Estimation of area for REDD+ using stratified sampling design: application with SEPAL tools

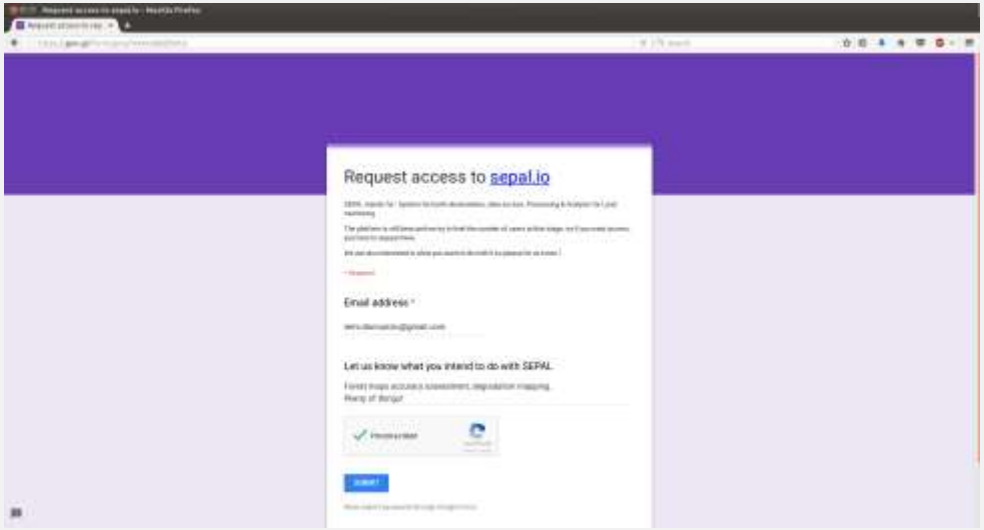
Webinar GOFC-GOLD, 2017/06/06

remi.dannunzio@fao.org

Request access to SEPAL

SEPAL stands for : System for Earth observations, data access, Processing & Analysis for Land monitoring.

The platform is still beta and we try to limit the number of users at that stage



If you want access, you have to request [in this Google Survey]

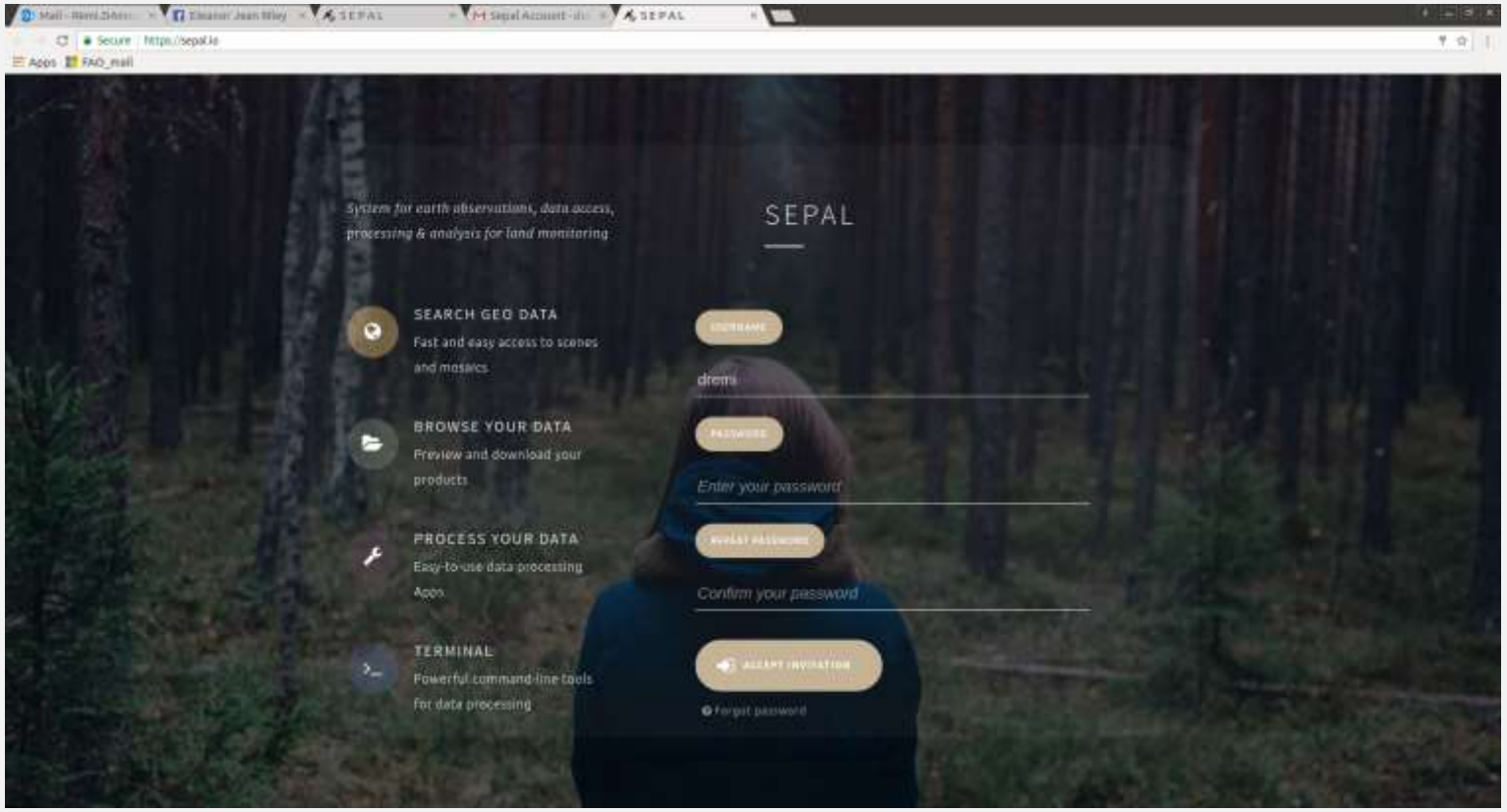
([https://goo.gl/forms/9cz2BGCch32H331y1])

You will then receive an email with a link to activate your access.

Remember to check in your **SPAMS**, it might be there.

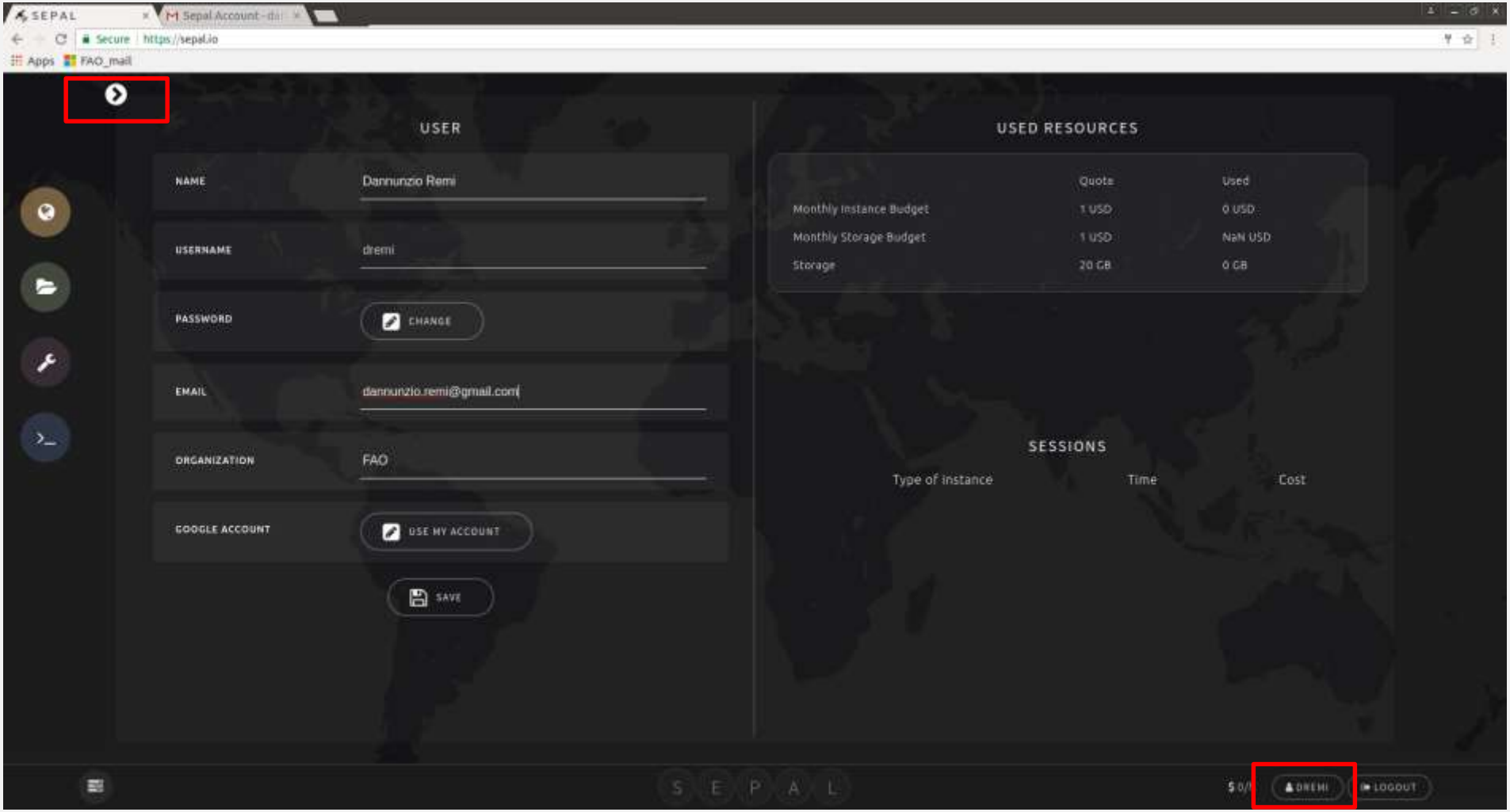
Setup your password in SEPAL

It needs at least one upper case, one lower case and one number.
The minimum size is 6 digits.



