

Get data from ClimMob to R

Kauê de Sousa

2021

Content

- API key
- Project data
- Trial data

Lecture

This lecture is available on [Youtube](#)

Set up

For this lecture we need to package ClimMobTools. We install it from CRAN.

```
install.packages("ClimMobTools")
```

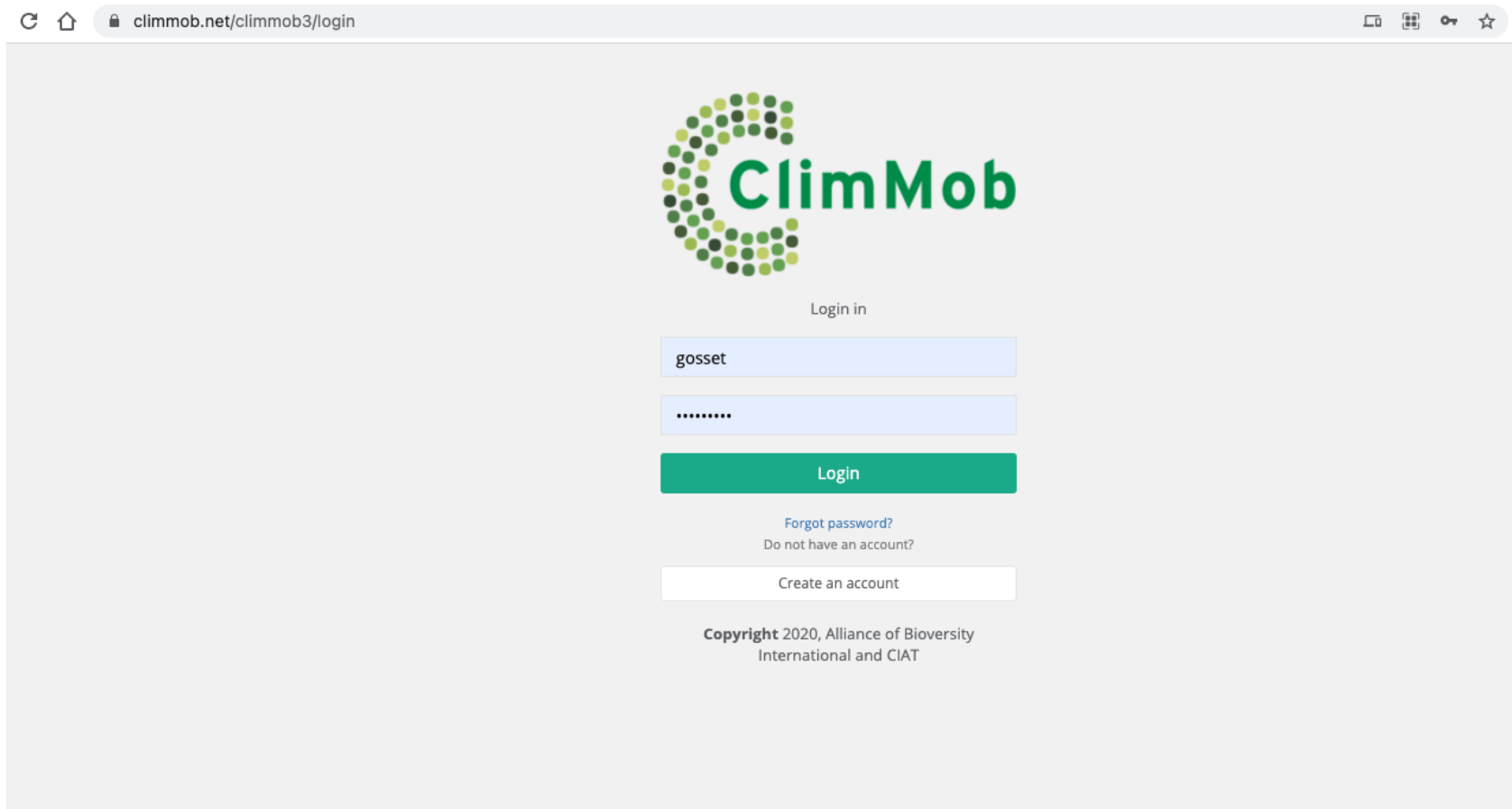
Then we load the packages with `library()`. We run this command every time we open a new R session

```
library("ClimMobTools")
```

API key


API key

Log-in into your ClimMob account at <https://climmob.net/climmob3/login>



The screenshot shows a web browser window with the address bar displaying `climmob.net/climmob3/login`. The page features the ClimMob logo, which consists of a circular arrangement of green and yellow dots to the left of the text "ClimMob" in a green sans-serif font. Below the logo, the text "Login in" is centered. There are two light blue input fields: the first contains the username "gosset", and the second contains a masked password represented by eight dots. Below these fields is a solid green button with the text "Login" in white. Underneath the button, there are two links: "Forgot password?" and "Do not have an account?". At the bottom of the login section is a white button with the text "Create an account". The footer of the page contains the text "Copyright 2020, Alliance of Bioversity International and CIAT".

climmob.net/climmob3/login

 ClimMob

Login in

gosset

.....

