

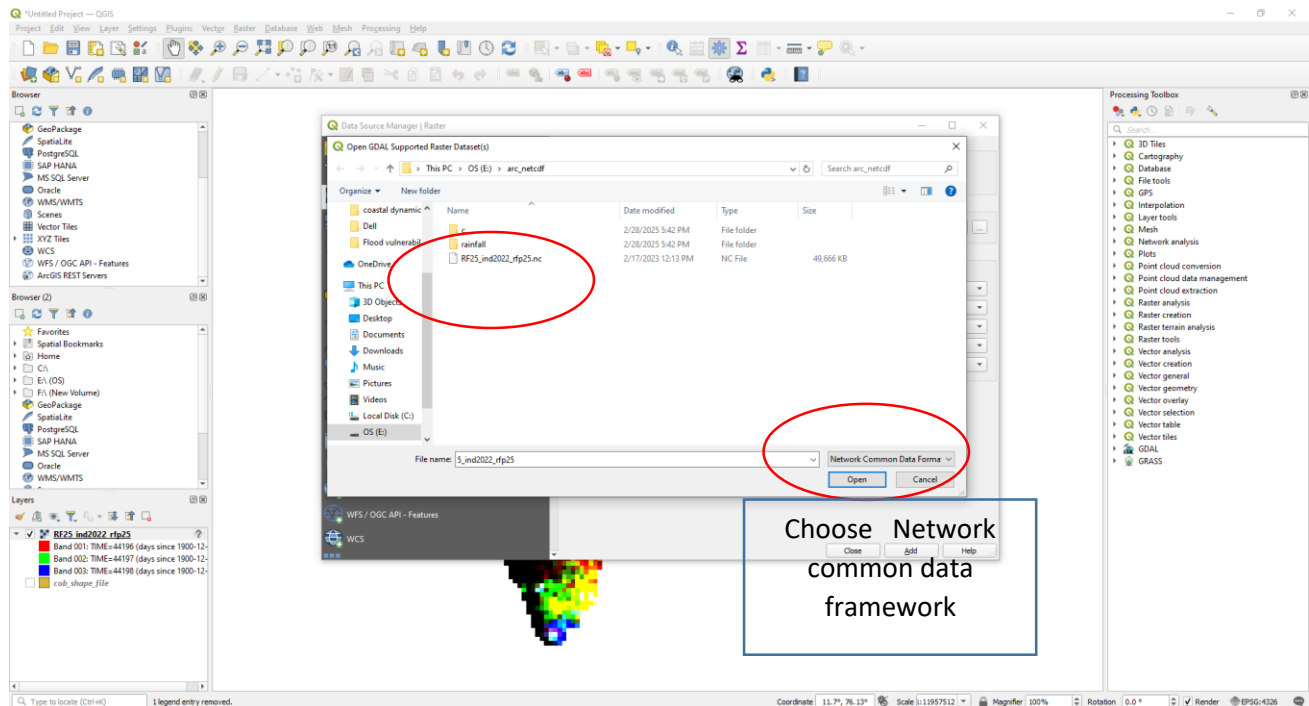
Netcdf file in QGIS

And Calculate Monthly rainfall

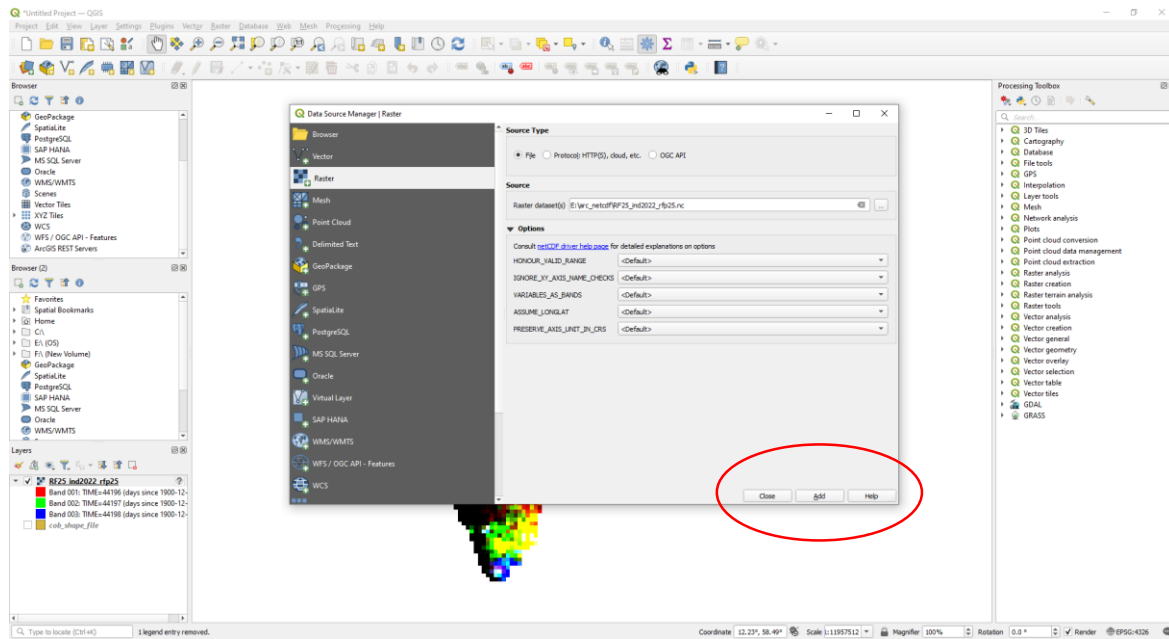
Also clipping the area using extend (lat lon)

Pradip Sarkar

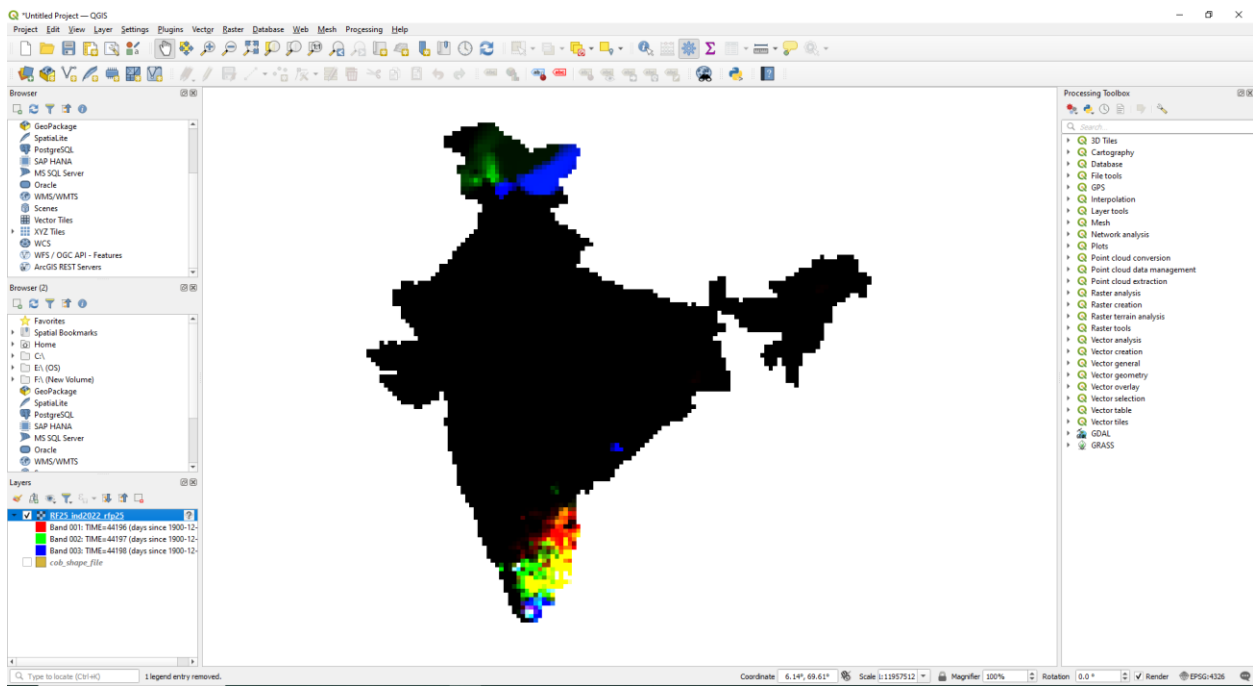
1. Open Qgis
2. Go to Layer
3. Add Layer
4. Add raster layer



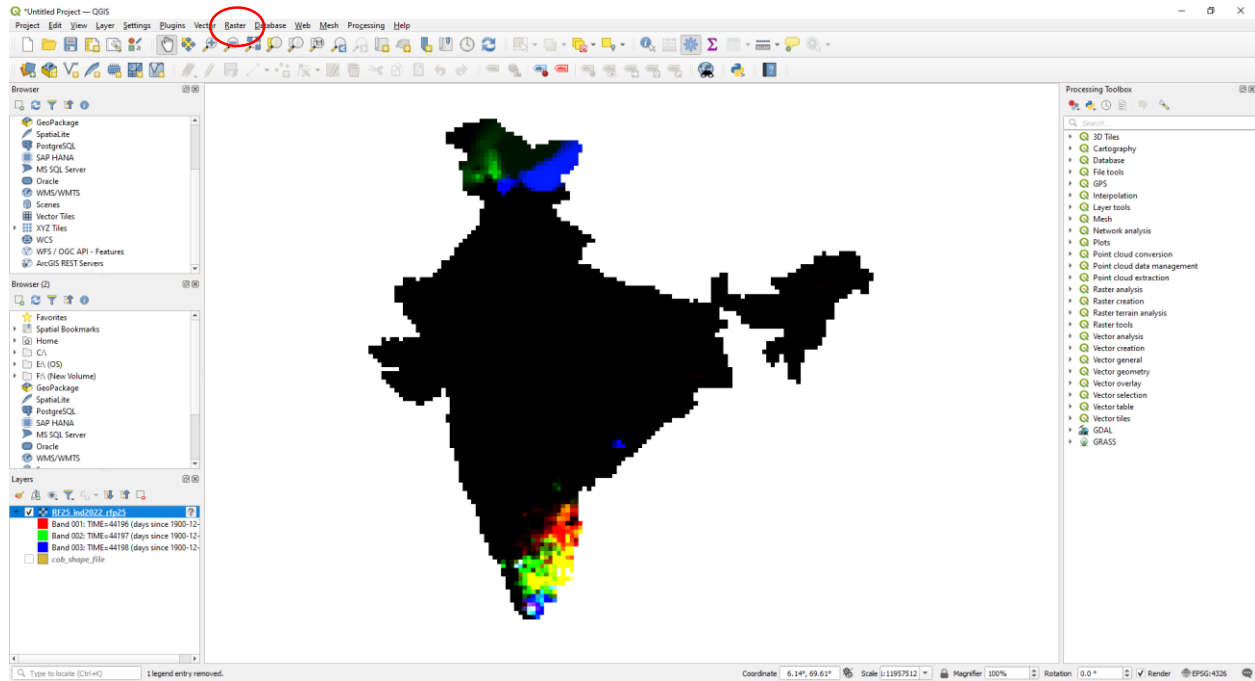
5. Select Network common data framework
6. Choose nc file which you want to add



7. Add the layer
8. The layer look like this (the following layer) this one



