IPIF Fire Site User guide

Contents

Landing Page

HWMO FIRE DATA

This is where users can generate and download new map views.

How to generate a map

Select Year allows a user to select a specific year(s) to filter the map data for. This column is generated based on the information in the selected dataset.

Select Month allows a user to select a single or multiple months to filter the map data. This column is generated based on the information in the selected dataset.

Select Islands allows a user to select what Islands they want to filter the data for. This row is generated based on the selected dataset.

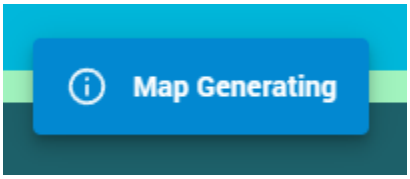
Dataset allows the user to select a data set to use. This will affect what is shown in the select year, month and islands sections.

Generate Map Uses the selected year(s) month(s) and Island(s) to generate a new filtered map. Larger selections lead to longer load times.

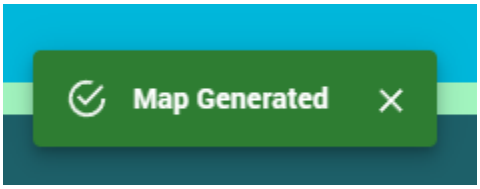
*When a selection is left completely empty, the system treats it as if every option has been chosen.

As an example, if the current map is generated it will be of Tinian, Saipan, Rota, Guam, and Yap from the years 2015-2022 including all months.

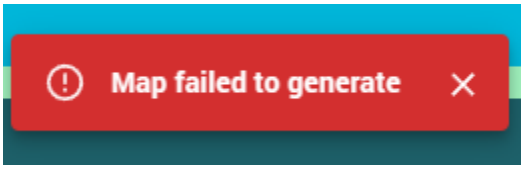
Generate Map Messages



After clicking generate map a small "Map Generating" pop up will appear in the bottom left of the screen. **This can take up to one or two minutes at most depending on the number of parameters chosen.**



When the map successfully generates.



This message means that the site failed to return a valid map.

This can result from there being **no recorded fires in that selection**.

It can also occur from a server-side issue. It is recommended to reload the page and try again.

If the map continually fails to generate it is recommended to double check that the selected section contains know fires. To test if the server is down leave every selection blank and generate a map. This might take a while but it should result in a map being returned. If that fails it is most likely a server issue.

Downloading a Map

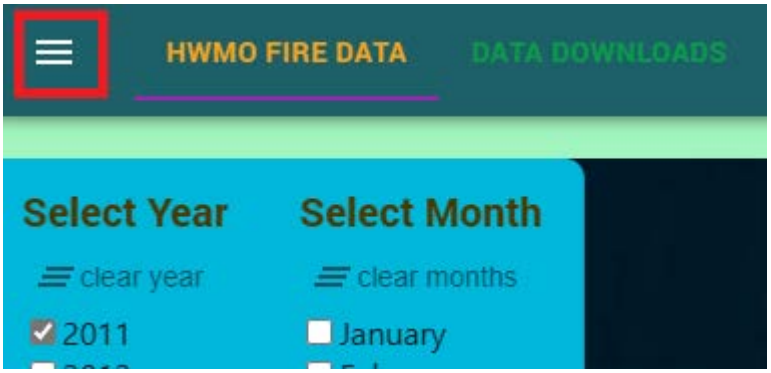
There are two options HTML and SHP

HTML will download a HTML version of the map that has been generated. This is useful if a user wants to save a specific map view locally for quick viewing.

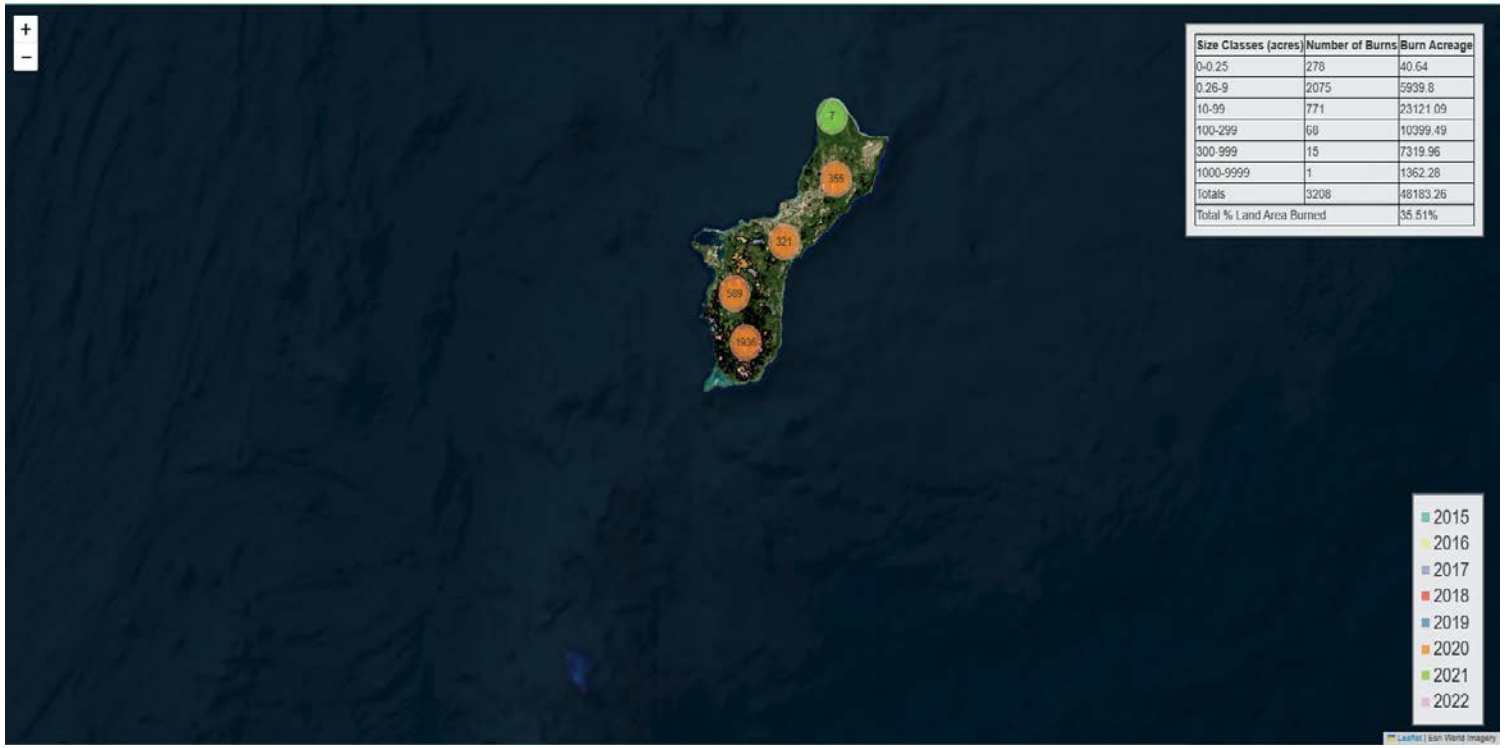
SHP will create a zip file called HWMO_Map_Data.zip that contains the current map data in the ESRI shape file format

Reading the Map

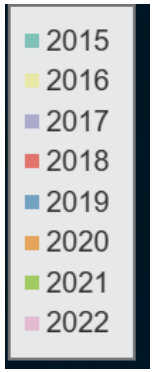
The side bar can be toggled on and off by clicking the collapse button in the top left



Map Key



The map contains a summary table (top right) and a map key (bottom right).



