

A planetary-scale platform for Earth science data & analysis

Powered by Google's cloud infrastructure

▶ Watch Video

Step 1

Open an account in Google Earth Engine

<https://earthengine.google.com/>

It is free.



Discover

Discover content shared by your colleagues and other researchers.
Access a broad range of data types used in hydrology.

Step 2:

Open an account in HydroShare

<https://www.hydroshare.org/>

It is free.

Getting Started

Step 3:

In your Hydroshare account, select the "CUAHSI JupyterHub" app and follow instructions.

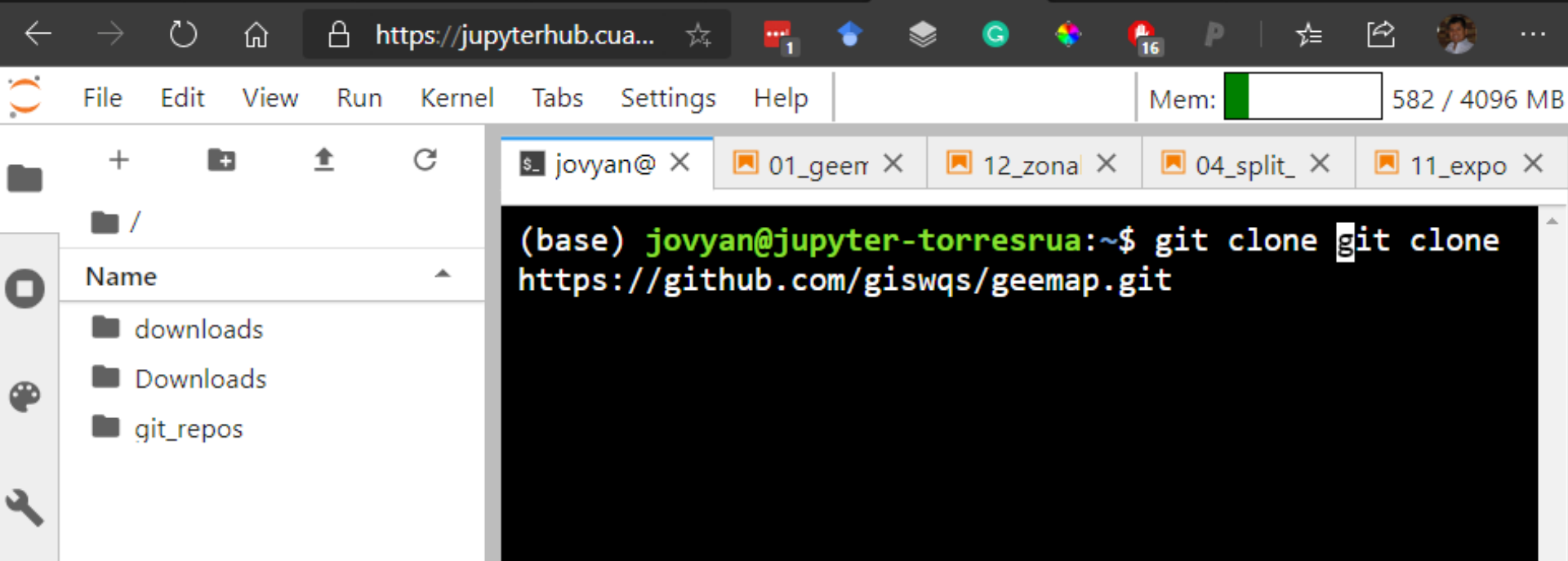
In server options, select "Python 3.7 Scientific" and continue.

Featured Apps



CUAHSI JupyterHub

Use this app to launch HydroShare data in an online Python environment that uses JupyterHub software stack.



Step 4:

Bring GEEMAP notebooks to JupyterHub by running this command in the terminal:

`git clone https://github.com/giswqs/geemap.git`

```
In [1]: import geemap
```

```
In [*]: m = geemap.Map()  
m
```

To authorize access needed by Earth Engine, open the following URL in a web browser and follow the instructions:

https://accounts.google.com/o/oauth2/auth?client_id=517222506229-vsmmajv00ul0bs7p89v5m89qs8eb9359.apps.googleusercontent.com&scope=https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fearthengine+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fdevstorage.full_control&redirect_uri=urn%3Aietf%3Aawg%3Aoauth%3A2.0%3Aapp%3Aweb&response_type=code&code_challenge=95xWOTsZRgkwIWVgLIkJsEtLjSQNFyIZUy_tKTJ8eI&code_challenge_method=S256

The authorization workflow will generate a code, which you should paste in the box below

Enter verification code:

```
In [ ]:
```

Step 5 (only done once):

In a new notebook, enter in two cells:

```
import geemap
```

```
m = geemap.Map()
```

```
m
```

run cells, follow the link, and enter verification code

File Edit View Run Kernel Tabs Settings Help

Mem: 630 / 4096 MB

04_split_pa X 00_geemap X 11_export_ X

Python 3

Name Last Modified

- 00_geemap_key_features... 9 minutes ago
- 01_geemap_intro.ipynb 2 hours ago
- 02_using_basemaps.ipynb a day ago
- 03_inspector_tool.ipynb a day ago
- 04_split_panel_map.ipynb 2 hours ago
- 05_drawing_tools.ipynb a day ago
- 06_marker_cluster.ipynb a day ago
- 07_geojson.ipynb a day ago
- 08_ee_js_to_ipynb.ipynb a day ago
- 09_plotting.ipynb a day ago
- 10_shapefiles.ipynb a day ago
- 11_export_image.ipynb 2 hours ago
- 12_zonal_statistics.ipynb 2 hours ago
- 13_zonal_statistics_by_gr... a day ago
- 14_legends.ipynb a day ago
- 15_convert_js_to_py.ipynb a day ago
- 16_add_animated_text.ip... a day ago

04_split_panel_map.ipynb

01_geemap X 12_zonal_s X

Code

Now you can run GEEMAP notebooks in HydroShare

Enjoy!

24_publish_maps.ipynb a day ago

25_load_rasters.ipynb a day ago

1 Python 3 | Idle Mem: 630.49 / 4096.00 MB

Mode: Command Ln 5, Col 61 04_split_panel_map.ipynb