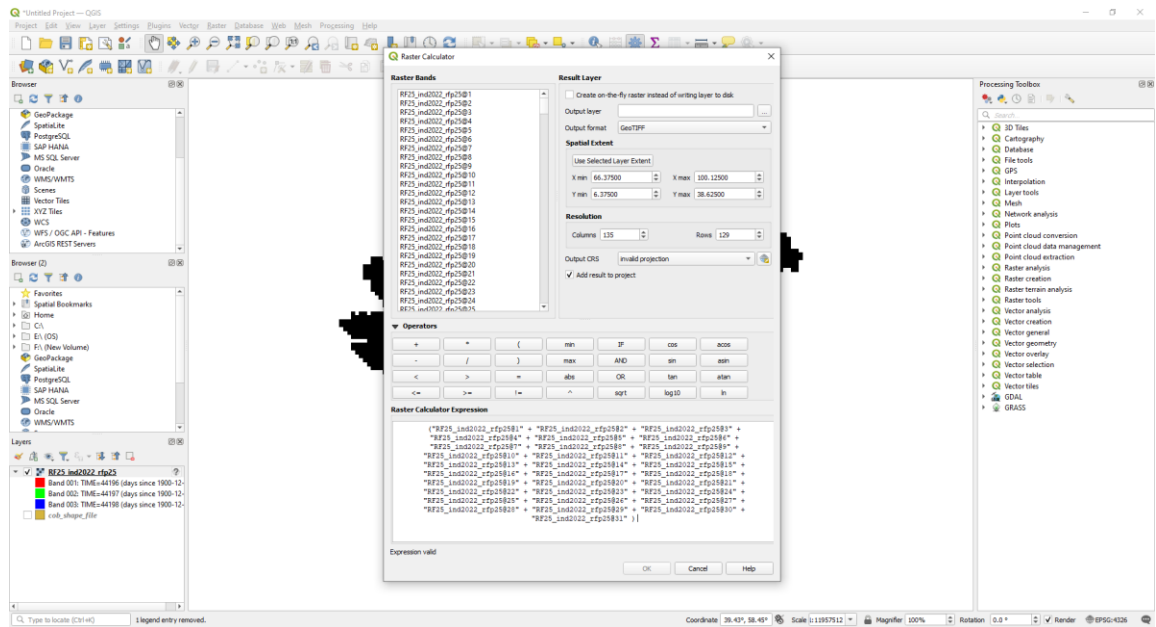
1. Go to Raster
2. Click Raster calculator



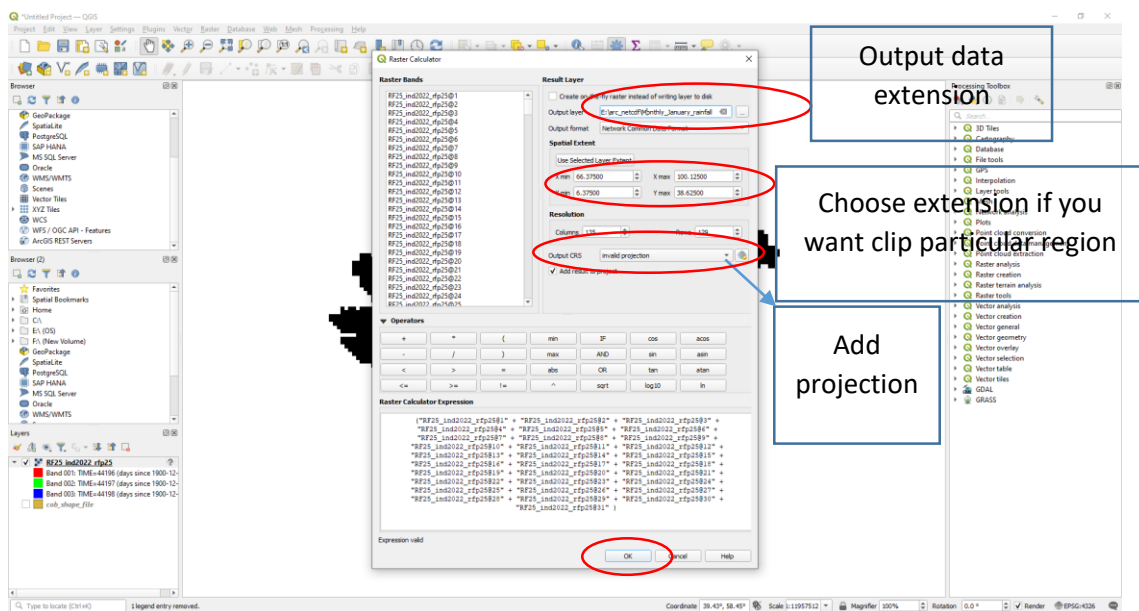
1. Select the Band (in my case I want to calculate January month rainfall)
2. Click Raster calculator and add all the band from

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("RF25_ind2022_rfp25@1" + "RF25_ind2022_rfp25@2" + "RF25_ind2022_rfp25@3" +
"RF25_ind2022_rfp25@4" + "RF25_ind2022_rfp25@5" + "RF25_ind2022_rfp25@6" +
"RF25_ind2022_rfp25@7" + "RF25_ind2022_rfp25@8" + "RF25_ind2022_rfp25@9" +
