

Aim: Geo referencing Satellite Images with Maps

Step 1:Open QGIS.

Step 2:Go to plugin and click on manage & install and search for “QuickMapServices” click on install plugin.

Step 3:After installation restart the QGIS.

Step 4:Open QGIS and click on web menu and select quick map services and you can see on

your right side search bar, just click on search bar and search “google satellite hybrid”, double click to open the google satellite image.

Step 5:Select the specific area or dam, So we picked “Salma dam” from Afghanistan for our geo referencing satellite image.

For georeferencing we have to download the scanned image of our “Salma dam” of the specific area we chose.

Step 6:Click on Raster and select georeferencing, In georeferencing go to file menu and select open raster and open the scanned image.

Step 7:Select the coordinates in scanned image and click on from map canvas and the coordinate which was taken in the scanned image should be the same in satellite image.

Step 8:After selecting coordinates from satellite image, Click on OK.

So all the coordinates have been taken from the scanned image as well as from the satellite image.

Step 9:Now, go to georeferencer and go to setting and click on transformation setting.

Step 10:In transformation setting, Go to Target CRS and select “EPSG:32642”.

Step 11:Click on OK, and go to file menu & start the georeferencing.

Then after starting georeferencing, our scanned image is overlapped with satellite image.

Step 12:Now, go to layer menu and click on layer properties and in symbology set the blending mode to “multiply” and click on apply.

After all, the scanned image overlaps well with the satellite image.

Step 13:For more enhancement, again click on layer menu and select layer properties and in

transparency set global opacity to less than 50% and click on apply.

So the overlapping is done with scanned image on satellite image.