//////////////////////////////////////////////////////////////////////////////

// Load the Sentinel-2 ImageCollection and apply filters (except orbit)

var filteredCollection = ee.ImageCollection('COPERNICUS/S2\_SR\_HARMONIZED')

 .filterDate('2023-12-15', '2024-10-15')

 .filter(ee.Filter.lte('CLOUDY\_PIXEL\_PERCENTAGE', 35)) // Cloud cover filter

 .filter(ee.Filter.inList('MGRS\_TILE', ['29SNC'])); // Tile filter

// Function to extract relevant image information

var extractImageInfo = function(image) {

 var date = ee.Date(image.get('system:time\_start')).format('YYYY-MM-dd');

 var cloudCoverage = ee.Number(image.get('CLOUDY\_PIXEL\_PERCENTAGE')).round(); // Ensure it's a number

 var productId = image.get('system:id');

 return ee.Feature(null, {

 'Product ID': productId,

 'Date': date,

 'Cloud Coverage (%)': cloudCoverage

 });

};

// Apply the function to extract info for each image

var imageInfoList = filteredCollection.map(extractImageInfo);

// Convert to a feature collection for better visualization

var imageInfoFeatureCollection = ee.FeatureCollection(imageInfoList);

// Print as a table in the console (forcing list conversion)

print('List of Images with Cloud Coverage:', imageInfoFeatureCollection);

// Manually extract and print the details for verification

var imageList = imageInfoFeatureCollection.toList(imageInfoFeatureCollection.size());

var extractedInfo = imageList.map(function(feature) {

 var f = ee.Feature(feature);

 return ee.String(f.get('Date')).cat(' - ')

 .cat(f.get('Product ID')).cat(' - Cloud Cover: ')

 .cat(ee.String(f.get('Cloud Coverage (%)')));

});

// Print as readable list

print('Formatted Image List:', extractedInfo);

//////////////////////////////////////////////////////////////////////////////

List of Images with Cloud Coverage:

JSON

FeatureCollection COPERNICUS/S2\_SR\_HARMONIZED (62 elements, 0 columns)

JSON

Formatted Image List:

JSON

List (62 elements)

0:

2023-12-15 - COPERNICUS/S2\_SR\_HARMONIZED/20231215T112359\_20231215T112402\_T29SNC - Cloud Cover: 22.0

1:

2023-12-18 - COPERNICUS/S2\_SR\_HARMONIZED/20231218T113409\_20231218T113411\_T29SNC - Cloud Cover: 0.0

2:

2023-12-20 - COPERNICUS/S2\_SR\_HARMONIZED/20231220T112501\_20231220T112457\_T29SNC - Cloud Cover: 21.0

3:

2023-12-23 - COPERNICUS/S2\_SR\_HARMONIZED/20231223T113501\_20231223T113502\_T29SNC - Cloud Cover: 0.0

4:

2023-12-30 - COPERNICUS/S2\_SR\_HARMONIZED/20231230T112501\_20231230T112455\_T29SNC - Cloud Cover: 5.0

5:

2024-01-22 - COPERNICUS/S2\_SR\_HARMONIZED/20240122T113351\_20240122T113440\_T29SNC - Cloud Cover: 32.0

6:

2024-01-24 - COPERNICUS/S2\_SR\_HARMONIZED/20240124T112249\_20240124T112250\_T29SNC - Cloud Cover: 0.0

7:

2024-02-01 - COPERNICUS/S2\_SR\_HARMONIZED/20240201T113311\_20240201T113443\_T29SNC - Cloud Cover: 0.0

8:

2024-02-03 - COPERNICUS/S2\_SR\_HARMONIZED/20240203T112159\_20240203T112158\_T29SNC - Cloud Cover: 0.0

9:

2024-02-06 - COPERNICUS/S2\_SR\_HARMONIZED/20240206T113319\_20240206T113316\_T29SNC - Cloud Cover: 14.0

10:

2024-02-18 - COPERNICUS/S2\_SR\_HARMONIZED/20240218T112131\_20240218T112443\_T29SNC - Cloud Cover: 20.0

11:

2024-02-21 - COPERNICUS/S2\_SR\_HARMONIZED/20240221T113321\_20240221T113445\_T29SNC - Cloud Cover: 3.0

12:

2024-02-26 - COPERNICUS/S2\_SR\_HARMONIZED/20240226T113319\_20240226T113841\_T29SNC - Cloud Cover: 1.0