The **map key** color palette is currently set to Palettable qualitative set3_12 and can support up to 12 colors. It is supposed to be color blind friendly.

https://jiffyclub.github.io/palettable/colorbrewer/qualitative/#set3_12

Summary Table

The **summary table** classifies fires by size and totals the number and size of the burns.

The total % Land Area Burned is calculated using the following values I found online.

If multiple islands are selected it will combine the total land area

Islands	Estimated Size in acres
Tinian	25010
Saipan	29400
Rota	21036.8
Guam	135700
Palau	113300
Yap	24710

Size Classes (acres)	Number of Burns	Burn Acreage
0-0.25	278	40.64
0.26-9	2075	5939.8
10-99	771	23121.09
100-299	68	10399.49
300-999	15	7319.96
1000-9999	1	1362.28
Totals	3208	48183.26
Total % Land Area Burned		35.51%

FIGURE 1 GUAM SUMMARY

Size Classes (acres)	Number of Burns	Burn Acreage
0-0.25	11	0.2
0.26-9	55	187.69
10-99	9	274.88
100-299	7	1179.5
Totals	82	1642.27
Total % Land Area Burned		5.59%

FIGURE 2 SAIPAN SUMMARY

Size Classes (acres)	Number of Burns	Burn Acreage
0-0.25	289	40.84
0.26-9	2130	6127.49
10-99	780	23395.97
100-299	75	11578.99
300-999	15	7319.96
1000-9999	1	1362.28
Totals	3290	49825.53
Total % Land Area Burned		30.18%

