

# Estimation of area for REDD+ using stratified sampling estimator: get started with SEPAL

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Open <https://sepal.io>

System for earth observations, data access,  
processing & analysis for land monitoring

SEPAL

- SEARCH GEO DATA**  
Fast and easy access to scenes  
and mosaics
- BROWSE YOUR DATA**  
Preview and download your  
products
- PROCESS YOUR DATA**  
Easy-to-use data processing  
Apps

USERNAME

dannunzio

PASSWORD

.....

LOGIN

Forgot password

TERMINAL

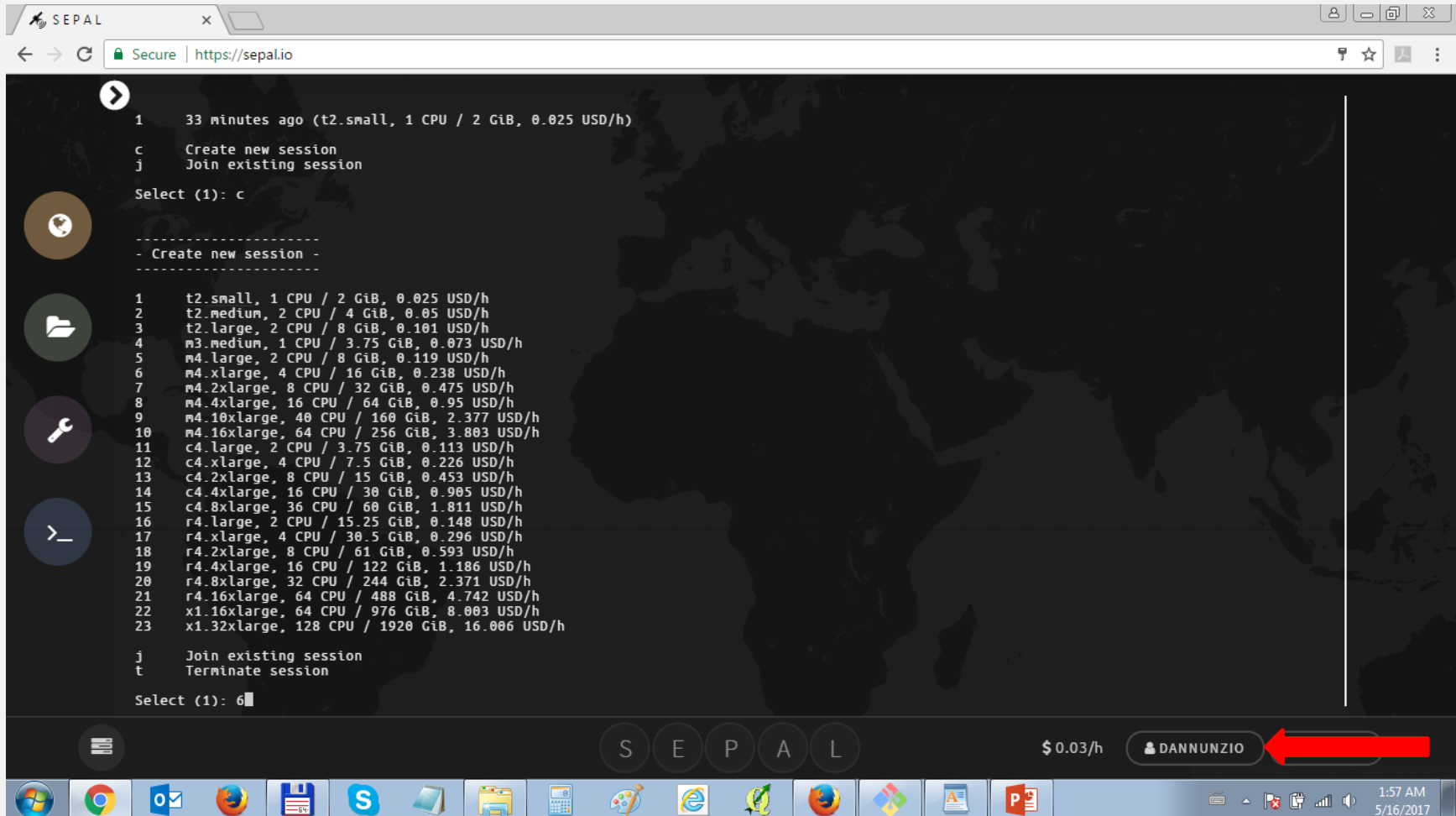
1:52 AM  
5/16/2017

# Start the terminal

The image shows a web browser window with the URL <https://sepal.io>. The main content area displays a dark world map background with four overlapping circles representing different functions: SEARCH (with a globe icon), BROWSE (with a folder icon), PROCESS (with a wrench icon), and TERMINAL (with a command prompt icon). A blue arrow points to the TERMINAL circle. Below the map, there is a navigation bar with the letters S, E, P, A, L and buttons for \$ 0.03/h, DANNUNZIO, and LOGOUT. At the bottom, a Windows taskbar is visible with various application icons and a system tray showing the time as 1:55 AM on 5/16/2017.

Choose instance #6 (type 6 and press enter)

Check your status by clicking on your username



The screenshot shows a web browser window with the URL <https://sepal.io>. The main content area is a dark-themed terminal window. At the top, it says "1 33 minutes ago (t2.small, 1 CPU / 2 GiB, 0.025 USD/h)". Below this, there are commands: "c Create new session" and "j Join existing session". The prompt "Select (1): c" is shown. A dashed line separates the "Create new session" section