You can always reach the platform at https://sepal.io

Check your status, budget, parameters

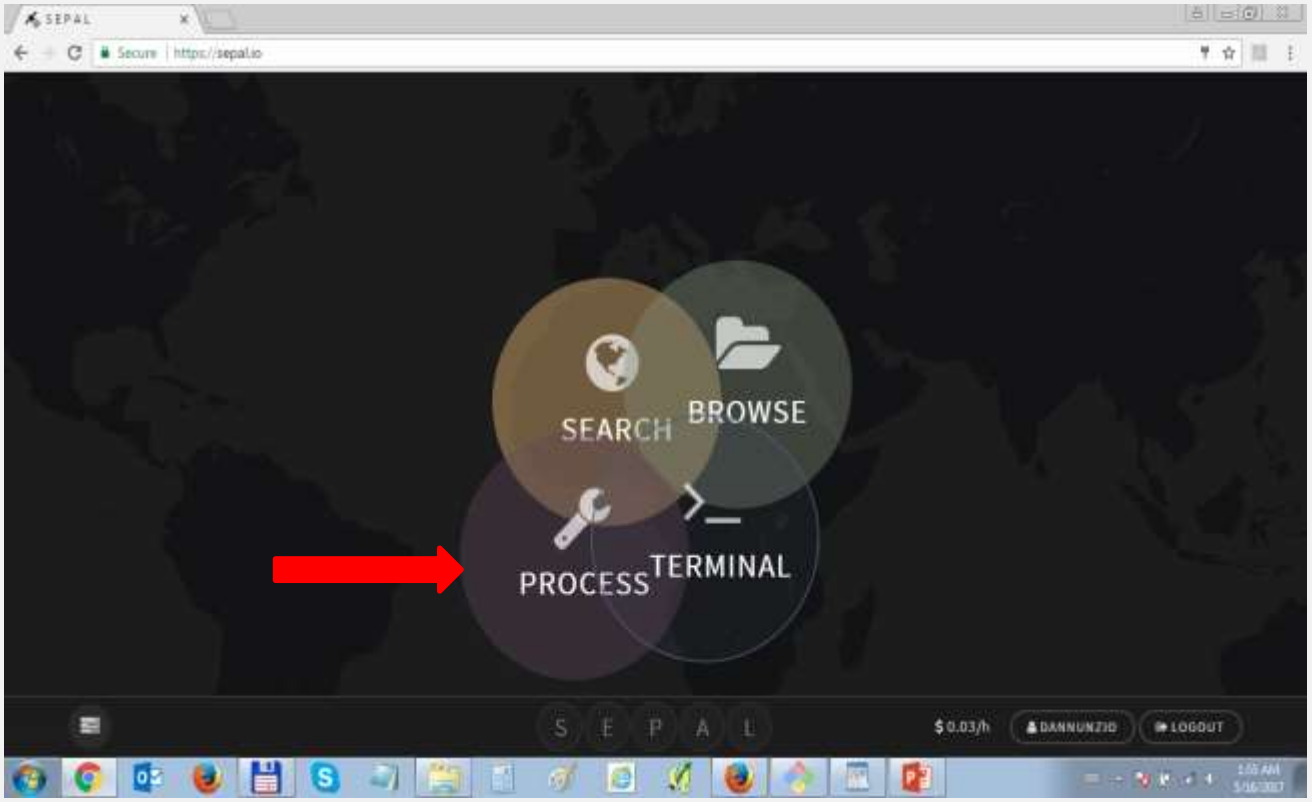


Go back to main page (top left arrow)

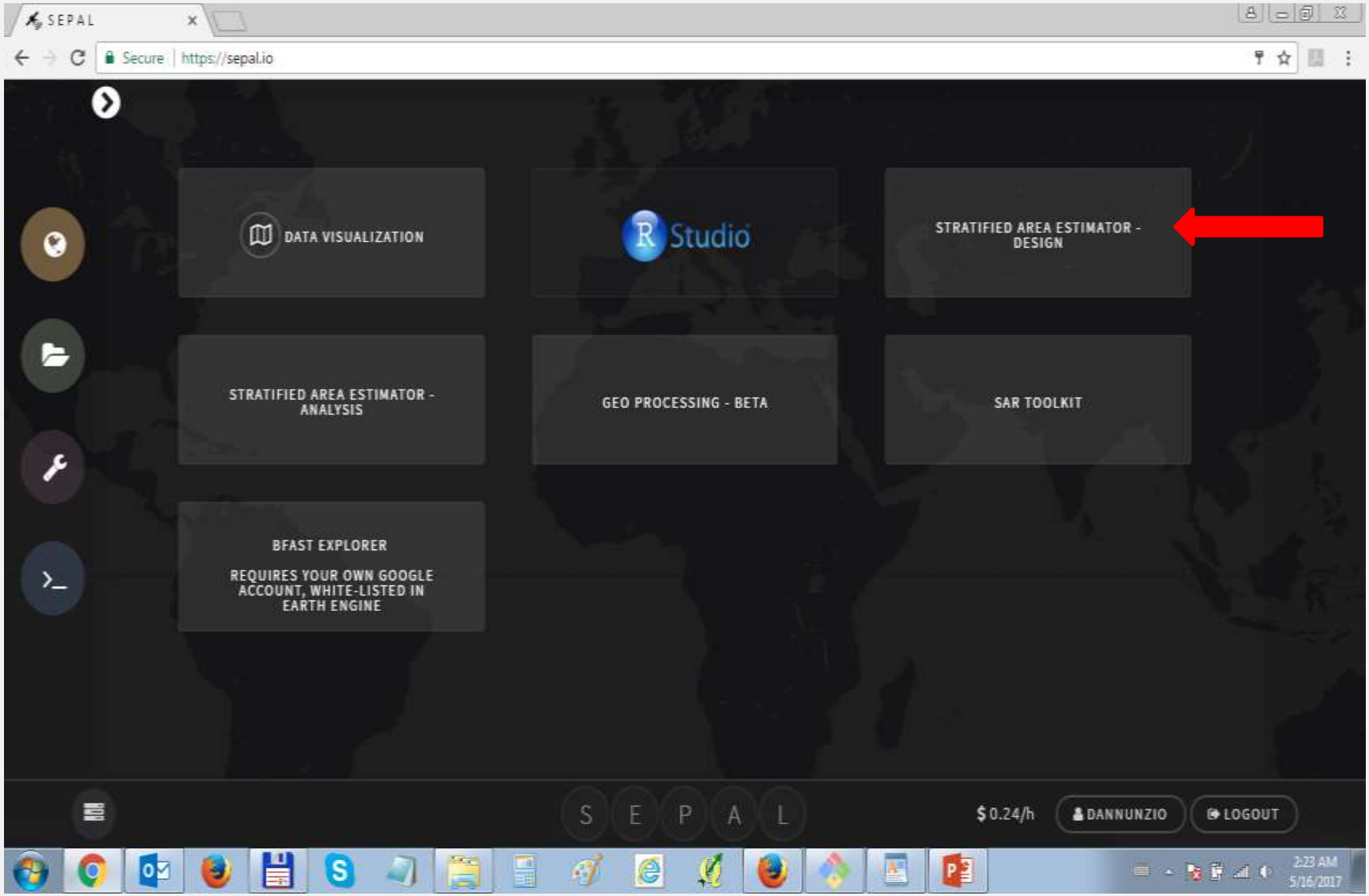
Start the PROCESS tab

There are four fields in SEPAL

SEARCH	for imagery and creating mosaics
BROWSE	through your personal folders and visualize your data
TERMINAL	to access all the command lines possibilities of the LINUX server
PROCESS	access pre-loaded tools and chains of processing