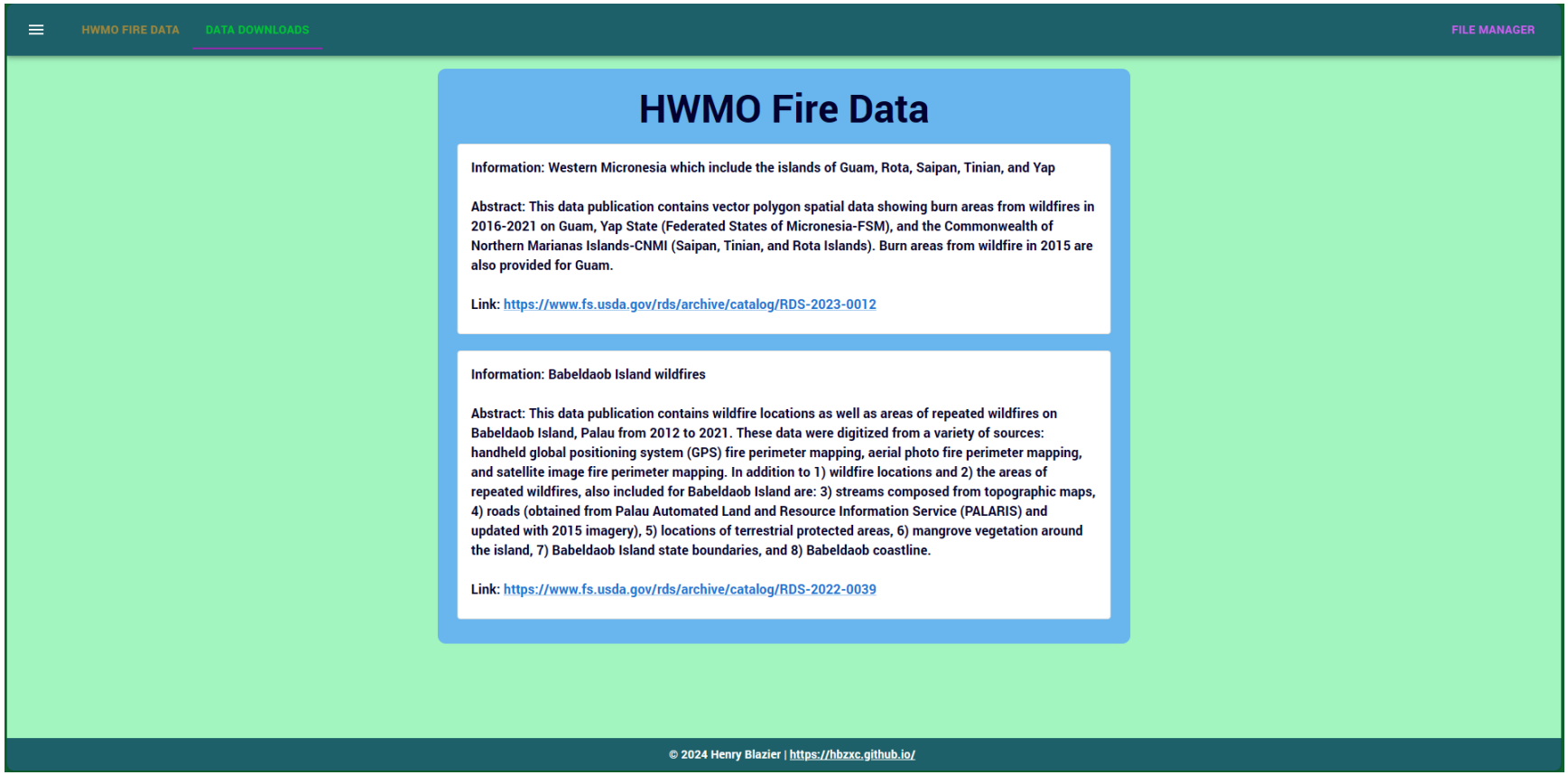
FIGURE 3 COMBINED GUAM SAIPAN SUMMARY

Guam, Saipan Combined Land Area: 165100

Total Combined Burn Acreage: 49825.53

$$\frac{49825.53}{165100} = 0.3017$$

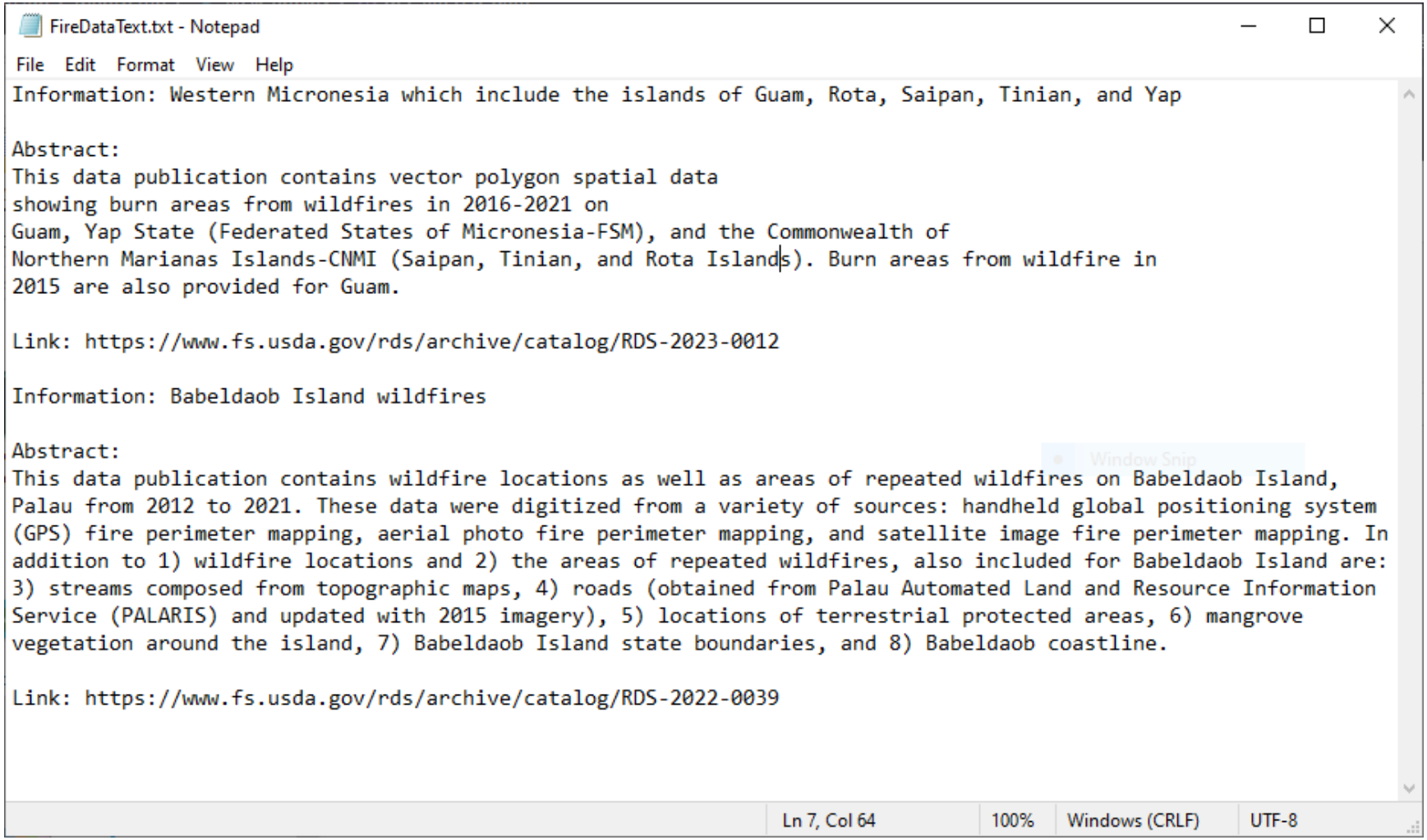
DATA DOWNLOADS



This page provides links to published data.

Editing Data Downloads Entries

All the text boxes are generated from FireData.txt file.

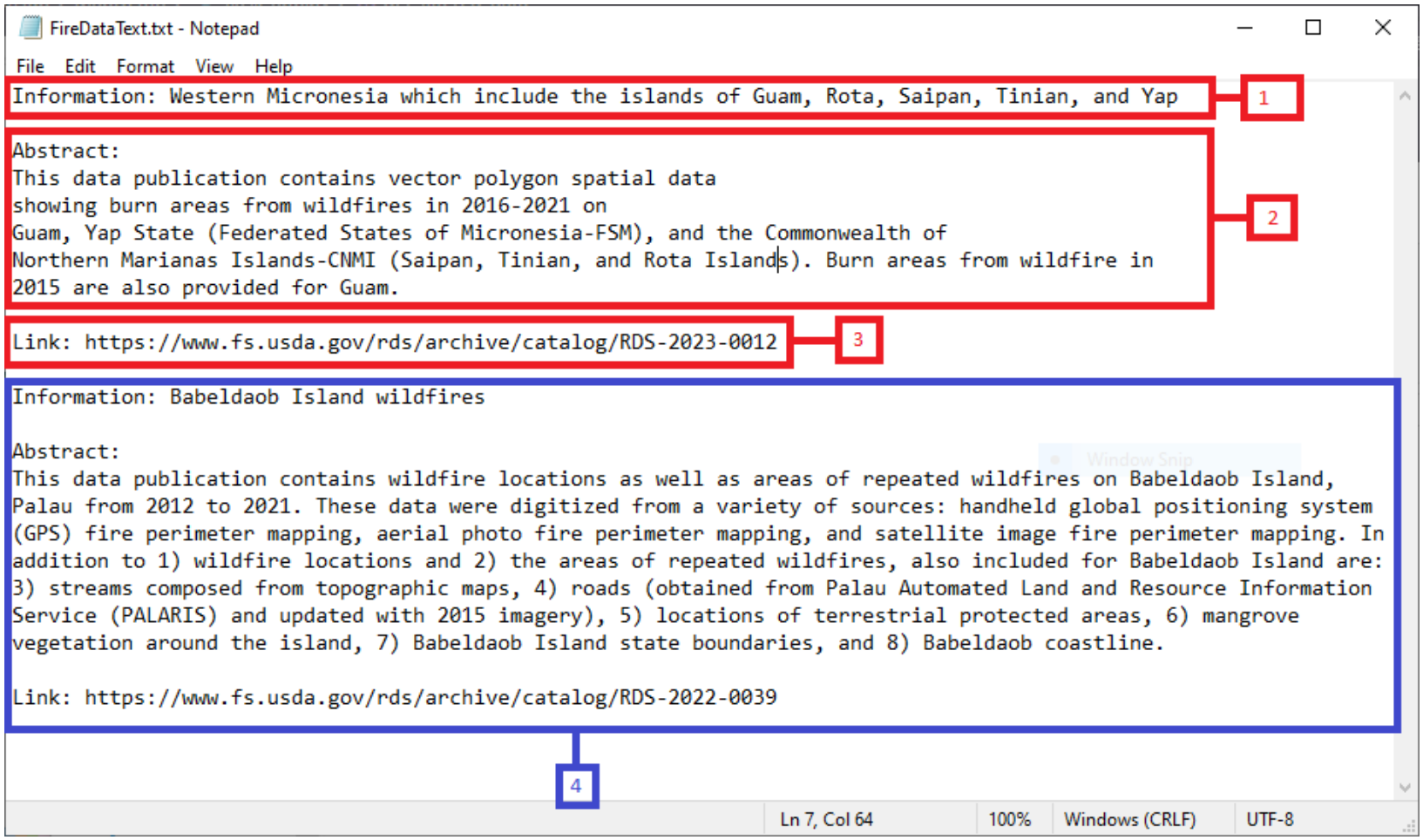


The page parses the text file by looking for three headers **Information:**, **Abstract:** and **Link:**

Anything on the same line as **Information:** will be displayed in box 1.

All text after **Abstract:** and before **Link:** will be displayed in box 2.

Anything on the same line as **Link:** will be displayed in box 3 as a clickable link.



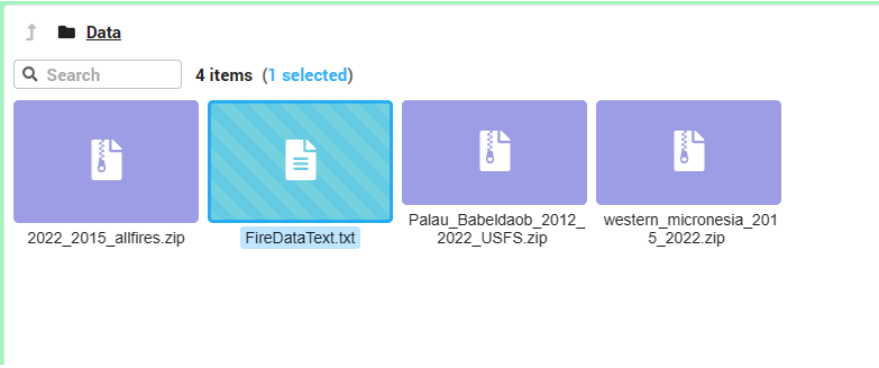
To add additional sections, copy the format as above in box 4.

The block below can be used as a template just make sure to include a newline between sections.

