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This script displays The Köppen-Geiger climate map with a spatial

resolution of 5 arc minutes for the period of 1986-2010.

The legend will be displayed in the console.

reference:

Kottek, M., J. Grieser, C. Beck, B. Rudolf, and F. Rubel, 2006:

World Map of the Köppen-Geiger climate classification updated.

Meteorol. Z., 15, 259-263. DOI: 10.1127/0941-2948/2006/0130

http://koeppen-geiger.vu-wien.ac.at/

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//-------------------------------------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 roi= table;

var grid = table2 ;

roi = roi.geometry();

//--------------------------Get Köppen-Geiger climate image ----------------------

var image = ee.Image("users/fsn1995/Global\_19862010\_KG\_5m");

var koppenColor = [

"960000", "FF0000", "FF6E6E", "FFCCCC", "CC8D14", "CCAA54",

"FFCC00", "FFFF64", "007800", "005000", "003200", "96FF00",

"00D700", "00AA00", "BEBE00", "8C8C00", "5A5A00", "550055",

"820082", "C800C8", "FF6EFF", "646464", "8C8C8C", "BEBEBE",

"E6E6E6", "6E28B4", "B464FA", "C89BFA", "C8C8FF", "6496FF",

"64FFFF", "F5FFFF"

],

koppenName = [

'Af', 'Am', 'As', 'Aw', 'BSh', 'BSk', 'BWh', 'BWk', 'Cfa',

'Cfb','Cfc', 'Csa', 'Csb', 'Csc', 'Cwa','Cwb', 'Cwc', 'Dfa',

'Dfb', 'Dfc','Dfd', 'Dsa', 'Dsb', 'Dsc', 'Dsd','Dwa', 'Dwb',

'Dwc', 'Dwd', 'EF','ET'

];

var koppen = image.updateMask(image.lte(30));

// Clip the image to the region of interest

var koppenClipped = koppen.clip(roi);

// Calculate the mode value

var koppen\_imagegrid = koppenClipped.reduceRegions({

reducer: ee.Reducer.mode(),

collection: table2,

scale: 1000

});

// Extract the mode and create an image

var koppen\_rescaled\_proj = ee.Image().float().paint(koppen\_imagegrid, 'mode');

// Displays the image

Map.addLayer(koppen\_rescaled\_proj, {min: 0, max: 30, palette: koppenColor}, 'koppen\_rescaled\_proj');

//-------------------------------------Data Output----------------------------------

var exportOptions = {

'fileFormat': 'GeoTIFF',

'driveFolder': 'Koppen\_type'

};

Export.image.toDrive({

image: koppen\_rescaled\_proj,

description: 'koppen\_imagegrid\_1986-2010\_NA\_30-40',

folder: exportOptions.driveFolder,

fileNamePrefix: 'Kkoppen\_imagegrid\_1986-2010\_NA\_30-40',

region: grid,

scale: 1000,

fileFormat: exportOptions.fileFormat

});