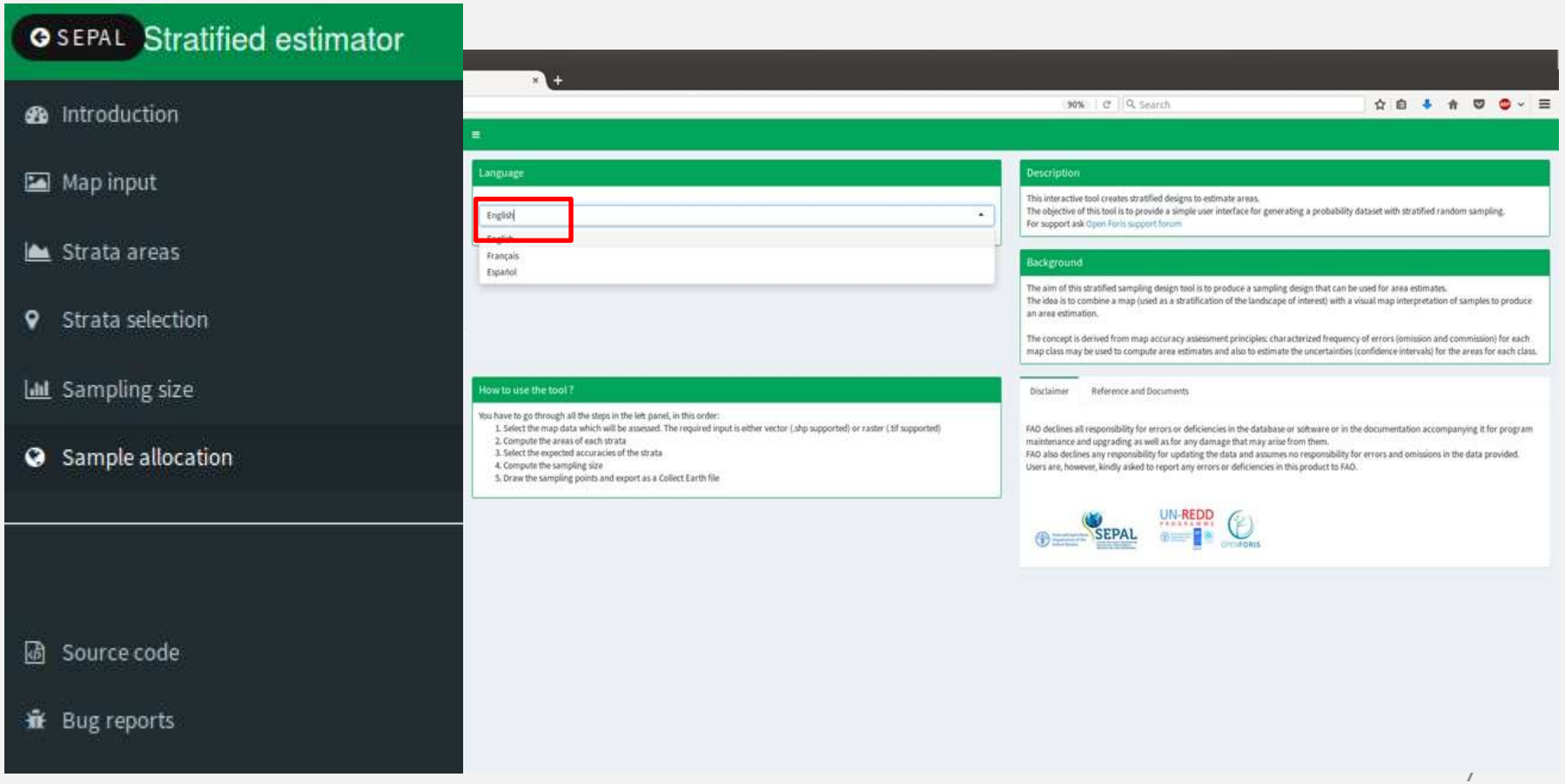


Select SAE – DESIGN tool



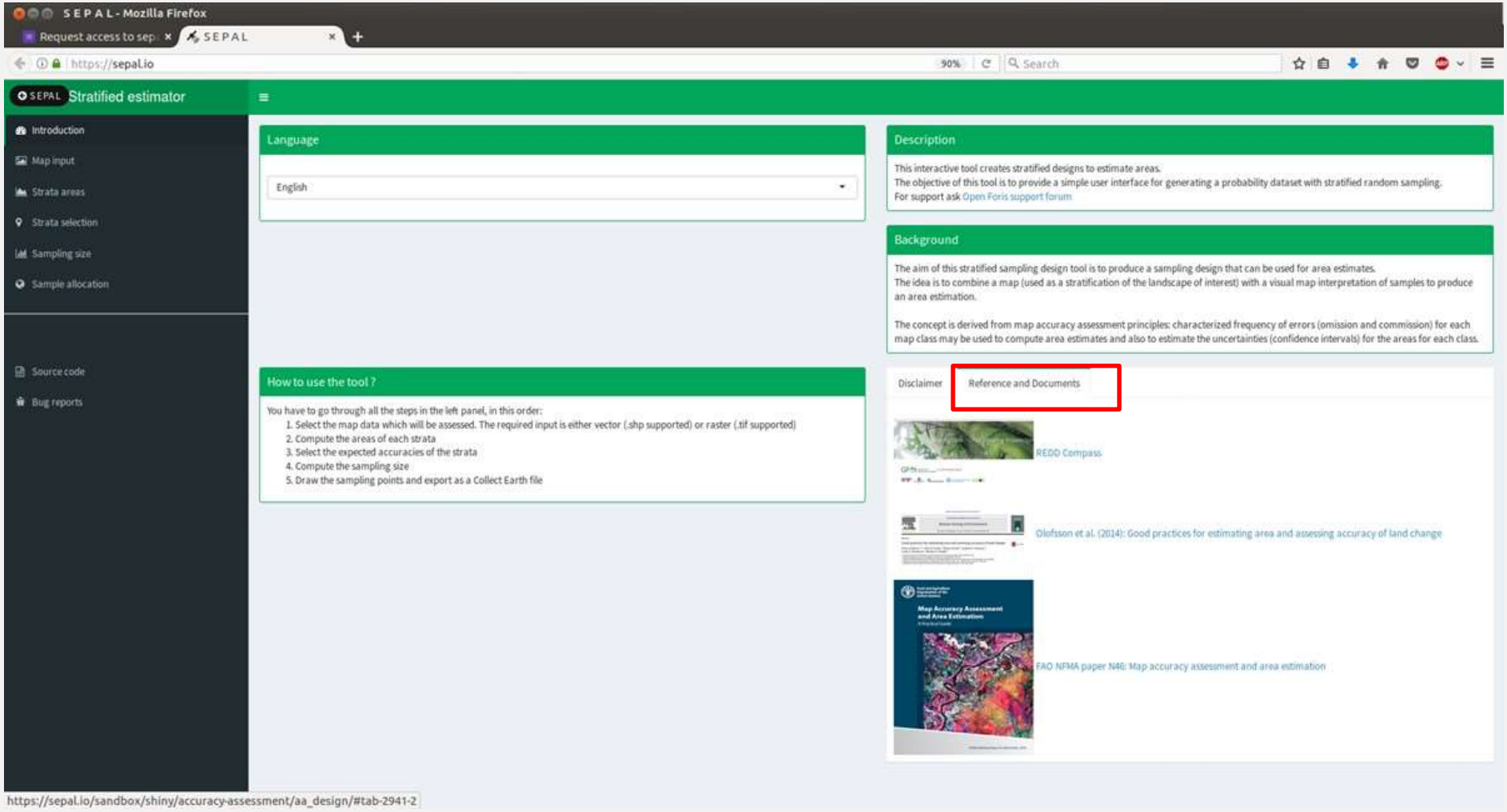
Introduction TAB: Select your language

Check the description tabs and the tool structure.
Steps need to be performed one after the other.



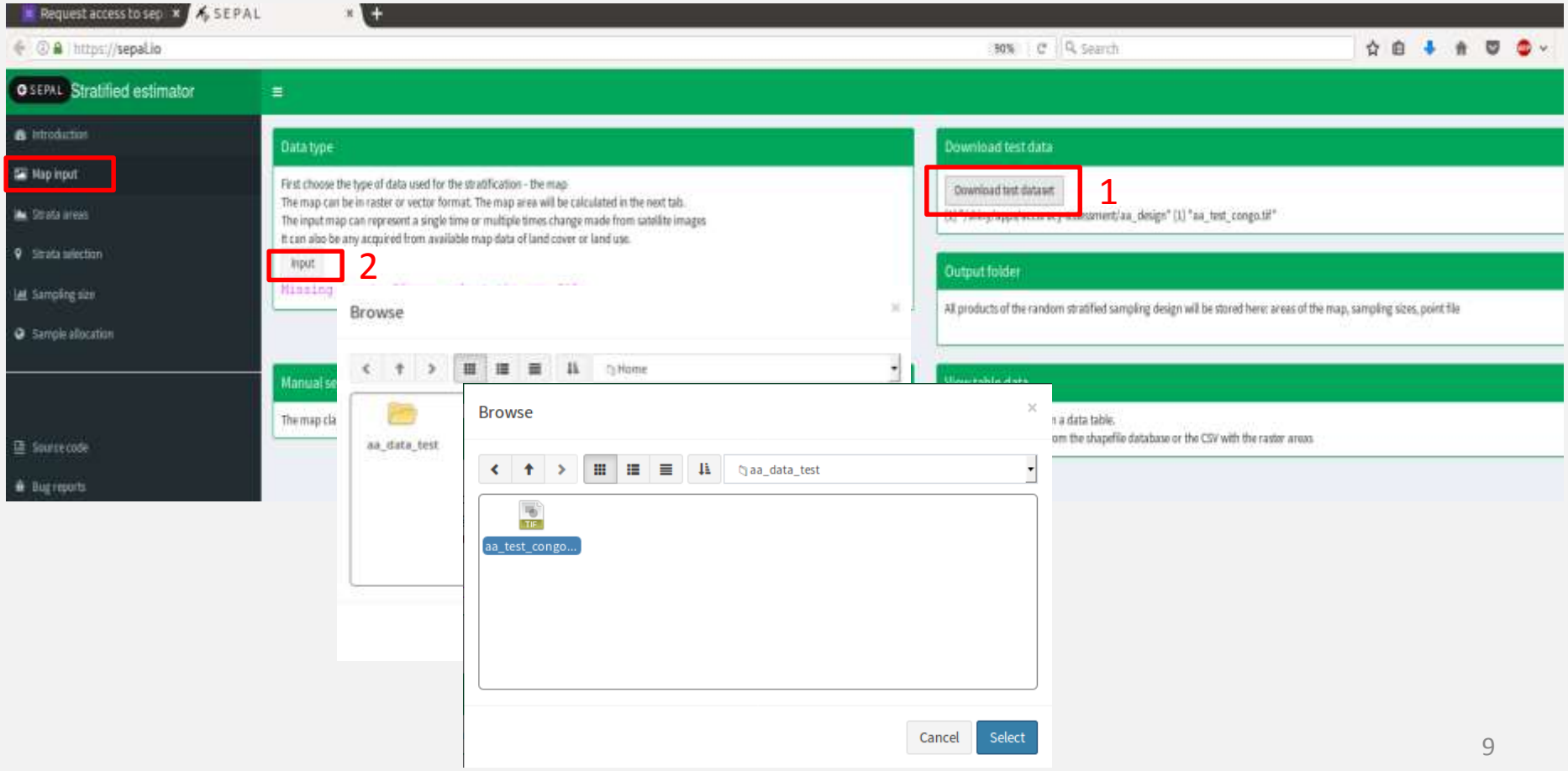
Introduction TAB: reference documents

Access reference and background documents, the link will bring you directly there



STEP 1 Map input

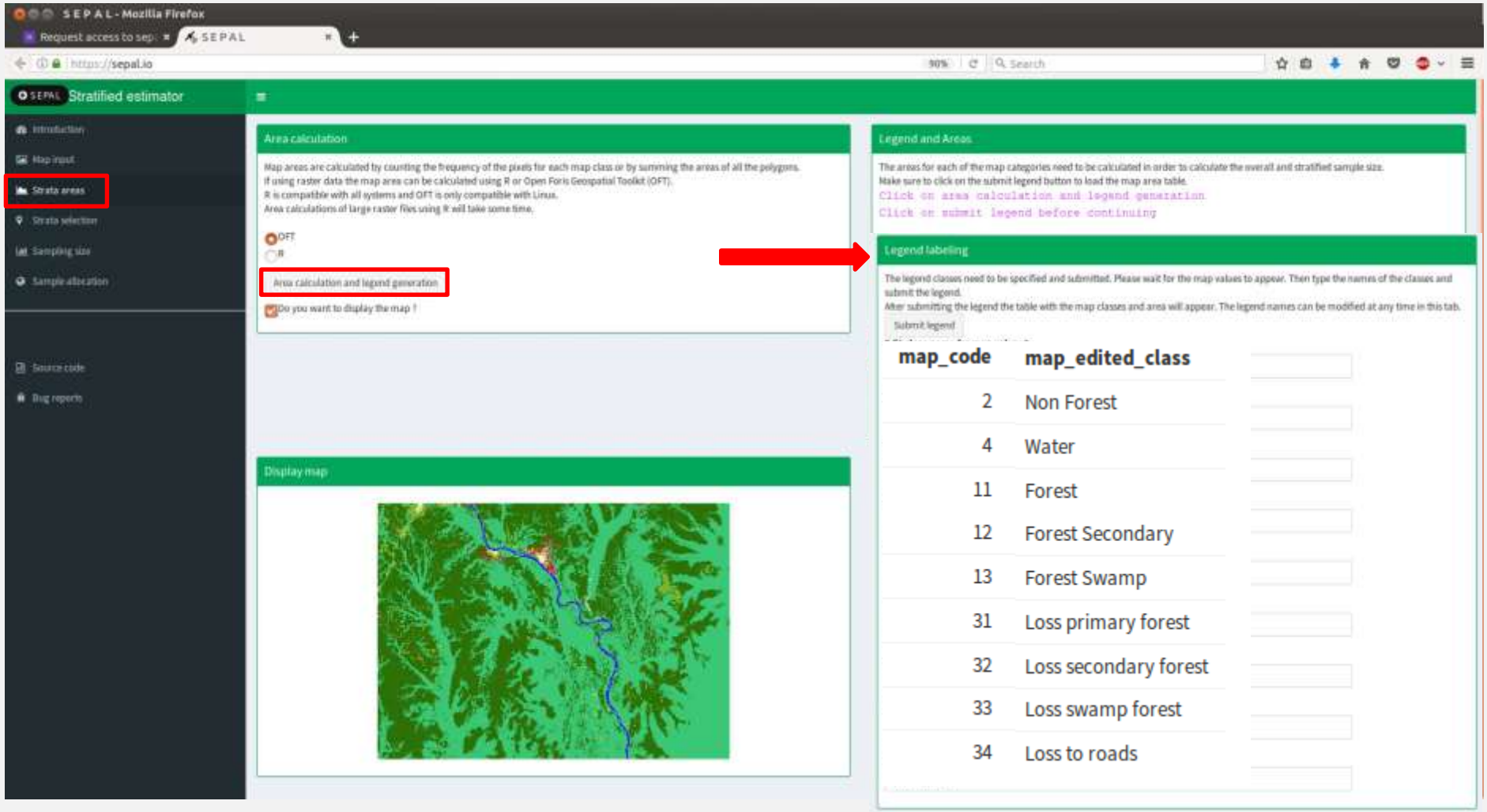
1. Download the test dataset (note it is downloaded to your SEPAL workspace)
2. Select the map you just downloaded (INPUT/sae_data_test/test_map_congo.tif)



