batch_id, test)

## S4 method for signature 'character'
restore_Module(name, batch_id, test)

```

### Arguments

|          |   |
|----------|---|
| name     | Name of the module to restore.              |
| batch_id | Optional deletion batch ID.                 |
| test     | Logical. If TRUE, test the restored module. |

### Value

Invisibly returns information about restored modules.

---

|               |   |
|---------------|---|
| section_names | <i>Get available report section names</i> |
|---------------|---|

---

**Description**

Returns the names of available report sections/modules. Users can optionally keep only selected sections or exclude selected sections.

**Usage**

```
section_names(keep, exclude)
```

```
## S4 method for signature 'ANY'
section_names(keep, exclude)
```

**Arguments**

|         |   |
|---------|---|
| keep    | Optional character vector of section/module names to keep.    |
| exclude | Optional character vector of section/module names to exclude. |

**Value**

A character vector of section/module names.

---

|               |   |
|---------------|---|
| section_names | <i>Return the name of available report sections or update/specify the report sections</i> |
|---------------|---|

---

**Description**

This function can help to select a subset of sections for generating the report.

**Usage**

```
section_names(keep, exclude)
```

```
sections(x, n)
```

**Arguments**

|         |   |
|---------|---|
| keep    | a character vector (default = 'all') specifies which report sections should be kept in the report                       |
| exclude | an optional character vector to specify which sections should be excluded   |
| x       | The 'camReport' object created using the camData function   |
| n       | a character vector to specify the names of report sections to update which report sections should be used in the report |

**Details**

The ‘section\_names’ function can help to retrieve and specify the right section names in the ‘sections’ function

**Author(s)**

Elham Ebrahimi

**References**

Ebrahimi et al. (2025) xxx

**See Also**

updateReportSections

**Examples**

```
## Not run:  
cm <- camData('file.zip')  
  
n <- section_names()  
  
n  
  
section_name(cm,n)  
  
report(cm)  
  
## End(Not run)
```

---

status

*Generate a Data Status Check Report*

---

**Description**

Generates an automated data-status report from a ‘camReport’ object. The report summarises key information about data completeness, spatial and temporal coverage, annotation quality and validation status.

**Usage**

```
status(object, filename, view)  
  
## S4 method for signature 'camReport'  
status(object, filename = "data_status", view)
```

**Arguments**

|          |  |
|----------|--|
| object   | A 'camReport' object.  |
| filename | Output filename or file path without extension. Defaults to "data_status". |
| view     | Logical. If 'TRUE', the generated HTML report is opened after rendering.   |

**Value**

Invisibly returns the path to the generated HTML report.

---

|             |   |
|-------------|---|
| testSection | <i>Test a sub-section object (.textSection class)</i> |
|-------------|---|

---

**Description**

If a sub-section object is created using the reportSection function, it can be tested to see how it looks like in a report.

**Usage**

```
testSection(x, object, view)
```

**Arguments**

|        |  |
|--------|--|
| x      | The subsection object created using the reportSection function                         |
| object | The camReport object created using the camData function                                |
| view   | logical (default = TRUE); specifies whether the rendered html file would be displayed! |

**Details**

The object (camReport) is only required if the chunk of R code in the section requires the object!

**Author(s)**

Elham Ebrahimi

**References**

Ebrahimi et al. (2025) xxx

**See Also**

camData

**Examples**

```

tx <- reportSection(name='introduction',title='Introduction',parent=NULL,txt="This is introduction section...",
  code = {
    # R code:
    print(plot(1:10))
  })

tx

## Not run: testSection(tx)

```

---

updateReportSection    *Updating content of report sections*

---

**Description**

This function can be used to update the content (text, code) of a section (module) within a `camReport` object.

**Usage**

```

updateReportSection(x,section,text,title,code,code_name,code_setting,packages,append_text,append_c

listReportSections(x)

```

**Arguments**

|                           |   |
|---------------------------|---|
| <code>x</code>            | A <code>camReport</code> object created by the <code>camData</code> function                |
| <code>section</code>      | A character to refer to a report section (name or title of the report)                      |
| <code>text</code>         | optional, to update the text body of the report section                                     |
| <code>title</code>        | optional, a new title for the section   |
| <code>code</code>         | optional, to update or add the R code chunk   |
| <code>code_name</code>    | optional, if R code chunk is provided, its name can be specified                            |
| <code>code_setting</code> | optional, setting for the new R chunk   |
| <code>packages</code>     | optional, name of R packages required by the new R chunk                                    |
| <code>append_text</code>  | optional; whether the new text should be appended to the previous text (default: FALSE)     |
| <code>append_code</code>  | optional; whether the new R code should be appended to the previous R code (default: FALSE) |

**Details**

To find a report section, either title or name can be used in the section argument. The listReportSections is useful to list all sections added to a camReport object and check its exact name.

**Author(s)**

Elham Ebrahimi

**References**

Ebrahimi et al. (2025) xxx

**See Also**

info

**Examples**

