PART 1: Getting Sample Data

1. For each Plot csv file (*not* raw sample files):
   1. **Open** the csv file in Excel. For example: *ceo-rlcms-cambodia-Plots\_2017-10-03.csv*.
   2. **Remove any periods** (.) from column names (e.g. LULC:BUILT VEG**.** (NON-TREE), LULC:AQUATIC VEG**.** OTHER). Earth Engine does not accept columns with periods in the names.
   3. **Rename** **CENTER\_LAT** column name to **Latitude**, and **CENTER\_LON** to **Longitude**. Google Fusion Tables can only geo-locate points with certain column names, such as ‘Latitude’ and ‘Longitude’.
   4. **Save** and **close** the csv file.
2. Go to your Google Drive account at **drive.google.com** and log in.
   1. Click **New** -> **More** -> **Google Fusion Tables**

Note: If you do not see “Google Fusion Tables” in the available applications, click **Connect more apps** and search for **Google Fusion Tables**. Follow the steps to add the app.

* 1. Click **Choose File** and select the modified csv file. Click **Next**. Click **Next** again. Click **Finish**. You should see the rows of the data.
  2. Next let’s update the sharing settings. Click **Share**. Click **Change…** and change to **Anyone who has the link can view**. Click **Save**. Click **Done**. Now the Fusion Table is shared.
  3. Click **Map of Latitude** to verify that the points are on the map.
  4. Click **File** -> **About this table** and find the table ID at the bottom. **Copy** this ID. For example: *17dgY1oRXoqjMoFqf0rFaNR6dqGN\_JVCB3KfFuGTD*. You will need this ID for the next steps.
  5. You can **close** the browser tab with the Fusion Table.
  6. **Repeat** these steps for each of the data files.

1. Once you have the Fusion Table IDs for all of your data files, open Google Earth Engine at **code.earthengine.google.com** and log in. In the code editor, enter the following commands.
   1. Load each of the Fusion tables, changing the numbers and IDs to your IDs. For instance, you might have an ID similar to *17dgY1oRXoqjMoFqf0rFaNR6dqGN\_JVCB3KfFuGTD*. Don’t forget to include the **‘ft:** in the ID string.

var data1 = ee.FeatureCollection(‘ft:data1ID’);

var data2 = ee.FeatureCollection(‘ft:data2ID’);

...

* 1. Merge the feature collections, for however many datasets you have:

var data = data1.merge(data2).merge(data3)...;

* 1. Remove the unanalyzed or incomplete data:

data = data.filter(ee.Filter.eq(‘ANALYSES’,1));

* 1. Load the image layers, changing the numbers and IDs to your IDs. For instance, for a primitive, you might have an ID similar to: *projects/servir-mekong/Primitives/P\_barren/P\_barren\_2016*. For an assemblage, you might have an ID similar to *projects/servir-mekong/Assemblage/RegionalLC/RegionalLC\_2016*.

var image1 = ee.Image(‘imageID1’);

var image2 = ee.Image(‘imageID2’);

...

* 1. Merge the image layers, for however many layers you have:

var image = image1.addBands(image2).addBands(image3)...;

* 1. Sample the image layers at the data locations. Don’t forget to add pixelLonLat so that the features keep their location:

var sample = image.addBands(ee.Image(pixelLonLat()).sampleRegions(data);

* 1. Add geometry back to the features:

sample = sample.map(function(f){

var location = ee.Geometry.Point([f.get('longitude'), f.get('latitude')]);

return ee.Feature(location, f.toDictionary());

});

* 1. Export sample to Google Drive, where *fileName* is the name of your exported file:

Export.table.toDrive(sample,fileName);

* 1. Click **Run**. In the Tasks tab, find the export with your *fileName* and click **Run**. Click **Run** a final time. The task may take a while to run, depending on how much data and how many image layers you have included.
  2. When the task turns blue, indicating it is finished, return to your Google Drive account and download the csv file with your *fileName*, by **right-clicking** the file and then clicking **Download**.