STEP 2 Strata areas

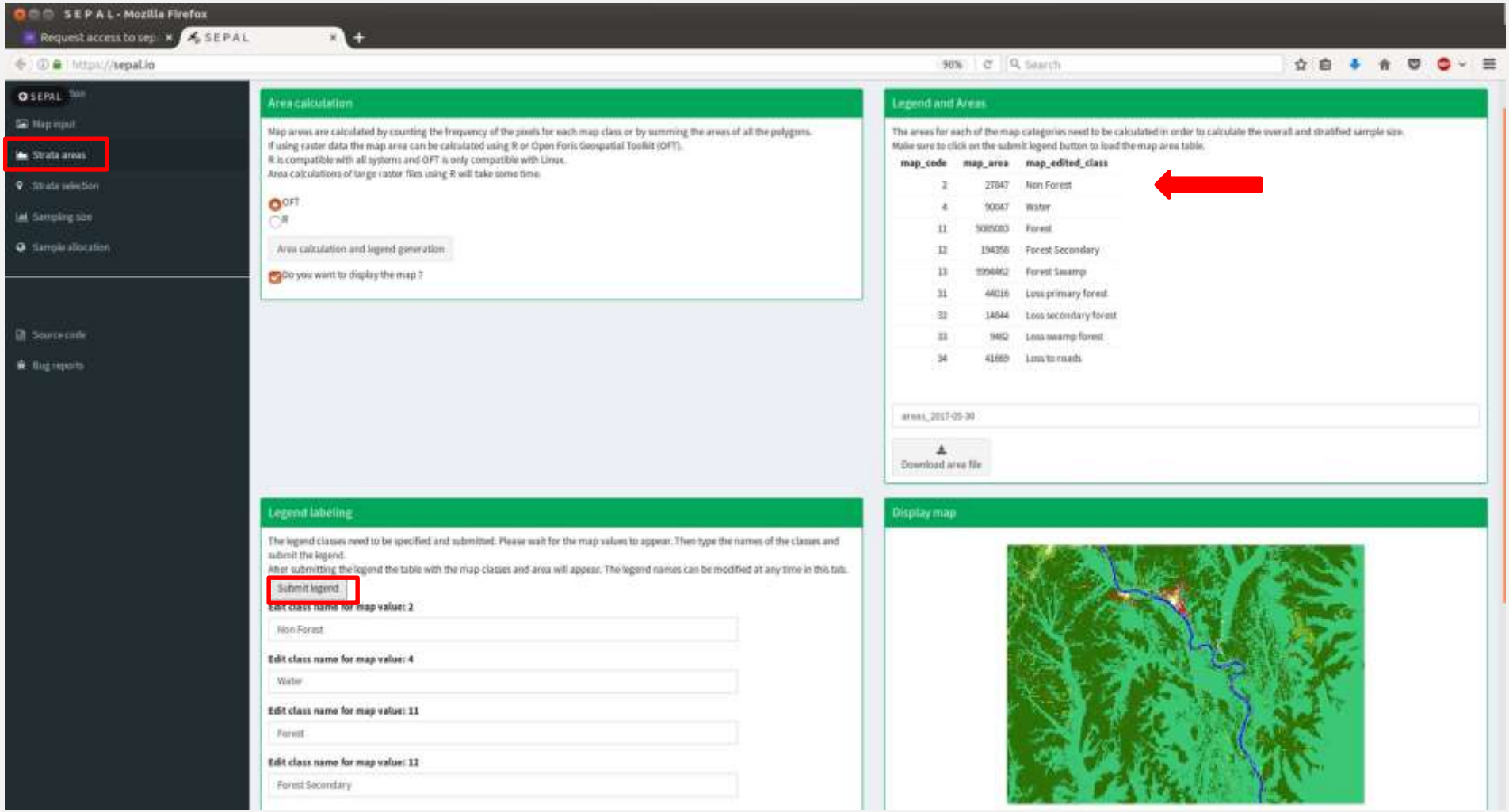
Display map by checking box

Generate the legend by clicking on the button: you can further EDIT the legend

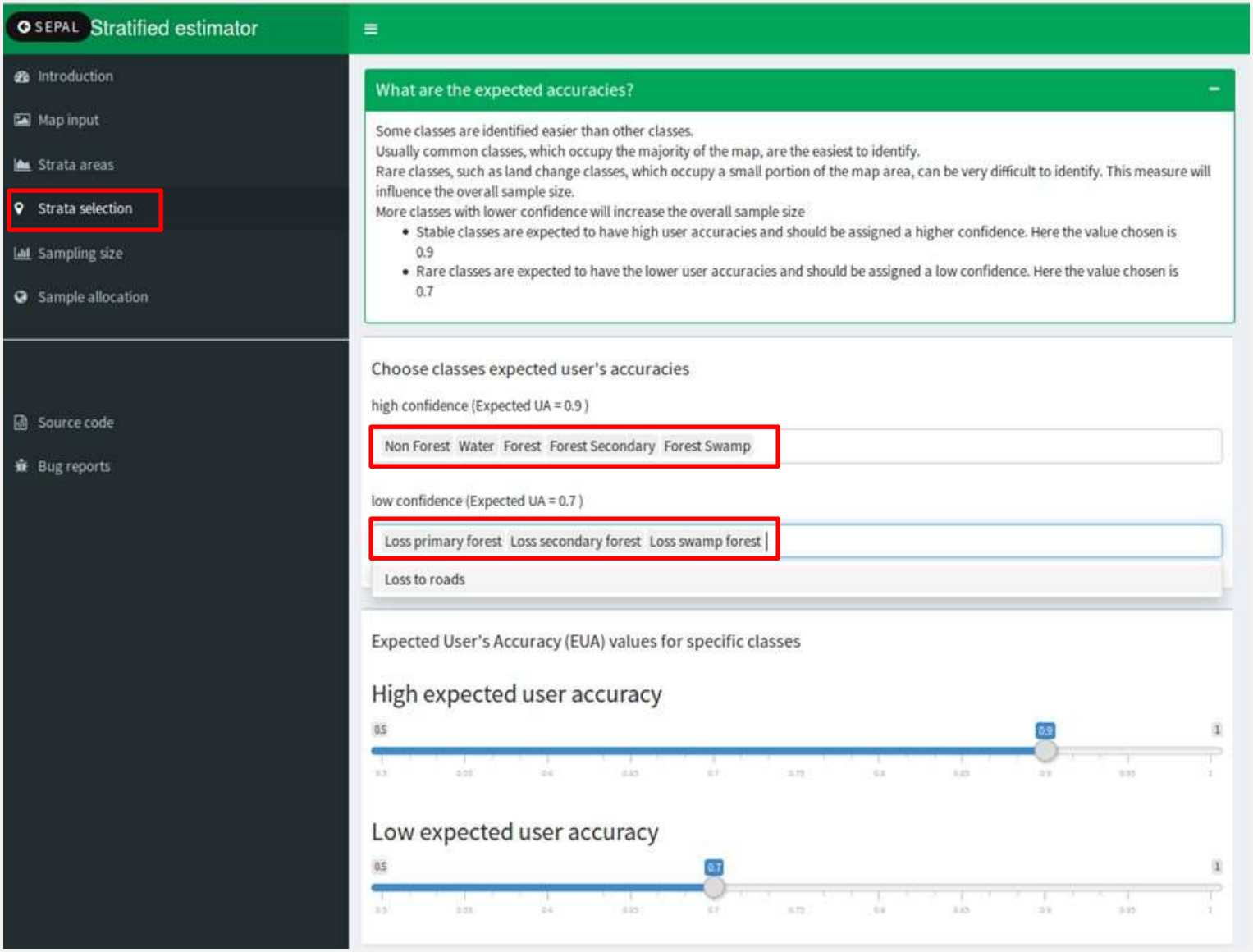


STEP 2 Strata areas

Submit the legend : you can edit as much as you want but remember to SUBMIT
The classes name will be showing in later stage for data collection



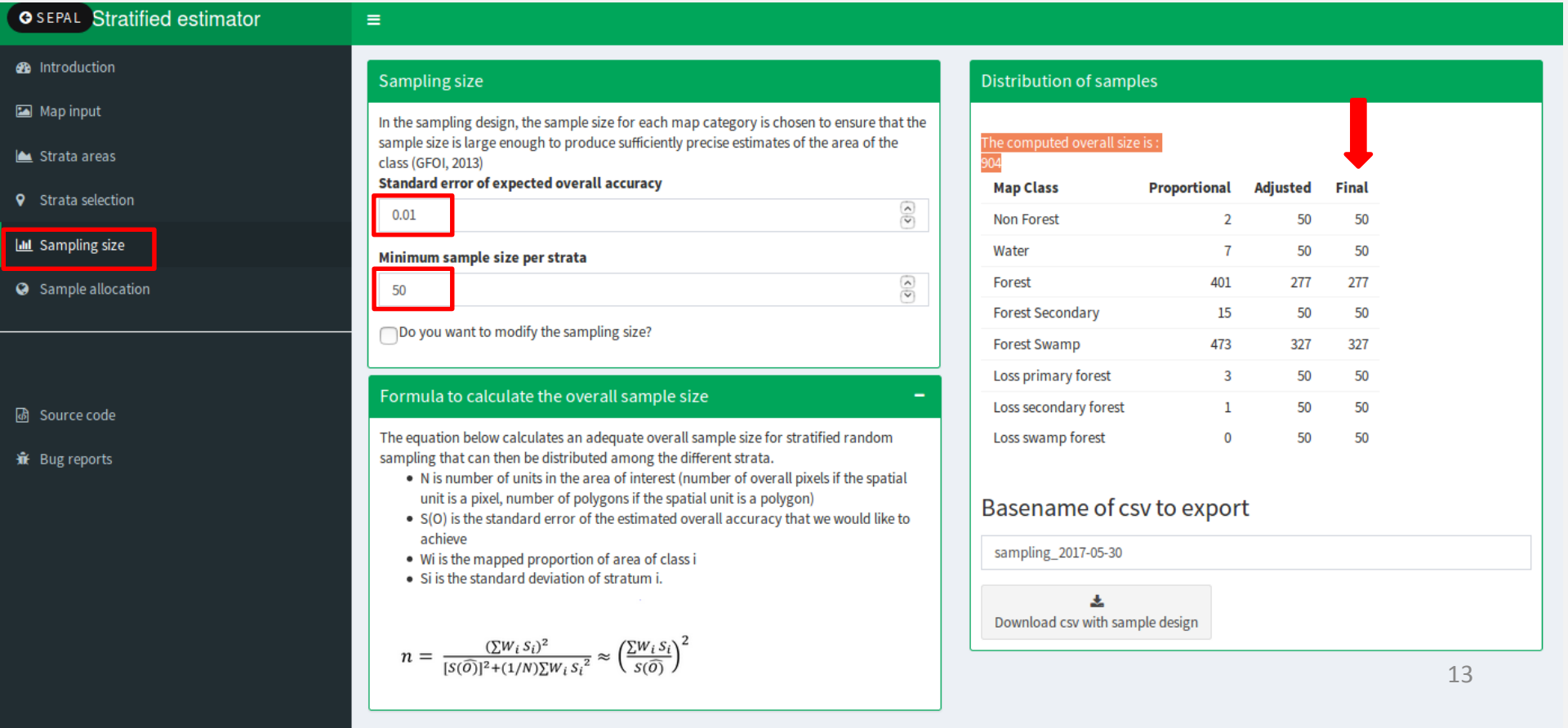
STEP 3 Select strata of interest and associated EUA



STEP 4 Sampling distribution

Tweak the standard error of overall accuracy & minimum sample size

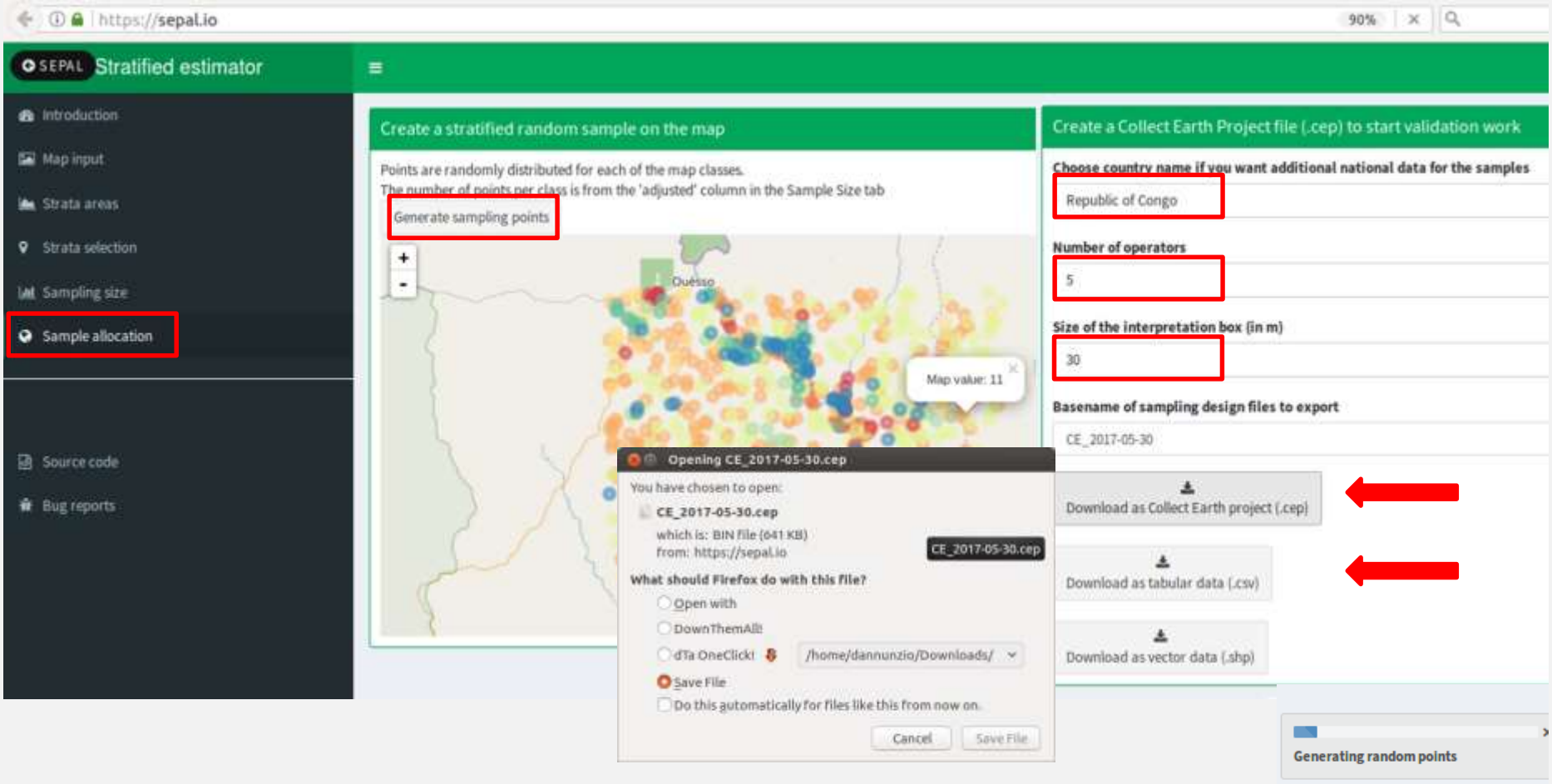
Samples are allocated by minimum size first and the rest is distributed proportionally to strata size



STEP 5 Sample allocation

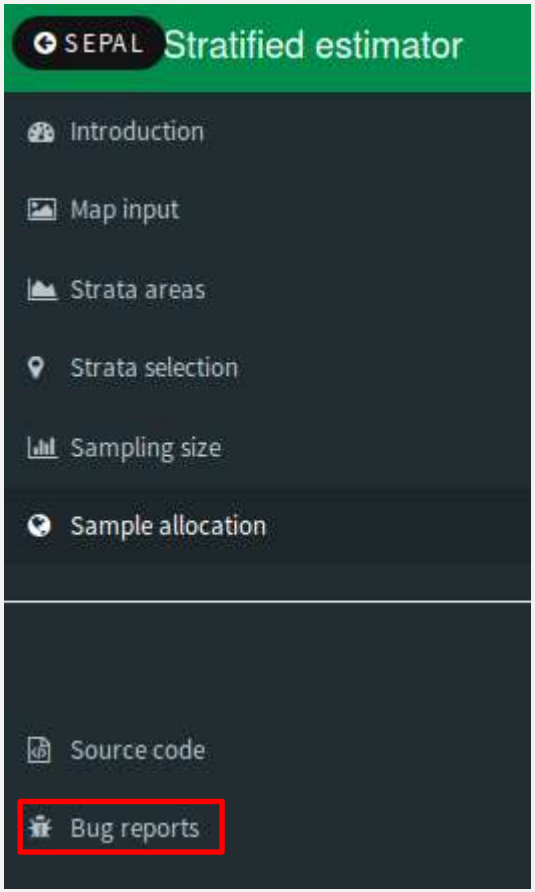
Click on “Generate sampling points” → wait (see task bottom right)

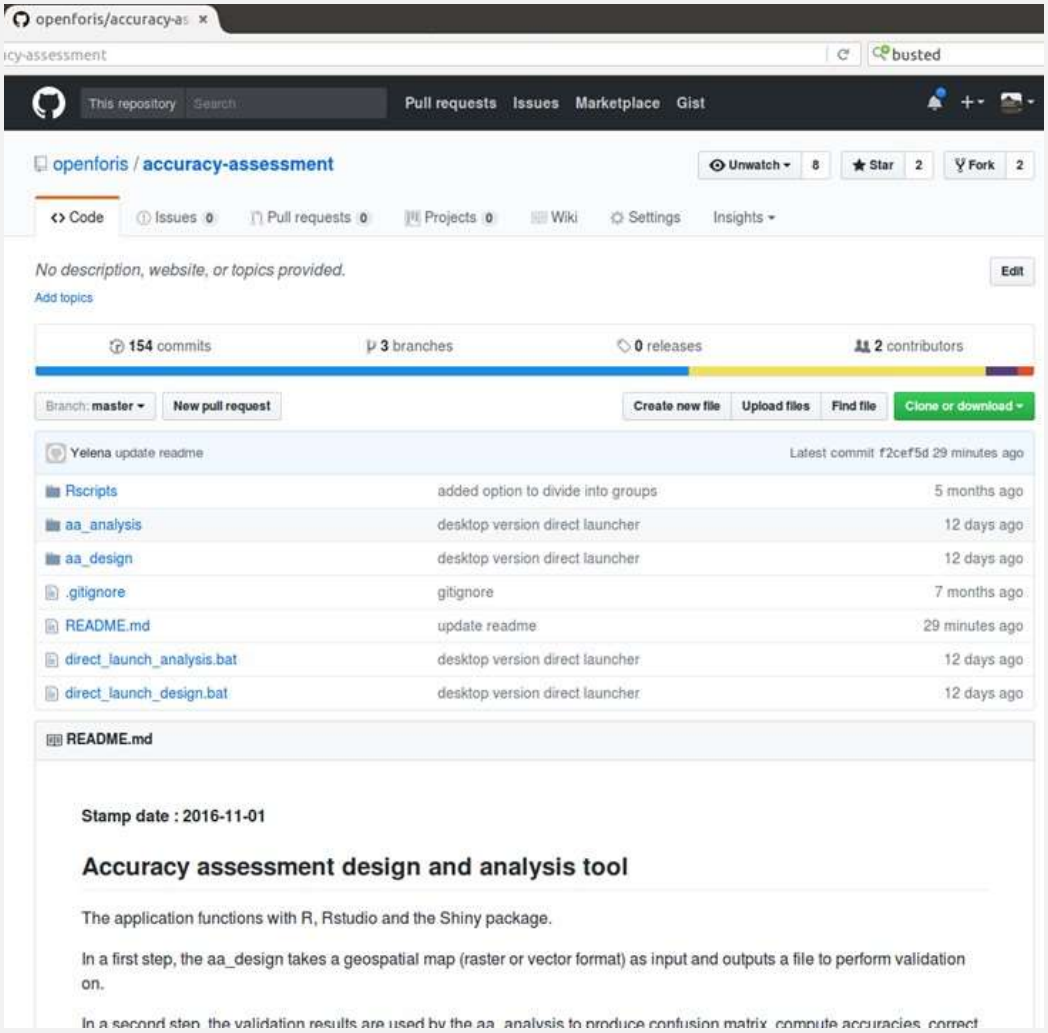
Download CEP project AND tabular data → saves to your computer (and backup in SEPAL workspace)



Report any bugs, it is work in progress

https://github.com/openforis/accuracy-assessment

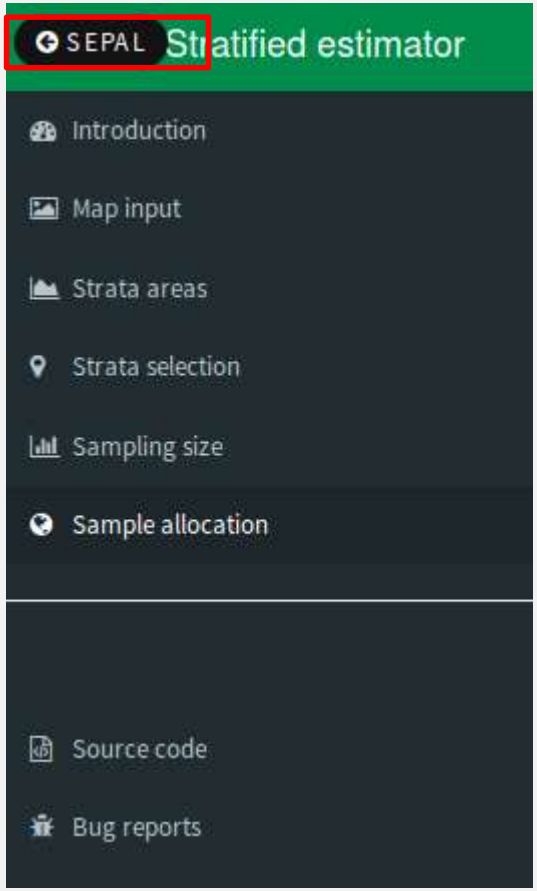


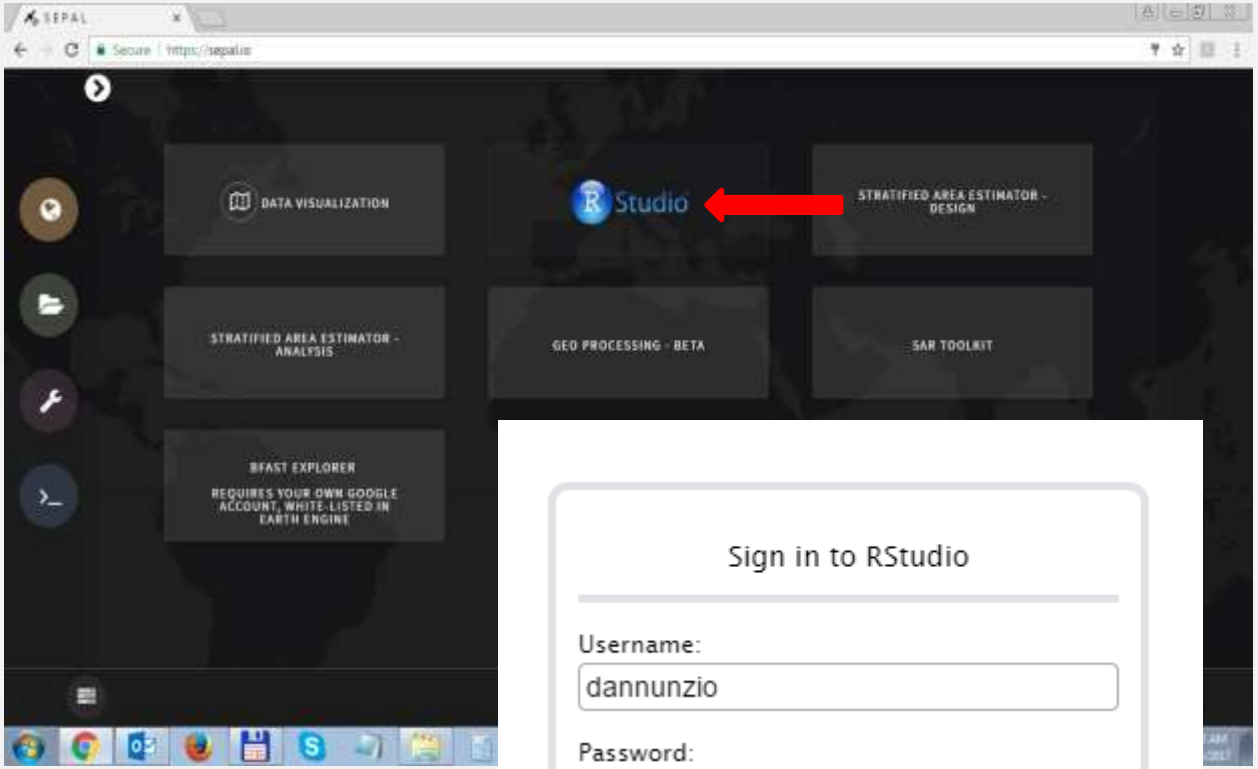


How to upload your own map in SEPAL ?

