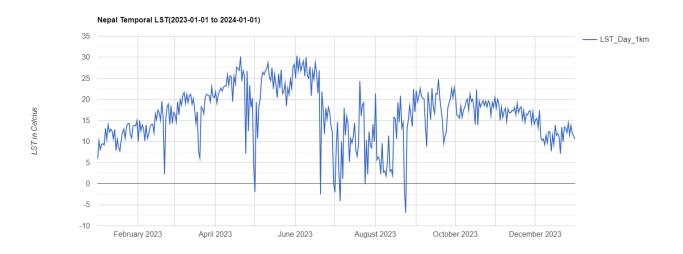
Land Surface Temperature Analysis

Code Used for LST Analysis

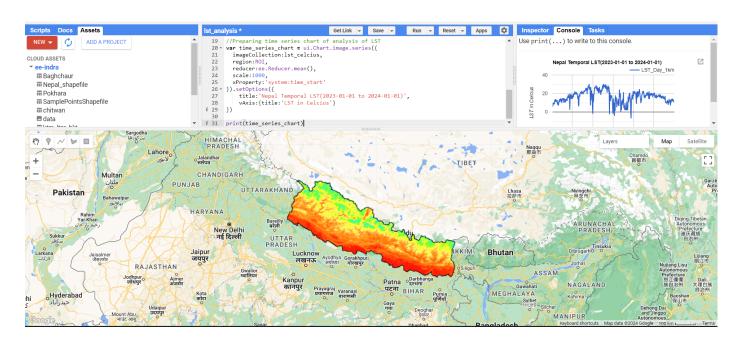
```
//Adding region of interest layer
Map.addLayer(ROI)
Map.centerObject(ROI)
//Importing LST image (MODIS 1km daily)
var modis lst = ee.lmageCollection("MODIS/061/MOD11A1")
.filterDate('2023-01-01','2024-01-01').select('LST_Day_1km')
//Conversion of image collections in kelvin to degree celcius
var lst_celcius = modis_lst.map(function(img)
{
return img.multiply(0.02).subtract(273.15).copyProperties(img,['system:time_start'])
})
//Visualization of image collection
var mean_lst = lst_celcius.mean().clip(ROI)
Map.addLayer(mean lst,imageVisParam2,'Mean Land Surface Temperature')
//Preparing time series chart of analysis of LST
var time series chart = ui.Chart.image.series({
imageCollection:lst_celcius,
region:ROI,
reducer:ee.Reducer.mean(),
scale:1000,
xProperty:'system:time start'
}).setOptions({
title:'Nepal Temporal LST(2023-01-01 to 2024-01-01)',
vAxis:{title:'LST in Celcius'}
})
print(time series chart)
//Export image
Export.image.toDrive({
image:mean lst,
folder: 'GEE',
scale:10.
```

region:ROI, maxPixels: 1e13, crs:'EPSG:4326' })

Chart representing LST of Nepal (2023-01-01 to 2024-01-01)



Snapshot of Work and Visualization in GEE:



Final Map Prepared using Arcgis:

