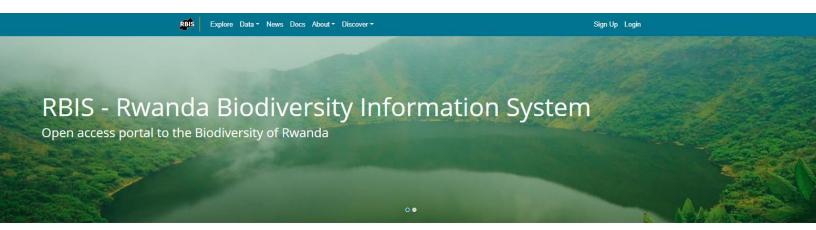


# RWANDA BIODIVERSITY INFORMATION SYSTEM (RBIS)

### A GUIDE TO THE USE OF RBIS FUNCTIONS



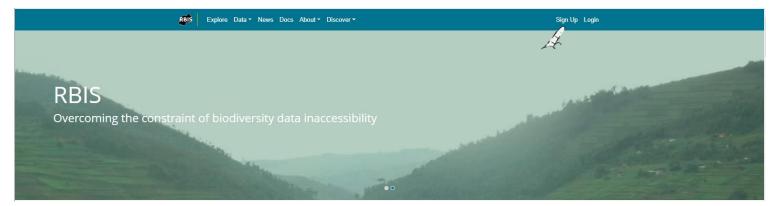
#### SIGNING UP AND LOGGING IN TO THE RBIS

It is very crucial to sign up to the RBIS prior to navigating its functions and having access to download data (CSV files, maps, graphs....) from the system.

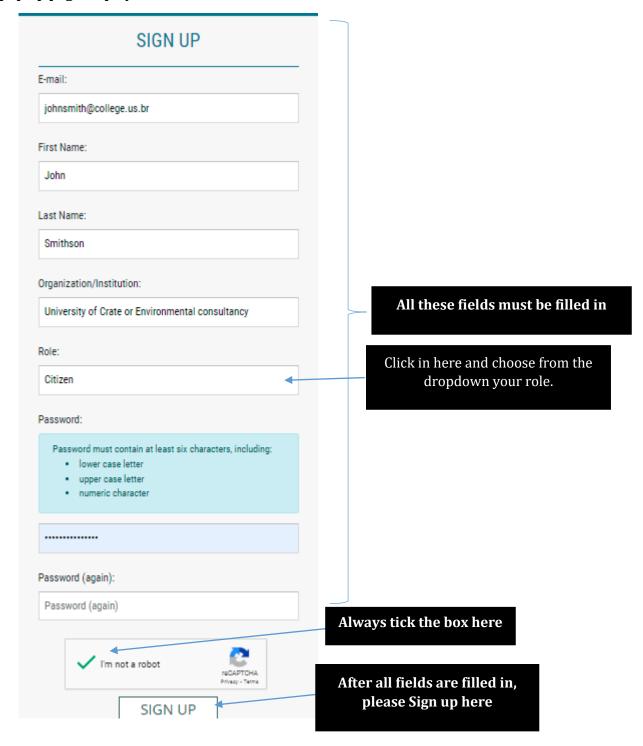
To sign up follow these simple steps:

### **SIGNING UP -** Creating an account:

- **1.** Go to the Top right corner of the landing page https://rbis.ur.ac.rw/
- 2. Click on Sign up (This is a hyperlink and can direct you to the sign up page)



The pop up page displays a number of items to fill in as below:



After sign up to the system, the management team will receive an email that you signed up and will confirm your registration. This will take approximately 24hours to get approval for new sign up.

Once your account is approved, you can log in to the system.

# Log in to the system (This is a hyperlink and can direct you to the log in page).



After correctly filling in your credentials, you will be directed to the landing page.





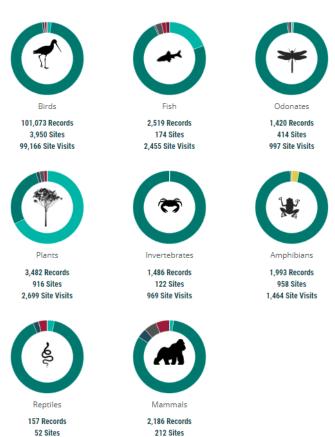


**Navigating the landing page** 

The landing page is the first page after logging in to the system. You can simply note the different modules (Taxa groups) displaying the number of occurrence records per module, site visits and a partition of IUCN categories of species so far ingested in the system. Each module has a unique dashboard for full information about all species occurrences and lists as available in the system.