"RF25_ind2022_rfp25@10" + "RF25_ind2022_rfp25@11" + "RF25_ind2022_rfp25@12" +
"RF25_ind2022_rfp25@13" + "RF25_ind2022_rfp25@14" + "RF25_ind2022_rfp25@15" +
"RF25_ind2022_rfp25@16" + "RF25_ind2022_rfp25@17" + "RF25_ind2022_rfp25@18" +
"RF25_ind2022_rfp25@19" + "RF25_ind2022_rfp25@20" + "RF25_ind2022_rfp25@21" +
"RF25_ind2022_rfp25@22" + "RF25_ind2022_rfp25@23" + "RF25_ind2022_rfp25@24" +
"RF25_ind2022_rfp25@25" + "RF25_ind2022_rfp25@26" + "RF25_ind2022_rfp25@27" +
"RF25_ind2022_rfp25@28" + "RF25_ind2022_rfp25@29" + "RF25_ind2022_rfp25@30" +
"RF25_ind2022_rfp25@31" )
```

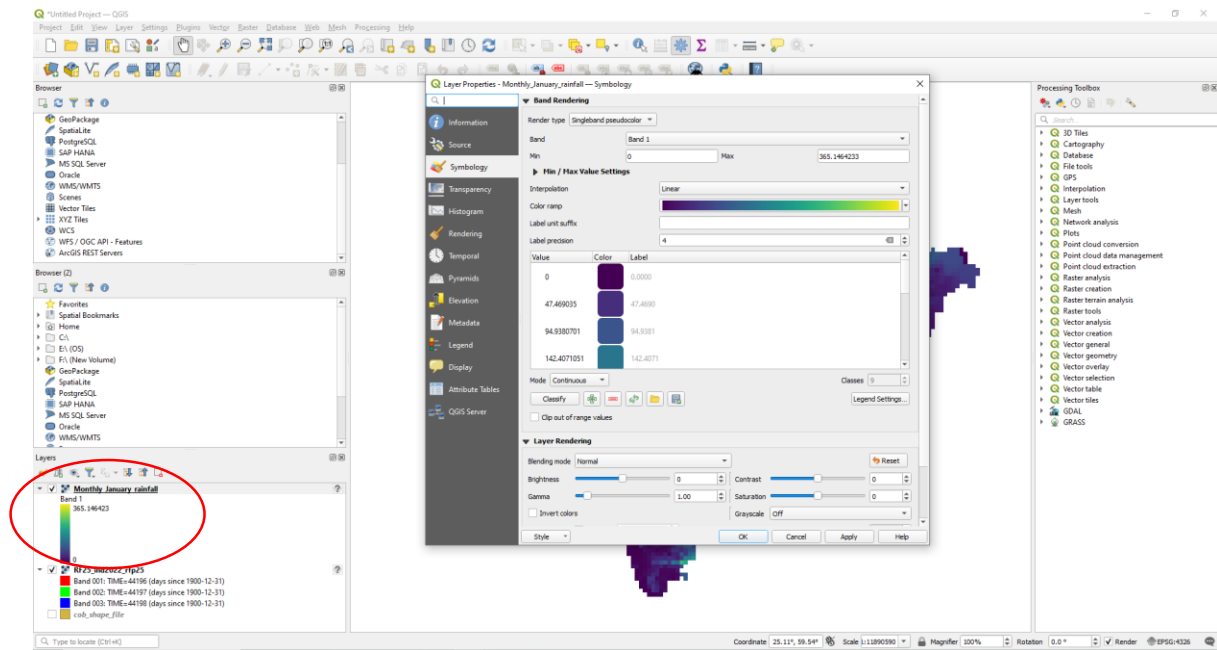
1. Select the Band (in my case I want to calculate January month rainfall)
2. Click Raster calculator and add all the band From (see the following picture), You may use excel for bigger calculation



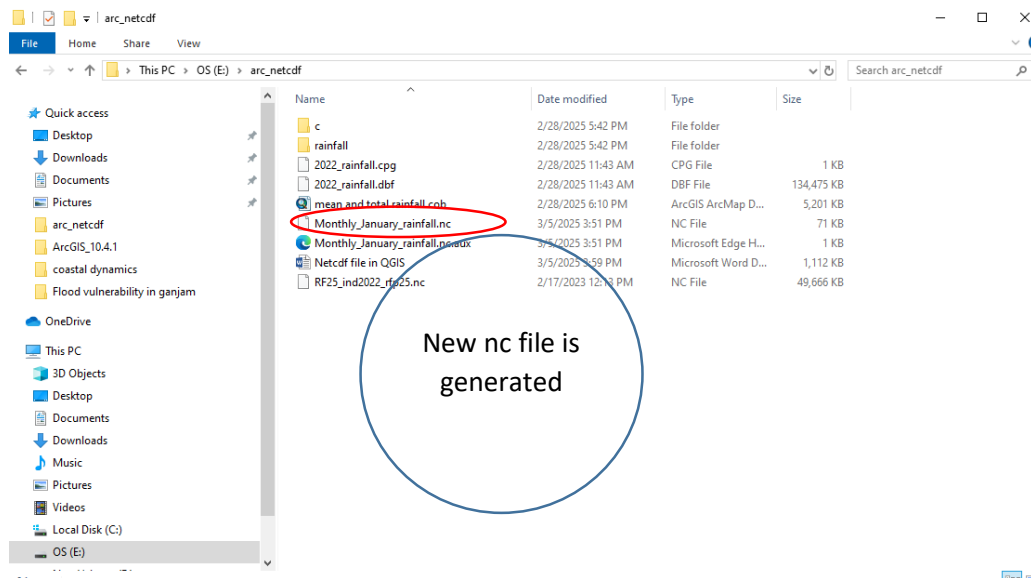
1. Choose Output layer name and Output extension file (My case I chose Network common data framework/nc format)
2. Choose extension
3. Add projection and click ok