Information: Abstract: Link:

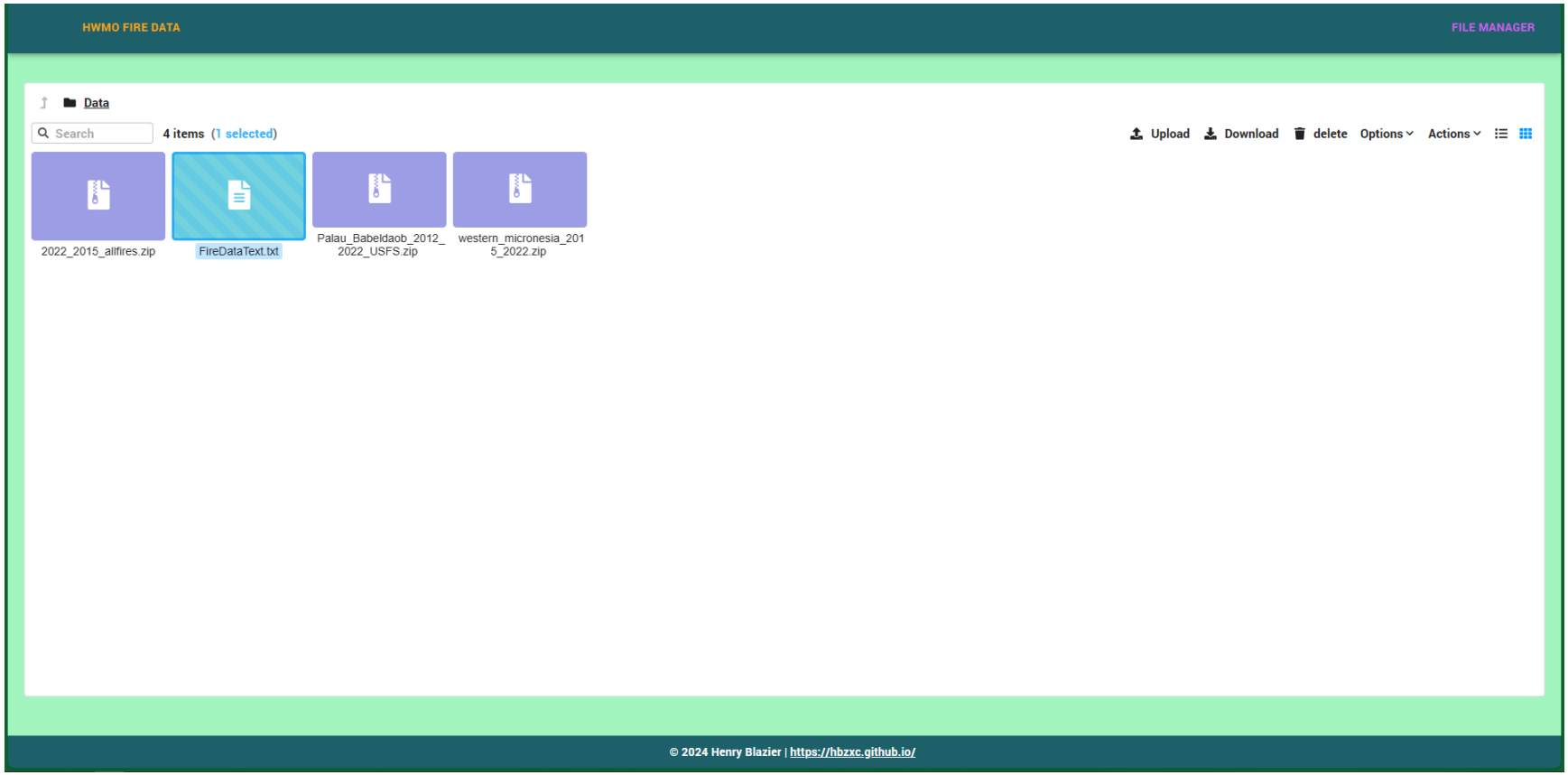
Keep in mind the Abstract line is different. Text needs to be on the line after **Abstract:** not on the same line as in **Information:** and **Link:**

To get a current copy of the FireData.txt it can be downloaded from the FILE MANAGER



To update it delete the FireData.txt in the file manager and upload the new edited version. The file name needs to be FireData.txt

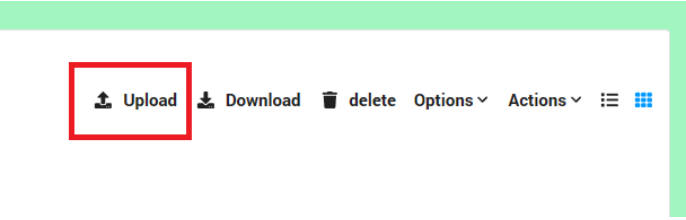
FILE MANAGER



Users can view, upload, delete datasets along with replacing the FireData.txt to modify the Data Downloads page

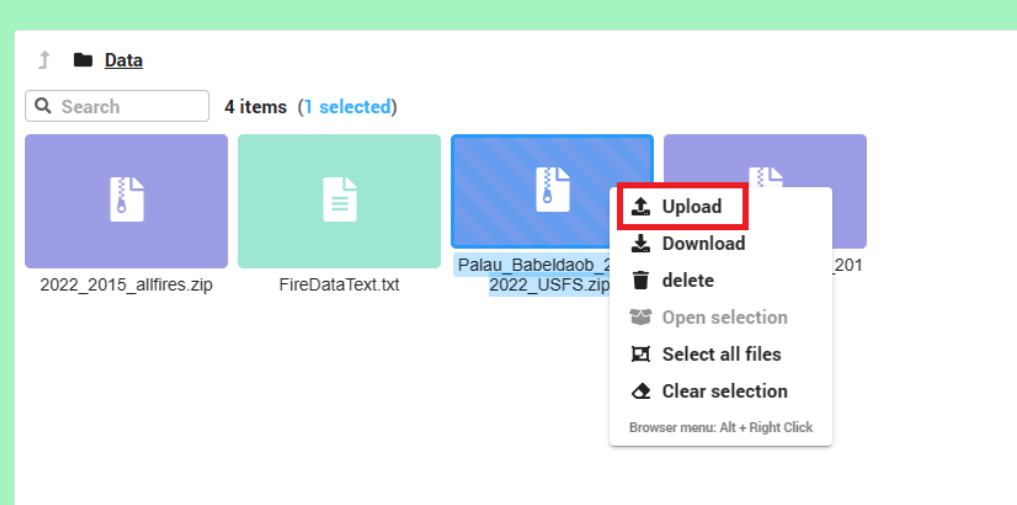
Uploading Files

Datasets

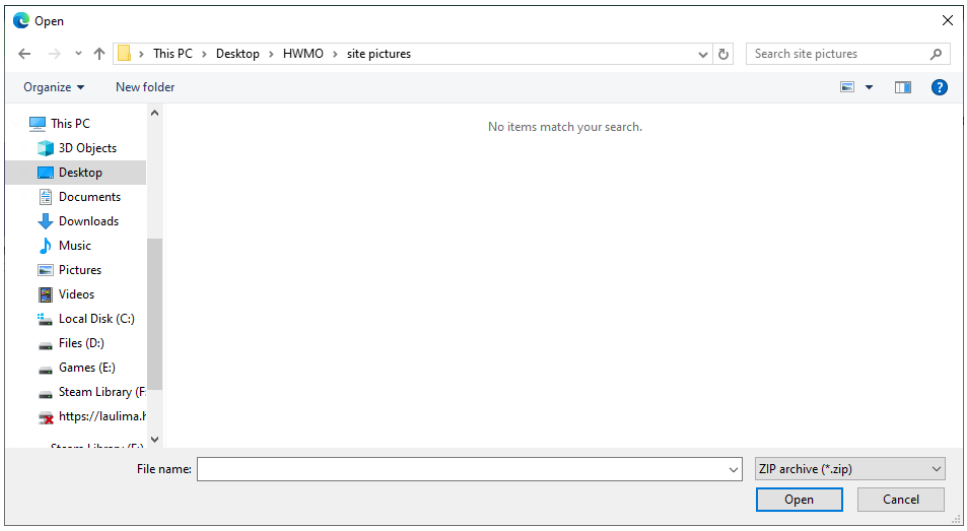


To upload a file, click the upload button or right-click on a file and select it from the popup menu.