Select RSTUDIO and sign in

Go back to tools

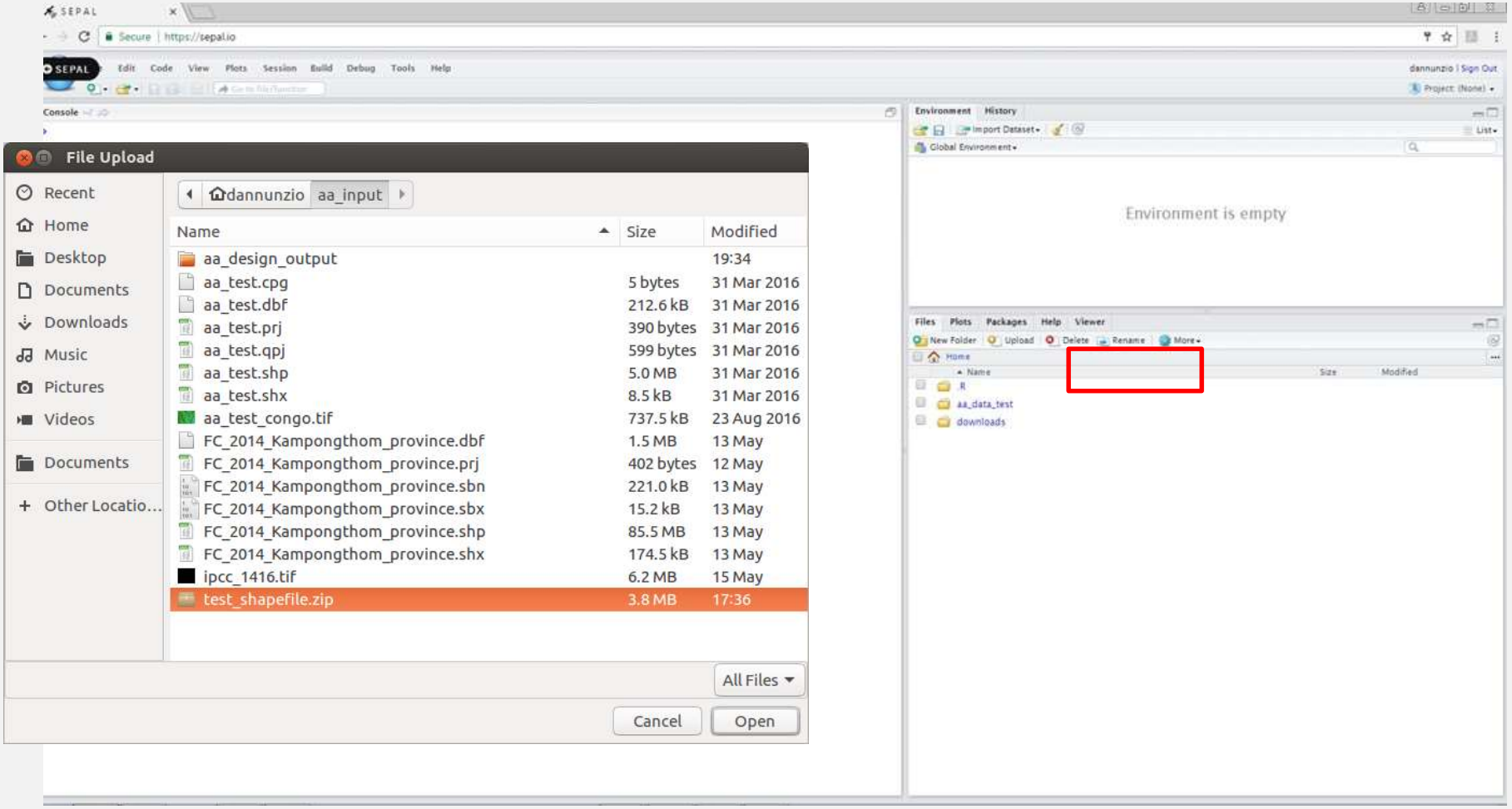




Only lowercase in the username

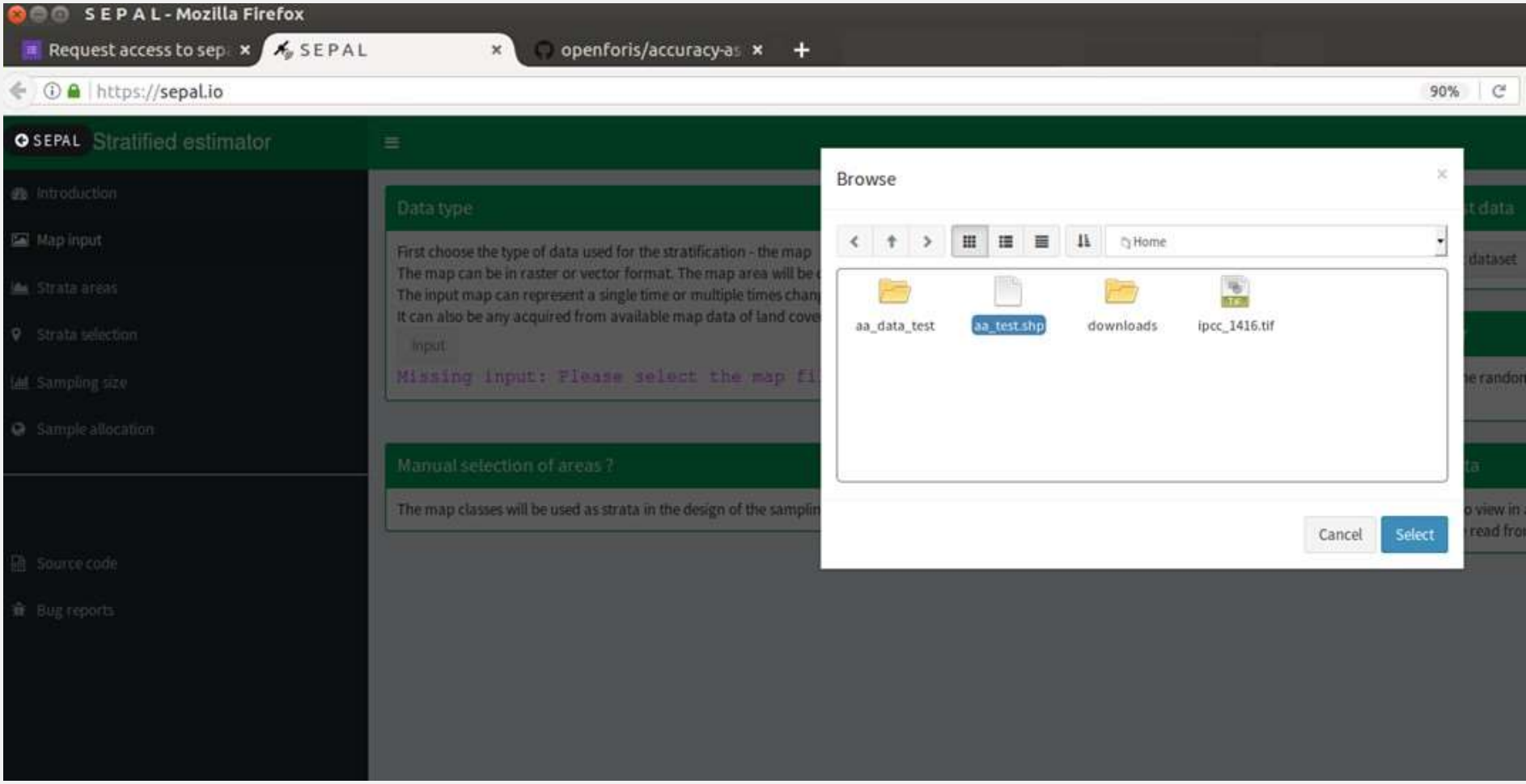
Upload data from your computer

If multiple files (e.g. shapefile), make a zip first



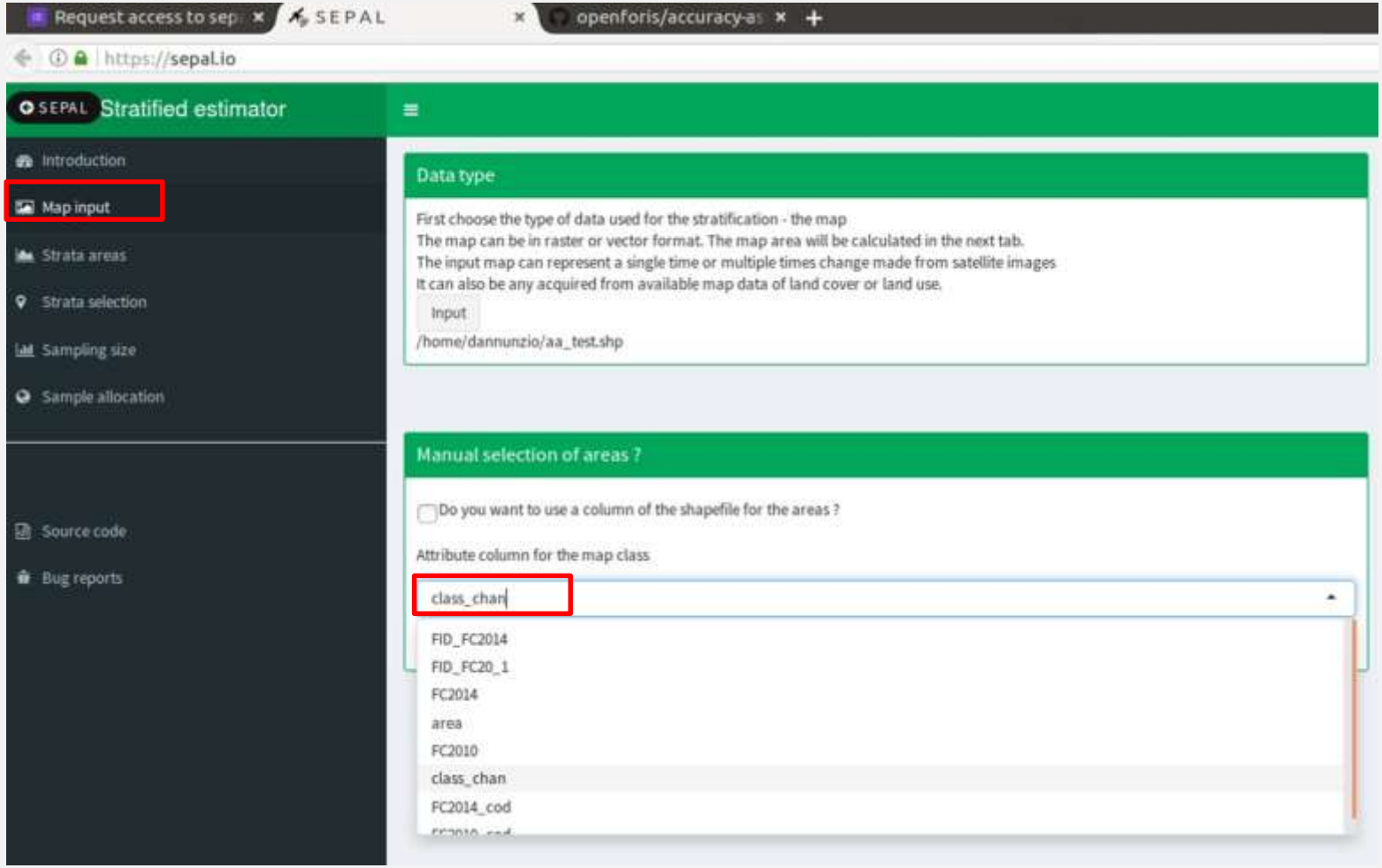
Go back to SAE – Design application

Your own map is available for use inside the application



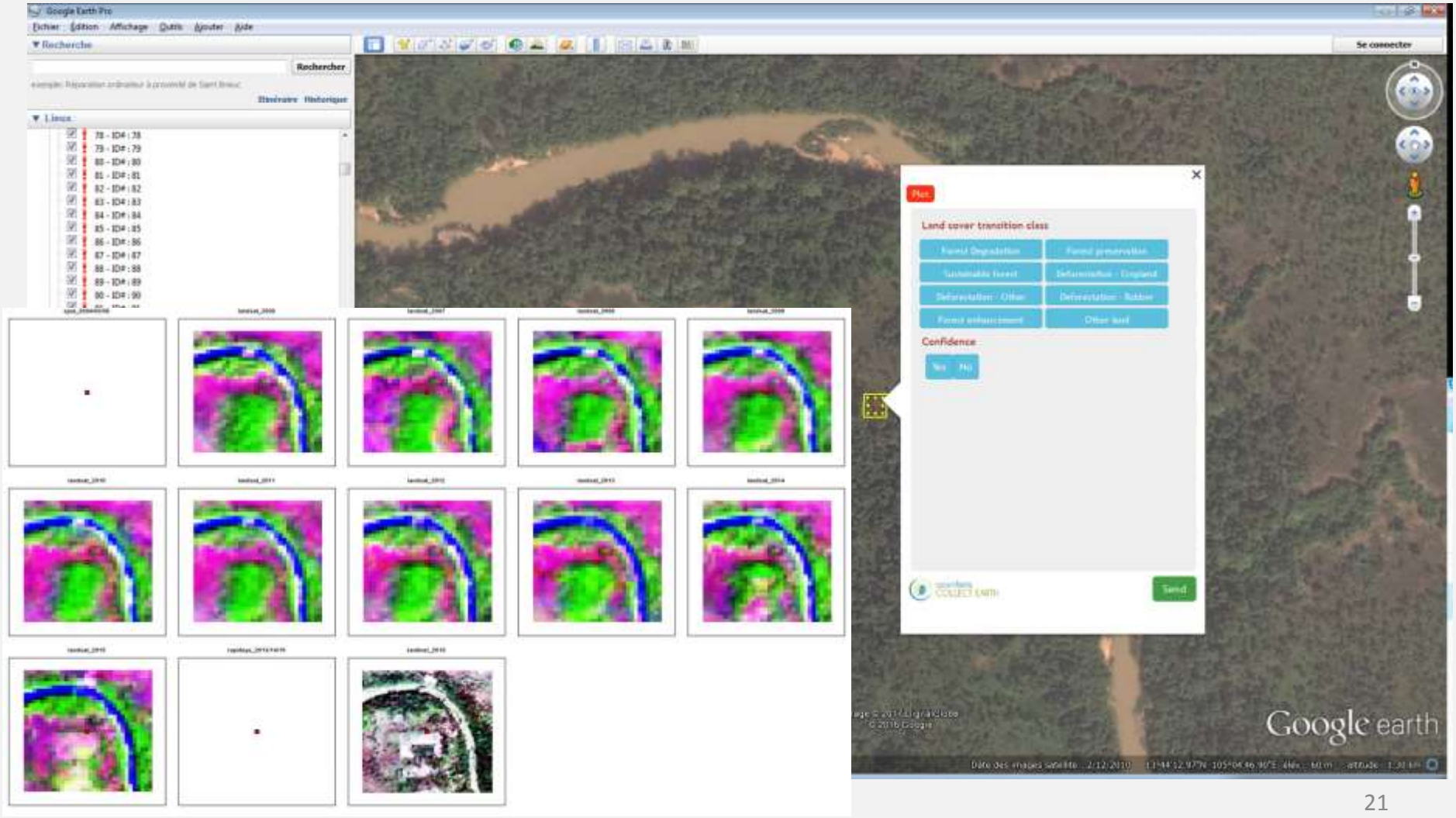