from the instance list. The list contains 23 numbered items, each with instance type, CPU, memory, and price. Item 6 is "m4.xlarge, 4 CPU / 16 GiB, 0.238 USD/h". The prompt "Select (1): 6" is shown at the bottom of the terminal. Below the terminal, there is a navigation bar with the letters "S E P A L" and a button labeled "DANNUNZIO" with a red arrow pointing to it. The bottom of the screen shows a Windows taskbar with various application icons and a system clock showing 1:57 AM on 5/16/2017.

```
1 33 minutes ago (t2.small, 1 CPU / 2 GiB, 0.025 USD/h)
c Create new session
j Join existing session
Select (1): c

----- Create new session -----
1 t2.small, 1 CPU / 2 GiB, 0.025 USD/h
2 t2.medium, 2 CPU / 4 GiB, 0.05 USD/h
3 t2.large, 2 CPU / 8 GiB, 0.101 USD/h
4 m3.medium, 1 CPU / 3.75 GiB, 0.073 USD/h
5 m4.large, 2 CPU / 8 GiB, 0.119 USD/h
6 m4.xlarge, 4 CPU / 16 GiB, 0.238 USD/h
7 m4.2xlarge, 8 CPU / 32 GiB, 0.475 USD/h
8 m4.4xlarge, 16 CPU / 64 GiB, 0.95 USD/h
9 m4.10xlarge, 40 CPU / 160 GiB, 2.377 USD/h
10 m4.16xlarge, 64 CPU / 256 GiB, 3.803 USD/h
11 c4.large, 2 CPU / 3.75 GiB, 0.113 USD/h
12 c4.xlarge, 4 CPU / 7.5 GiB, 0.226 USD/h
13 c4.2xlarge, 8 CPU / 15 GiB, 0.453 USD/h
14 c4.4xlarge, 16 CPU / 30 GiB, 0.905 USD/h
15 c4.8xlarge, 36 CPU / 60 GiB, 1.811 USD/h
16 r4.large, 2 CPU / 15.25 GiB, 0.148 USD/h
17 r4.xlarge, 4 CPU / 30.5 GiB, 0.296 USD/h
18 r4.2xlarge, 8 CPU / 61 GiB, 0.593 USD/h
19 r4.4xlarge, 16 CPU / 122 GiB, 1.186 USD/h
20 r4.8xlarge, 32 CPU / 244 GiB, 2.371 USD/h
21 r4.16xlarge, 64 CPU / 488 GiB, 4.742 USD/h
22 x1.16xlarge, 64 CPU / 976 GiB, 8.003 USD/h
23 x1.32xlarge, 128 CPU / 1920 GiB, 16.006 USD/h

j Join existing session
t Terminate session
Select (1): 6
```