**Biodiversity Occurrence Records** 

# (steps to dashboards will follow on the next page).



You can also have them here: You can click on each hyperlink (Dashboard)



Birds-Dashboard



Fish - Dashboard



**Odonates- Dashboard** 



Plants- Dashboard



Invertebrates- <u>Dashboard</u>



**Amphibian- Dashboard** 



Reptiles- Dashboard



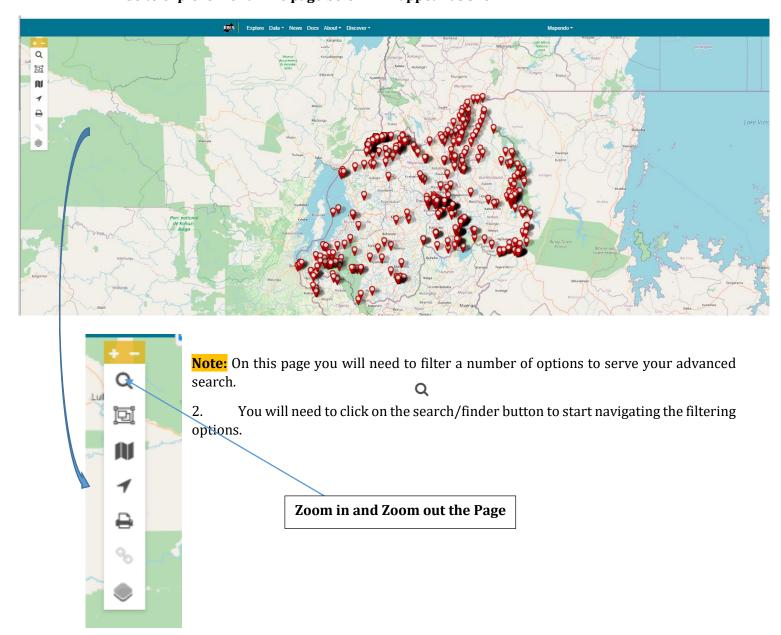
**Mammals- Dashboard** 

**Explore data to get the CSV files from Dashboard results** 

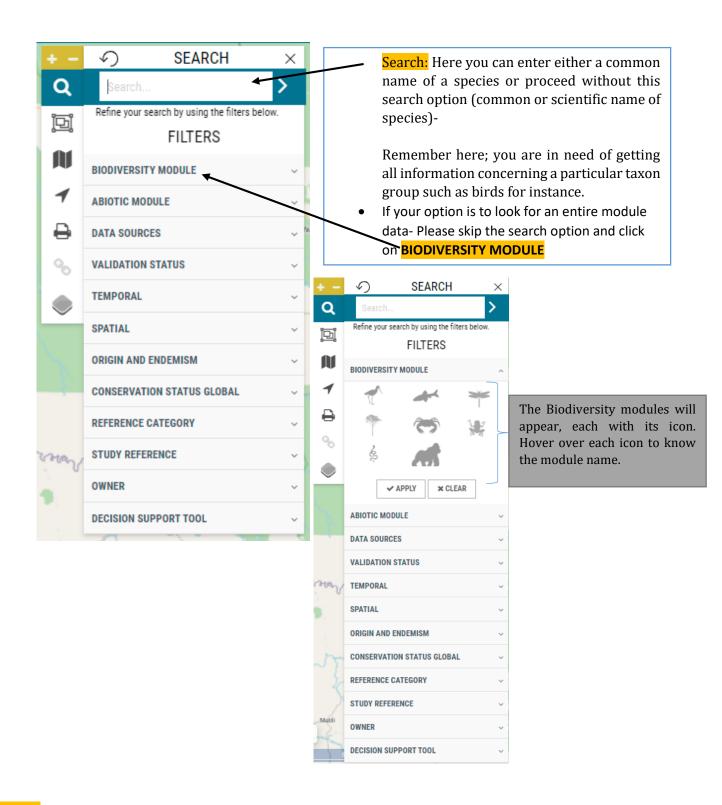
# RBIS - Rwanda Biodiversity Information System

Open access portal to the Biodiversity of Rwanda

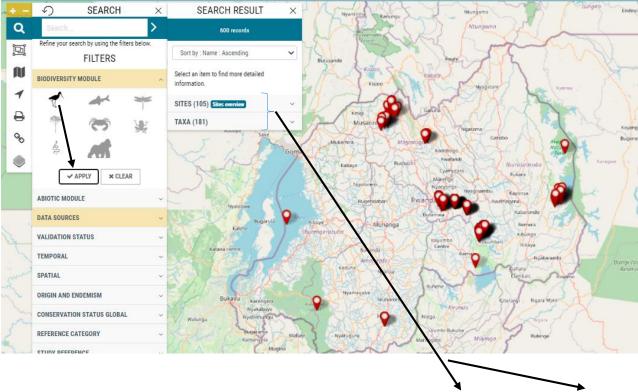
1. Go to explore Menu. The page below will appear as shown.



The search button will pop up this image - it contains a number of filtering options to tick while searching for information.



**Note:** You can always click again on the major filter option to fold it back.



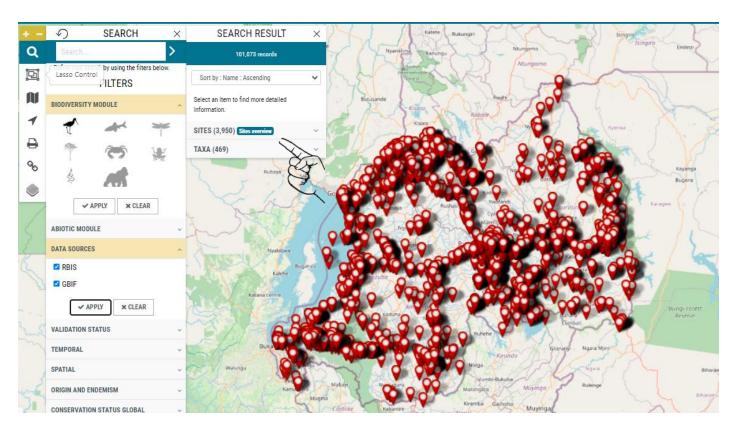
The search results will appear where you will see the number of **SITES** surveyed and **TAXA**.

- 4. Then continue the filter option. Next, click on Abiotic data to add the **water module** (Abiotic data: Physical chemical parameters), and continue to add more filter options such as **Soil nutrients**.

  Note: The above screenshot can change anytime the system has been upgraded such as after adding new features in the functionality.
- 5. Continue to add more filter options. Go to **DATA SOURCES**, **Tick both GBIF and RBIS then apply**. **GBIF are data harvested from the Global Biodiversity Information Facility. RBIS data are the ones added by the Rwanda Biodiversity Information system team**.



As you can see from the image below, the number of records, sites and taxa has increased after applying the **DATA SOURCES.** 



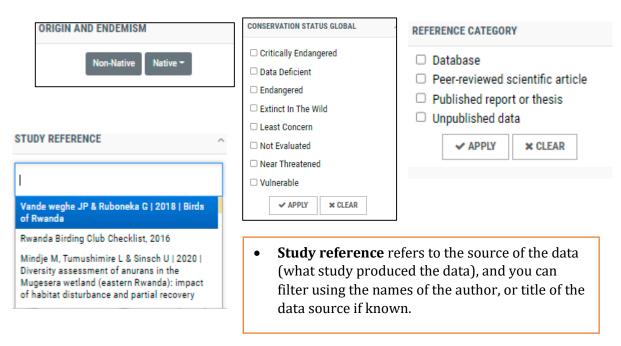
TEMPORAL YEAR 6. Then continue to filter the search to the Temporal filter option. 1758 2022 Here you can tick the month or pull or push the year button, MONTH Then Apply. □.lan □Feb □Mar □May □Jun  $\Box Jul$ □Sep □Oct □Nov □Dec ✓ APPLY × CLEAR

Then add spatial filter. Here you can click on any of the spatial filters; once you click on one filter such as Rwanda Catchments, all the catchments will open and you will choose one for your search intent.

7. Here also, you can click on the **Plus button** to add the Catchment level per your need.



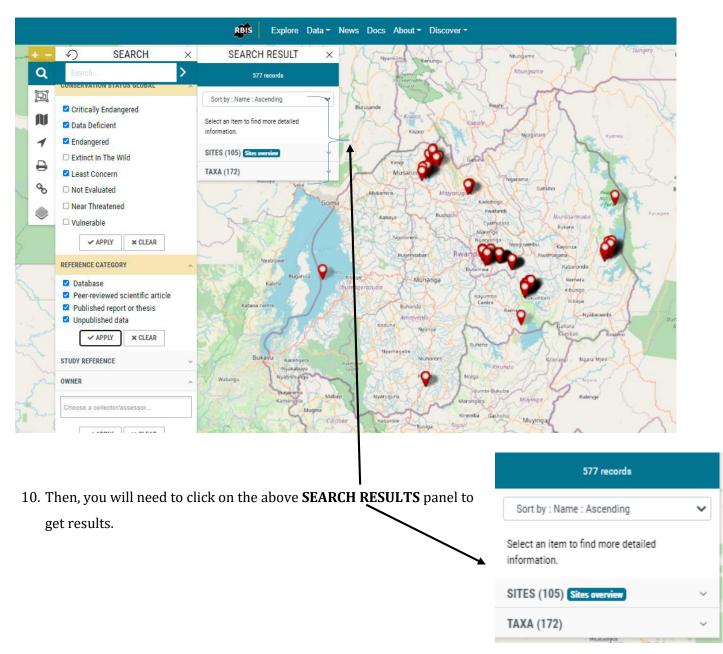
- 8. Keep filtering in the spatial filters from **Protected areas** to **Land Use and/or Land cover**. Always remember to click in the options (Protected areas, Geology, Soil, etc.) to get other embedded filters (advanced search). Do the same as in Point 7 if there is a Plus button to open more features.
- 9. Keep filtering for the Origin and Endemism, **Global Conservation status**, **Reference category**, **study reference**, **etc**. Here, you can tick any choice depending on the objective of your search.



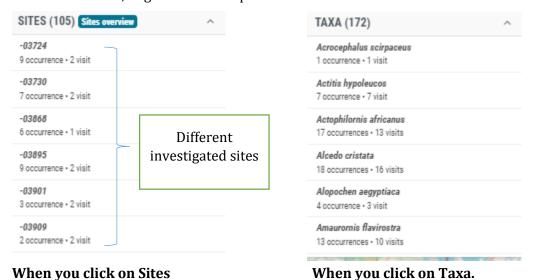
# **Exploring the Dashboards**

After filtering all the options as per the objective of your search in RBIS, now the next step is to get the results of your search.

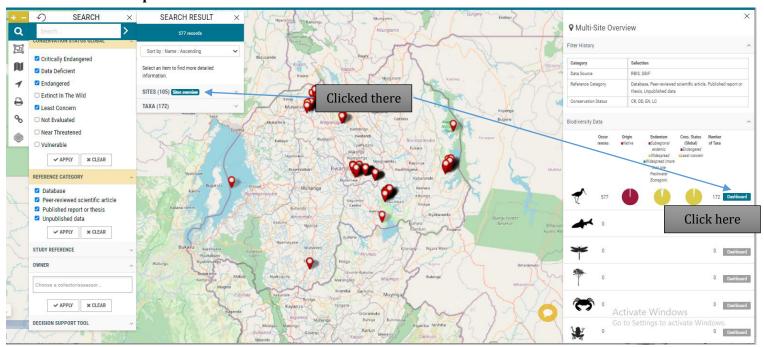
I.e., you have stopped your filtering options, now you need the results from advanced search. The Table below is the page you will have from your search



11. Click on **SITES**, or **Sites overview**. **SITES** (105) **Sites overview** The former will give you data by sites but the latter will give an overview of all sites investigated based on your search. You can also click on Taxa, to get individual species data.



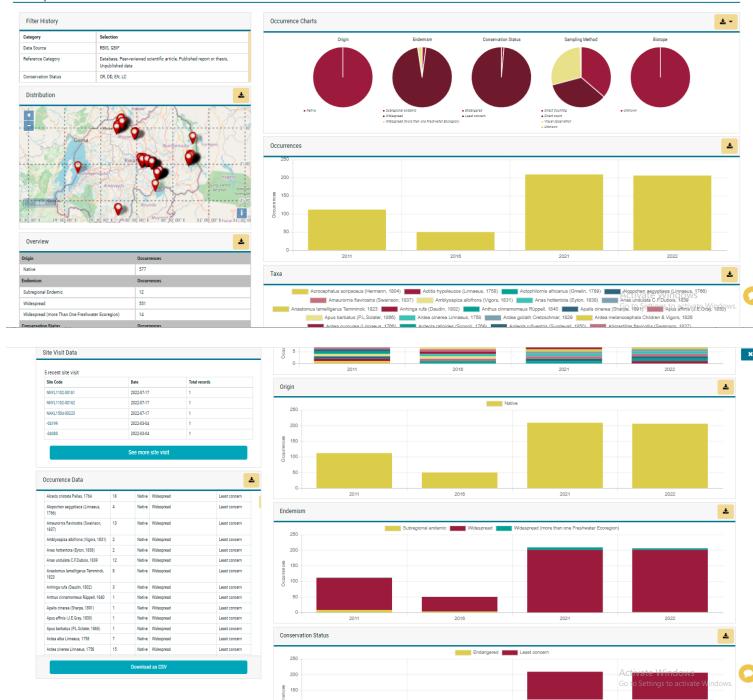
12. Now, let us now click on Sites overview Site overview to get a general information from the complete dashboard.

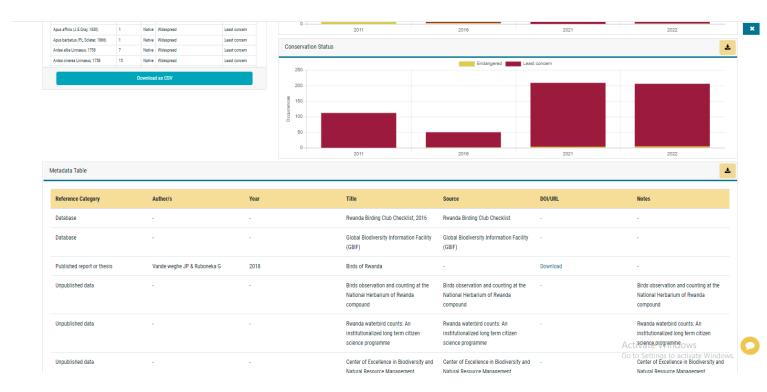


You see that the Dashboard for the Bird module also depending on your search filtering option is active.

# 13. Click on Dashboard. IMAGES OF DASHBOARDS DISPLAY

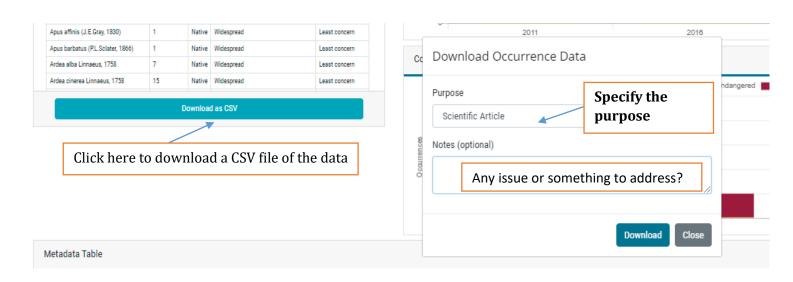
### Multiple Sites Dashboard - Birds





# The Dashboards here show what information is displayed.

You can download the maps, graphs or CSV files; remember for CSV file, you must sign up and log in first.



**If you request to download a CSV file, you may be sent an email request to confirm some terms and conditions for data use for the data user agreement.** Our team will receive an email to approve your request upon your time taken to sign the data user agreement as will be guided by the system.