```
## Not run:  
cm <- camData("data-folder")  
  
listReportSections(cm)  
  
## End(Not run)
```

---

updateReportSection    *Update a report section*

---

**Description**

Updates the title, text, code chunk, code settings or package list of an existing report section in a 'camReport' object.

**Usage**

```
updateReportSection(  
  x,  
  section,  
  text,  
  title,  
  code,  
  code_name,  
  code_setting,
```

```

    packages,
    append_text,
    append_code
  )

## S4 method for signature 'camReport'
updateReportSection(
  x,
  section,
  text,
  title,
  code,
  code_name,
  code_setting,
  packages,
  append_text,
  append_code
)

```

### Arguments

|                           |  |
|---------------------------|--|
| <code>x</code>            | A 'camReport' object.  |
| <code>section</code>      | A single character string identifying the section by name or title.  |
| <code>text</code>         | Optional replacement text.   |
| <code>title</code>        | Optional replacement title.  |
| <code>code</code>         | Optional replacement or appended R code. Code can be supplied as a character string or inside braces.            |
| <code>code_name</code>    | Optional code chunk name. Required if a section contains multiple chunks and a specific chunk should be updated. |
| <code>code_setting</code> | Optional R Markdown chunk settings.  |
| <code>packages</code>     | Optional character vector of packages required by the chunk.   |
| <code>append_text</code>  | Logical. If 'TRUE', append text to the existing section text.  |
| <code>append_code</code>  | Logical. If 'TRUE', append code to the existing code chunk.  |

### Value

Invisibly returns the updated 'camReport' object.

# Index

- \* **cameratrapp**
  - camData, 4
- \* **spatial**
  - camData, 4
- \* **species**
  - camData, 4
  
- add\_Module, 2, 3
- add\_Module, character-method (add\_Module), 2, 3
  
- camData, 4
- camData, character-method (camData), 4
- camData, datapackage-method (camData), 4
- camInfo-class (camReport-classes), 6
- camReport-class (camReport-classes), 6
- camReport-classes, 6
- characterORlist-class (camReport-classes), 6
- characterORlistORnull-class (camReport-classes), 6
- characterORnull-class (camReport-classes), 6
  
- data.frameORnull-class (camReport-classes), 6
  
- empty\_trash, 6
- empty\_trash (add\_Module), 3
- empty\_trash, ANY-method (add\_Module), 3
- empty\_trash, ANY-method (empty\_trash), 6
  
- gui, 7
- gui, camReport-method (gui), 7
  
- info, 8
- info, camReport-method (info), 8
- info<- (info), 8
- info<- , camReport, character-method (info), 8
- install\_All, 9, 10
  
- install\_All, ANY-method (install\_All), 10
  
- list\_Modules, 11
- list\_Modules (add\_Module), 3
- list\_Modules, ANY-method (add\_Module), 3
- list\_Modules, ANY-method (list\_Modules), 11
- listORcharacter-class (camReport-classes), 6
- listORnull-class (camReport-classes), 6
- listReportSections, 11
- listReportSections (updateReportSection), 20
- listReportSections, camReport-method (listReportSections), 11
- listReportSections, camReport-method (updateReportSection), 20
  
- move\_Module, 12
- move\_Module (add\_Module), 3
- move\_Module, character-method (add\_Module), 3
- move\_Module, character-method (move\_Module), 12
  
- remove\_Module, 12
- remove\_Module (add\_Module), 3
- remove\_Module, character-method (add\_Module), 3
- remove\_Module, character-method (remove\_Module), 12
  
- report, 13
- report, camReport-method (report), 13
- reportSection, 14
- reportSection, character-method (reportSection), 14
- restore\_Module, 16
- restore\_Module (add\_Module), 3
- restore\_Module, character-method (add\_Module), 3

restore\_Module, character-method  
    (restore\_Module), 16

section\_names, 17

section\_names, ANY-method  
    (section\_names), 17

show, camInfo-method  
    (camReport-classes), 6

show, camReport-method  
    (camReport-classes), 6

status, 18

status (report), 13

status, camReport-method (report), 13

status, camReport-method (status), 18

testSection, 19

testSection, .textSection-method  
    (testSection), 19

updateReportSection, 20, 21

updateReportSection, camReport-method  
    (updateReportSection), 20, 21