Shapefile as input map

Select the right column for class attribute
Rest of the process is identical

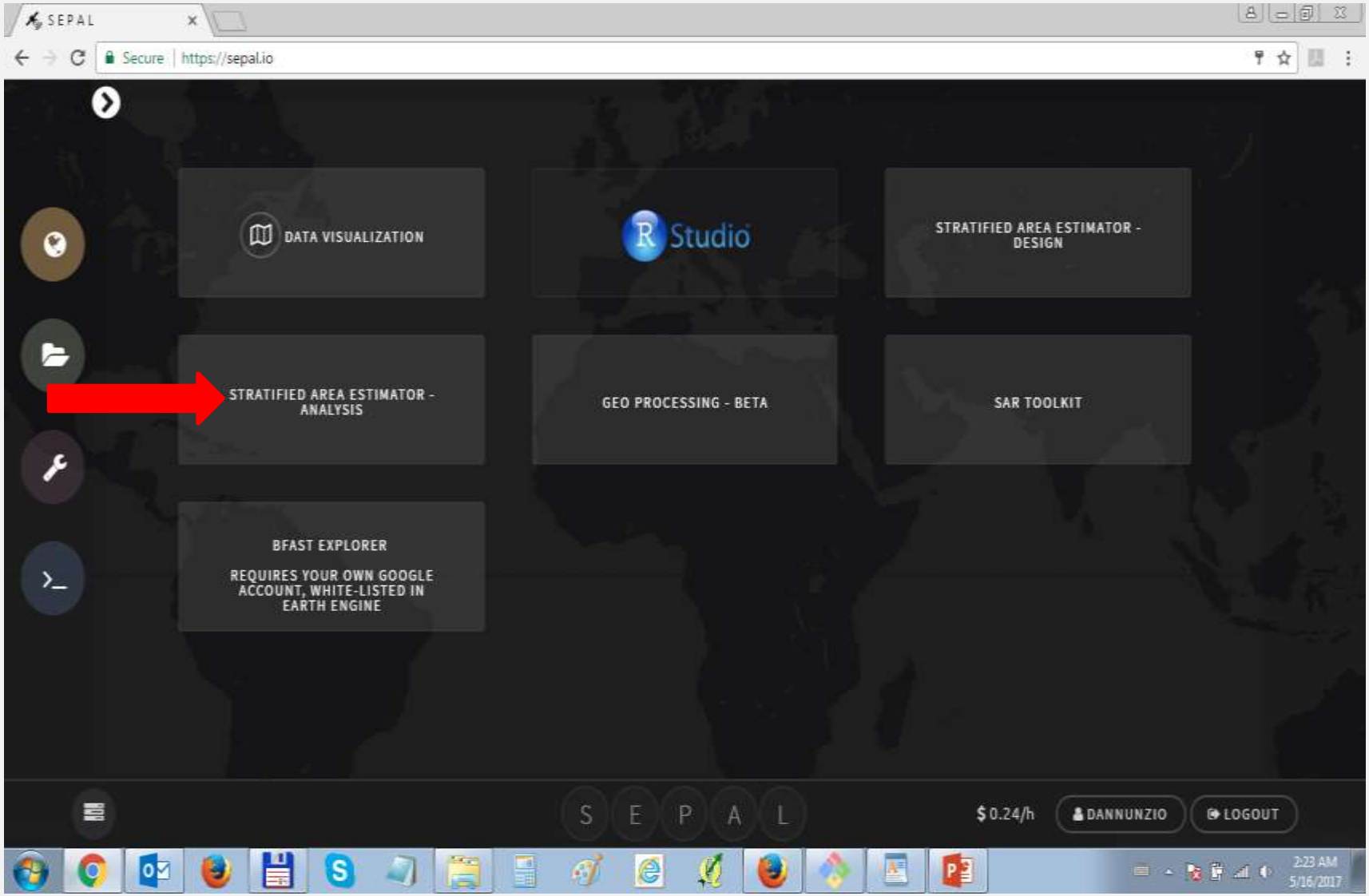


Data collection : soon available in SEPAL

http://www.openforis.org/tools/collect-earth.html

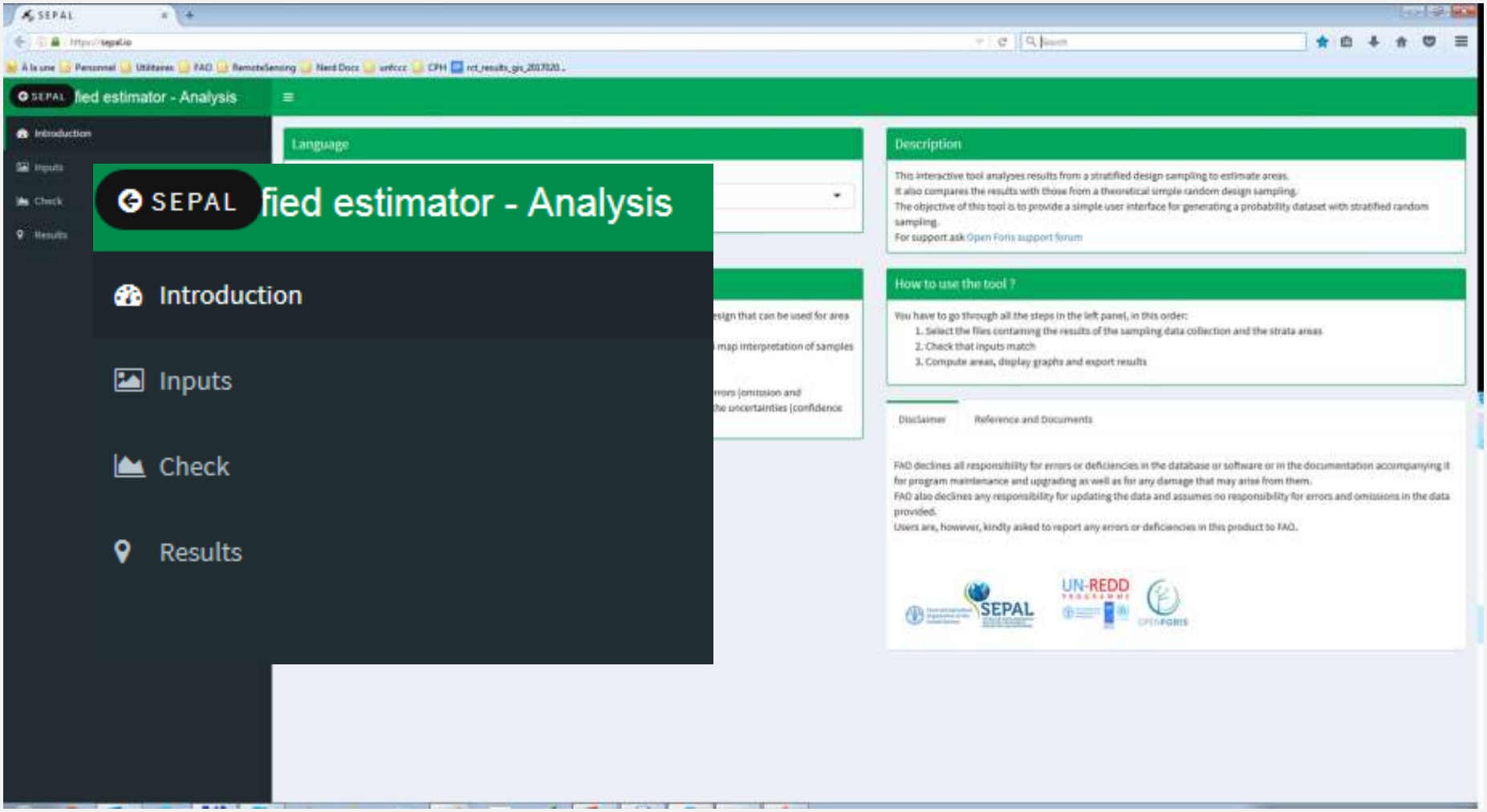


Select SAE – ANALYSIS tool



Similar structure

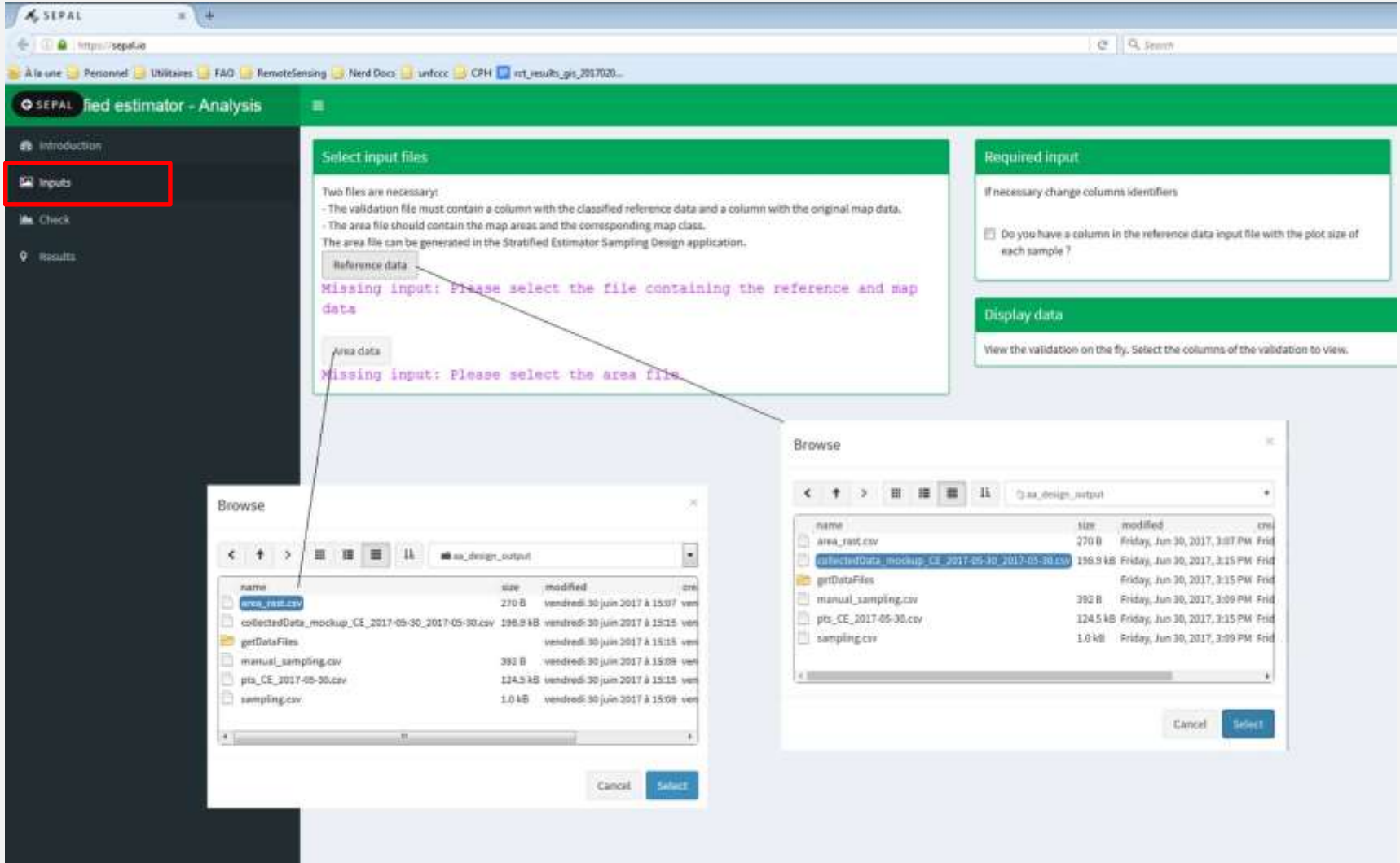
Only 3 steps