Login

[Forgot password?](#)
[Do not have an account?](#)

Create an account

Copyright 2020, Alliance of Bioversity
International and CIAT

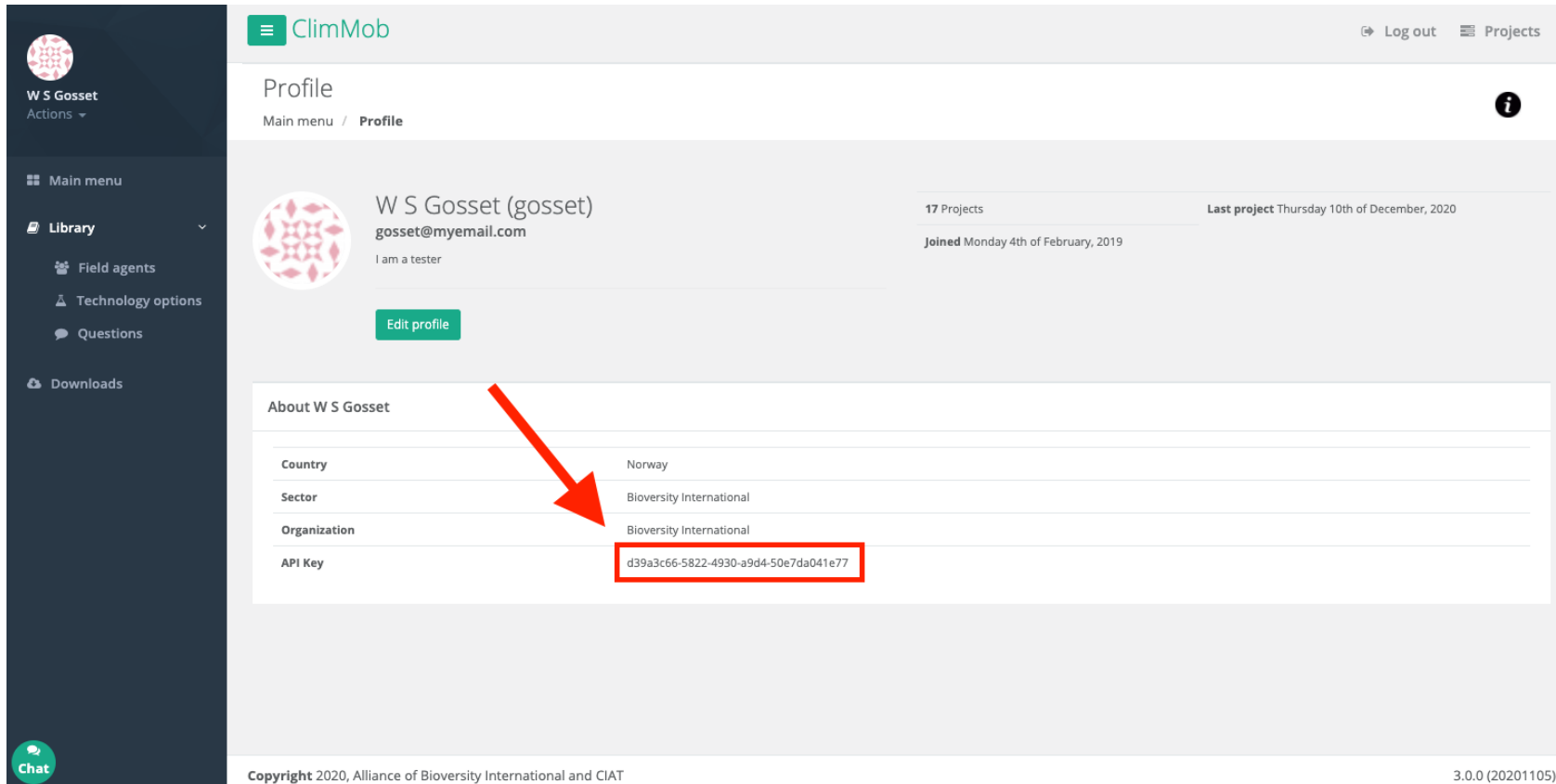
API key

Click on "Actions" and then "Profile"