13:

2024-02-28 - COPERNICUS/S2\_SR\_HARMONIZED/20240228T112111\_20240228T112446\_T29SNC - Cloud Cover: 13.0

14:

2024-03-17 - COPERNICUS/S2\_SR\_HARMONIZED/20240317T113319\_20240317T113844\_T29SNC - Cloud Cover: 0.0

15:

2024-04-11 - COPERNICUS/S2\_SR\_HARMONIZED/20240411T113321\_20240411T113437\_T29SNC - Cloud Cover: 10.0

16:

2024-04-13 - COPERNICUS/S2\_SR\_HARMONIZED/20240413T112119\_20240413T112113\_T29SNC - Cloud Cover: 17.0

17:

2024-04-16 - COPERNICUS/S2\_SR\_HARMONIZED/20240416T113319\_20240416T113318\_T29SNC - Cloud Cover: 0.0

18:

2024-04-18 - COPERNICUS/S2\_SR\_HARMONIZED/20240418T112121\_20240418T112116\_T29SNC - Cloud Cover: 17.0

19:

2024-04-21 - COPERNICUS/S2\_SR\_HARMONIZED/20240421T113321\_20240421T113321\_T29SNC - Cloud Cover: 0.0

20:

2024-04-23 - COPERNICUS/S2\_SR\_HARMONIZED/20240423T112109\_20240423T112112\_T29SNC - Cloud Cover: 0.0

21:

2024-05-01 - COPERNICUS/S2\_SR\_HARMONIZED/20240501T113321\_20240501T113414\_T29SNC - Cloud Cover: 20.0

22:

2024-05-03 - COPERNICUS/S2\_SR\_HARMONIZED/20240503T112119\_20240503T112113\_T29SNC - Cloud Cover: 27.0

23:

2024-05-08 - COPERNICUS/S2\_SR\_HARMONIZED/20240508T112121\_20240508T112144\_T29SNC - Cloud Cover: 34.0

24:

2024-05-11 - COPERNICUS/S2\_SR\_HARMONIZED/20240511T113321\_20240511T113321\_T29SNC - Cloud Cover: 14.0

25:

2024-05-23 - COPERNICUS/S2\_SR\_HARMONIZED/20240523T112109\_20240523T112112\_T29SNC - Cloud Cover: 32.0

26:

2024-05-28 - COPERNICUS/S2\_SR\_HARMONIZED/20240528T112121\_20240528T113016\_T29SNC - Cloud Cover: 0.0

27:

2024-06-02 - COPERNICUS/S2\_SR\_HARMONIZED/20240602T112119\_20240602T112114\_T29SNC - Cloud Cover: 8.0

28:

2024-06-12 - COPERNICUS/S2\_SR\_HARMONIZED/20240612T112119\_20240612T112116\_T29SNC - Cloud Cover: 0.0

29:

2024-06-17 - COPERNICUS/S2\_SR\_HARMONIZED/20240617T112121\_20240617T112119\_T29SNC - Cloud Cover: 11.0

30:

2024-06-22 - COPERNICUS/S2\_SR\_HARMONIZED/20240622T112119\_20240622T112115\_T29SNC - Cloud Cover: 15.0

31:

2024-06-27 - COPERNICUS/S2\_SR\_HARMONIZED/20240627T112121\_20240627T112116\_T29SNC - Cloud Cover: 29.0

32:

2024-07-02 - COPERNICUS/S2\_SR\_HARMONIZED/20240702T112119\_20240702T112818\_T29SNC - Cloud Cover: 0.0

33:

2024-07-05 - COPERNICUS/S2\_SR\_HARMONIZED/20240705T113319\_20240705T113951\_T29SNC - Cloud Cover: 4.0

34:

2024-07-07 - COPERNICUS/S2\_SR\_HARMONIZED/20240707T112121\_20240707T112127\_T29SNC - Cloud Cover: 0.0

35:

2024-07-12 - COPERNICUS/S2\_SR\_HARMONIZED/20240712T112119\_20240712T112741\_T29SNC - Cloud Cover: 0.0

36:

2024-07-17 - COPERNICUS/S2\_SR\_HARMONIZED/20240717T112111\_20240717T112128\_T29SNC - Cloud Cover: 0.0

37:

2024-07-22 - COPERNICUS/S2\_SR\_HARMONIZED/20240722T112119\_20240722T112337\_T29SNC - Cloud Cover: 0.0

38:

2024-07-27 - COPERNICUS/S2\_SR\_HARMONIZED/20240727T112121\_20240727T112908\_T29SNC - Cloud Cover: 0.0

39:

2024-07-30 - COPERNICUS/S2\_SR\_HARMONIZED/20240730T113321\_20240730T113530\_T29SNC - Cloud Cover: 15.0

40:

2024-08-01 - COPERNICUS/S2\_SR\_HARMONIZED/20240801T112119\_20240801T112113\_T29SNC - Cloud Cover: 0.0

41:

2024-08-04 - COPERNICUS/S2\_SR\_HARMONIZED/20240804T113319\_20240804T113319\_T29SNC - Cloud Cover: 2.0

42:

2024-08-06 - COPERNICUS/S2\_SR\_HARMONIZED/20240806T112111\_20240806T112425\_T29SNC - Cloud Cover: 0.0

43:

2024-08-09 - COPERNICUS/S2\_SR\_HARMONIZED/20240809T113321\_20240809T113611\_T29SNC - Cloud Cover: 1.0

44:

2024-08-11 - COPERNICUS/S2\_SR\_HARMONIZED/20240811T112119\_20240811T112121\_T29SNC - Cloud Cover: 6.0

45:

2024-08-14 - COPERNICUS/S2\_SR\_HARMONIZED/20240814T113319\_20240814T113321\_T29SNC - Cloud Cover: 0.0

46:

2024-08-16 - COPERNICUS/S2\_SR\_HARMONIZED/20240816T112111\_20240816T112845\_T29SNC - Cloud Cover: 0.0

47:

2024-08-19 - COPERNICUS/S2\_SR\_HARMONIZED/20240819T113321\_20240819T113317\_T29SNC - Cloud Cover: 0.0

48:

2024-08-21 - COPERNICUS/S2\_SR\_HARMONIZED/20240821T112119\_20240821T113014\_T29SNC - Cloud Cover: 0.0

49:

2024-08-24 - COPERNICUS/S2\_SR\_HARMONIZED/20240824T113319\_20240824T113541\_T29SNC - Cloud Cover: 0.0

50:

2024-08-26 - COPERNICUS/S2\_SR\_HARMONIZED/20240826T112111\_20240826T112715\_T29SNC - Cloud Cover: 24.0

51:

2024-08-29 - COPERNICUS/S2\_SR\_HARMONIZED/20240829T113321\_20240829T113928\_T29SNC - Cloud Cover: 17.0

52:

2024-08-31 - COPERNICUS/S2\_SR\_HARMONIZED/20240831T112119\_20240831T112115\_T29SNC - Cloud Cover: 0.0

53:

2024-08-31 - COPERNICUS/S2\_SR\_HARMONIZED/20240831T112119\_20240831T113031\_T29SNC - Cloud Cover: 26.0

54:

2024-09-03 - COPERNICUS/S2\_SR\_HARMONIZED/20240903T113319\_20240903T113320\_T29SNC - Cloud Cover: 2.0

55:

2024-09-10 - COPERNICUS/S2\_SR\_HARMONIZED/20240910T112119\_20240910T112935\_T29SNC - Cloud Cover: 0.0

56:

2024-09-13 - COPERNICUS/S2\_SR\_HARMONIZED/20240913T113319\_20240913T113318\_T29SNC - Cloud Cover: 0.0

57:

2024-09-15 - COPERNICUS/S2\_SR\_HARMONIZED/20240915T112111\_20240915T112112\_T29SNC - Cloud Cover: 14.0

58:

2024-09-18 - COPERNICUS/S2\_SR\_HARMONIZED/20240918T113321\_20240918T113709\_T29SNC - Cloud Cover: 21.0

59:

2024-09-30 - COPERNICUS/S2\_SR\_HARMONIZED/20240930T112119\_20240930T112114\_T29SNC - Cloud Cover: 4.0

60:

2024-10-10 - COPERNICUS/S2\_SR\_HARMONIZED/20241010T112109\_20241010T112555\_T29SNC - Cloud Cover: 33.0

61:

2024-10-13 - COPERNICUS/S2\_SR\_HARMONIZED/20241013T113319\_20241013T113747\_T29SNC - Cloud Cover: 8.0