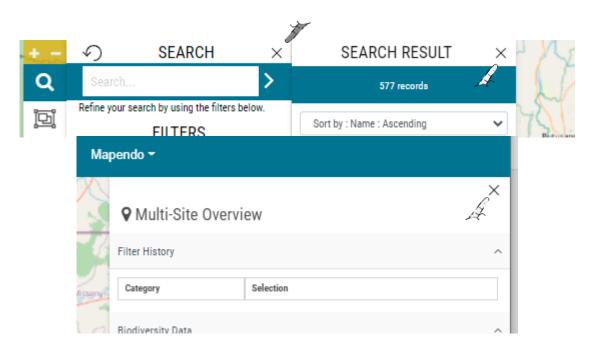
# B. The following steps guide you towards searching data on a particular species.

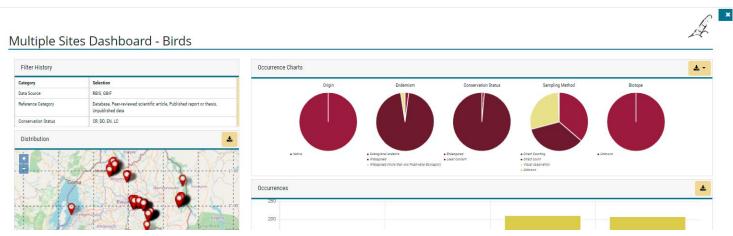
The process of advanced search (filtering option) for a particular species is not far different from the search of particular module as in the guide above.

**1.** Click here to refresh the search from the top left corner.

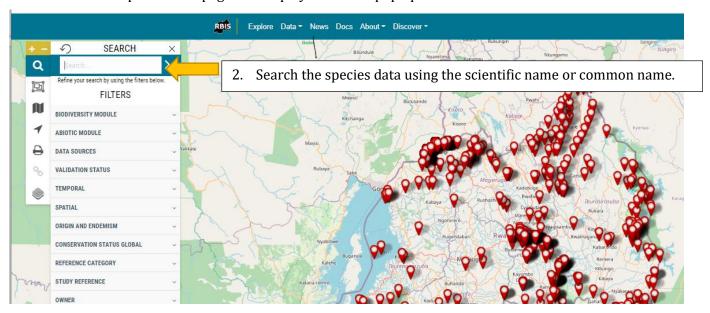


2. Close all the previous searches. For each search there is a Sign  $\boldsymbol{X}$ 

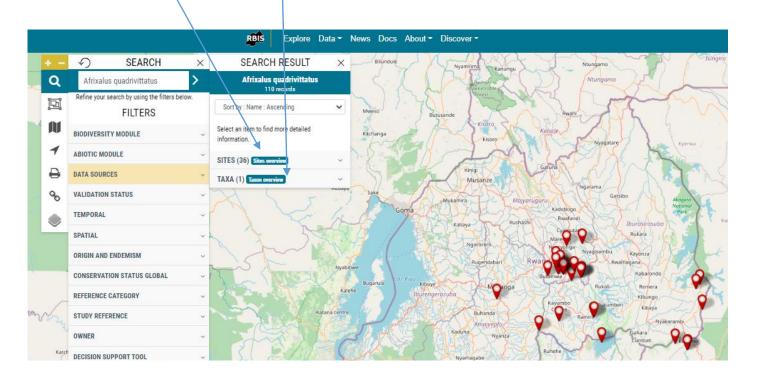




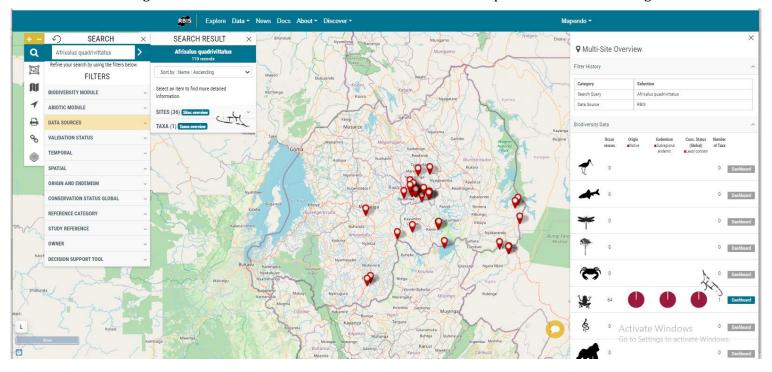
**3.** Click Explore – The page will display the below pop up.