1. The new file name automatically add in the layer panel and band will be one
2. Then analysis as per as your need on the basis of new nc file

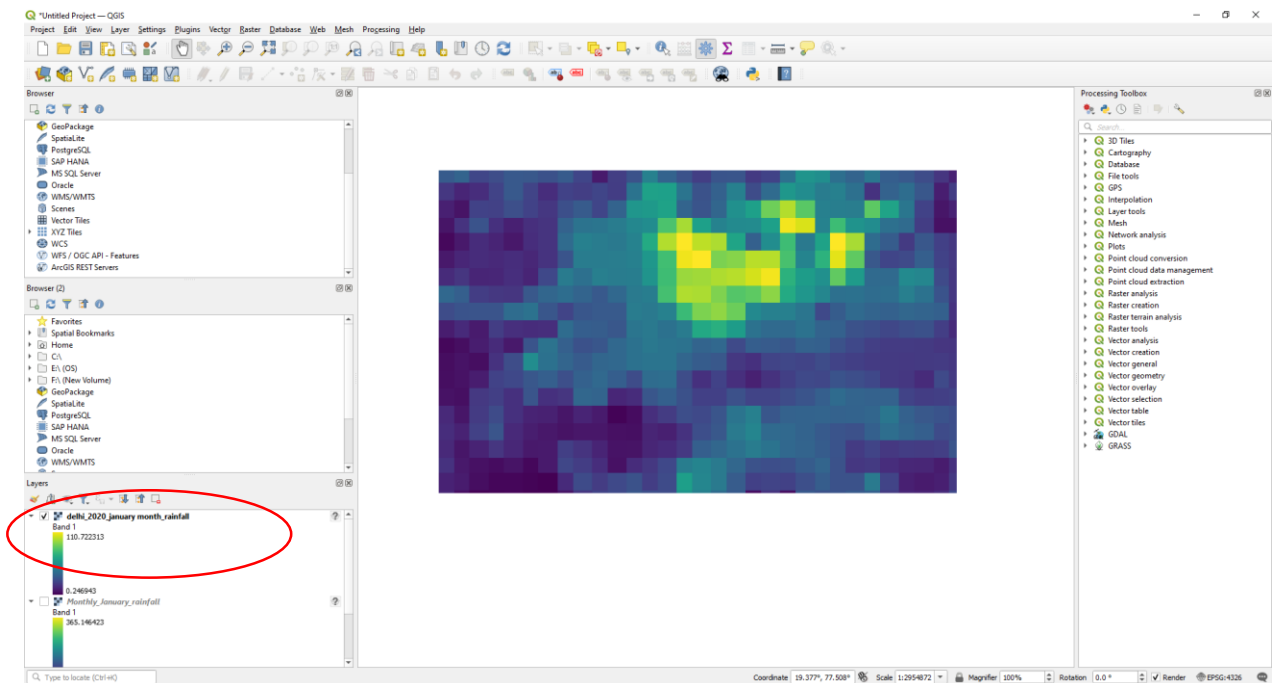


The following nc file in generated after raster calculation done and analysis it as per as your need



Clipped result

After clipping result will be like this



The nc file is generated like this

The screenshot shows a Windows File Explorer window with the address bar set to 'This PC > OS (E:) > arc_netcdf'. The left sidebar