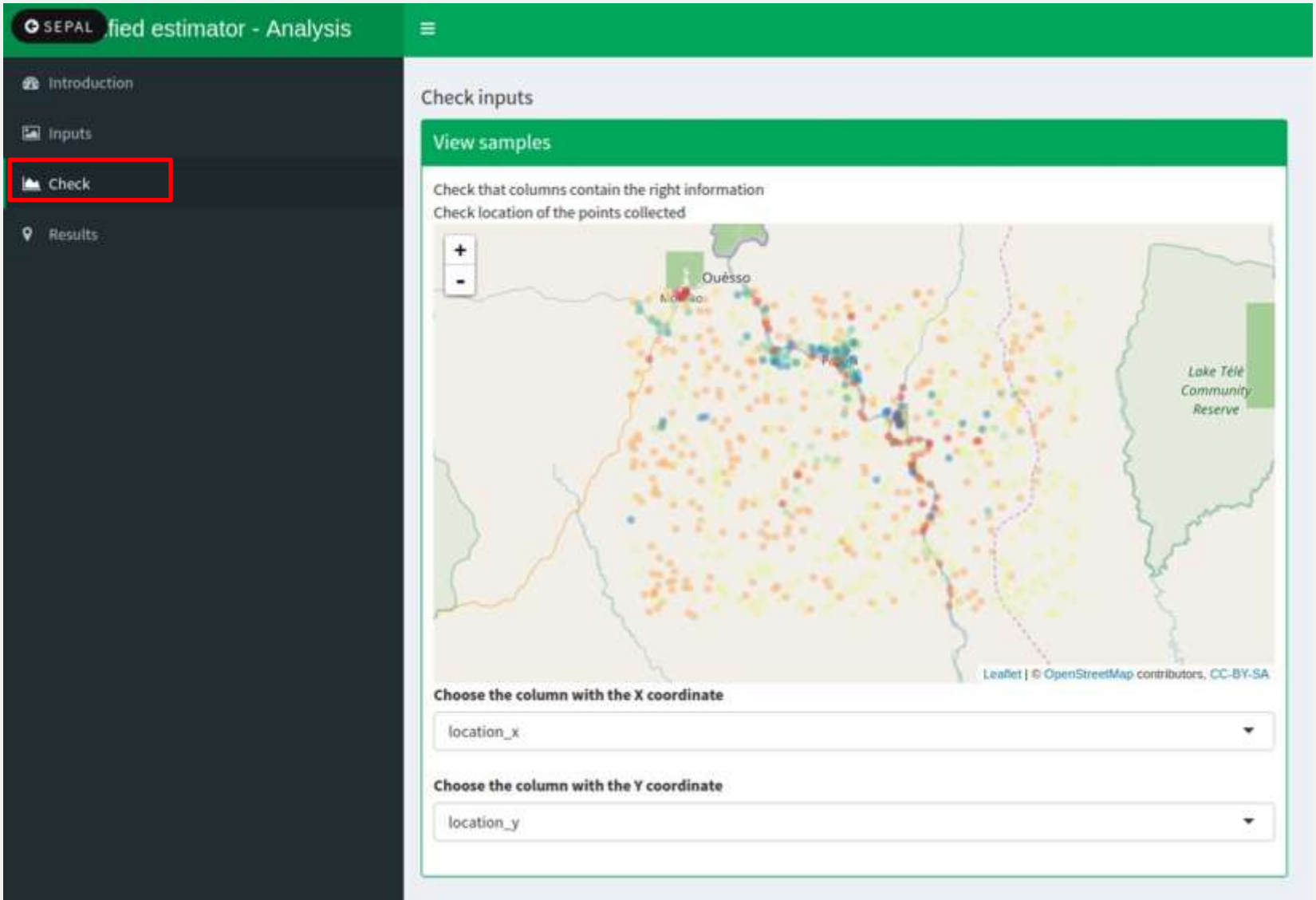
Two input files are needed

Reference vs Map file
Strata area file

Both are located next to the map:
“sae_data_test/sae_design_test_map_congo/”

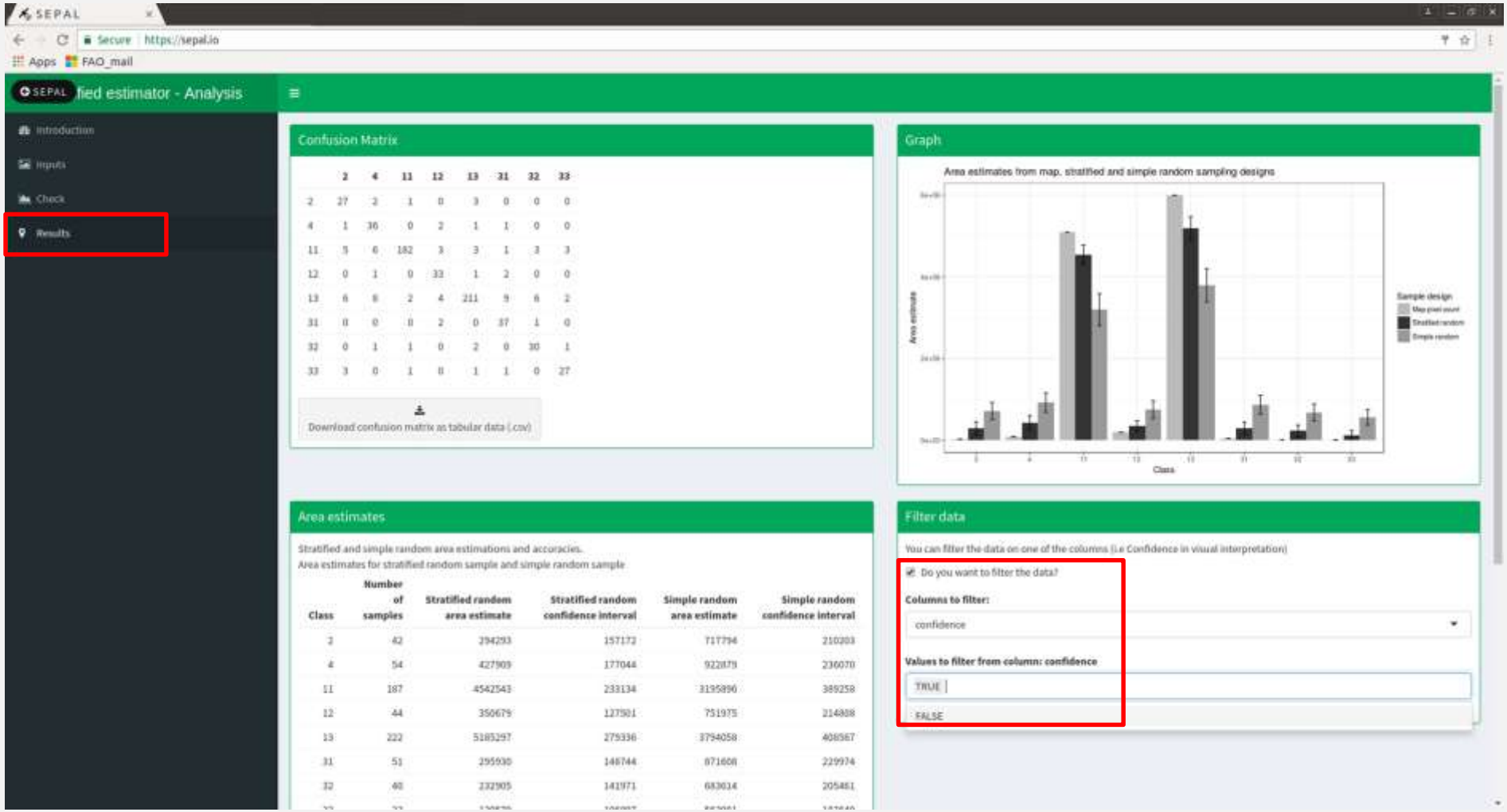


Check point location



Get results and download

You can filter by one field (e.g. CONFIDENCE)



Get results and download

You can filter by one field (e.g. CONFIDENCE)
Download confusion matric and results