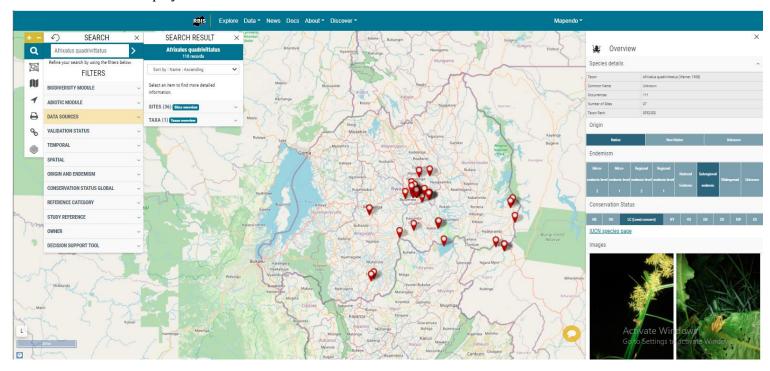
2. The species data will display as below. Then you will navigate its information using the **site** overview or Taxon overview

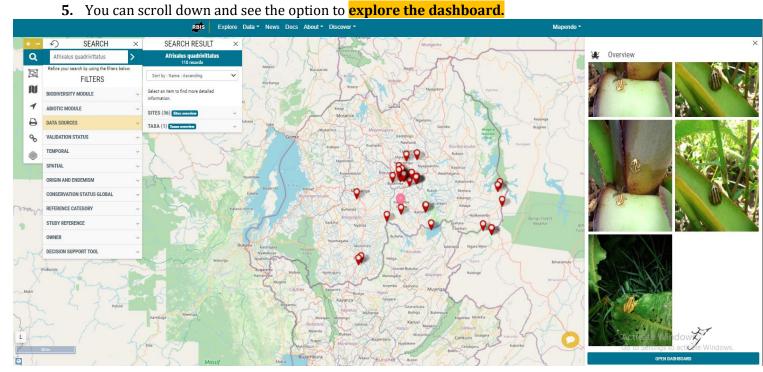


**3. Sites overview.** Click on **this feature**, and the information pop up will display the option to navigate the activate dashboard and then do as indicated on points 12 and 13 of this guide.

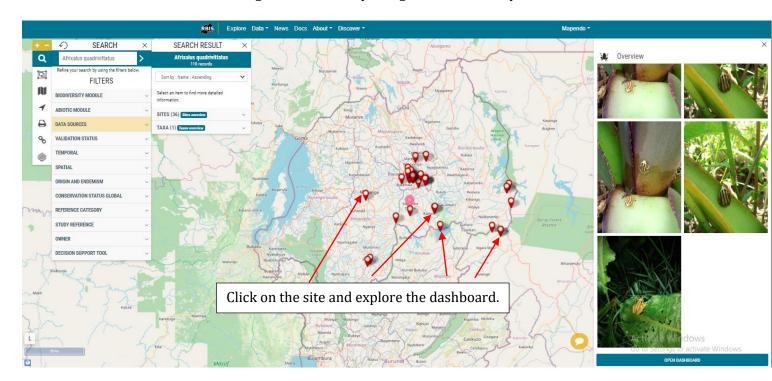


**4.** Taxon overview. Here you will navigate the species' data where images or calls/songs could also be displayed in addition to other data.