S E P A L \$ 0.03/h DANNUNZIO

The screenshot displays the SEPAL web application interface. The browser address bar shows the URL <https://sepal.io>. The interface is divided into two main sections: USER and USED RESOURCES.

**USER SECTION:**

- NAME:** Remi D'Annunzio
- USERNAME:** dannunzio
- PASSWORD:** CHANGE (button)
- EMAIL:** remi.dannunzio@fao.org
- ORGANIZATION:** UN-FAO
- GOOGLE ACCOUNT:** USE MY ACCOUNT (button)

**USED RESOURCES SECTION:**

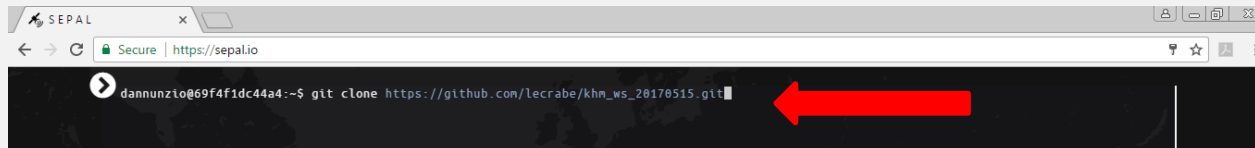
	Quota	Used
Monthly Instance Budget	100 USD	4.77 USD
Monthly Storage Budget	50 USD	3.5 USD
Storage	100 GB	21.03 GB

**SESSIONS SECTION:**

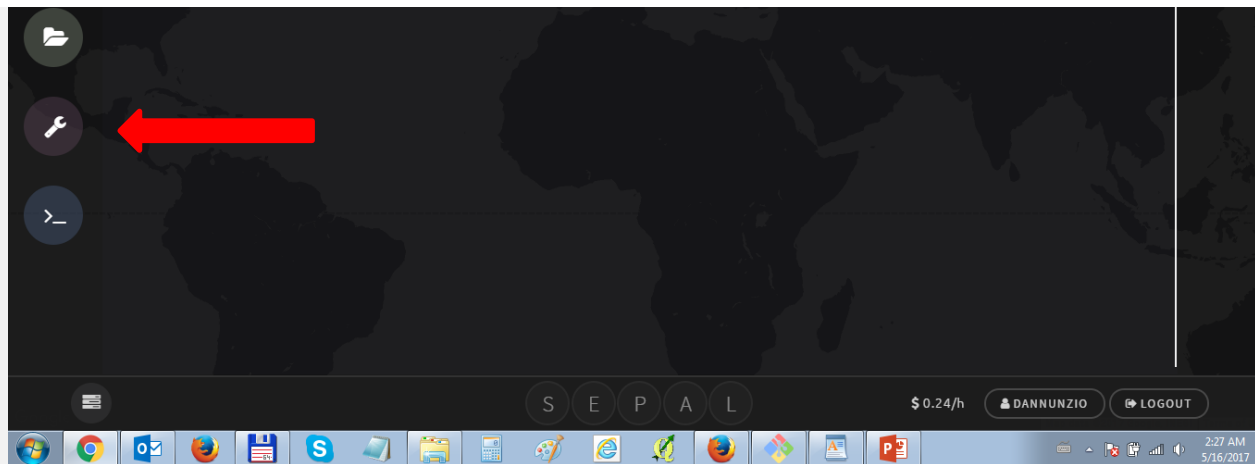
Type of instance	Time	Cost
m4.xlarge	a few seconds ago	0 USD

The bottom of the interface features a navigation bar with the letters S, E, P, A, L, a price indicator of \$ 0.24/h, and buttons for DANNUNZIO and LOGOUT. The Windows taskbar at the very bottom shows various application icons and the system clock indicating 2:21 AM on 5/16/2017.

