

Instalando la libreria rasterio directamente desde Jupyter.

```
!pip install rasterio
```

```
Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/pub
Collecting rasterio
  Downloading rasterio-1.2.10-cp37-cp37m-manylinux1_x86_64.whl (19.3 MB)
    |████████████████████████████████████████| 19.3 MB 416 kB/s
Requirement already satisfied: click>=4.0 in /usr/local/lib/python3.7/dist-packages (fr
Requirement already satisfied: certifi in /usr/local/lib/python3.7/dist-packages (from
Collecting cligj>=0.5
  Downloading cligj-0.7.2-py3-none-any.whl (7.1 kB)
Requirement already satisfied: setuptools in /usr/local/lib/python3.7/dist-packages (fr
Collecting affine
  Downloading affine-2.3.1-py2.py3-none-any.whl (16 kB)
Requirement already satisfied: attrs in /usr/local/lib/python3.7/dist-packages (from ra
Collecting snuggs>=1.4.1
  Downloading snuggs-1.4.7-py3-none-any.whl (5.4 kB)
Collecting click-plugins
  Downloading click_plugins-1.1.1-py2.py3-none-any.whl (7.5 kB)
Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from ra
Requirement already satisfied: pyparsing>=2.1.6 in /usr/local/lib/python3.7/dist-packag
Installing collected packages: snuggs, cligj, click-plugins, affine, rasterio
Successfully installed affine-2.3.1 click-plugins-1.1.1 cligj-0.7.2 rasterio-1.2.10 snu
```

Importando la libreria rasterio y creando shortcuts.

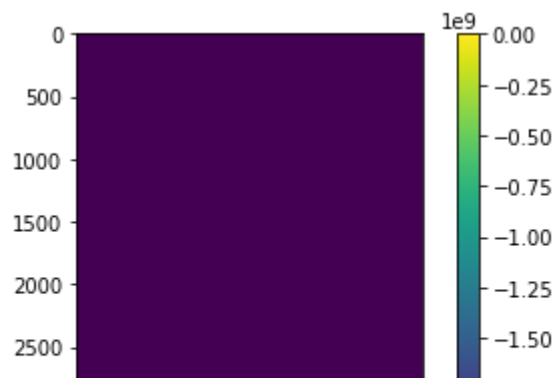
```
import rasterio as rio
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline
```

```
from google.colab import drive
drive.mount('/content/drive')
```

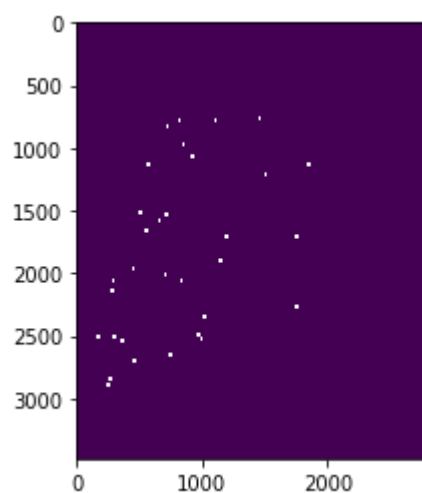
```
Mounted at /content/drive
```

```
raster = rio.open('/content/drive/MyDrive/4. UNIVERSIDAD NACIONAL/Cartografia geotecnica/Cart
inventario=raster.read(1)
print(inventario.shape)
plt.imshow(inventario)
plt.colorbar();
```

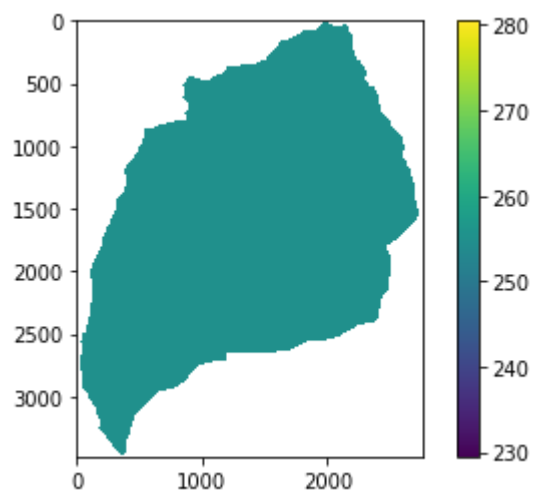
(3482, 2763)



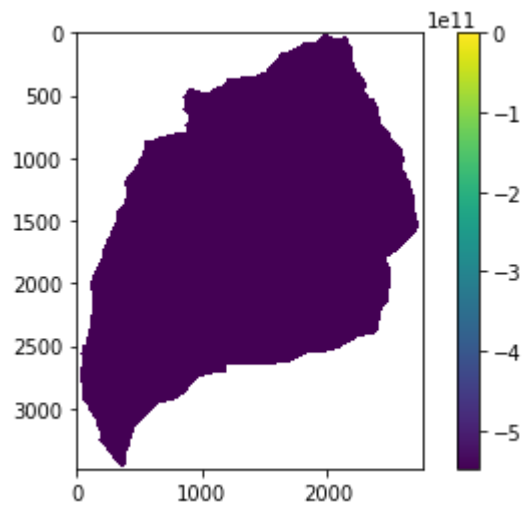
```
inve=np.where(inventario==1,np.nan,inventario)
np.unique(inve)
plt.imshow(inve);
```



```
raster = rio.open('/content/drive/MyDrive/4. UNIVERSIDAD NACIONAL/Cartografia geotecnica/Cart
msh=raster.read_masks(1)
msh=np.where(msh==0,np.nan,msh)
plt.imshow(msh)
plt.colorbar();
```



```
inventario = msk*inventario  
inventario=np.where(inventario==255,1,inventario)  
plt.imshow(inventario)  
plt.colorbar();
```



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