shows the 'Quick access' pane with 'arc_netcdf' selected. The main pane displays a list of files and folders. The file 'Delhi_2020_january month_rainfall.nc' is highlighted with a red circle.

Name	Date modified	Type	Size
c	2/28/2025 5:42 PM	File folder	
rainfall	2/28/2025 5:42 PM	File folder	
2022_rainfall.cpg	2/28/2025 11:43 AM	CPG File	1 KB
2022_rainfall.dbf	2/28/2025 11:43 AM	DBF File	134,475 KB
Delhi_2020_january month_rainfall.nc	3/5/2025 4:10 PM	NC File	71 KB
delhi_2020_january month_rainfall.nc.aux	3/5/2025 4:10 PM	Microsoft Edge H...	1 KB
mean and total rainfall cob	2/28/2025 6:10 PM	ArcGIS ArcMap D...	5,201 KB
Monthly_January_rainfall.nc	3/5/2025 3:51 PM	NC File	71 KB
Monthly_January_rainfall.nc.aux	3/5/2025 4:14 PM	Microsoft Edge H...	35 KB
Nc file data calculate monthly result and ...	3/5/2025 4:14 PM	QGIS Project	17 KB
Netcdf file in QGIS	3/5/2025 4:06 PM	Microsoft Word D...	1,413 KB
RF25_ind2022_rfp25.nc	2/17/2023 12:13 PM	NC File	49,666 KB
RF25_ind2022_rfp25.nc.aux	3/5/2025 4:14 PM	Microsoft Edge H...	208 KB