4. Cloud masking

<var geometry : Polygon, 4 vertices>

// This example demonstrates the use of the Landsat 8 QA band to mask clouds.

// Function to mask clouds using the quality band of Landsat 8.

var maskL8 = function(image) {

var qa = image.select('BQA');

/// Check that the cloud bit is off.

// See https://www.usgs.gov/land-resources/nli/landsat/landsat-collection-1-level-1-quality-assessment-band

var mask = qa.bitwiseAnd(1 << 4).eq(0);

return image.updateMask(mask);

}

// Map the function over one year of Landsat 8 TOA data and take the median.

var composite = ee.ImageCollection('LANDSAT/LC08/C01/T1\_TOA')

.filterDate('2016-01-01', '2016-12-31')

.map(maskL8)

.median();

// Display the results in a cloudy place.

Map.setCenter(114.1689, 22.2986, 12);

Map.addLayer(composite, {bands: ['B4', 'B3', 'B2'], max: 0.3});