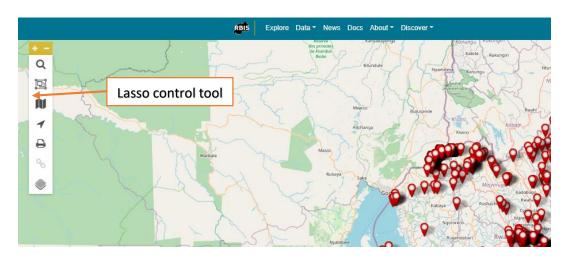


**6.** You can also click on a single site in the map and get a detail for a specific site.

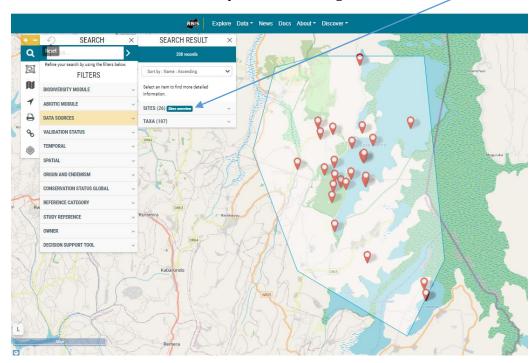


# **Other options**

1. Lasso control tool - to explore a particular site using a polygon.



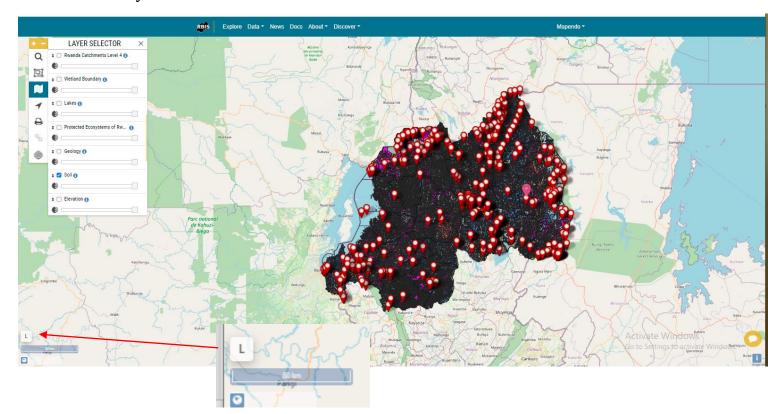
- 1. Go to explore again
- 2. Click on Lasso control
- 3. Draw a polygon at the Site you want to explore.
- 4. Update search Then follow all steps of exploring the dashboard from the **sites overview** as indicated from step 12 to 13 of this guide.



Always refresh to have a new search - click on the RBIS icon

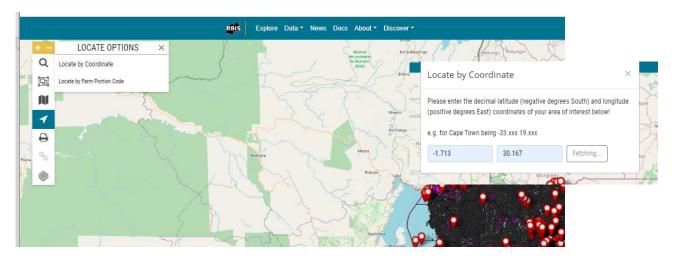


### 2. Layer selector



- -What you can do here is play around with the different layers, drag and drop them up or below another to have a better image visualization.
- the  $\boldsymbol{L}$  on the left bottom corner is the Legend.

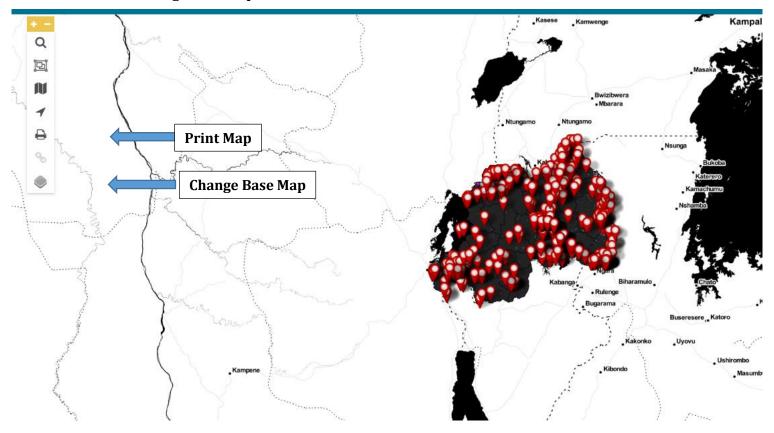
### 3. Locate option



- You can locate using GPS coordinates Please enter the decimal latitude (negative degrees South) and longitude (positive degrees East). Wait until site overview displayed. Then do step 12-13.
- You can also Locate by Farm portion code if you know the farm code.

# 4. Print Map

# 5. Change Base Map



# You can keep navigating the System's Menu button to discover more about the system



Note- The Menu can change as the system will be upgraded- i.e once new featured are added.

# Should you have any question?

Please contact us at

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