Both buttons work the same way.

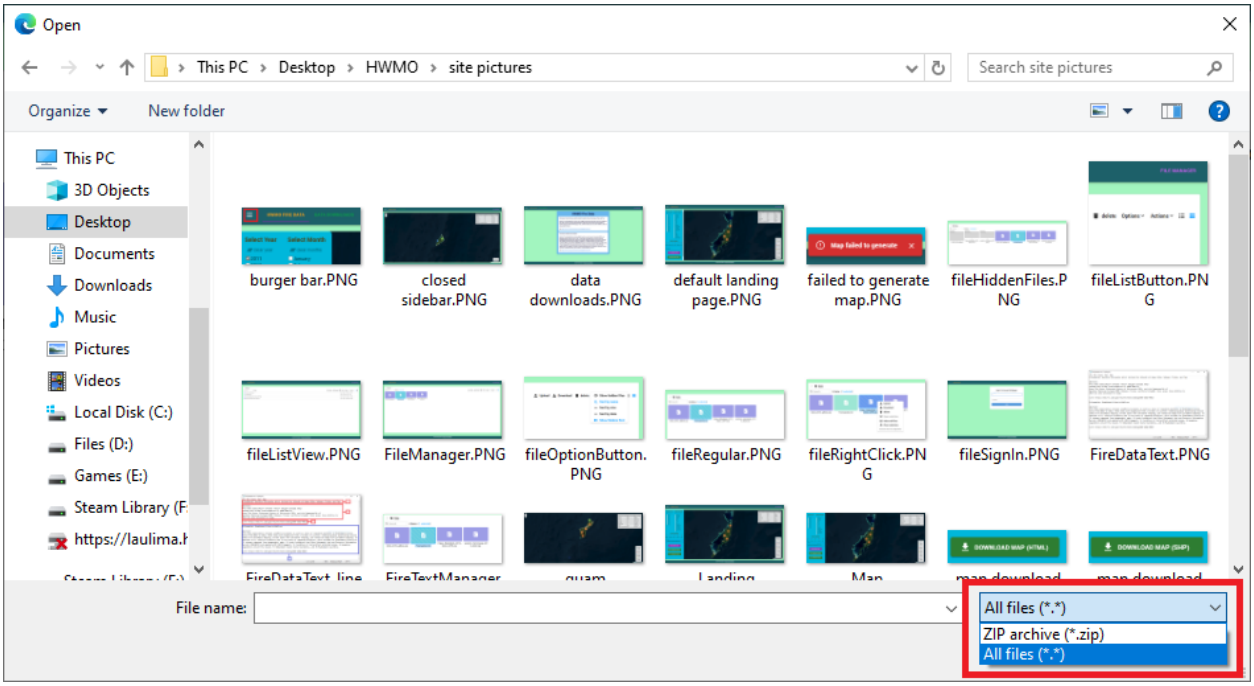


After doing so you will be prompted with the following popup. Navigate to the zipped dataset that you want to upload select it and click open. It might take a minute or two depending on the size of the dataset. Only one dataset at a time can be uploaded.



After uploading a new dataset navigate back to HWMO Fire Data and wait for it to load. It might take a bit longer than usual since it is parsing a new dataset for the first time. Then check the Dataset dropdown for the new dataset

By default, it will only show zipfiles and directories. This can be changed by clicking the drop down in the bottom right and selecting all files. After switching locate the FireDataText file that you want to upload and click open to upload it.



If there is already a FireDataText in the file manager it will not be replaced so make sure to delete the current FireDataText before uploading a new one.

The File manager allows the upload of non-zip and text files. This means that users can upload anything to the site, and it can be used for file storage if needed. It is not recommended to store confidential information on the site. There are basic security measures in place to prevent unauthorized access to files, but it is by no means foolproof.

Downloading Files

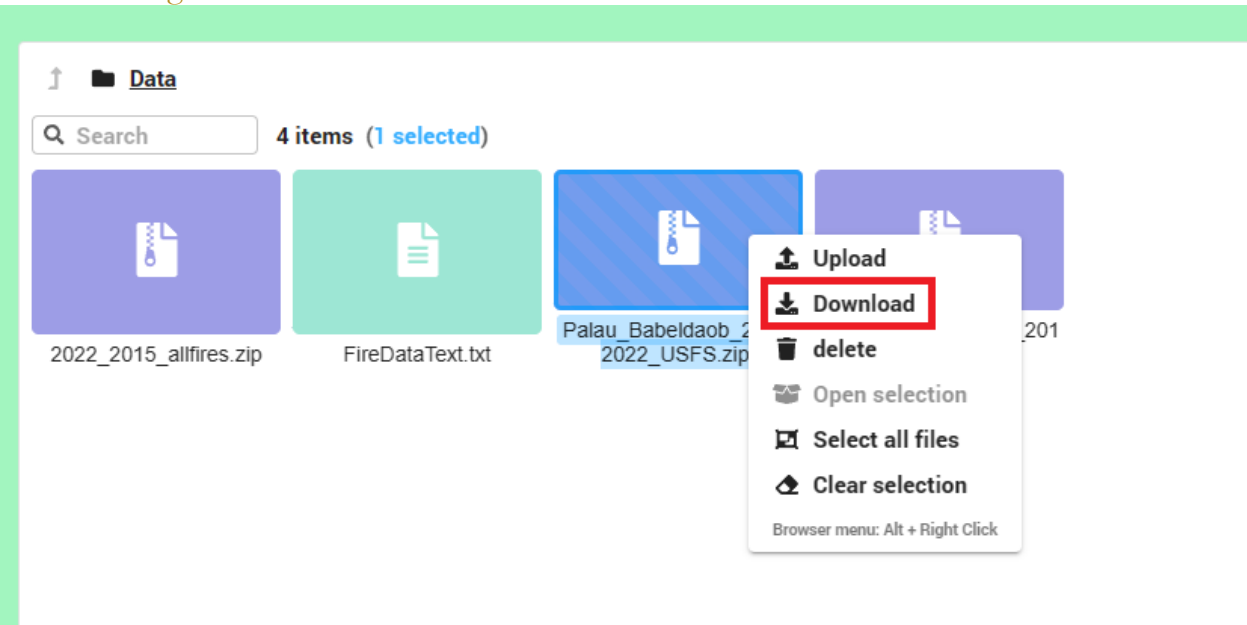


FIGURE 4 SINGULAR FILE

To download files first select a file by left-clicking it or multiple by holding down control and left-clicking the desired files. To deselect a file click it again.