The screenshot displays the ClimMob web application interface. On the left, a dark sidebar contains a user profile section for 'W S Gosset' with an 'Actions' dropdown menu. The 'Profile' option in this menu is highlighted with a red box and a red arrow. Below the sidebar, the main content area shows the project details for 'Chocolate Wageningen' (Test 5 chocolate brands). The project definition progress is 80% completed, with tasks like 'Assign field agents' (Pending), 'Select technology options' (Completed), 'Prepare registration' (Completed), and 'Prepare data collection' (Completed). A 'Participant registration' section is marked as 'Closed'. A 'Data collection: Assessment' section is also marked as 'Closed'. An 'Analysis' section features a 'Start analysis' button. At the bottom, a 'Data Collection moments' section provides instructions on when to start data collection. The top right of the interface includes 'Log out' and 'Projects' links.

API key

The API key is on the bottom of your profile information



The screenshot shows the ClimMob user interface. On the left is a dark sidebar with a user profile card for 'W S Gosset' and a 'Library' menu. The main content area is titled 'Profile' and shows user details for 'W S Gosset (gosset)'. Below this is a table titled 'About W S Gosset' containing fields for Country, Sector, Organization, and API Key. A red arrow points to the API Key field, which contains the value 'd39a3c66-5822-4930-a9d4-50e7da041e77' and is highlighted with a red box. The footer contains copyright information and the version number '3.0.0 (20201105)'.

Profile

Main menu / Profile

W S Gosset (gosset)
gosset@myemail.com
I am a tester
[Edit profile](#)

17 Projects
Last project Thursday 10th of December, 2020
Joined Monday 4th of February, 2019

About W S Gosset	
Country	Norway
Sector	Bioversity International
Organization	Bioversity International
API Key	d39a3c66-5822-4930-a9d4-50e7da041e77

Copyright 2020, Alliance of Bioversity International and CIAT 3.0.0 (20201105)

Project data

Project data

To access the information about your tricot projects we use the function `getProjectsCM()` from `ClimMobTools`, the main input is your API key

```
key <- "d39a3c66-5822-4930-a9d4-50e7da041e77"

projects <- getProjectsCM(key)

projects[8:10, ]
```

```
##           project_id           name    status creation_date
##           <chr>         <chr>    <chr>      <date>
## 8:           test      Registry-only concluded    2019-11-08
## 9: chocolatesnepal    Chocolates Nepal concluded    2019-10-27
## 10:          flowers Flowers wageningen concluded    2019-04-17
## intended_participants registration_progress last_registration_activity
##           <int>                <dbl>                <chr>
## 8:             30                13.33                1 year ago
## 9:             26                84.62                1 year ago
## 10:             7                100.00                1 year ago
```

Project data

If you are a client from an alternative ClimMob server, you may need the argument "server"

```
key <- "your-key"  
servername <- "server-name"  
  
projects <- getProjectsCM(key, server = servername)
```

Trial data

Trial data

The trial data is retrieved with the function `getDataCM()`. We need the API key and the project id. Lets retrieve the data from the project "breadwheat"

This returns the data frame in a "tidy" format.

```
dt <- getDataCM(key, project = "breadwheat")  
  
dt[1:6, ]
```

##	id	moment	variable	value
##	<int>	<fct>	<chr>	<chr>
## 1:	1	package	participant_name	Participant Name1
## 2:	1	package	item_A	CSW18
## 3:	1	package	item_B	PBW502
## 4:	1	package	item_C	HW2045
## 5:	1	package	project_name	breadwheat
## 6:	1	registration	surveyid	14c7cfd6-51c3-11e9-a394-0686a00ebfc0

[1] [Read more about tidy data](#)

Trial data

To return the data in the wider format, we use the argument `pivot.wider = TRUE`

```
dt <- getDataCM(key, project = "breadwheat", pivot.wider = TRUE)
```

```
dt[1:6, 1:5]
```

##	id	package_participant_name	package_item_A	package_item_B	package_item_C
##	<chr>	<chr>	<chr>	<chr>	<chr>
## 1:	1	Participant Name1	CSW18	PBW502	HW2045
## 2:	2	Participant Name2	WR544	HD2985	PBW550
## 3:	3	Participant Name3	PBW343	HD2932	RAJ4120
## 4:	4	Participant Name4	HP1633	DBW17	CSW18
## 5:	5	Participant Name5	CSW18	DBW17	HD2932
## 6:	6	Participant Name6	HP1633	HW2045	CSW18

Thank you!



Alliance



@desousakaue



k.desousa@cgiar.org

[Back to the main page](#)