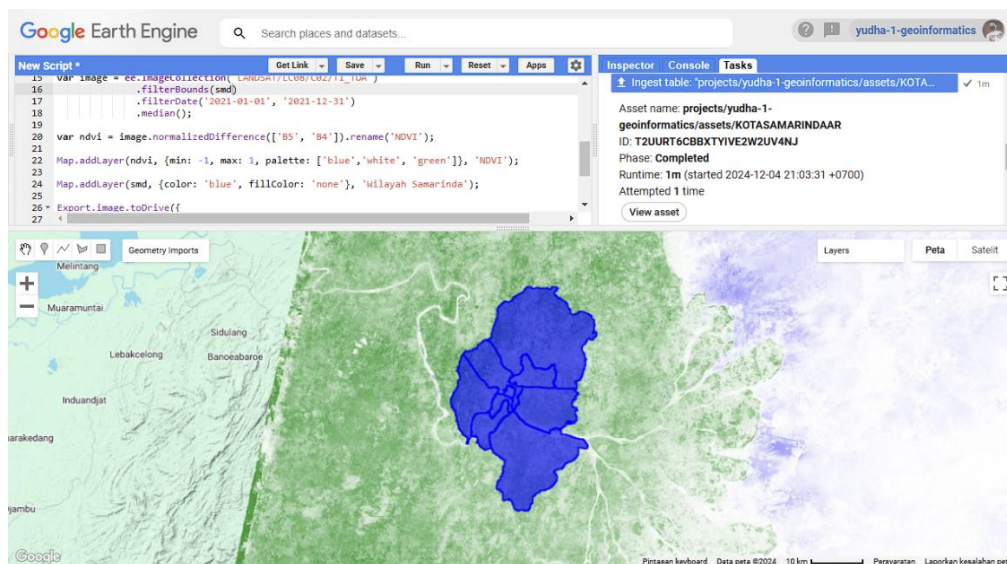Nama : Anak Agung Ngurah Dharma Yudha

NIM : 123230080
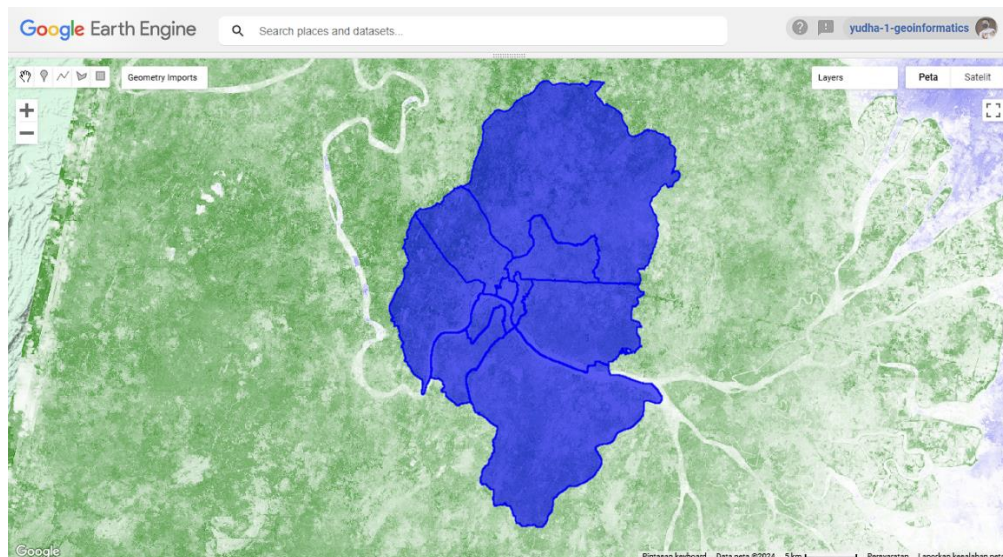
Kelas : IF-C

TUGAS MATA KULIAH GEOINFORMATIKA
MENGHITUNG *NORMALIZED DIFFERENCE VEGETATION INDEX* (NDVI)
MENGGUNAKAN *GOOGLE EARTH ENGINE* (GEE)

A. Tangkapan Layar Peta

Gambar 1.1, Tangkapan Layar Kerja Pada GEE

Gambar 1.2, Tangkapan Layar Wilayah Kota Samarinda Pada GEE

B. *Script Google Earth Engine* **(GEE)**

```
var kotaSamarinda = ee.FeatureCollection('projects/yudha-1-
geoinformatics/assets/KOTASAMARINDAAR');
var areaSamarinda = ee.Geometry.Polygon([
  [
    [117.1057, -0.5638],
    [117.1099, -0.4635],
    [117.2019, -0.4416],
    [117.206, -0.583],
    [117.1057, -0.5638]
  ]
]);
var smd = kotaSamarinda.filterBounds(areaSamarinda);
var image = ee.ImageCollection('LANDSAT/LC08/C02/T1_TOA')
              .filterBounds(smd)
              .filterDate('2021-01-01', '2021-12-31')
              .median();
var ndvi = image.normalizedDifference(['B5',
'B4']).rename('NDVI');
Map.addLayer(ndvi, {min: -1, max: 1, palette: ['blue','white',
'green']}, 'NDVI');
Map.addLayer(smd, {color: 'blue', fillColor: 'none'}, 'Wilayah
Samarinda');
Export.image.toDrive({
  image: ndvi,
  description: 'NDVI_KotaSamarinda',
  scale: 30,
  region: smd,
  maxPixels: 1e13
});
```

C. Tautan Aset *Shape File* Wilayah Kota

https://www.indonesia-geospasial.com/2020/01/shp-rbi-provinsi-kalimantan-timur.html (Menggunakan *File* Administrasi Kecamatan Kota Samarinda)