Then click Download either by right-clicking to bring up the drop-down as shown above or the menu bar. The selected file(s) will be zipped and downloaded under the name download_data.zip

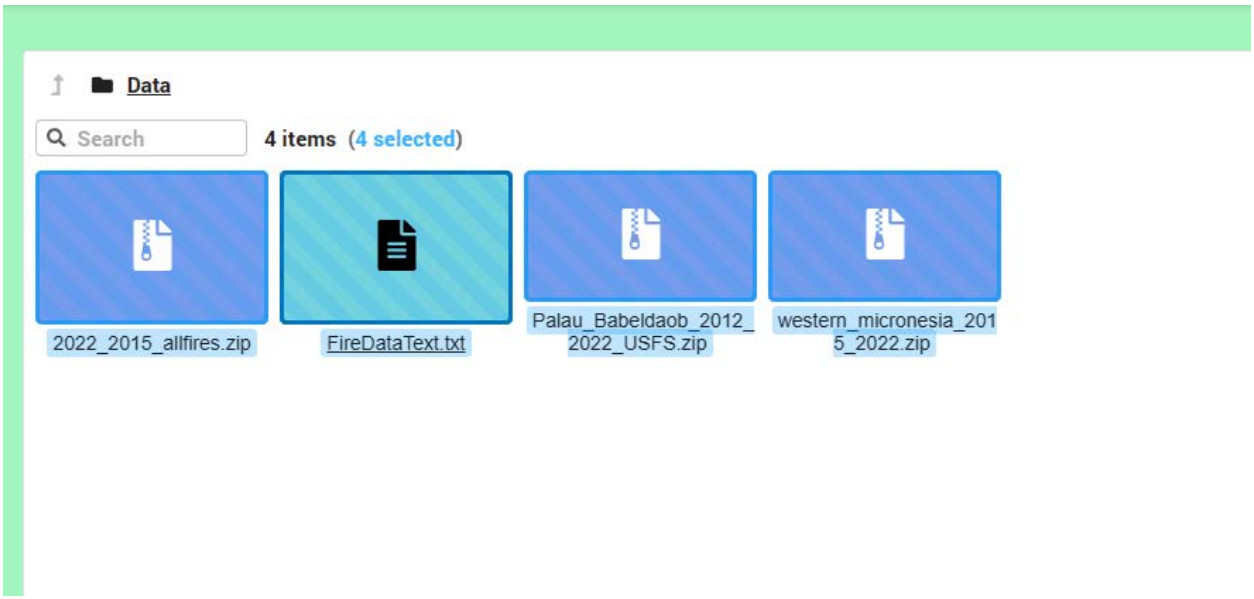
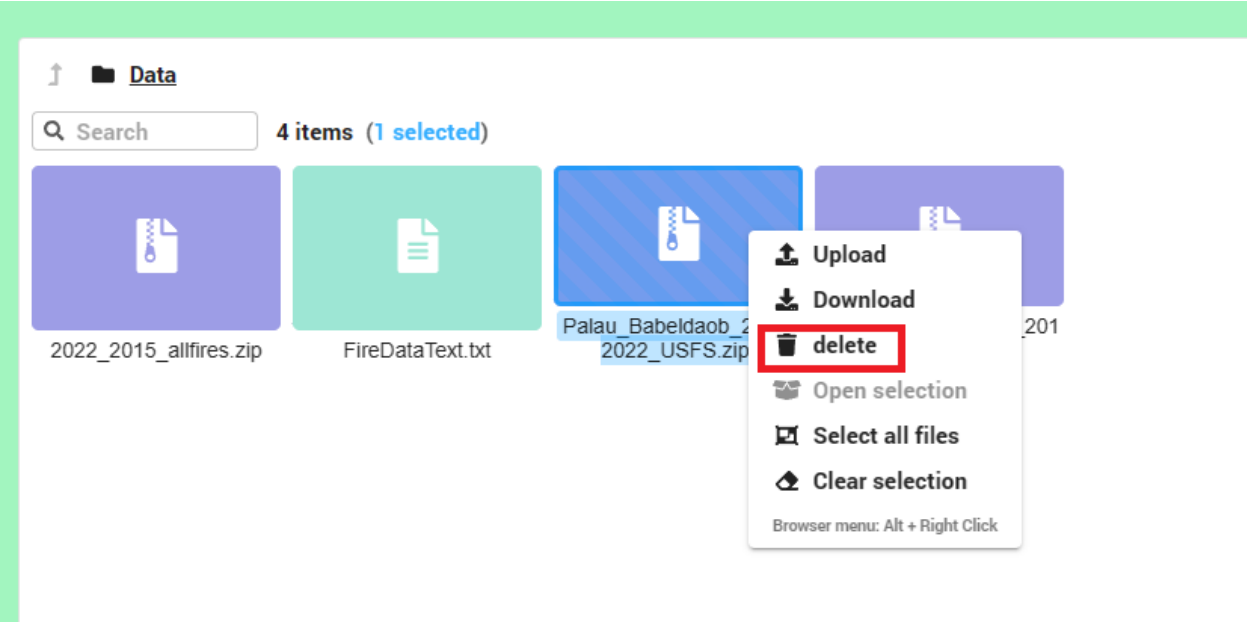


FIGURE 5 MULTIPLE FILES

Deleting Files

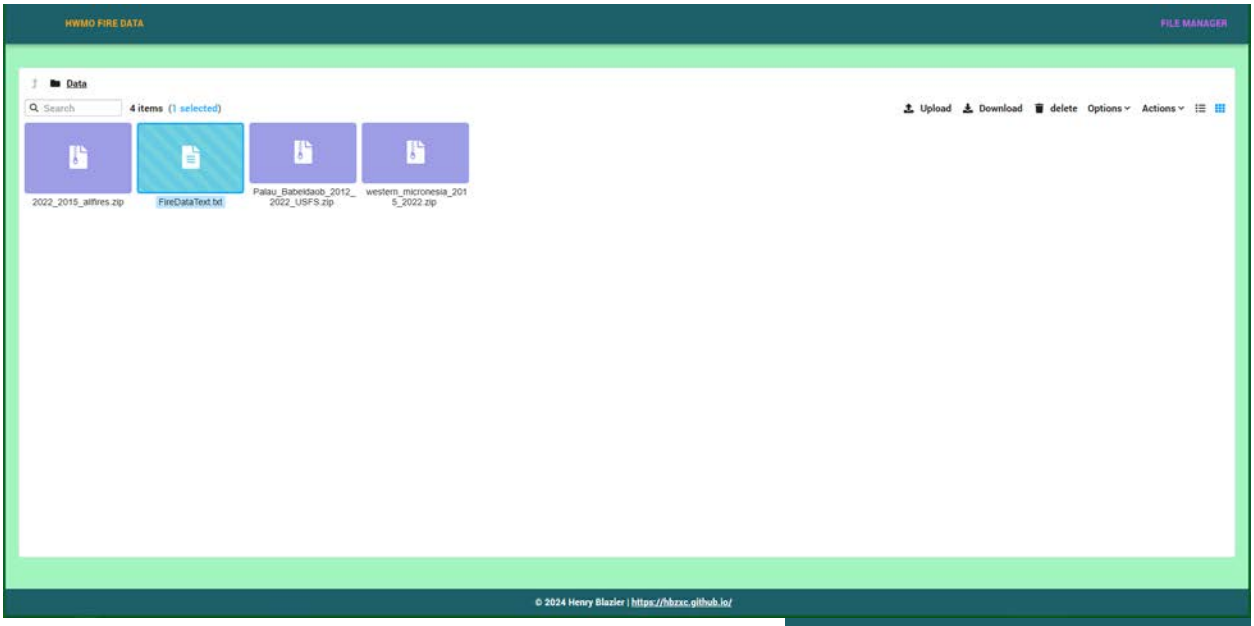
Deleting files follows the same process as downloading files but instead of clicking download click delete. Multiple files can be selected.



Be sure you want to delete the files, the server does not keep backups

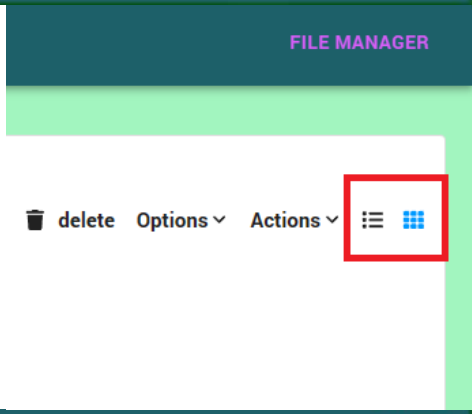
Miscellaneous

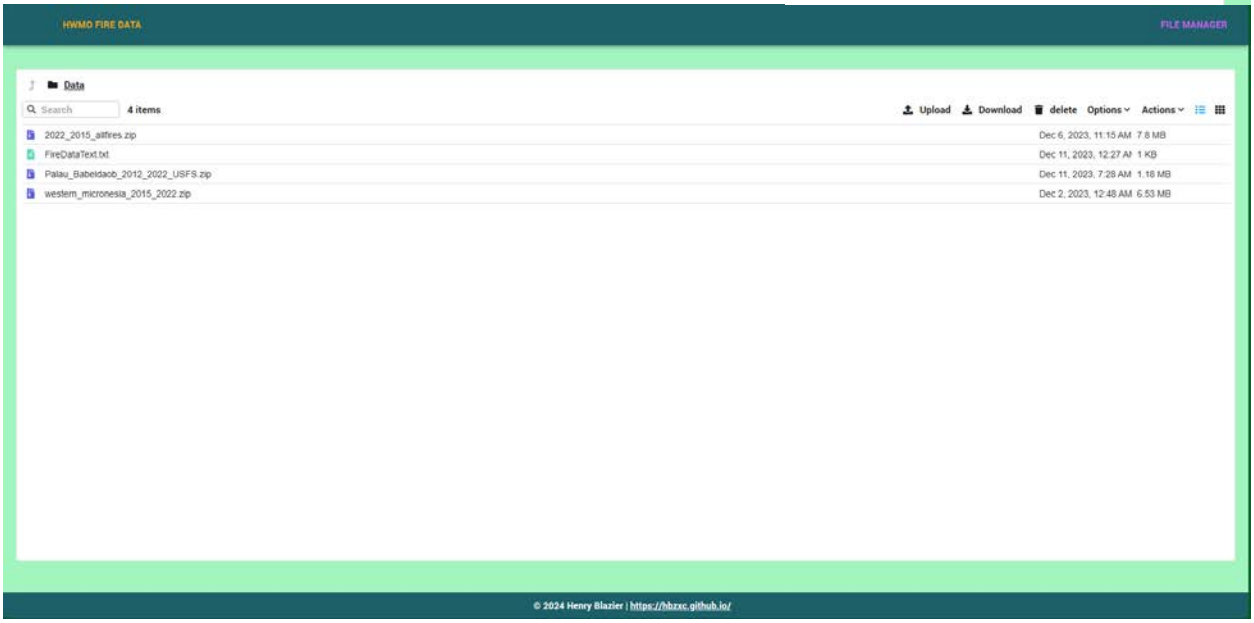
Switching From Grid View to List View



You can switch from grid to list view using the buttons in the right corner.

This provides additional file information including the last edit date and file size.

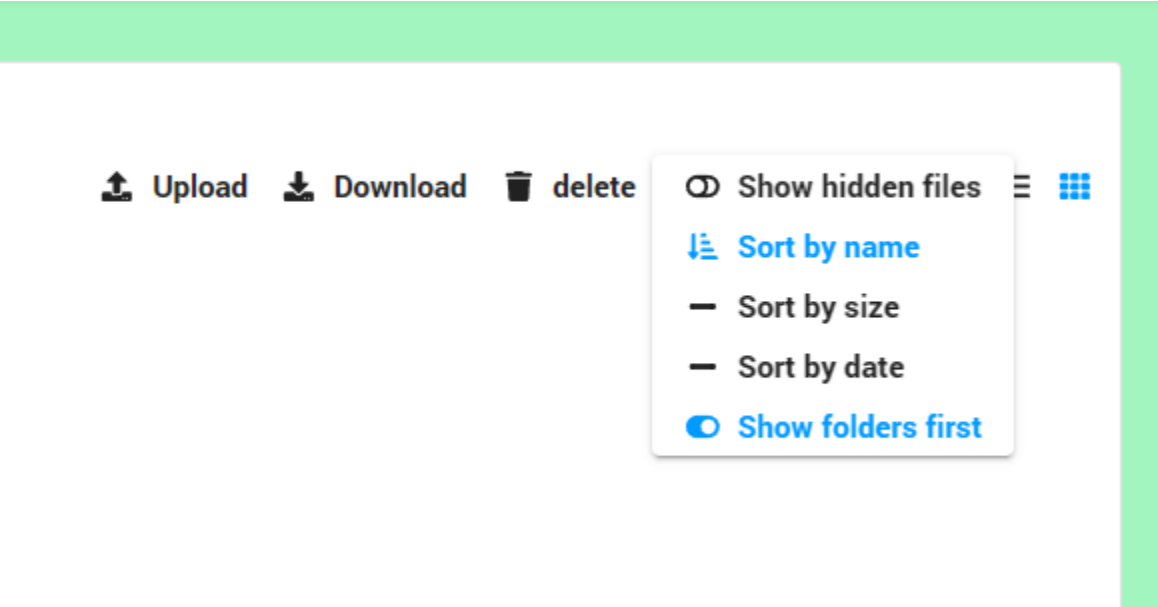




Option Drop Down

Sorting by Name, Size and Date

By default, the files are sorted by name, but they can also be sorted by size and date.



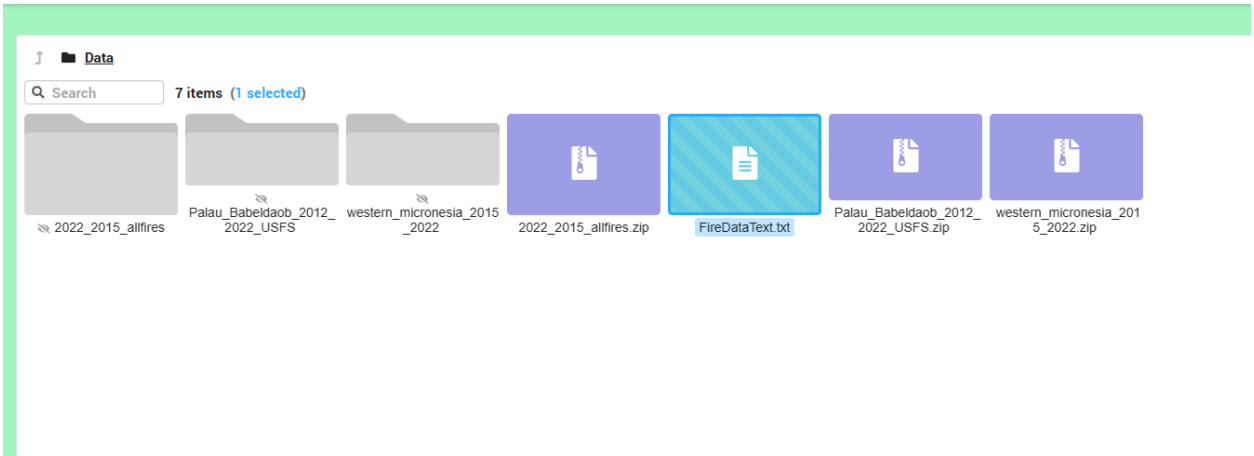
Showing Hidden Files/ Resetting Datasets

Pressing control+H or going to the options dropdown and toggling "Show hidden files" will show file folders which are hidden by default.

This is useful to check if uploaded datasets were successfully unpacked. If an uploaded dataset does not have a corresponding folder of the same name that means that dataset will not show up on the HWMO Fire Data page.

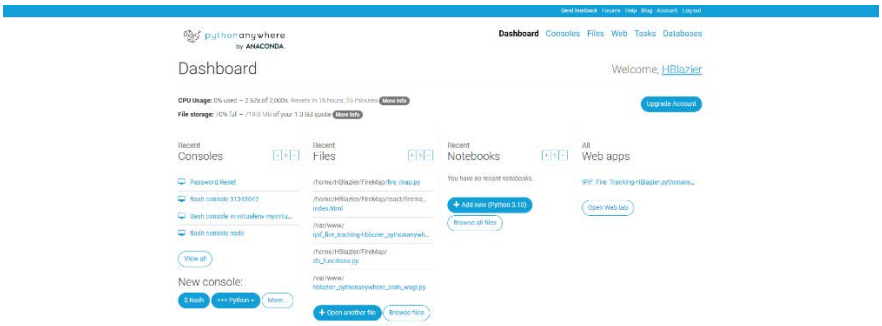
Deleting a dataset folder will cause the site to reprocess that dataset by unzipping the initial file.

Deleting a dataset will also delete its corresponding folder.

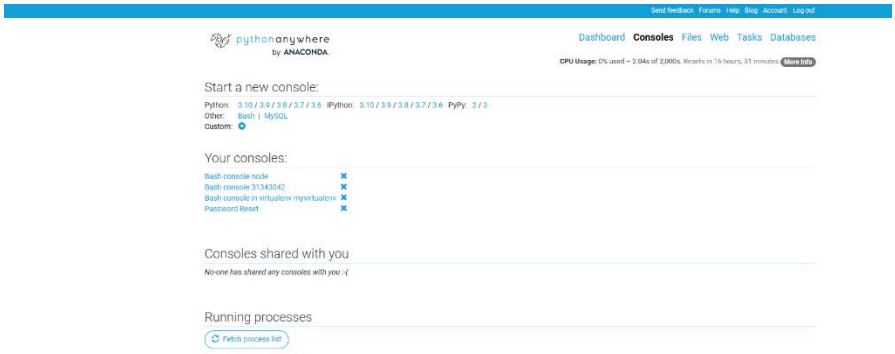


Setting Site Logins

Log into the pythonAnywhere dashboard https://www.pythonanywhere.com/login/



Click on the Consoles Tab

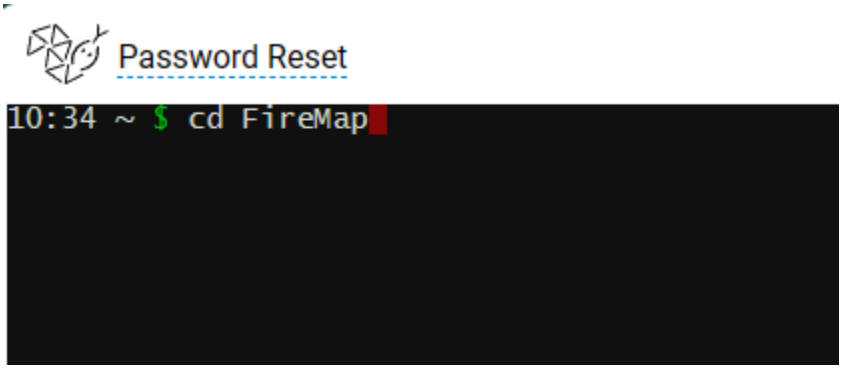


Now select the Password Reset console.

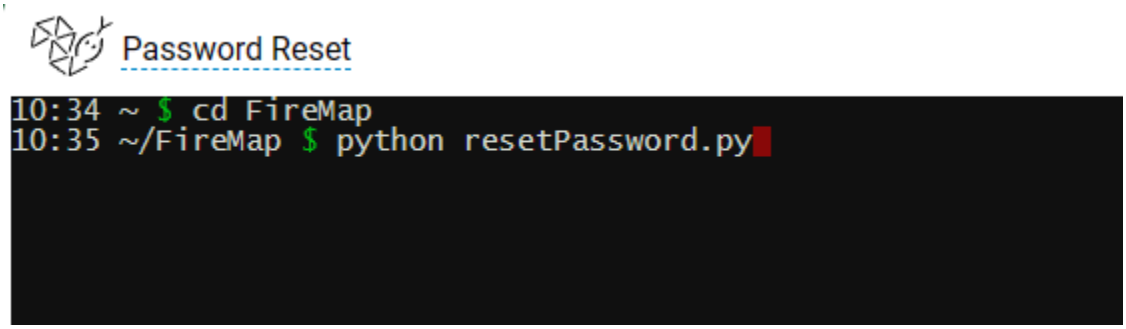
If there is no Password Reset console you can create a new console by selecting Other: Bash under start a new console.

This will bring you to this page:

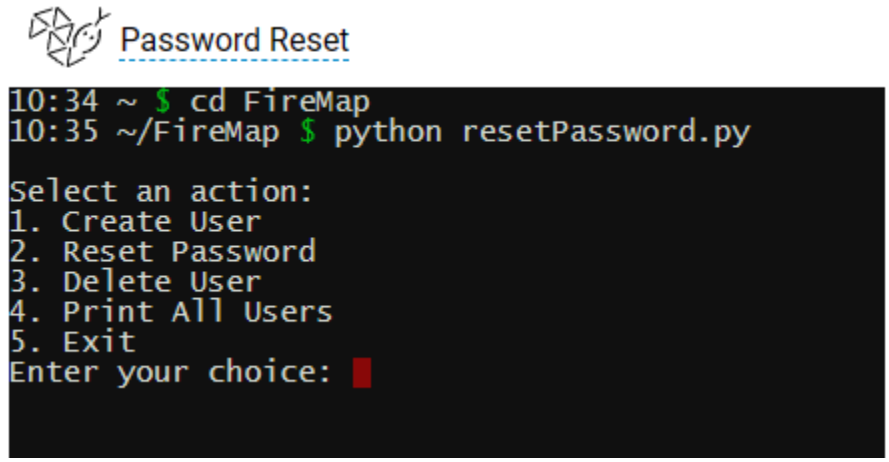
Type in `cd FireMap` and hit enter.



Then type in `python resetPassword.py` and hit enter.



This will start the password reset program.



From here you can create users, reset passwords, delete users and show existing users

Create user Example:

By typing "1" the program will prompt for a new username and password

In the example below a new user with the name: NewUser and password: Password

```
Select an action:
1. Create User
2. Reset Password
3. Delete User
4. Print All Users
5. Exit
Enter your choice: 1
Enter a new username: NewUser
Enter a new password: Password
```

Print All Users Example:

By typing "4" the program will show the usernames of all current users

```
Enter your choice: 4
Current users:
Ally
HWMO
NewUser
```

Reset Password Example:

By typing "2" the program will prompt for the user name to reset then prompt for a new password.

In the example below the user "NewUser" has their password reset to "BetterPassword"

```
Enter your choice: 2
Enter the username to reset the password: NewUser
Enter the new password: BetterPassword
```

If there is no user valid user the found to reset the program will ignore the reset request

Ensure that the username is correct by checking that exists with "Print all users"

Delete User Example:

By typing "3" the program will prompt for a user name to delete

In the example below user "NewUser" is deleted from the user database

```
Enter your choice: 3
Enter the username to delete: NewUser
```

To check if the removal was successful have it print the current users and check that it is gone.

```
Enter your choice: 4
Current users:
Ally
HWMO
```