//-------------------------------------Region select ------------------------------------

// North America(NA) 30-40 40-50 50-60 60- 70

// Euraisa (EA) 30-35 35-40 40-45 45-49 49-53 53-57 57-62 62-67 67-70

var table = ee.FeatureCollection("users/GEE001/countries"),

geometry = ee.Geometry.MultiPoint();

var fc = table

// North America(NA) 30-40 40-50 50-60 60- 70

// var NorthAmerica = fc.filter(ee.Filter.inList('CONTINENT',['North America'])).union()

// var rec\_1 = ee.Geometry.Rectangle(-180.6, 30,-41.8, 40)

// Euraisa (EA) 30-35 35-40 40-45 45-49 49-53 53-57 57-62 62-67 67-70

var Eurasia = fc.filter(ee.Filter.inList('CONTINENT',['Europe','Asia'])).union()

var rec\_1 = ee.Geometry.Rectangle(-12,30,190,35)

rec\_1 = ee.Geometry(rec\_1, null, false)

var roi= Eurasia.geometry().intersection(rec\_1, ee.ErrorMargin(1))

roi = ee.FeatureCollection(rec\_1)

print(roi)

//Export as SHP files

Export.table.toDrive({

collection:roi,

description: "EA"+'30-35',

fileNamePrefix: "roi",

fileFormat: "SHP"

});

roi=roi.geometry();

Map.addLayer(roi,{},'roi')

//----------------------------Downscaling----------------------------

var grid = roi.coveringGrid(ee.Projection('EPSG:4326'), 30000)

print(grid)

Map.addLayer(grid,{},'grid')

Export.table.toDrive({

collection:grid,

description: "EAgrid"+'30-35',

fileNamePrefix: "grid",

fileFormat: "SHP"

});

//upload to Assets to conduct data download