Back in the terminal, clone the GIT repository

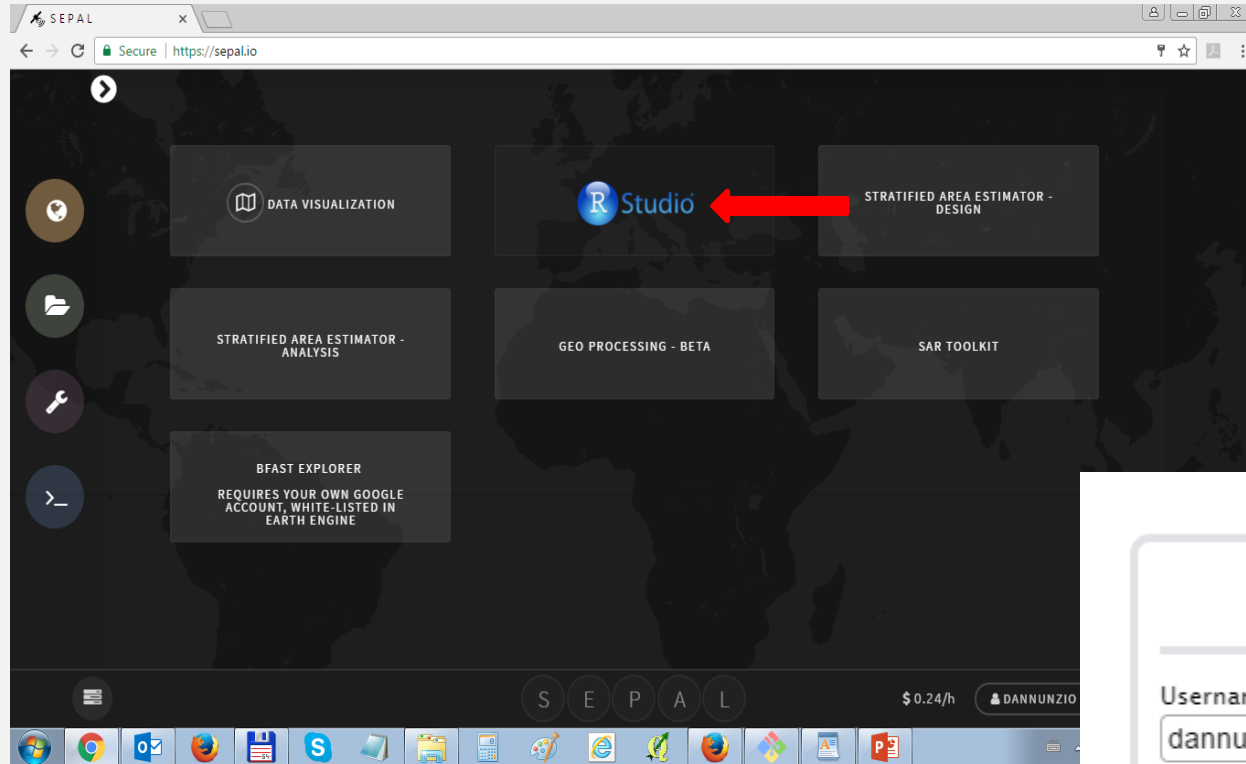


```
git clone https://github.com/lecrabe/khm_ws_20170515.git
```



Once cloning finished, go to processing

# Select RSTUDIO and sign in



### Sign in to RStudio

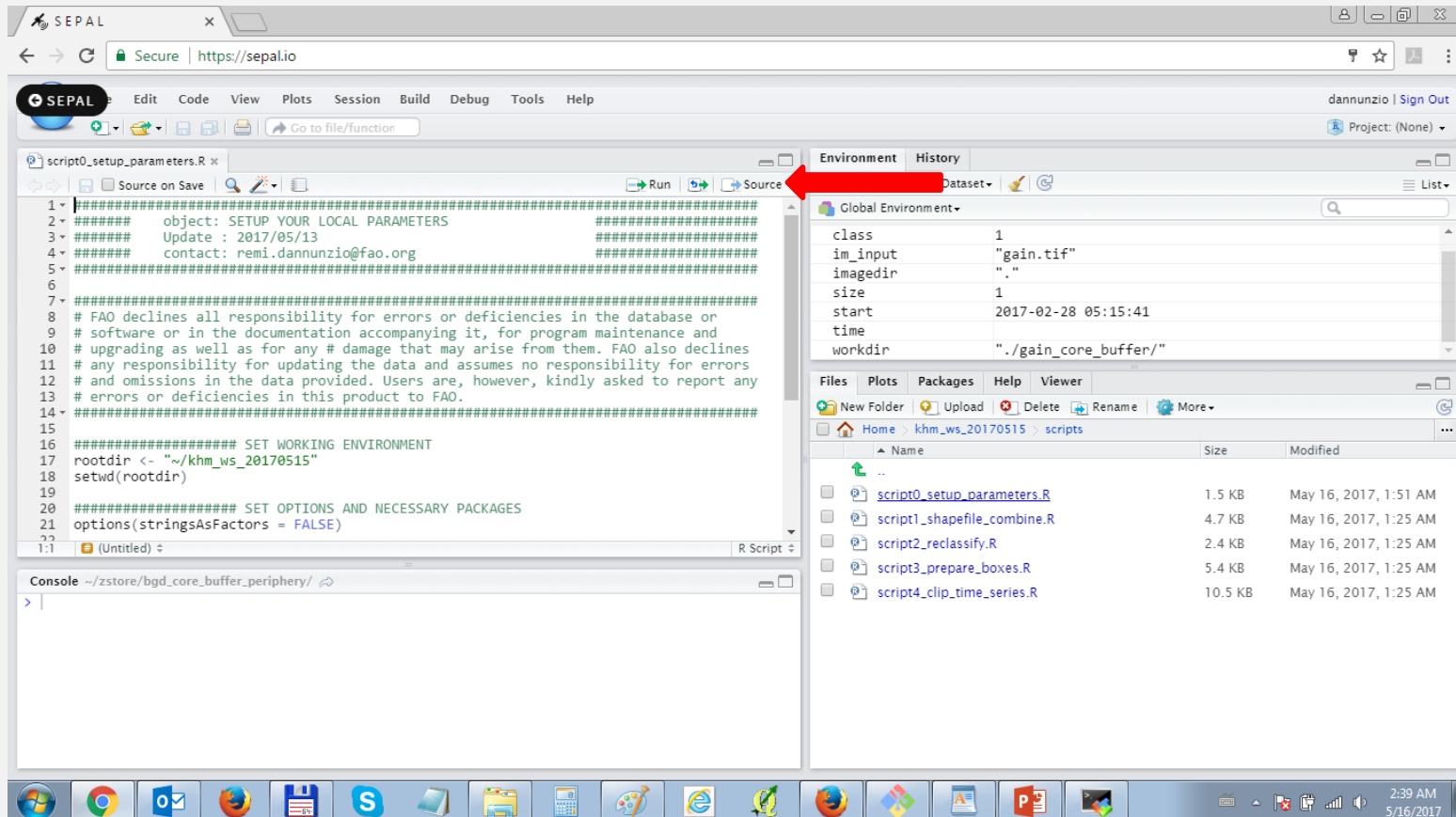
Username:

Password:

☐ Stay signed in

Sign In

# Open the khm\_ws\_20170515 folder/scripts/



## Click on SOURCE to run the setup and download data